

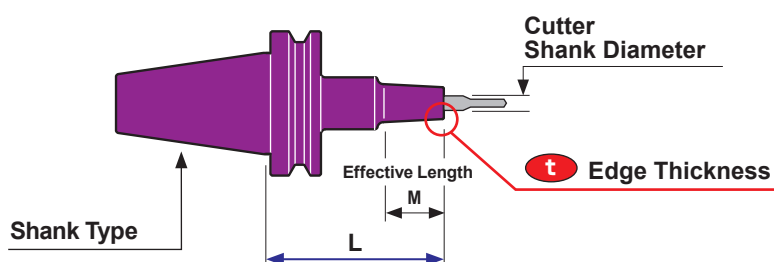
SHRINK-FIT HOLDER
SLIMLINE

Mono Block Series

MONO series



Code System



Shank Type: **BT50** — Holder Type: **SLSA** — Cutter Shank Diameter: **3** — L: **110** — Effective Length: **M42**

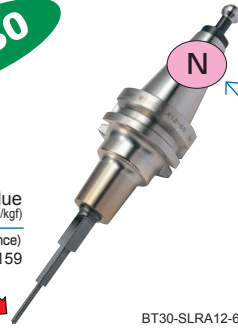
		
	BT30	P. 32
	BT40	P. 34
	BT50	P. 56
	A40	P. 78
	A50	P. 80
	A63	P. 84
	A100	P.106
	E25	P.128
	E32	P.130
	E40	P.132
	E50	P.135
	F63	P.140
	15T	P.143
	RS20	P.144
	HT20	P.145
	S20T	P.146

	3	3.175	4	5	6	8	10	12	16	20	25
3	●	●	●		●	●	●	●	●	●	
3.175	●		●		●	●	●	●	●	●	●
4	●		●		●	●	●	●	●	●	●
5	●		●		●	●	●	●	●	●	●
6	●		●		●	●	●	●	●	●	●
8	●		●		●	●	●	●	●	●	●
10	●		●		●	●	●	●	●	●	●
12	●		●		●	●	●	●	●	●	●
16	●		●		●	●	●	●	●	●	●
20	●		●		●	●	●	●	●	●	●
25	●		●		●	●	●	●	●	●	●

	t Thickness
SLSA (Slim A type)	1.5 (Constant)
SLSB (Slim B type)	2 ~ 4.5
SLRA (Regular A type)	2.25 ~ 3
SLRB (Regular B type)	4 ~ 10
SLFB (Flush B type)	3.25 ~ 10

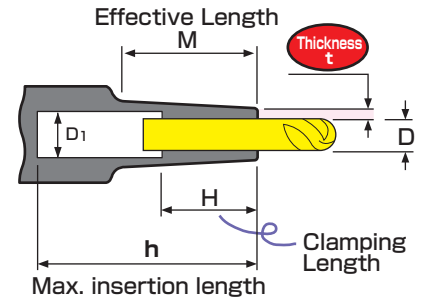
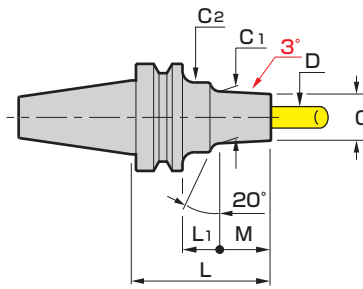


Rigidity Value
($\mu\text{m/kgf}$)
(Reference) P.159



BT30-SLRA12-60-M22

Balance Value
(g·mm)
(Reference) P.158

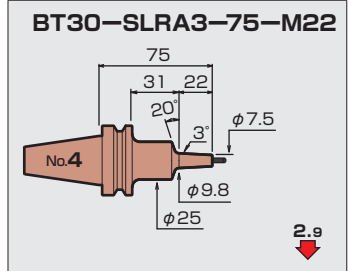
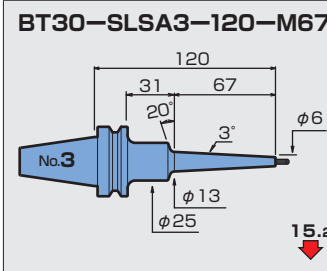
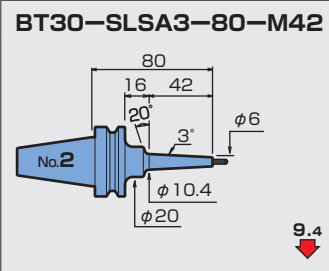
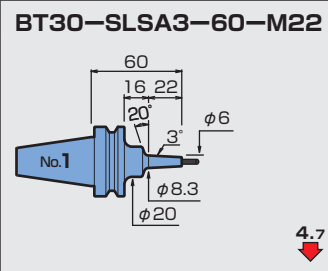


CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
BT30-SLSA 3- 60-M22	3	6		60	22	16	8.3	20	4	9	80	0.4	0.8	4.7	1
- 80-M42			1.5	80	42		10.4				100			9.4	2
-120-M67				120	67	31	13	25			140	0.5	1.6	15.2	3
-SLRA 3- 75-M22		7.5	2.25	75	22		9.8				95			2.9	4
BT30-SLSA3.175- 60-M22	3.175	6.175	1.5	60	22	16	8.5	20	4	9	80	0.4	0.8	4.5	5
- 80-M42				80	42		10.6				100			9.0	6
BT30-SLSA 4- 60-M22	4	7		60	22	16	9.3	20	5	12	80	0.4	0.8	3.7	7
- 80-M42			1.5	80	42		11.4				100			7.4	8
-120-M67				120	67	31	14	25			140	0.5	1.6	12.2	9
-SLRA 4- 75-M22		10	3	75	22		12.3				95			1.8	10
BT30-SLSA 6- 60-M22	6	9		60	22	16	11.3	20	7	18	80	0.4	0.9	2.4	11
- 80-M42			1.5	80	42		13.4				100			5.0	12
-120-M67				120	67	31	16	25			140	0.5	1.7	8.3	13
-SLRA 6- 60-M22		12	3	60	22	16	14.3	26			80	0.4	0.9	1.3	14
BT30-SLRA 8- 60-M22	8	14	3	60	22	16	16.3	26	8.6	24	80	0.4	0.9	1.0	15
BT30-SLRA10- 60-M22	10	16	3	60	22	16	18.3	26	10.6	30	80	0.4	1.0	0.8	16
BT30-SLRA12- 60-M22	12	20	4	60	22	16	22.3	30	12.6	30	60	0.5	1.2	0.6	17
BT30-SLRA16- 60-M22	16	26	5	60	22	16	28.3	34	16.6	32	60	0.5	1.6	0.5	18
BT30-SLRA20- 65-M22	20	32	6	65	22	21	34.3	40	20.6	38	60	0.6	2.1	0.4	19

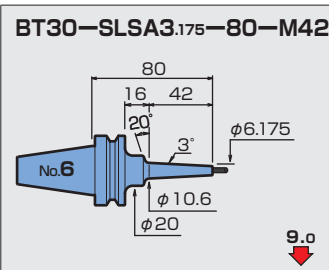
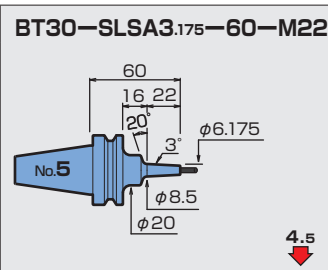
BT30 Scale Model

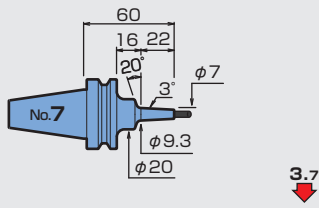
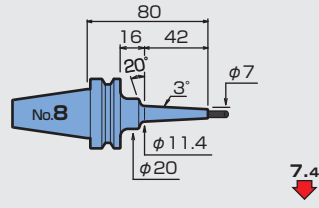
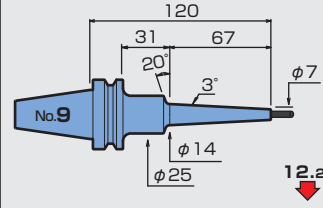
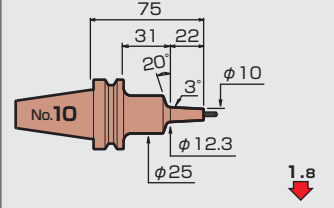
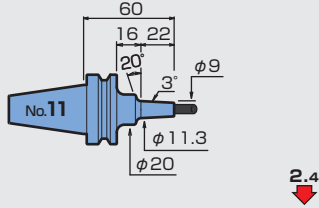
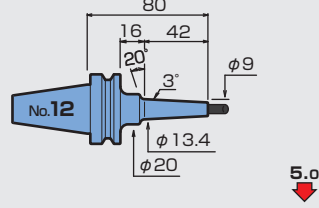
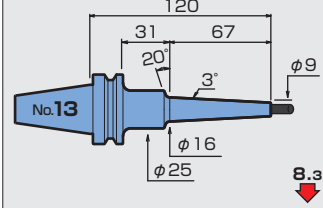
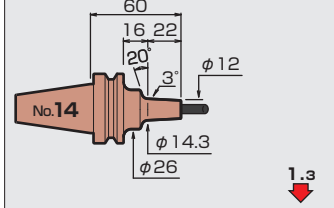
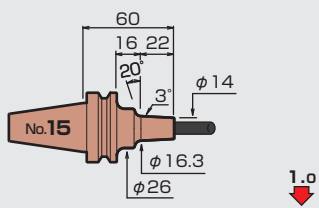
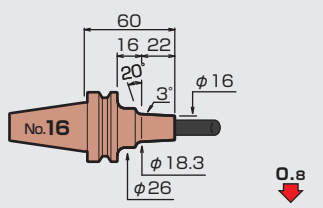
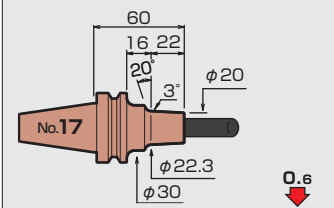
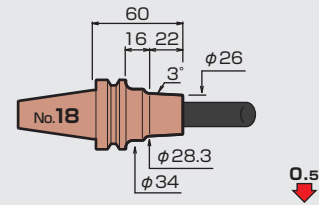
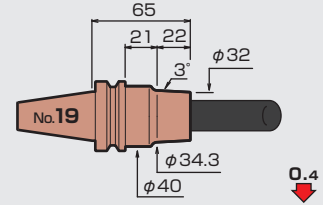
S=1:4

$\phi 3$



$\phi 3.175$



φ4**BT30-SLSA4-60-M22****BT30-SLSA4-80-M42****BT30-SLSA4-120-M67****BT30-SLRA4-75-M22****φ6****BT30-SLSA6-60-M22****BT30-SLSA6-80-M42****BT30-SLSA6-120-M67****BT30-SLRA6-60-M22****φ8****BT30-SLRA8-60-M22****φ10****BT30-SLRA10-60-M22****φ12****BT30-SLRA12-60-M22****φ16****BT30-SLRA16-60-M22****φ20****BT30-SLRA20-65-M22**

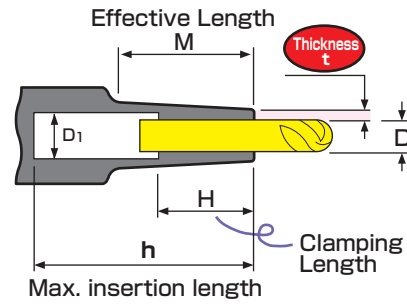
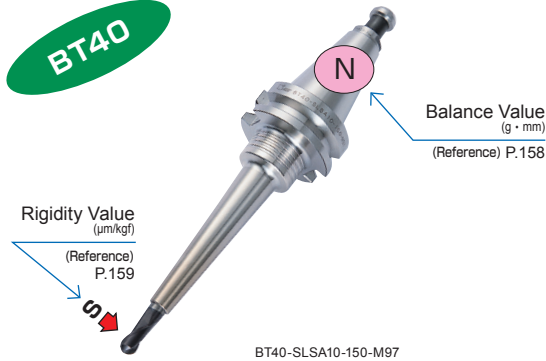


Fig.1

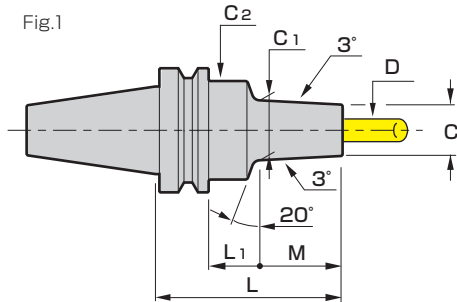
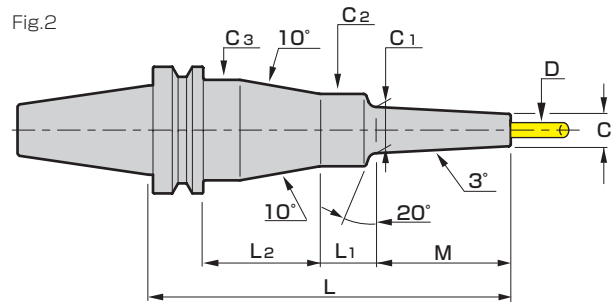


Fig.2



CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT40-SLSA 3- 95-M 42	1	3	6	1.5	95	42	26	—	10.4	26	—	4	9	130	1.0	2.3	9.3	1
- 120-M 67					120	67			13					155		3.1	14.9	4
- 125-M 42					125	42	56		10.4					160	1.1	2.5	9.9	2
- 150-M 67					150	67			13					185		3.2	15.8	5
- M 97					97	26			16.2							4.0	20.7	7
- 155-M 42	2				155	42	33	53	10.4		40			190	1.4	2.7	9.9	3
- 180-M 67					180	67			13					215		3.4	15.8	6
- M 97	1					97	56	—	16.2		—				1.2	4.1	22.2	8
- 210-M 97	2				210		33	53			40			245	1.4	4.3	22.1	9
- SLRA 3- 75-M 22	1	3	7.5	2.25	75	22	26	—	9.8	26	—	5	9	110	1.0	2.6	2.8	10
- 95-M 42					95	42			11.9					130		2.9	5.4	13
- 105-M 22					105	22	56		9.8					140	1.1	2.7	3.2	11
- 120-M 67					120	67	26		14.5					155	1.0	3.4	8.9	16
- 125-M 42					125	42	56		11.9					160	1.1	3.0	5.9	14
- 135-M 22	2				135	22	33	53	9.8		40			170	1.4	2.9	3.2	12
- 150-M 67	1				150	67	56	—	14.5		—			185	1.1	3.5	9.8	17
- M 97					97	26			17.7							4.1	12.9	19
- 155-M 42	2				155	42	33	53	11.9		40			190	1.4	3.2	6.0	15
- 180-M 67					180	67			14.5					215		3.7	9.8	18
- M 97	1					97	56	—	17.7		—				1.2	4.2	14.3	20
- M127					127	26			20.8	36					1.1	5.4	15.7	22
- 210-M 97	2				210	97	33	53	17.7	26	40			245	1.5	4.4	14.3	21
- M127	1					127	56	—	20.8	36	—				1.3	5.5	16.2	23
- 240-M127	2				240		28	58			50			275	1.8	5.8	16.3	24
- SLFB 3- 75-M 22	1	3	9.5	3.25	75	22	26	—	11.8	26	—	5	9	110	1.0	2.4	1.9	25
- 95-M 42					95	42			13.9					130		2.7	3.2	28
- 105-M 22					105	22	56		11.8					140	1.1	2.5	2.2	26
- 120-M 67					120	67	26		16.5					155		3.4	5.3	31
- 125-M 42					125	42	56		13.9					160		2.8	3.8	29
- 135-M 22	2				135	22	33	53	11.8		40			170	1.4	2.7	2.3	27
- 150-M 67	1				150	67	56	—	16.5		—			185	1.2	3.6	6.3	32
- 155-M 42	2				155	42	33	53	13.9		40			190	1.4	3.0	3.8	30
- 180-M 67					180	67			16.5					215		3.8	6.3	33

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT40-SLSA 4- 95-M 42	1	4	7	1.5	95	42	26	—	11.4	26	—	5	12	130	1.0	3.1	7.3	34
- 120-M 67					120	67			14					155			11.8	37
- 125-M 42					125	42	56		11.4					160	1.1	3.3	7.9	35
- 150-M 67					150	67			14					185			12.8	38
- M 97					97	26			17.2							4.1	16.7	40
- 155-M 42	2				155	42	33	53	11.4		40			190	1.4	3.5	7.9	36
- 180-M 67					180	67			14					215			12.8	39
- M 97	1				97	56	—		17.2		—				1.2	4.2	18.2	41
- 210-M 97	2				210		33	53			40			245	1.5	4.4		42
- SLRA 4- 75-M 22	1	4	10	3	75	22	26	—	12.3	26	—	6	12	110	1.0	2.7	1.7	43
- 95-M 42					95	42			14.4					130		3.1	3.1	46
- 105-M 22					105	22	56		12.3					140	1.1	2.8	2.1	44
- 120-M 67					120	67	26		17					155		3.9	5.1	49
- 125-M 42					125	42	56		14.4					160		3.3	3.7	47
- 135-M 22	2				135	22	33	53	12.3		40			170	1.4	3.0	2.1	45
- 150-M 67	1				150	67	56	—	17		—			185	1.2	4.0	6.1	50
- M 97					97	26			20.2						1.1	4.8	7.7	52
- 155-M 42	2				155	42	33	53	14.4		40			190	1.4	3.5	3.7	48
- 180-M 67					180	67			17					215		4.2	6.1	51
- M 97	1				97	56	—		20.2		—				1.2	4.9	9.2	53
- M127					127	26			23.3	36					1.3	6.8	9.3	55
- 210-M 97	2				210	97	33	53	20.2	26	40			245	1.5	5.1	9.1	54
- M127	1					127	56	—	23.3	36	—					7.0	9.9	56
- 240-M127	2				240		28	58			50			275	2.0	7.3		57
- SLFB 4- 75-M 22	1	4	12	4	75	22	26	—	14.3	26	—	6	12	110	1.0	2.5	1.3	58
- 95-M 42					95	42			16.4					130	1.1	3.0	2.2	61
- 105-M 22					105	22	56		14.3					140		2.7	1.7	59
- 120-M 67					120	67	26		19					155		3.8	3.5	64
- 125-M 42					125	42	56		16.4					160	1.2	3.1	2.8	62
- 135-M 22	2				135	22	33	53	14.3		40			170	1.4	2.9	1.8	60
- 150-M 67	1				150	67	56	—	19		—			185	1.2	4.0	4.5	65
- 155-M 42	2				155	42	33	53	16.4		40			190	1.4	3.3	2.8	63
- 180-M 67					180	67			19					215	1.5	4.2	4.5	66
BT40-SLSA 6- 95-M 42	1	6	9	1.5	95	42	26	—	13.4	26	—	7	18	130	1.0	3.3	4.8	67
- 120-M 67					120	67			16					155	1.1	4.4	8.0	70
- 125-M 42					125	42	56		13.4					160		3.5	5.5	68
- 150-M 67					150	67			16					185	1.2	4.5	9.0	71
- M 97					97	26			19.2	36						5.9	11.0	73
- 155-M 42	2				155	42	33	53	13.4	26	40			190	1.4	3.7	5.5	69
- 180-M 67					180	67			16					215		4.7	9.0	72
- M 97	1				97	56	—		19.2	36	—					6.1	11.4	74
- 210-M 97	2				210		28	58			50			245	1.9	6.4	11.5	75
- SLSB 6- 95-M 42	1	6	10	2	95	42	26	—	14.4	26	—	8	18	130	1.0	4.0	3.8	76
- 120-M 67					120	67			17					155	1.1	5.4	6.3	79
- 125-M 42					125	42	56		14.4					160		4.1	4.5	77
- 150-M 67					150	67			17					185	1.2	5.5	7.4	80
- M 97					97	26			20.2	36						7.2	8.9	82
- 155-M 42	2				155	42	33	53	14.4	26	40			190	1.4	4.3	4.5	78
- 180-M 67					180	67			17					215		5.7	7.4	81
- M 97	1				97	56	—		20.2	36	—					7.4	9.3	83
- M127					127	26			23.3						1.3	8.9	11.4	85
- 210-M 97	2				210	97	28	58	20.2		50			245	1.9	7.7	9.4	84
- M127	1					127	56	—	23.3		—				1.5	9.1	12.1	86
- M157					157	26			26.5						1.4	10.6	13.7	88
- 240-M127	2				240	127	28	58	23.3		50			275	2.0	9.4	12.1	87
- M157	1					157	56	—	26.5		—				1.7	10.8	14.5	89
- 270-M157	2				270		28	58			50			305	2.1	11.0	14.6	90

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT40 – SLRB 6 – 75 – M 22	1	6	14	4	75	22	26	—	16.3	36	—	8	18	110	1.1	3.2	0.9	91
– 95 – M 42					95	42			18.4					130		4.3	1.6	94
– 105 – M 22					105	22	56		16.3					140	1.3	3.3	1.1	92
– 120 – M 67					120	67	26		21					155	1.2	5.6	2.5	97
– 125 – M 42					125	42	56		18.4					160	1.3	4.4	1.8	95
– 135 – M 22	2				135	22	28	58	16.3		50			170	1.8	3.6	1.1	93
– 150 – M 67	1				150	67	56	—	21		—			185	1.4	5.8	2.8	98
– 155 – M 42	2				155	42	28	58	18.4		50			190	1.8	4.7	1.8	96
– 180 – M 67					180	67			21					215	1.9	6.1	2.9	99
– SLFB 6 – 75 – M 22	1	6	14	4	75	22	26	—	16.3	36	—	8	18	110	1.1	3.2	0.9	100
– 95 – M 42					95	42			18.4					130		4.3	1.6	103
– 105 – M 22					105	22	56		16.3					140	1.3	3.3	1.1	101
– 120 – M 67					120	67	26		21					155	1.2	5.6	2.5	106
– 125 – M 42					125	42	56		18.4					160	1.3	4.4	1.8	104
– 135 – M 22	2				135	22	28	58	16.3		50			170	1.8	3.6	1.1	102
– 150 – M 67	1				150	67	56	—	21		—			185	1.4	5.8	2.8	107
– 155 – M 42	2				155	42	28	58	18.4		50			190	1.8	4.7	1.8	105
– 180 – M 67					180	67			21					215	1.9	6.1	2.9	108
BT40 – SLSA 8 – 95 – M 42	1	8	11	1.5	95	42	26	—	15.4	36	—	9	24	130	1.1	4.6	3.2	109
– 120 – M 67					120	67			18					155		6.3	5.4	112
– 125 – M 42					125	42	56		15.4					160	1.3	4.7	3.4	110
– 150 – M 67					150	67			18					185		6.5	5.7	113
– M 97						97	26		21.2						1.2	8.4	7.8	115
– 155 – M 42	2				155	42	28	58	15.4		50			190	1.8	5.0	3.4	111
– 180 – M 67					180	67			18					215		6.7	5.7	114
– M 97	1					97	56	—	21.2		—				1.4	8.6	8.3	116
– 210 – M 97	2				210		28	58			50			245	1.9	8.8	8.4	117
– SLSB 8 – 95 – M 42	1	8	13	2.5	95	42	26	—	17.4	36	—	10	24	130	1.1	5.3	2.1	118
– 120 – M 67					120	67			20					155		7.4	3.5	121
– 125 – M 42					125	42	56		17.4					160	1.3	5.5	2.3	119
– 150 – M 67					150	67			20					185	1.4	7.6	3.9	122
– M 97						97	26		23.2						1.2	10.0	5.2	124
– 155 – M 42	2				155	42	28	58	17.4		50			190	1.8	5.7	2.4	120
– 180 – M 67					180	67			20					215		7.9	3.9	123
– M 97	1					97	56	—	23.2		—				1.4	10.2	5.7	125
– M127						127	26		26.3						1.3	12.6	7.0	127
– 210 – M 97	2				210	97	28	58	23.2		50			245	1.9	10.4	5.8	126
– M127	1					127	56	—	26.3		—				1.5	12.7	7.7	128
– M157						157	26		29.5						1.4	15.1	8.5	130
– 240 – M127	2				240	127	28	58	26.3		50			275	2.0	13.0	7.7	129
– M157	1					157	56	—	29.5		—				1.7	15.3	9.4	131
– 270 – M157	2				270		28	58			50			305	2.1	15.6	9.5	132
– SLRB 8 – 75 – M 22	1	8	18	5	75	22	26	—	20.3	36	—	10	24	110	1.1	3.6	0.7	133
– 95 – M 42					95	42			22.4					130	1.2	5.3	1.0	136
– 105 – M 22					105	22	56		20.3					140	1.3	3.8	0.8	134
– 120 – M 67					120	67	26		25					155	1.2	7.5	1.6	139
– 125 – M 42					125	42	56		22.4					160	1.4	5.5	1.2	137
– 135 – M 22	2				135	22	28	58	20.3		50			170	1.8	4.1	0.9	135
– 150 – M 67	1				150	67	56	—	25		—			185	1.5	7.6	1.9	140
– 155 – M 42	2				155	42	28	58	22.4		50			190	1.9	5.8	1.3	138
– 180 – M 67					180	67			25					215		7.9	2.0	141
– SLFB 8 – 75 – M 22	1	8	18	5	75	22	26	—	20.3	36	—	10	24	110	1.1	3.6	0.7	142
– 95 – M 42					95	42			22.4					130	1.2	5.3	1.0	145
– 105 – M 22					105	22	56		20.3					140	1.3	3.8	0.8	143
– 120 – M 67					120	67	26		25					155	1.2	7.5	1.6	148
– 125 – M 42					125	42	56		22.4					160	1.4	5.5	1.2	146
– 135 – M 22	2				135	22	28	58	20.3		50			170	1.8	4.1	0.9	144
– 150 – M 67	1				150	67	56	—	25		—			185	1.5	7.6	1.9	149
– 155 – M 42	2				155	42	28	58	22.4		50			190	1.9	5.8	1.3	147
– 180 – M 67					180	67			25					215		7.9	2.0	150

BT40

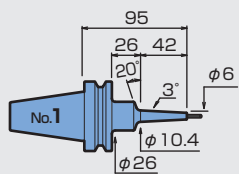
CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT40 – SLSA10 – 95 – M 42	1	10	13	1.5	95	42	26	—	17.4	36	—	11	30	130	1.1	5.5	2.3	151
					120	67			20					155		8.1	4.0	154
					125	42	56		17.4					160	1.3	5.7	2.5	152
					150	67			20					185	1.4	8.2	4.3	155
					97	26			23.2						1.2		5.9	157
					155	42	28	58	17.4		50			190	1.8	5.9	2.5	153
					180	67			20					215		8.5	4.4	156
						97	56	—	23.2		—				1.5		6.4	158
					210		28	58			50			245	1.9		6.5	159
– SLSB10 – 95 – M 42	1	10	16	3	95	42	26	—	20.4	36	—	12	30	130	1.1	6.3	1.4	160
– 120 – M 67					120	67			23					155	1.2	9.3	2.4	163
– 125 – M 42					125	42	56		20.4					160	1.3	6.4	1.6	161
– 150 – M 67					150	67			23					185	1.4	9.5	2.7	164
– M 97					97	26			26.2						1.3	13.0	3.6	166
– 155 – M 42	2				155	42	28	58	20.4		50			190	1.8	6.7	1.7	162
– 180 – M 67					180	67			23					215	1.9	9.8	2.8	165
– M 97	1				97	56	—		26.2		—				1.4	13.2	4.1	167
– M127					127	26			29.3	50				190	1.5	17.4	4.5	169
– 210 – M 97	2				210	97	28	58	26.2	36	50			245	1.9	13.5	4.1	168
– M127	1					127	56	—	29.3	50	—			220	1.8	17.9	4.7	170
– M157						157	26		32.5						1.6	21.1	5.5	172
– 240 – M127					240	127	86		29.3					250	2.1	18.5	5.0	171
– M157						157	56		32.5						1.8	21.7	5.8	173
– 270 – M157					270		86							305	2.1	22.2	6.2	174
– SLRB10 – 75 – M 22	1	10	22	6	75	22	26	—	24.3	36	—	12	30	110	1.1	3.8	0.5	175
– 95 – M 42					95	42			26.4					130	1.2	6.3	0.8	178
– 105 – M 22					105	22	56		24.3					140	1.3	4.0	0.7	176
– 120 – M 67					120	67	26		29					155		9.4	1.2	181
– 125 – M 42					125	42	56		26.4					160	1.4	6.5	1.0	179
– 135 – M 22	2				135	22	28	58	24.3		50			170	1.8	4.3	0.7	177
– 150 – M 67	1				150	67	56	—	29		—			185	1.5	9.6	1.5	182
– 155 – M 42	2				155	42	28	58	26.4		50			190	1.9	6.8	1.1	180
– 180 – M 67					180	67			29					215	2.0	9.8	1.6	183
– SLFB10 – 75 – M 22	1	10	22	6	75	22	26	—	24.3	36	—	12	30	110	1.1	3.8	0.5	184
– 95 – M 42					95	42			26.4					130	1.2	6.3	0.8	187
– 105 – M 22					105	22	56		24.3					140	1.3	4.0	0.7	185
– 120 – M 67					120	67	26		29					155		9.4	1.2	190
– 125 – M 42					125	42	56		26.4					160	1.4	6.5	1.0	188
– 135 – M 22	2				135	22	28	58	24.3		50			170	1.8	4.3	0.7	186
– 150 – M 67	1				150	67	56	—	29		—			185	1.5	9.6	1.5	191
– 155 – M 42	2				155	42	28	58	26.4		50			190	1.9	6.8	1.1	189
– 180 – M 67					180	67			29					215	2.0	9.8	1.6	192
– 180 – M 67																		
BT40 – SLSA12 – 95 – M 42	1	12	15	1.5	95	42	26	—	19.4	36	—	13	30	130	1.1	7.1	1.8	193
– 120 – M 67					120	67			22					155		10.7	3.2	196
– 125 – M 42					125	42	56		19.4					160	1.3	7.3	2.1	194
– 150 – M 67					150	67			22					185	1.4	10.9	3.6	197
– M 97					97	26			25.2						1.2	15.3	4.8	199
– 155 – M 42	2				155	42	28	58	19.4		50			190	1.8	7.5	2.1	195
– 180 – M 67					180	67			22					215		11.2	3.6	198
– M 97	1					97	56	—	25.2		—				1.4	15.5	5.3	200
– 210 – M 97	2				210		28	58			50			245	1.9	15.8	5.4	201
– 210 – M 97																		

CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L_1	L_2	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
BT40 – SLSB12 – 95 – M 42	1	12	19	3.5	95	42	26	—	23.4	36	—	14	30	130	1.1	8.0	1.1	202
– 120 – M 67					120	67			26					155	1.2	12.2	1.8	205
– 125 – M 42					125	42	56		23.4					160	1.4	8.2	1.3	203
– 150 – M 67					150	67			26					185		12.4	2.1	206
– M 97						97	26		29.2	50				160		17.9	2.4	208
– 155 – M 42	2				155	42	28	58	23.4	36	50			190	1.8	8.4	1.4	204
– 180 – M 67					180	67			26					215	1.9	12.6	2.2	207
– M 97	1					97	56	—	29.2	50	—			190	1.7	18.4	2.6	209
– M127						127	26		32.3						1.5	22.9	3.2	211
– 210 – M 97					210	97	86		29.2				220	2.1	19.0	2.9		210
– M127						127	56		32.3						1.9	23.5	3.5	212
– M157						157	26		35.5						1.7	27.9	4.0	214
– 240 – M127					240	127	86		32.3				250	2.2	24.0	3.8		213
– M157						157	56		35.5						2.0	28.5	4.4	215
– 270 – M157					270		86						280	2.4	29.1	4.8		216
– SLRB12 – 75 – M 22	1	12	26	7	75	22	26	—	28.3	50	—	14	30	85	1.1	6.9	0.4	217
– 95 – M 42					95	42			30.4					105	1.3	8.7	0.6	220
– 105 – M 22					105	22	56		28.3					115	1.4	7.5	0.5	218
– 120 – M 67					120	67	26		33					130		12.9	0.8	223
– 125 – M 42					125	42	56		30.4					135	1.6	9.3	0.6	221
– 135 – M 22					135	22	86		28.3					145	1.8	8.1		219
– 150 – M 67					150	67	56		33					160	1.7	13.5	0.9	224
– 155 – M 42					155	42	86		30.4					165	2.0	9.9	0.8	222
– 180 – M 67					180	67			33					190	2.1	14.1	1.1	225
– SLFB12 – 75 – M 22	1	12	26	7	75	22	26	—	28.3	50	—	14	30	85	1.1	6.9	0.4	226
– 95 – M 42					95	42			30.4					105	1.3	8.7	0.6	229
– 105 – M 22					105	22	56		28.3					115	1.4	7.5	0.5	227
– 120 – M 67					120	67	26		33					130		12.9	0.8	232
– 125 – M 42					125	42	56		30.4					135	1.6	9.3	0.6	230
– 135 – M 22					135	22	86		28.3					145	1.8	8.1		228
– 150 – M 67					150	67	56		33					160	1.7	13.5	0.9	233
– 155 – M 42					155	42	86		30.4					165	2.0	9.9	0.8	231
– 180 – M 67					180	67			33					190	2.1	14.1	1.1	234
BT40 – SLSB16 – 95 – M 42	1	16	24	4	95	42	26	—	28.4	50	—	18	32	105	1.2	12.4	0.7	235
– 120 – M 67					120	67			31					130	1.3	19.3	1.1	238
– 125 – M 42					125	42	56		28.4					135	1.6	13.0	0.8	236
– 150 – M 67					150	67			31					160		19.8	1.3	239
– M 97						97	26		34.2						1.5	27.6	1.6	241
– 155 – M 42					155	42	86		28.2					165	1.9	13.5	0.9	237
– 180 – M 67					180	67			31					190	2.0	20.4	1.5	240
– M 97						97	56		34.2						1.8	28.1	1.9	242
– M127						127	26		37.3						1.6	35.8	2.2	244
– 210 – M 97					210	97	86		34.2				220	2.1	28.7	2.1		243
– M127						127	56		37.3						2.0	36.4	2.5	245
– M157						157	26		40.5						1.9	44.1	2.8	247
– 240 – M127					240	127	86		37.3				250	2.3	37.0			246
– M157						157	56		40.5						2.2	44.7	3.1	248
– 270 – M157					270		86						280	2.5	45.3	3.5		249
– SLRB16 – 75 – M 22	1	16	32	8	75	22	26	—	34.3	50	—	18	32	85	1.2	6.9	0.3	250
– 95 – M 42					95	42			36.4					105	1.4	12.5	0.4	253
– 105 – M 22					105	22	56		34.3					115	1.6	7.5		251
– 120 – M 67					120	67	26		39					130	1.5	19.4	0.6	256
– 125 – M 42					125	42	56		36.4					135	1.7	13.0	0.5	254
– 135 – M 22					135	22	86		34.3					145	1.9	8.1		252
– 150 – M 67					150	67	56		39					160		20.0	0.8	257
– 155 – M 42					155	42	86		36.4					165	2.0	13.6	0.7	255
– 180 – M 67					180	67			39					190	2.2	20.5	1.0	258

CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L ₁	L ₂	ϕC ₁	ϕC ₂	ϕC ₃	ϕD ₁	H	h	 Kg	 N	 S	Scale model
BT40 – SLFB16 – 75 – M 22	1	16	32	8	75	22	26	—	34.3	50	—	18	32	85	1.2	6.9	0.3	259
– 95 – M 42					95	42			36.4					105	1.4	12.5	0.4	262
– 105 – M 22					105	22	56		34.3					115	1.6	7.5		260
– 120 – M 67					120	67	26		39					130	1.5	19.4	0.6	265
– 125 – M 42					125	42	56		36.4					135	1.7	13.0	0.5	263
– 135 – M 22					135	22	86		34.3					145	1.9	8.1		261
– 150 – M 67					150	67	56		39					160		20.0	0.8	266
– 155 – M 42					155	42	86		36.4					165	2.0	13.6	0.7	264
– 180 – M 67					180	67			39					190	2.2	20.5	1.0	267
BT40 – SLSB20 – 95 – M 42					1	20	29	4.5	95					42	26	—	33.4	50
– 120 – M 67	120	67							36	130	1.4	24.5	0.8	271				
– 125 – M 42	125	42	56						33.4	135	1.6	14.8	0.6	269				
– 150 – M 67	150	67							36	160	1.7	25.0	1.0	272				
– M 97		97	26						39.2		1.5	36.8	1.2	274				
– 155 – M 42	155	42	86						33.4	165	1.9	15.3	0.8	270				
– 180 – M 67	180	67							36	190	2.0	25.6	1.2	273				
– M 97		97	56						39.2		1.9	37.4	1.4	275				
– M127		127	26						42.3		1.8	50.0	1.6	277				
– 210 – M 97	210	97	86						39.2	220	2.2	38.0	1.7	276				
– M127		127	56						42.3		2.1	50.5	1.9	278				
– M157		157	26						45.5		2.0	62.3	2.1	280				
– 240 – M127	240	127	86						42.3	250	2.4	51.1	2.3	279				
– M157		157	56						45.5			62.9	2.4	281				
– 270 – M157	270		86							280	2.7	63.5	2.9	282				
– SLRB20 – 95 – M 42	1	20	38	9	95	42	26	—	42.4	50	—	22	40	105	1.4	14.3	0.4	283
– 120 – M 67					120	67			45					130	1.7	24.6	0.5	286
– 125 – M 42					125	42	56		42.4					135	1.8	14.9		284
– 150 – M 67					150	67			45					160	2.0	25.2	0.7	287
– 155 – M 42					155	42	86		42.4					165	2.1	15.4		285
– 180 – M 67					180	67			45					190	2.3	25.7	0.9	288
– SLFB20 – 95 – M 42	1	20	38	9	95	42	26	—	42.4	50	—	22	40	105	1.4	14.3	0.4	289
– 120 – M 67					120	67			45					130	1.7	24.6	0.5	292
– 125 – M 42					125	42	56		42.4					135	1.8	14.9		290
– 150 – M 67					150	67			45					160	2.0	25.2	0.7	293
– 155 – M 42					155	42	86		42.4					165	2.1	15.4		291
– 180 – M 67					180	67			45					190	2.3	25.7	0.9	294
BT40 – SLRB25 – 95 – M 42					1	25	45	10	95					42	26	—	49.7	50
– 125 – M 42	125		56							135	1.9	17.0	0.5	296				
– 155 – M 42	155		86							165	2.2	17.5	0.7	297				
– SLFB25 – 95 – M 42	1	25	45	10	95	42	26	—	49.7	50	—	26	45	105	1.5	16.4	0.3	298
– 125 – M 42					125		56							135	1.9	17.0	0.5	299
– 155 – M 42					155		86							165	2.2	17.5	0.7	300

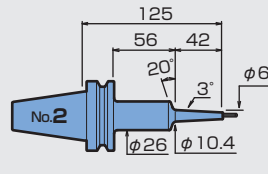
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BT40-SLSA3-95-M42



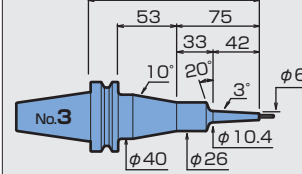
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BT40-SLSA3-125-M42



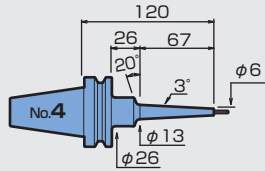
9.9

BT40-SLSA3-155-M42



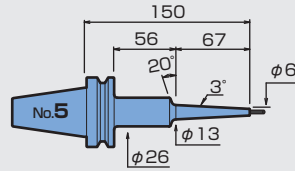
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BT40-SLSA3-120-M67



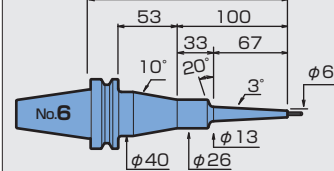
14.9

BT40-SLSA3-150-M67



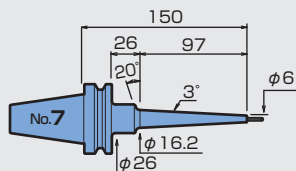
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BT40-SLSA3-180-M67



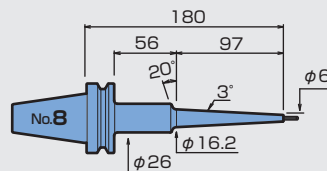
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BT40-SLSA3-150-M97



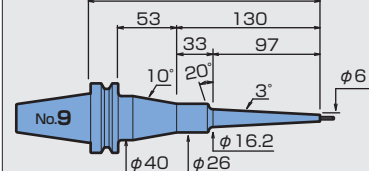
20.7

BT40-SLSA3-180-M97



22.2

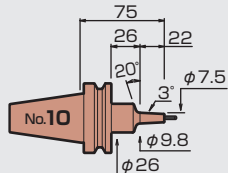
BT40-SLSA3-210-M97



22.1

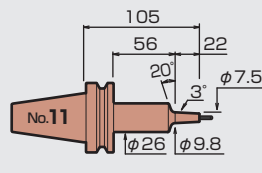
φ3 SLRA $t=2.25$

BT40-SLRA3-75-M22



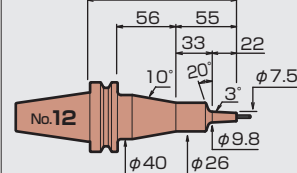
2.8

BT40-SLRA3-105-M22



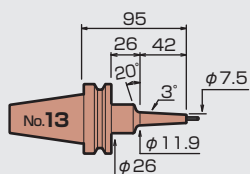
3.2

BT40-SLRA3-135-M22



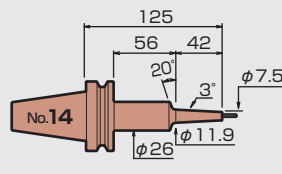
3.2

BT40-SLRA3-95-M42



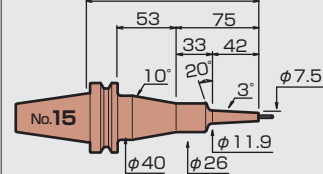
5.4

BT40-SLRA3-125-M42



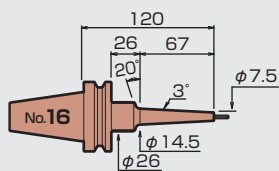
5.9

BT40-SLRA3-155-M42



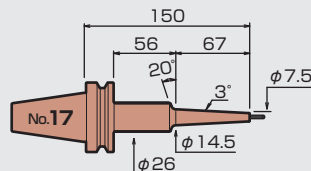
6.0

BT40-SLRA3-120-M67



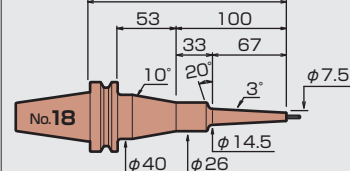
8.9

BT40-SLRA3-150-M67



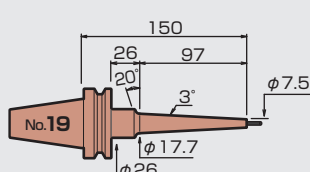
9.8

BT40-SLRA3-180-M67



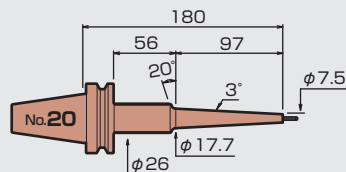
9.8

BT40-SLRA3-150-M97



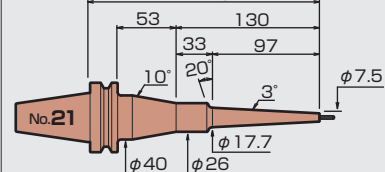
12.9

BT40-SLRA3-180-M97



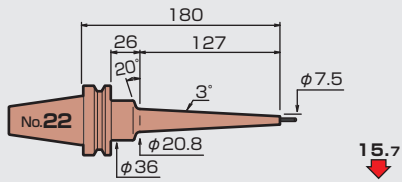
14.3

BT40-SLRA3-210-M97

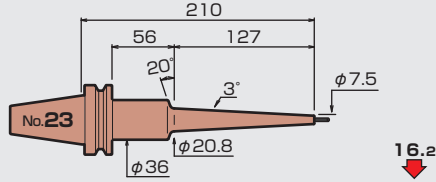


14.3

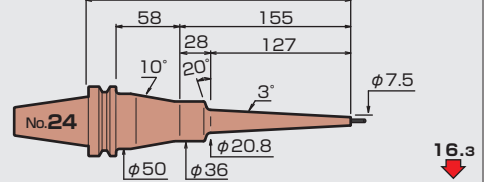
BT40-SLRA3-180-M127



BT40-SLRA3-210-M127

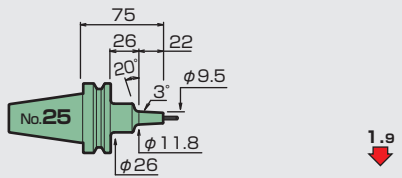


BT40-SLRA3-240-M127

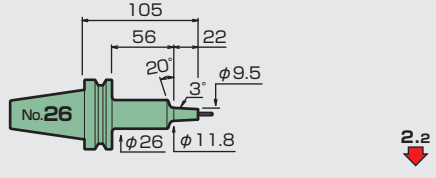


φ3 SLFB t=3.25

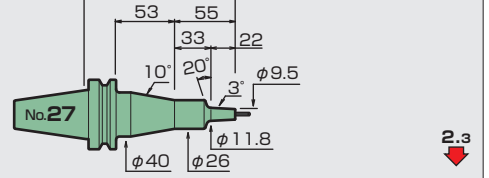
BT40-SLFB3-75-M22



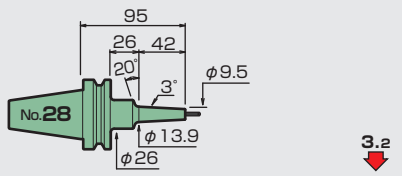
BT40-SLFB3-105-M22



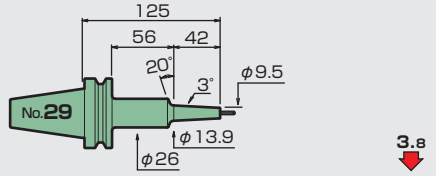
BT40-SLFB3-135-M22



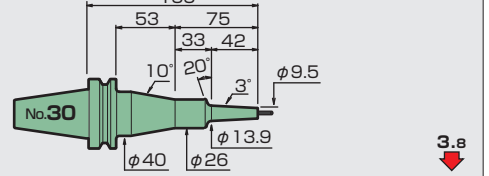
BT40-SLFB3-95-M42



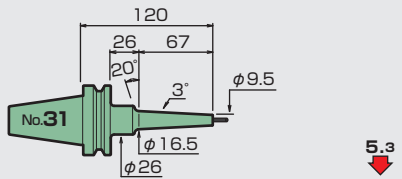
BT40-SLFB3-125-M42



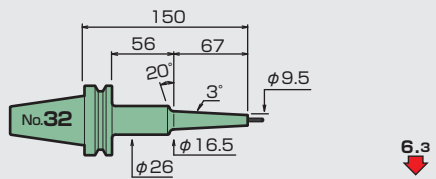
BT40-SLFB3-155-M42



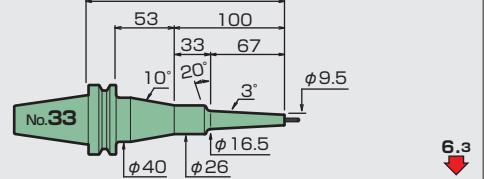
BT40-SLFB3-120-M67



BT40-SLFB3-150-M67

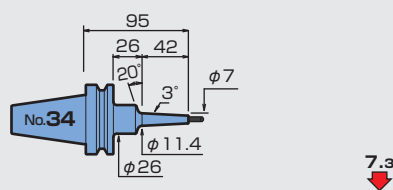


BT40-SLFB3-180-M67

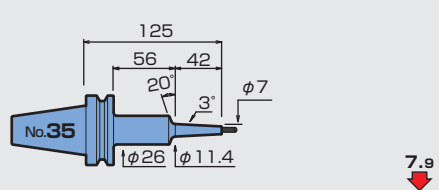


φ4 SLSA $t=1.5$

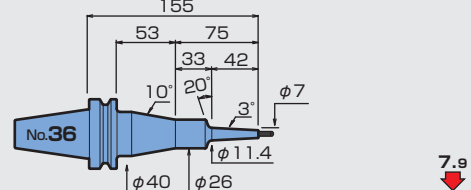
BT40-SLSA4-95-M42



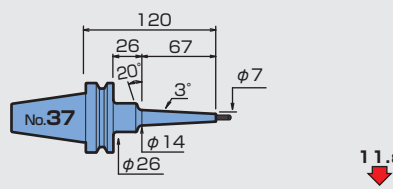
BT40-SLSA4-125-M42



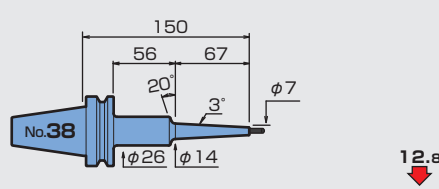
BT40-SLSA4-155-M42



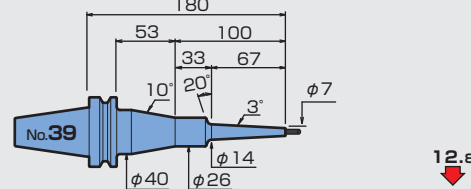
BT40-SLSA4-120-M67



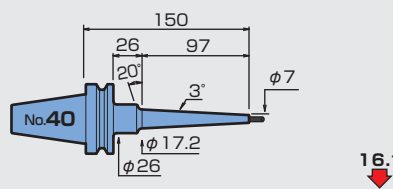
BT40-SLSA4-150-M67



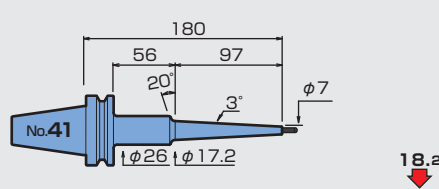
BT40-SLSA4-180-M67



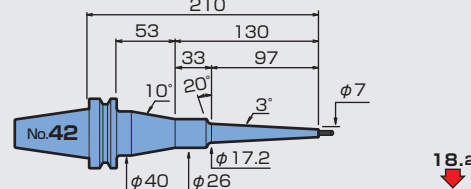
BT40-SLSA4-150-M97



BT40-SLSA4-180-M97

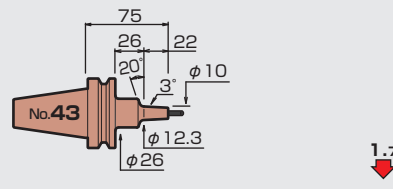


BT40-SLSA4-210-M97

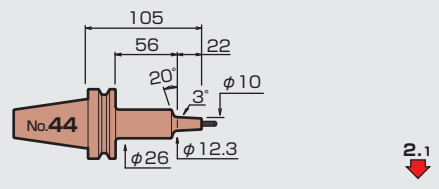


φ4 SLRA $t=3$

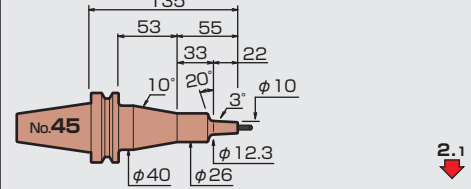
BT40-SLRA4-75-M22



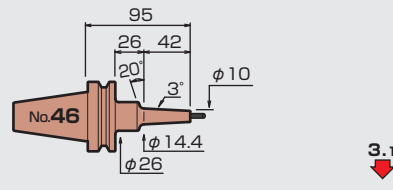
BT40-SLRA4-105-M22



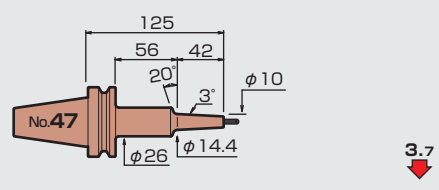
BT40-SLRA4-135-M22



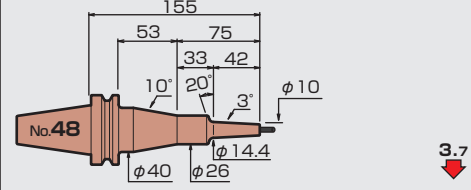
BT40-SLRA4-95-M42



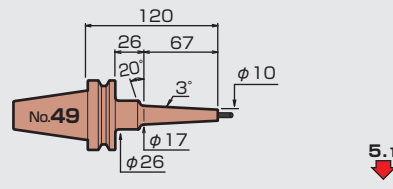
BT40-SLRA4-125-M42



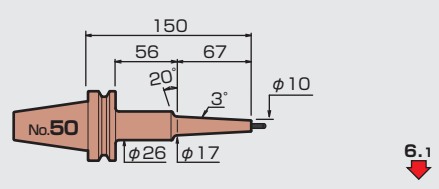
BT40-SLRA4-155-M42



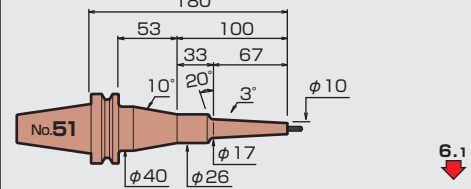
BT40-SLRA4-120-M67



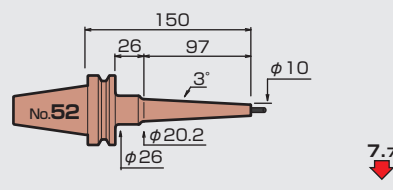
BT40-SLRA4-150-M67



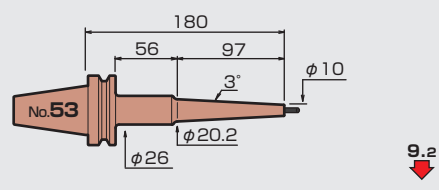
BT40-SLRA4-180-M67



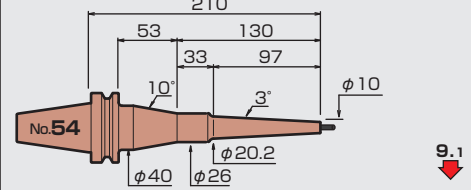
BT40-SLRA4-150-M97



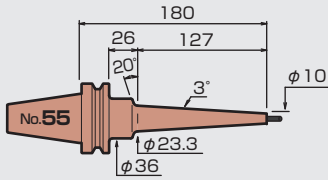
BT40-SLRA4-180-M97



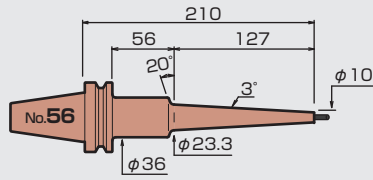
BT40-SLRA4-210-M97



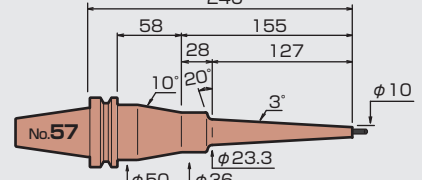
BT40-SLRA4-180-M127



BT40-SLRA4-210-M127

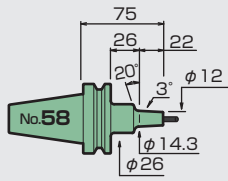


BT40-SLRA4-240-M127

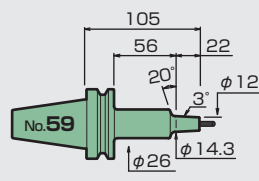


$\phi 4$ SLFB t=4

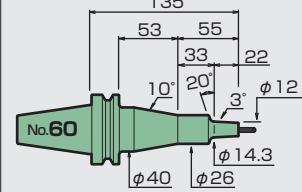
BT40-SLFB4-75-M22



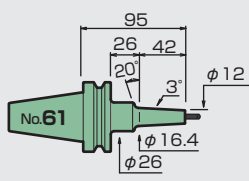
BT40-SLFB4-105-M22



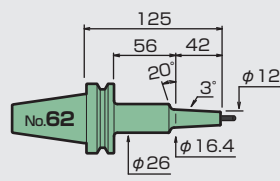
BT40-SLFB4-135-M22



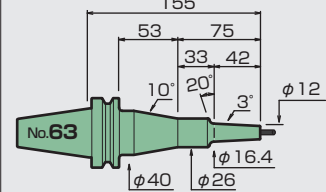
BT40-SLFB4-95-M42



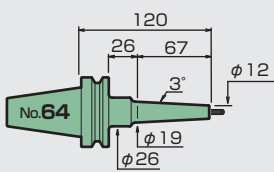
BT40-SLFB4-125-M42



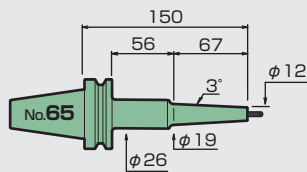
BT40-SLFB4-155-M42



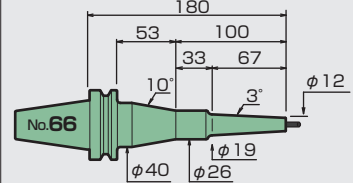
BT40-SLFB4-120-M67



BT40-SLFB4-150-M67

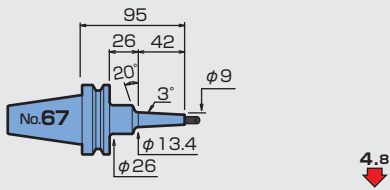


BT40-SLFB4-180-M67

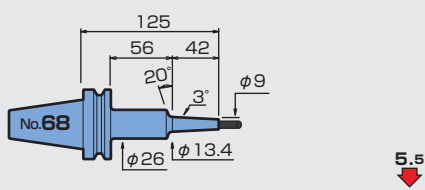


φ6 SLSA t=1.5

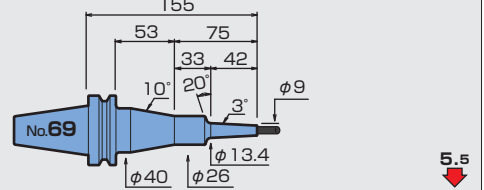
BT40-SLSA6-95-M42



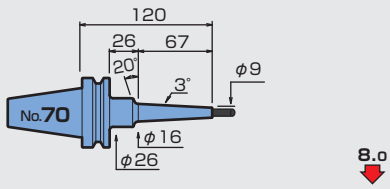
BT40-SLSA6-125-M42



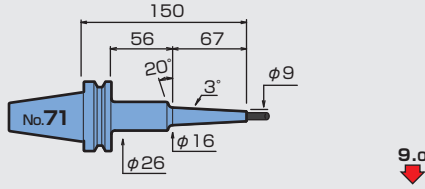
BT40-SLSA6-155-M42



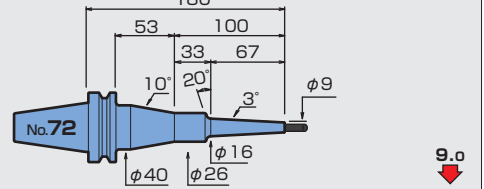
BT40-SLSA6-120-M67



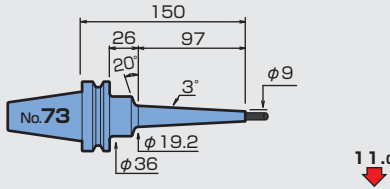
BT40-SLSA6-150-M67



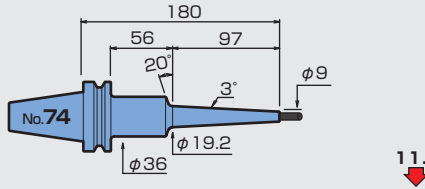
BT40-SLSA6-180-M67



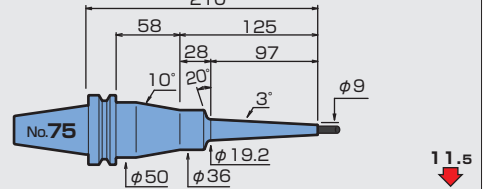
BT40-SLSA6-150-M97



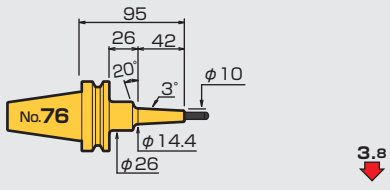
BT40-SLSA6-180-M97



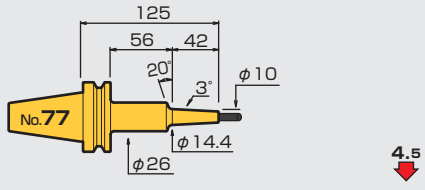
BT40-SLSA6-210-M97


φ6 SLSB t=2

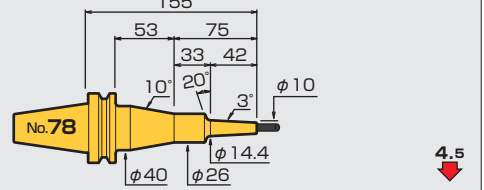
BT40-SLSB6-95-M42



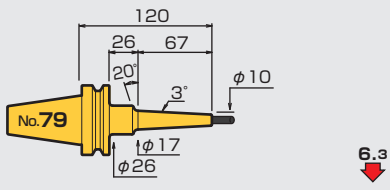
BT40-SLSB6-125-M42



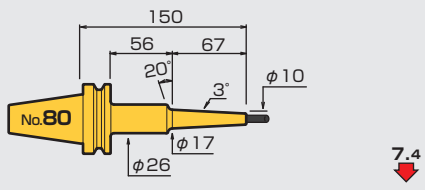
BT40-SLSB6-155-M42



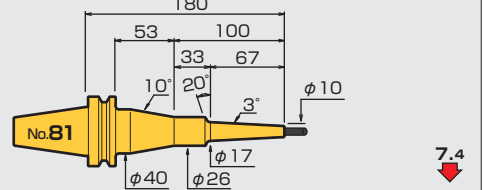
BT40-SLSB6-120-M67



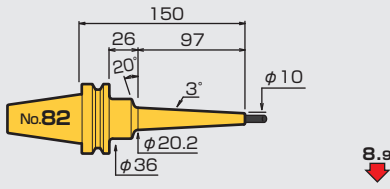
BT40-SLSB6-150-M67



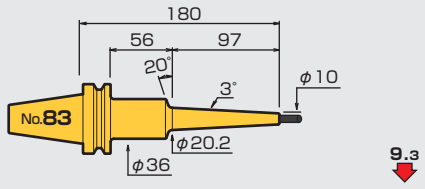
BT40-SLSB6-180-M67



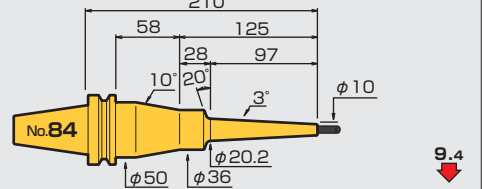
BT40-SLSB6-150-M97



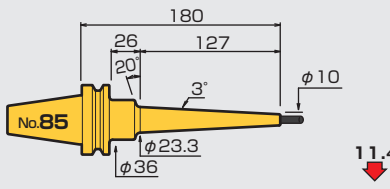
BT40-SLSB6-180-M97



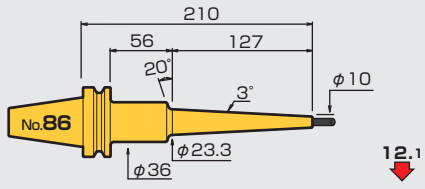
BT40-SLSB6-210-M97



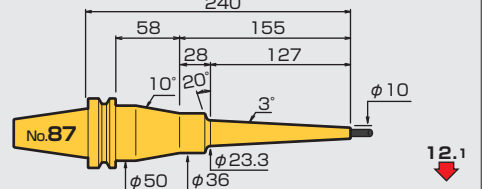
BT40-SLSB6-180-M127



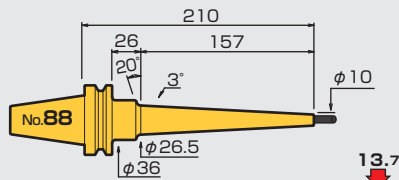
BT40-SLSB6-210-M127



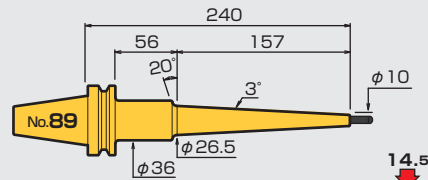
BT40-SLSB6-240-M127



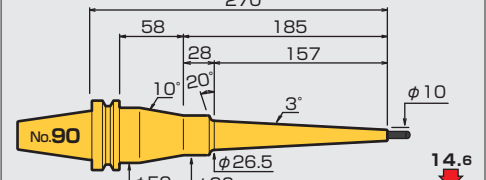
BT40-SLSB6-210-M157



BT40-SLSB6-240-M157

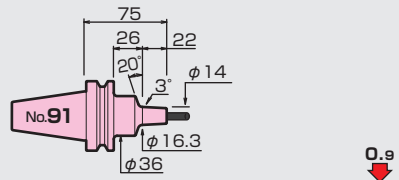


BT40-SLSB6-270-M157

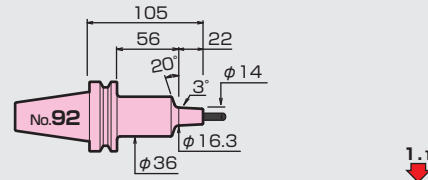


φ6 SLRB t=4

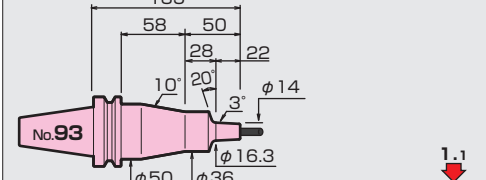
BT40-SLRB6-75-M22



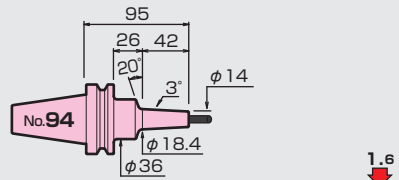
BT40-SLRB6-105-M22



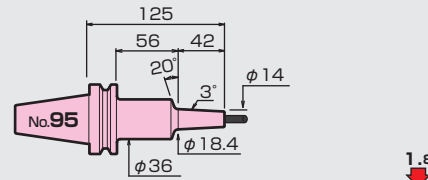
BT40-SLRB6-135-M22



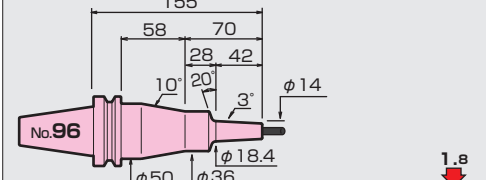
BT40-SLRB6-95-M42



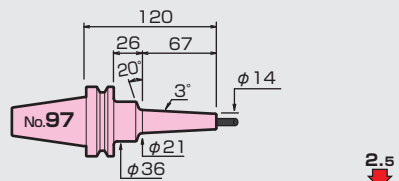
BT40-SLRB6-125-M42



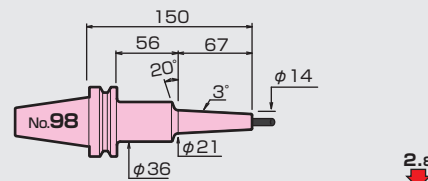
BT40-SLRB6-155-M42



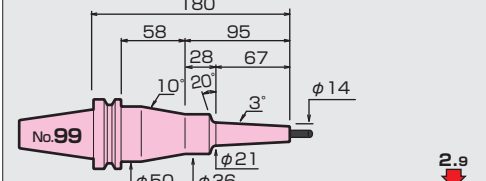
BT40-SLRB6-120-M67



BT40-SLRB6-150-M67

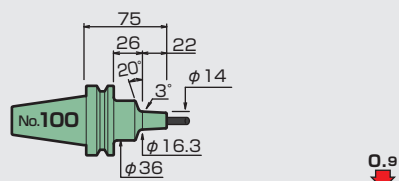


BT40-SLRB6-180-M67

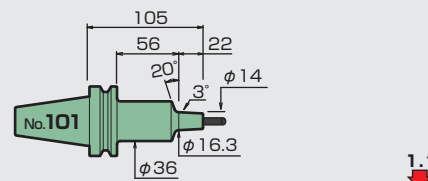


φ6 SLFB t=4

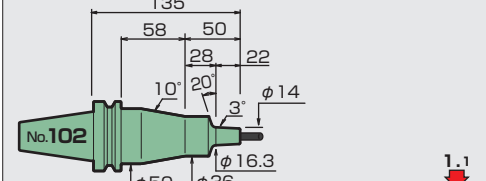
BT40-SLFB6-75-M22



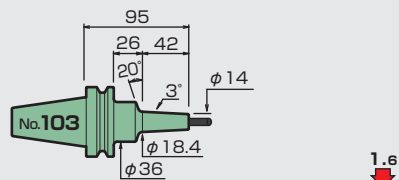
BT40-SLFB6-105-M22



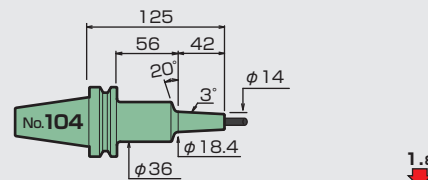
BT40-SLFB6-135-M22



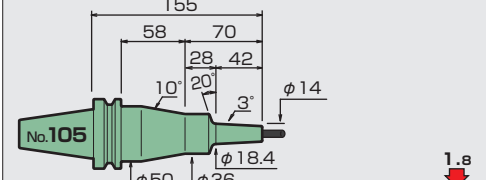
BT40-SLFB6-95-M42



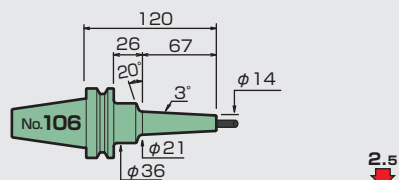
BT40-SLFB6-125-M42



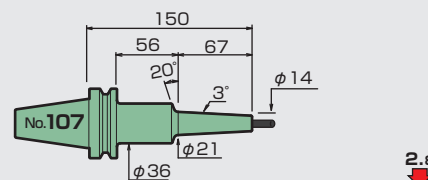
BT40-SLFB6-155-M42



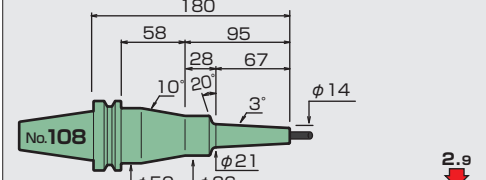
BT40-SLFB6-120-M67



BT40-SLFB6-150-M67

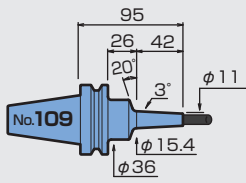


BT40-SLFB6-180-M67



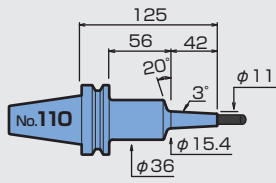
φ 8 SLSA t=1.5

BT40-SLSA8-95-M42



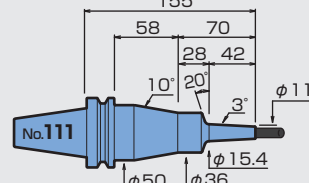
3.2

BT40-SLSA8-125-M42



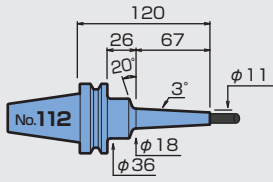
3.4

BT40-SLSA8-155-M42



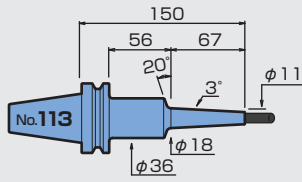
3.4

BT40-SLSA8-120-M67



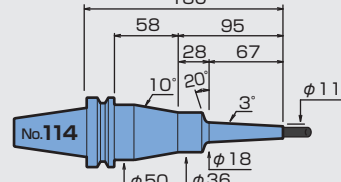
5.4

BT40-SLSA8-150-M67



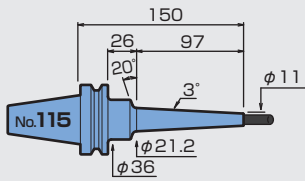
5.7

BT40-SLSA8-180-M67



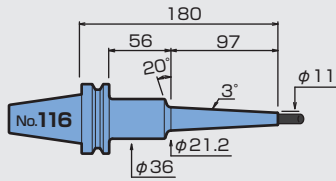
5.7

BT40-SLSA8-150-M97



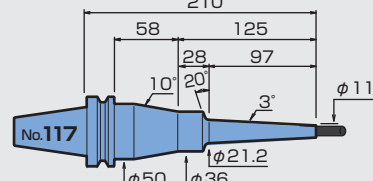
7.8

BT40-SLSA8-180-M97



8.3

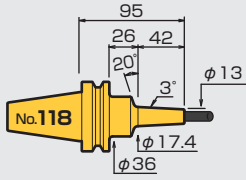
BT40-SLSA8-210-M97



8.4

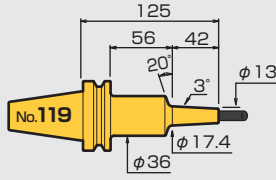
φ 8 SLSEB t=2.5

BT40-SLSB8-95-M42



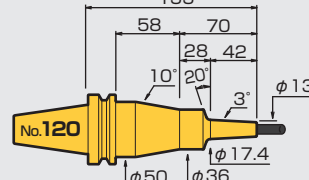
2.1

BT40-SLSB8-125-M42



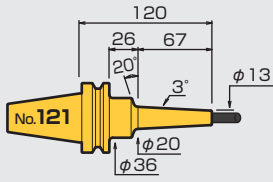
2.3

BT40-SLSB8-155-M42



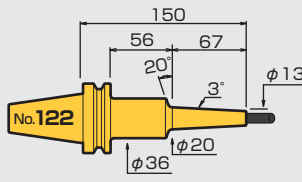
2.4

BT40-SLSB8-120-M67



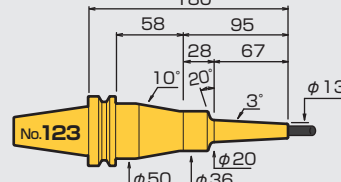
3.5

BT40-SLSB8-150-M67



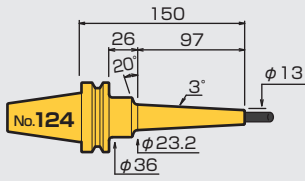
3.9

BT40-SLSB8-180-M67



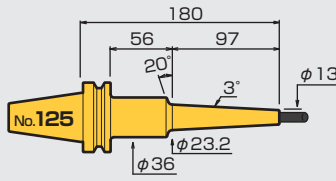
3.9

BT40-SLSB8-150-M97



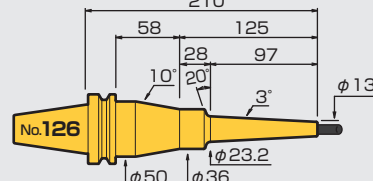
5.2

BT40-SLSB8-180-M97



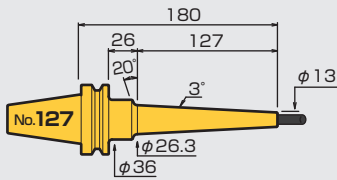
5.7

BT40-SLSB8-210-M97



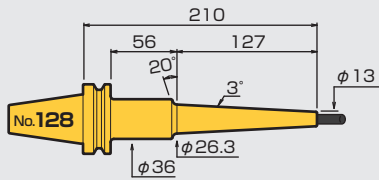
5.8

BT40-SLSB8-180-M127



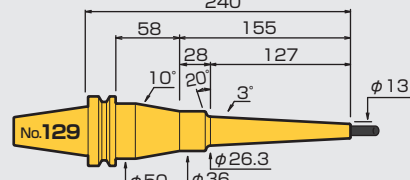
7.0

BT40-SLSB8-210-M127



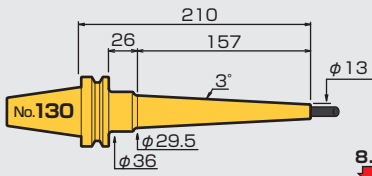
7.7

BT40-SLSB8-240-M127

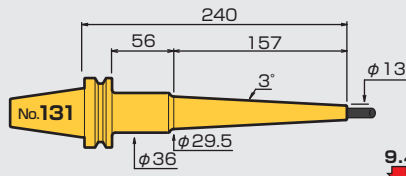


7.7

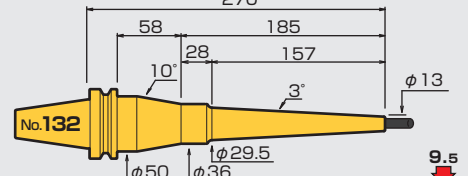
BT40-SLSB8-210-M157



BT40-SLSB8-240-M157

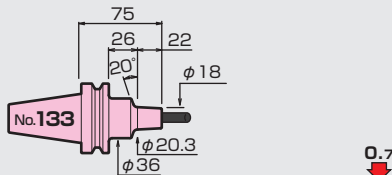


BT40-SLSB8-270-M157

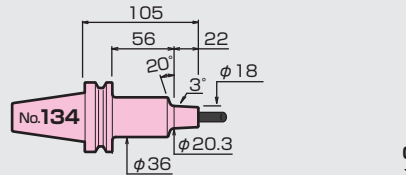


φ8 SLRB t=5

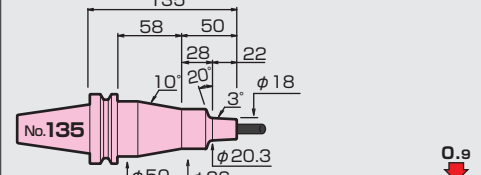
BT40-SLRB8-75-M22



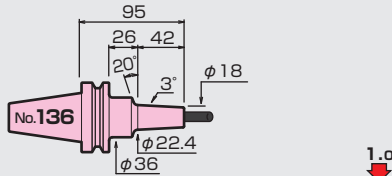
BT40-SLRB8-105-M22



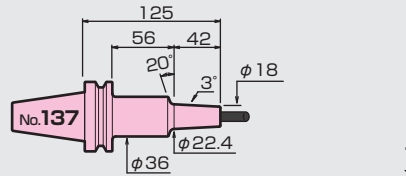
BT40-SLRB8-135-M22



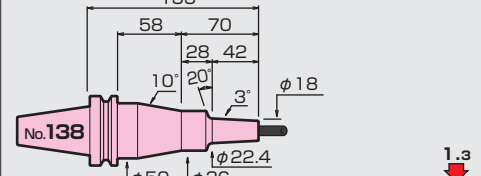
BT40-SLRB8-95-M42



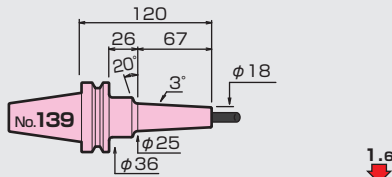
BT40-SLRB8-125-M42



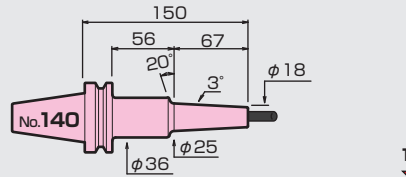
BT40-SLRB8-155-M42



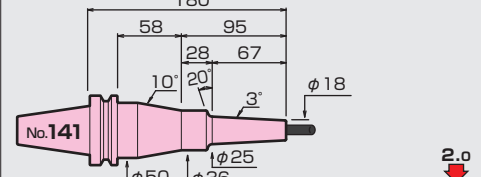
BT40-SLRB8-120-M67



BT40-SLRB8-150-M67

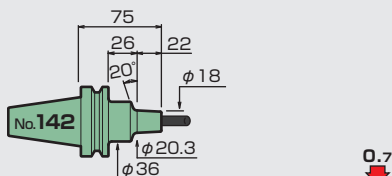


BT40-SLRB8-180-M67

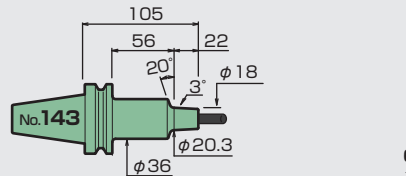


φ8 SLFB t=5

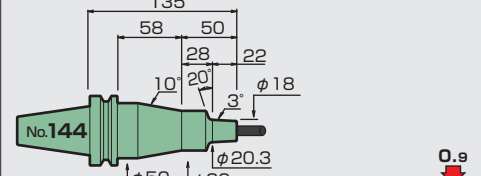
BT40-SLFB8-75-M22



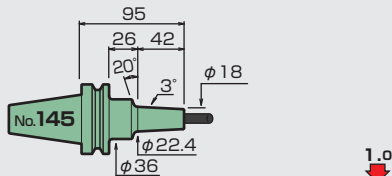
BT40-SLFB8-105-M22



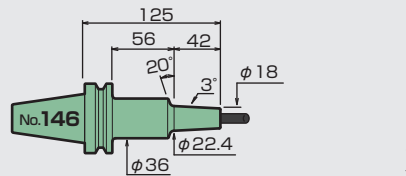
BT40-SLFB8-135-M22



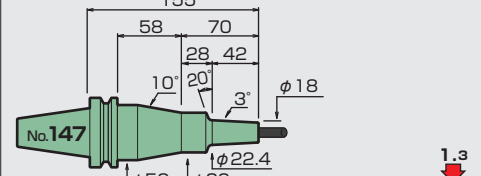
BT40-SLFB8-95-M42



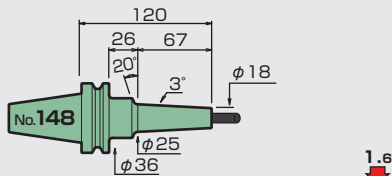
BT40-SLFB8-125-M42



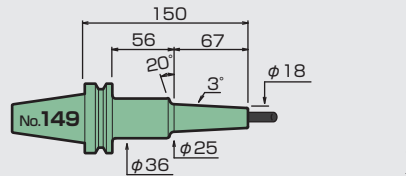
BT40-SLFB8-155-M42



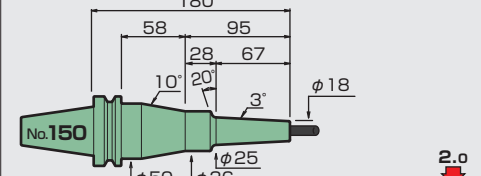
BT40-SLFB8-120-M67



BT40-SLFB8-150-M67

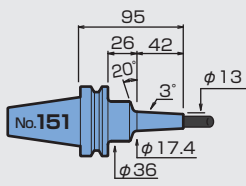


BT40-SLFB8-180-M67



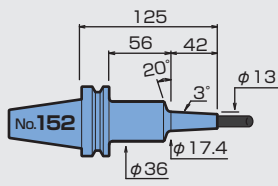
φ10 SLSA t=1.5

BT40-SLSA10-95-M42



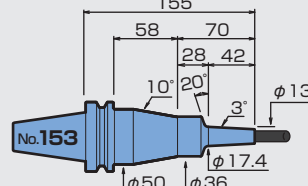
2.3

BT40-SLSA10-125-M42



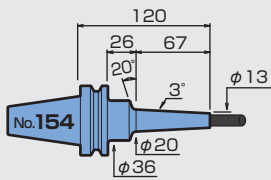
2.5

BT40-SLSA10-155-M42



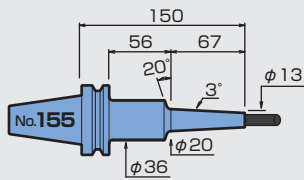
2.5

BT40-SLSA10-120-M67



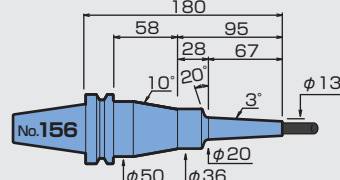
4.0

BT40-SLSA10-150-M67



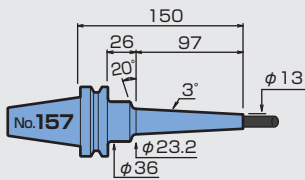
4.3

BT40-SLSA10-180-M67



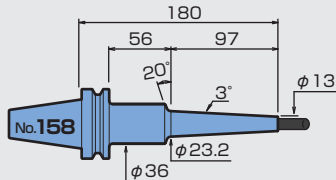
4.4

BT40-SLSA10-150-M97



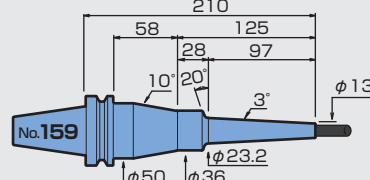
5.9

BT40-SLSA10-180-M97



6.4

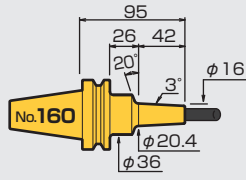
BT40-SLSA10-210-M97



6.5

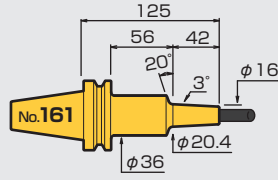
φ10 SLSB t=3

BT40-SLSB10-95-M42



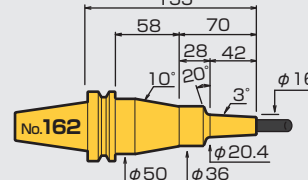
1.4

BT40-SLSB10-125-M42



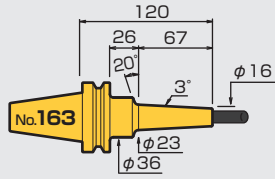
1.6

BT40-SLSB10-155-M42



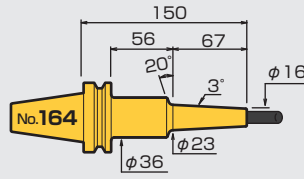
1.7

BT40-SLSB10-120-M67



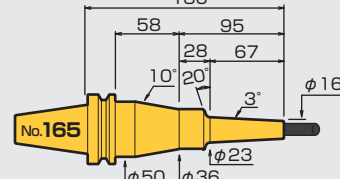
2.4

BT40-SLSB10-150-M67



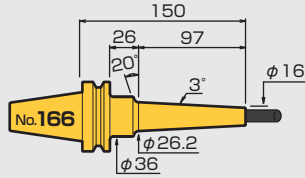
2.7

BT40-SLSB10-180-M67



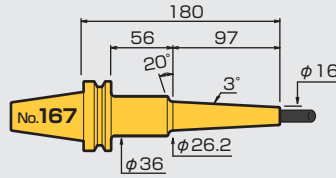
2.8

BT40-SLSB10-150-M97



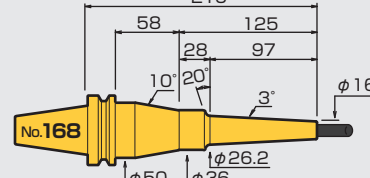
3.6

BT40-SLSB10-180-M97



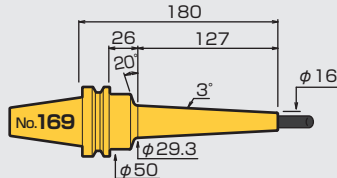
4.1

BT40-SLSB10-210-M97



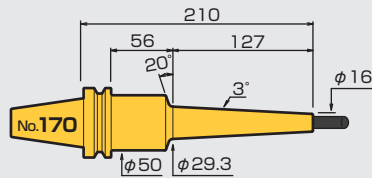
4.1

BT40-SLSB10-180-M127



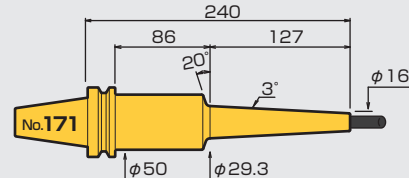
4.5

BT40-SLSB10-210-M127

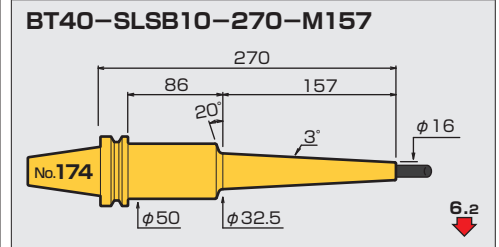
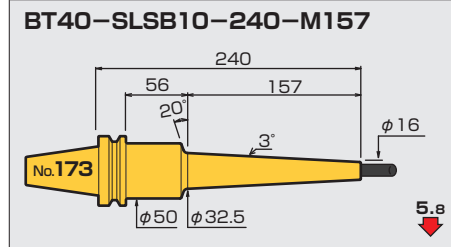
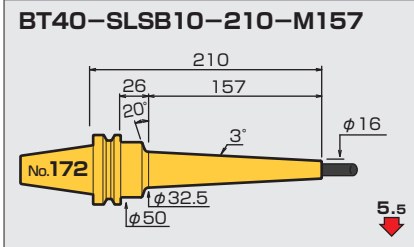


4.7

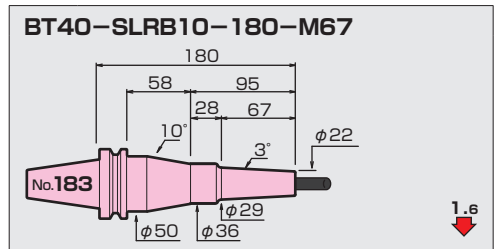
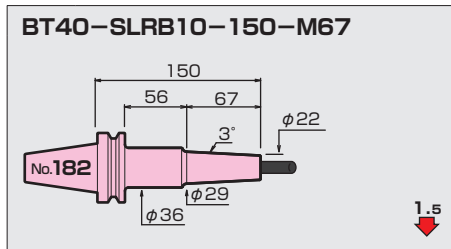
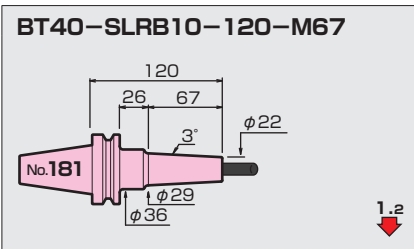
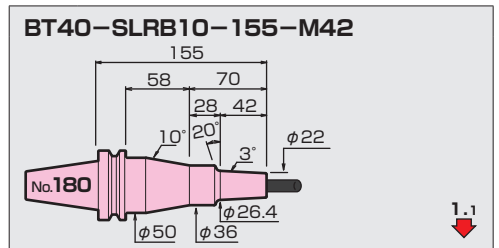
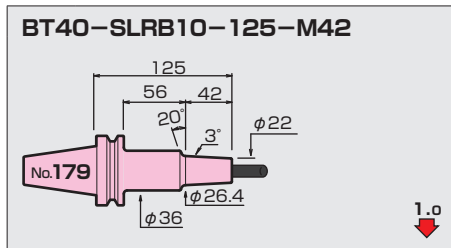
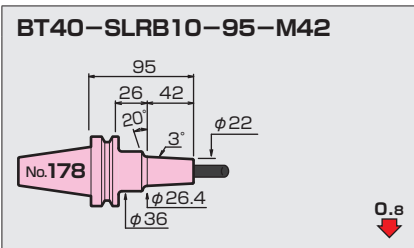
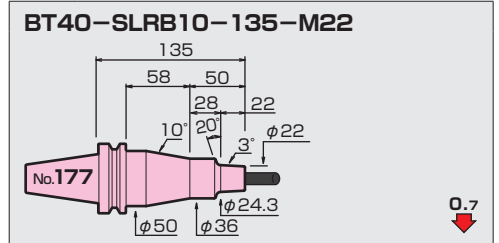
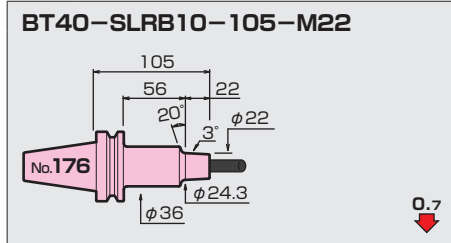
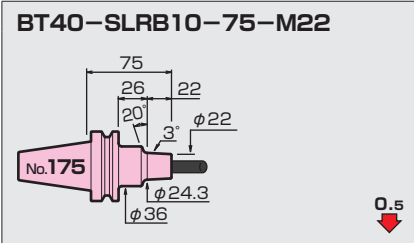
BT40-SLSB10-240-M127



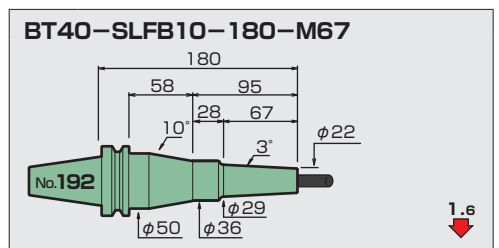
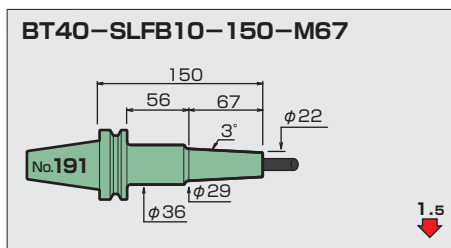
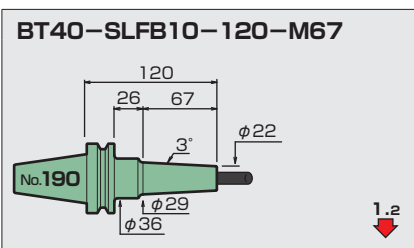
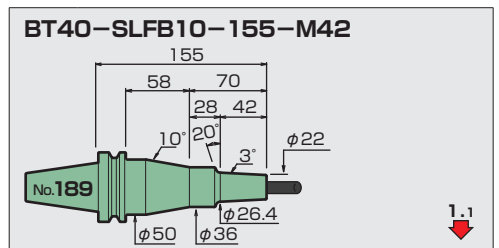
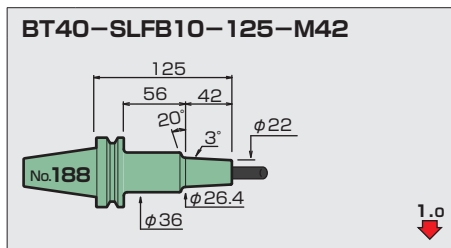
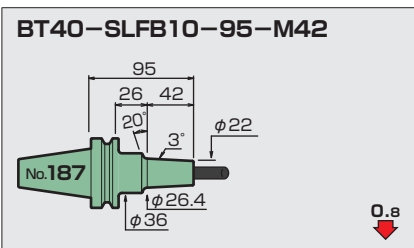
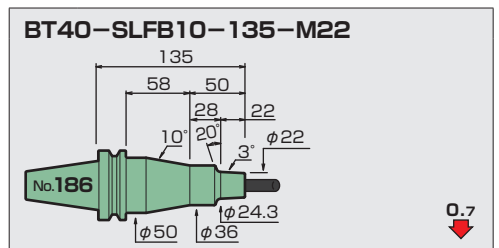
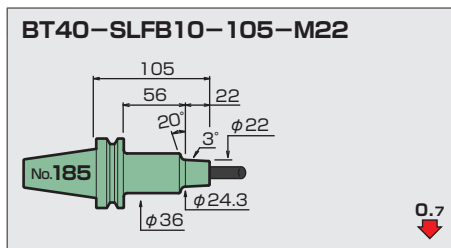
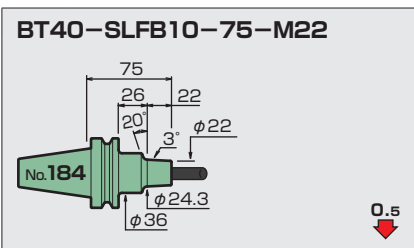
5.0



φ10 SLRB t=6

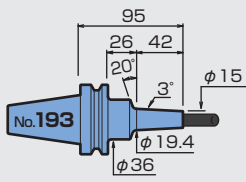


φ10 SLFB t=6



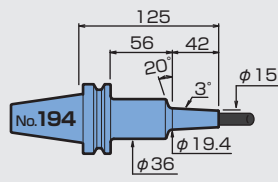
$\phi 12$ **SLSA** $t=1.5$

BT40-SLSA12-95-M42



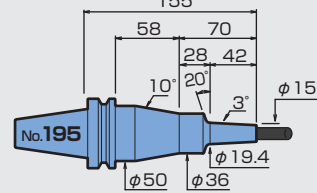
1.8

BT40-SLSA12-125-M42



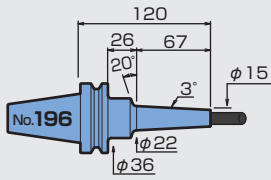
2.1

BT40-SLSA12-155-M42



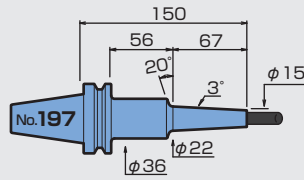
2.1

BT40-SLSA12-120-M67



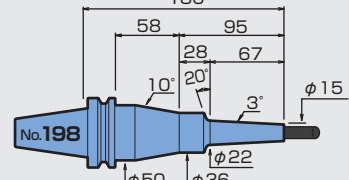
3.2

BT40-SLSA12-150-M67



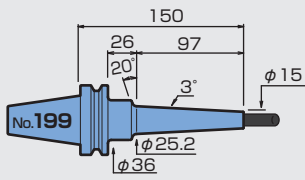
3.6

BT40-SLSA12-180-M67



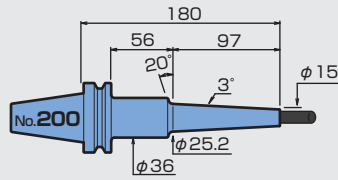
3.6

BT40-SLSA12-150-M97



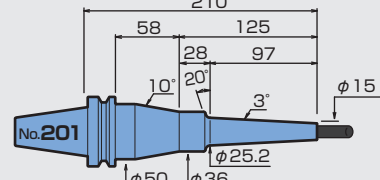
4.8

BT40-SLSA12-180-M97



5.3

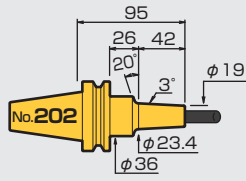
BT40-SLSA12-210-M97



5.4

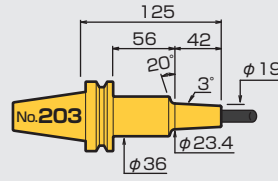
$\phi 12$ **SLSB** $t=3.5$

BT40-SLSB12-95-M42



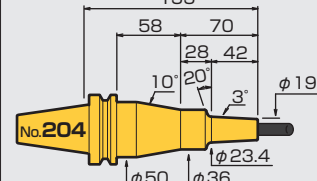
1.1

BT40-SLSB12-125-M42



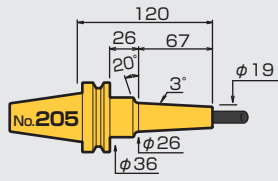
1.3

BT40-SLSB12-155-M42



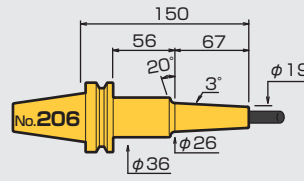
1.4

BT40-SLSB12-120-M67



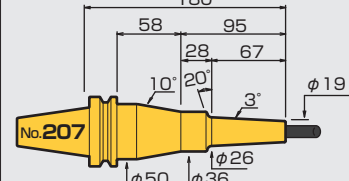
1.8

BT40-SLSB12-150-M67



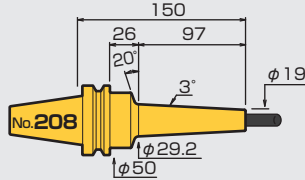
2.1

BT40-SLSB12-180-M67



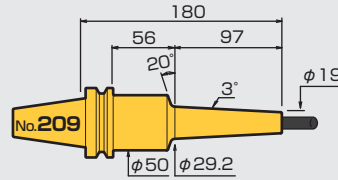
2.2

BT40-SLSB12-150-M97



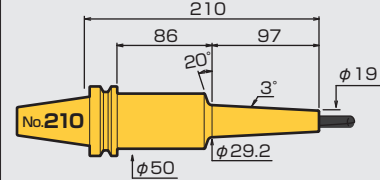
2.4

BT40-SLSB12-180-M97



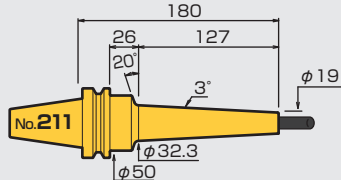
2.6

BT40-SLSB12-210-M97



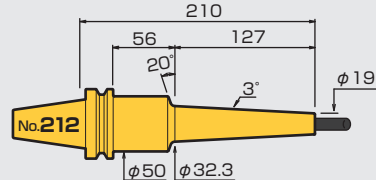
2.9

BT40-SLSB12-180-M127



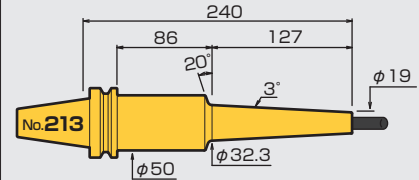
3.2

BT40-SLSB12-210-M127

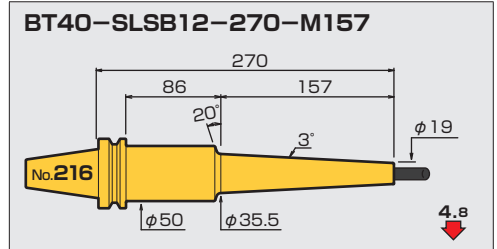
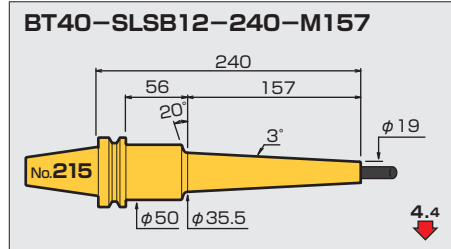
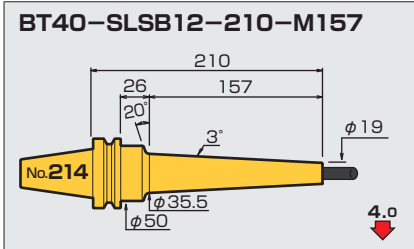


3.5

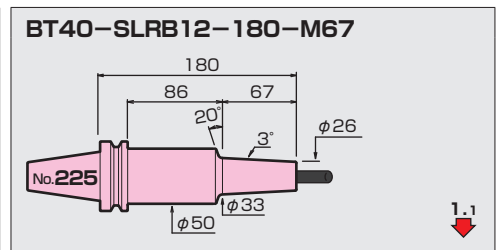
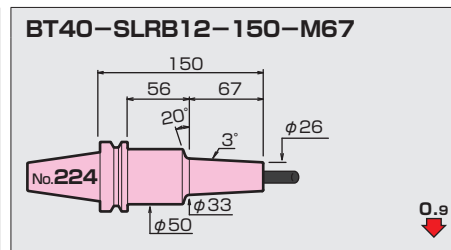
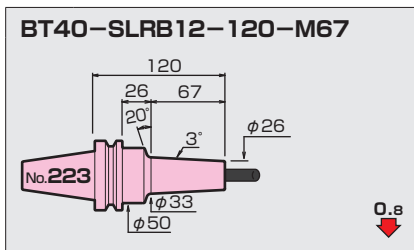
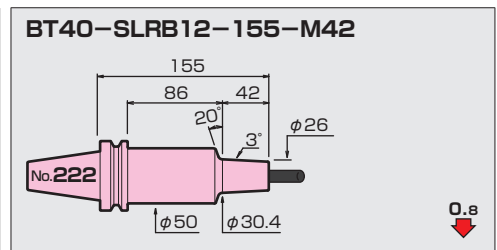
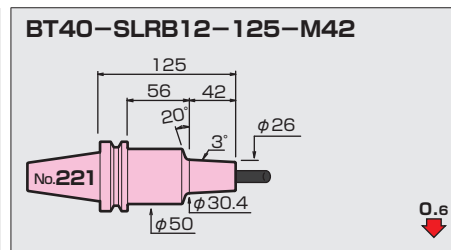
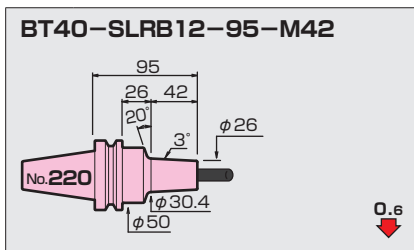
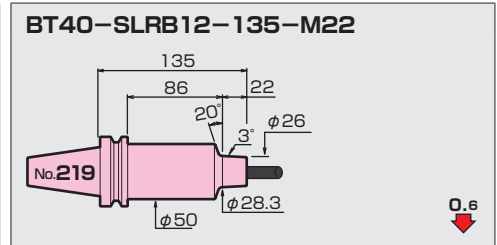
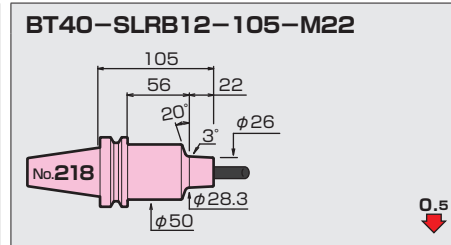
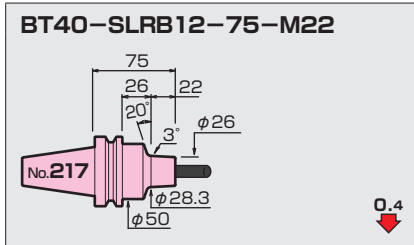
BT40-SLSB12-240-M127



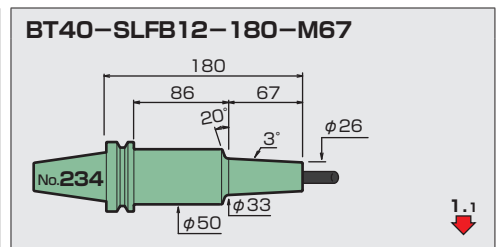
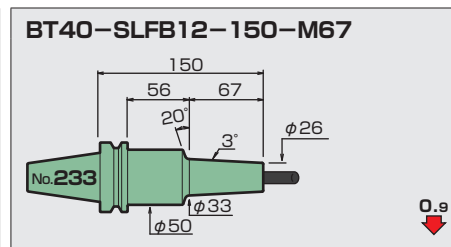
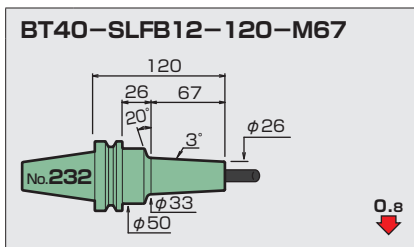
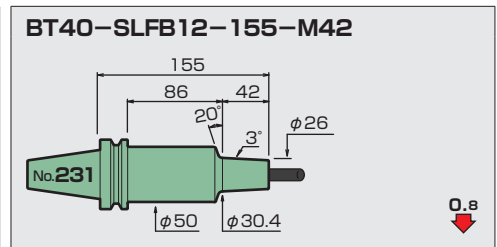
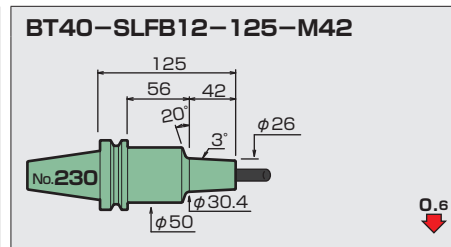
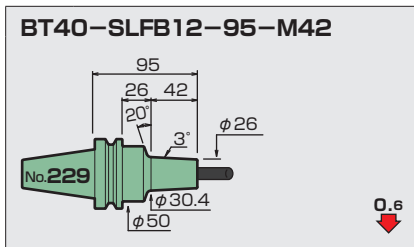
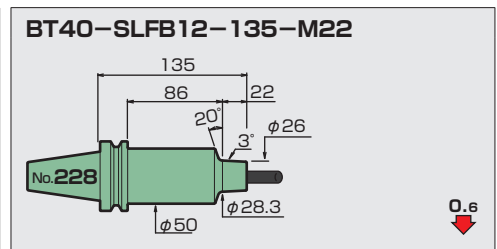
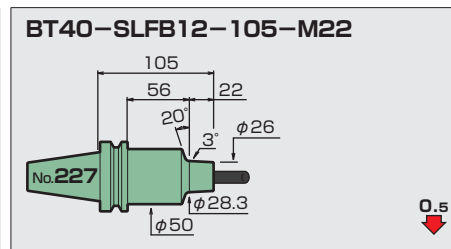
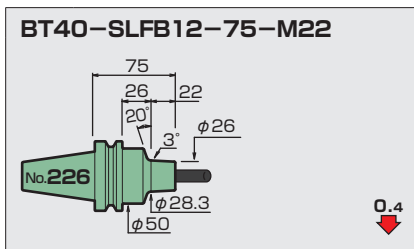
3.8



φ12 SLRB t=7

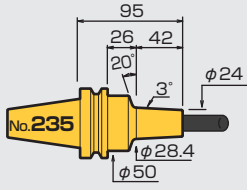


φ12 SLFB t=7



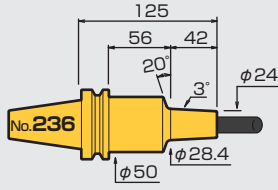
φ16 **SLSB** t=4

BT40-SLSB16-95-M42



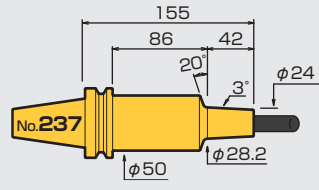
0.7

BT40-SLSB16-125-M42



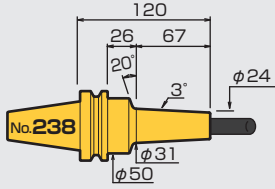
0.8

BT40-SLSB16-155-M42



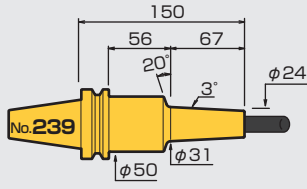
0.9

BT40-SLSB16-120-M67



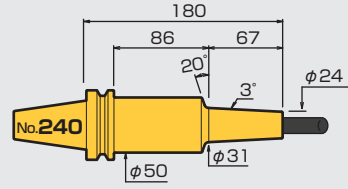
1.1

BT40-SLSB16-150-M67



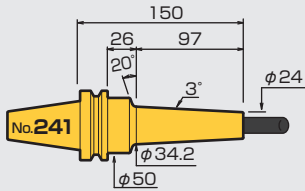
1.3

BT40-SLSB16-180-M67



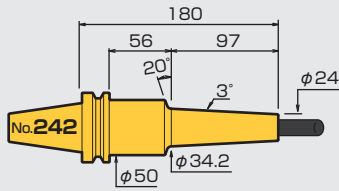
1.5

BT40-SLSB16-150-M97



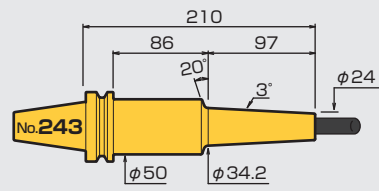
1.6

BT40-SLSB16-180-M97



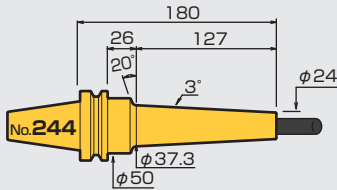
1.9

BT40-SLSB16-210-M97



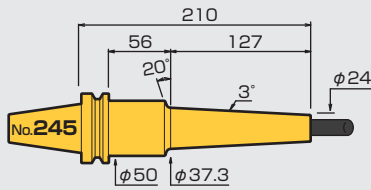
2.1

BT40-SLSB16-180-M127



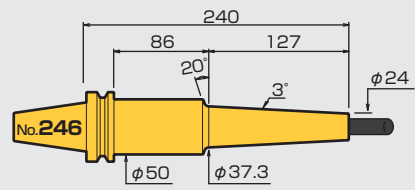
2.2

BT40-SLSB16-210-M127



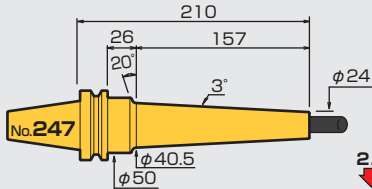
2.5

BT40-SLSB16-240-M127



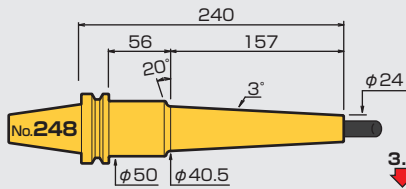
2.8

BT40-SLSB16-210-M157



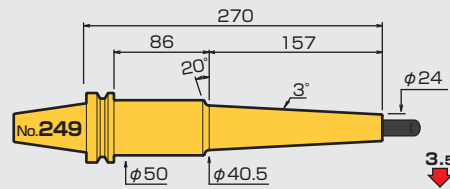
2.8

BT40-SLSB16-240-M157



3.1

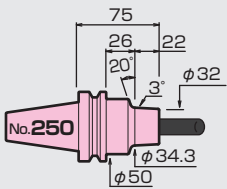
BT40-SLSB16-270-M157



3.5

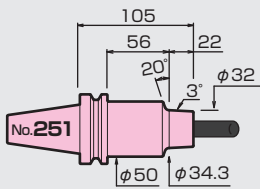
φ16 **SLRB** t=8

BT40-SLRB16-75-M22



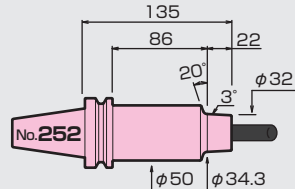
0.3

BT40-SLRB16-105-M22



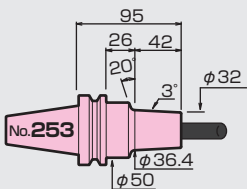
0.4

BT40-SLRB16-135-M22



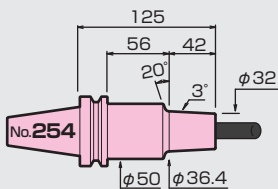
0.5

BT40-SLRB16-95-M42



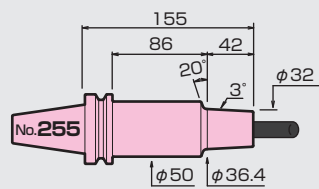
0.4

BT40-SLRB16-125-M42



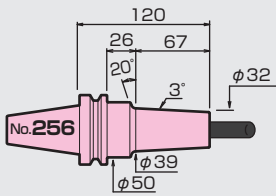
0.5

BT40-SLRB16-155-M42

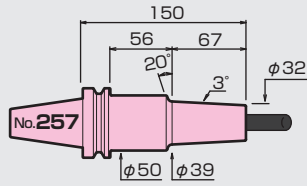


0.7

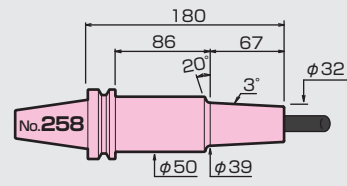
BT40-SLRB16-120-M67

0.6
↓

BT40-SLRB16-150-M67

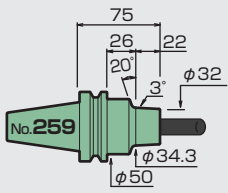
0.8
↓

BT40-SLRB16-180-M67

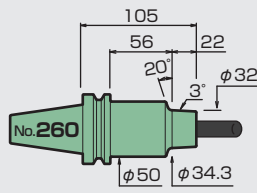
1.0
↓

$\phi 16$ SLFB t=8

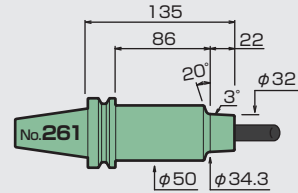
BT40-SLFB16-75-M22

0.3
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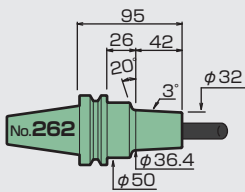
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0.4
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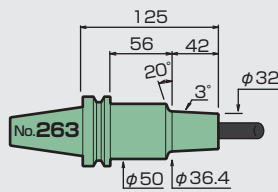
BT40-SLFB16-135-M22

0.5
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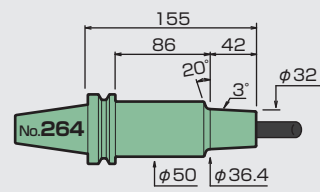
BT40-SLFB16-95-M42

0.4
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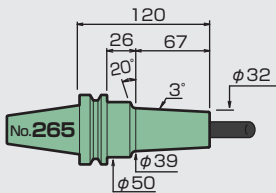
BT40-SLFB16-125-M42

0.5
↓

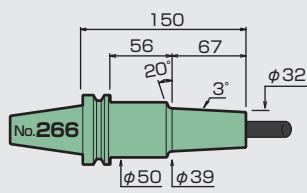
BT40-SLFB16-155-M42

0.7
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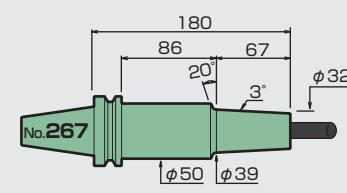
BT40-SLFB16-120-M67

0.6
↓

BT40-SLFB16-150-M67

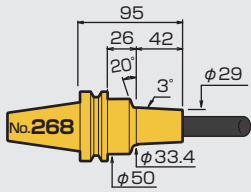
0.8
↓

BT40-SLFB16-180-M67

1.0
↓

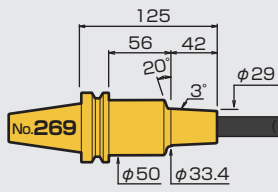
φ20 SLSB t=4.5

BT40-SLSB20-95-M42



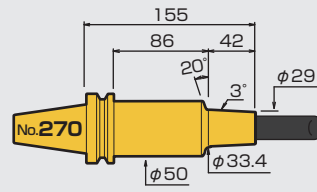
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BT40-SLSB20-125-M42



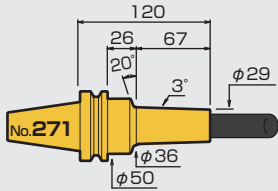
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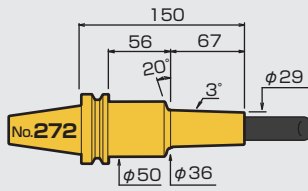
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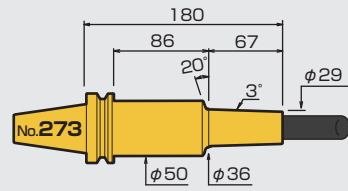
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BT40-SLSB20-150-M67



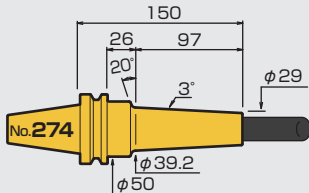
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BT40-SLSB20-180-M67



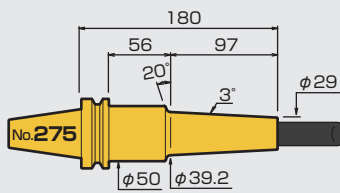
1.2

BT40-SLSB20-150-M97



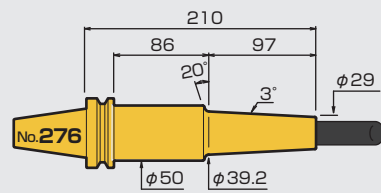
1.2

BT40-SLSB20-180-M97



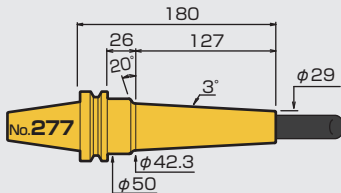
1.4

BT40-SLSB20-210-M97



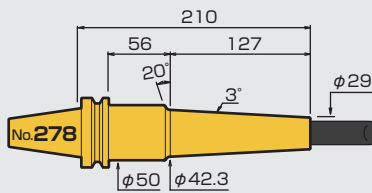
1.7

BT40-SLSB20-180-M127



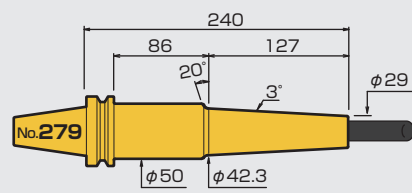
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BT40-SLSB20-210-M127



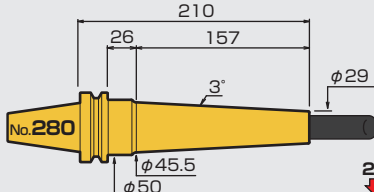
1.9

BT40-SLSB20-240-M127



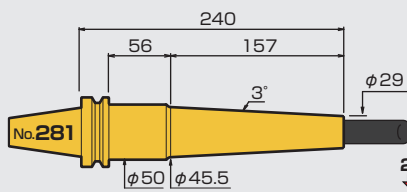
2.3

BT40-SLSB20-210-M157



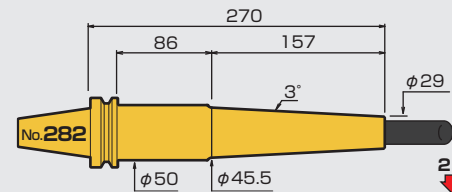
2.1

BT40-SLSB20-240-M157



2.4

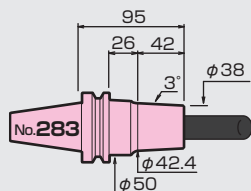
BT40-SLSB20-270-M157



2.9

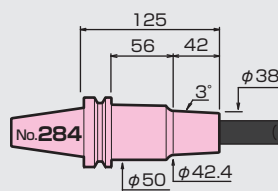
φ20 SLRB t=9

BT40-SLRB20-95-M42



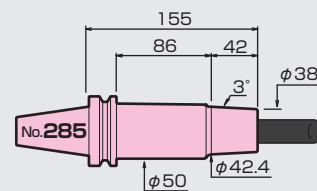
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BT40-SLRB20-125-M42



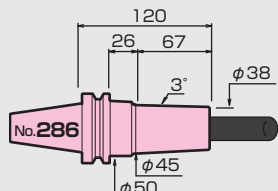
0.5

BT40-SLRB20-155-M42



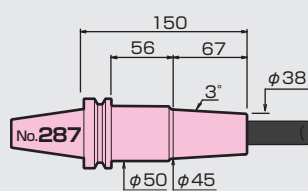
0.7

BT40-SLRB20-120-M67



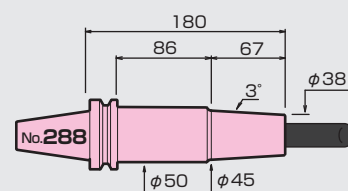
0.5

BT40-SLRB20-150-M67



0.7

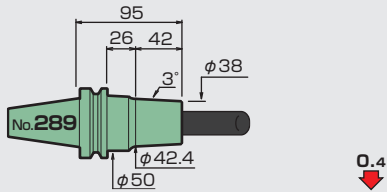
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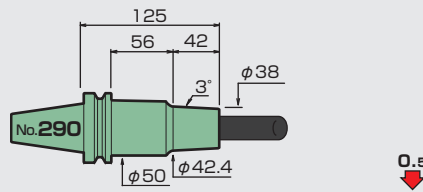
0.9

φ20 SLFB t=9

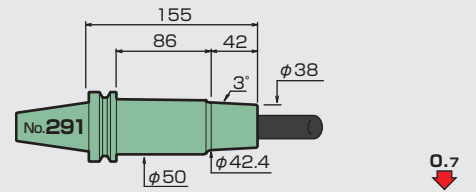
BT40-SLFB20-95-M42



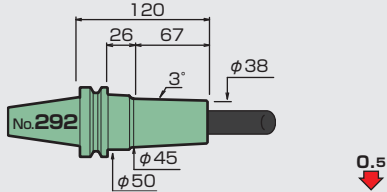
BT40-SLFB20-125-M42



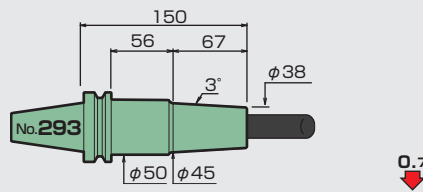
BT40-SLFB20-155-M42



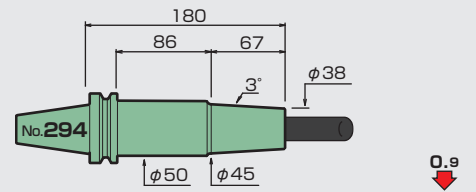
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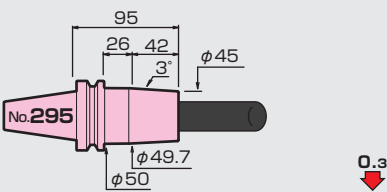
BT40-SLFB20-150-M67



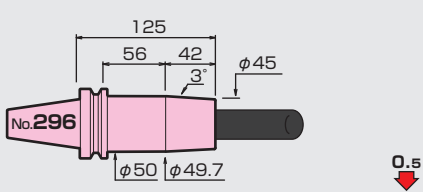
BT40-SLFB20-180-M67


φ25 SLRB t=10

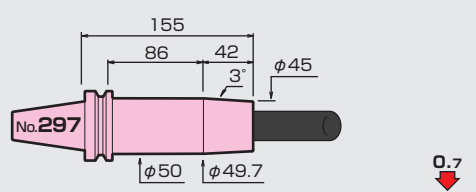
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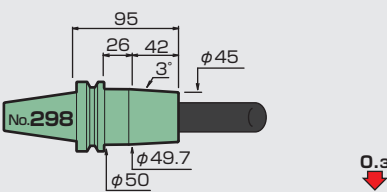
BT40-SLRB25-125-M42



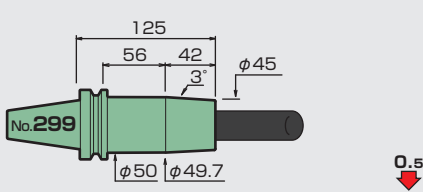
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φ25 SLFB t=10

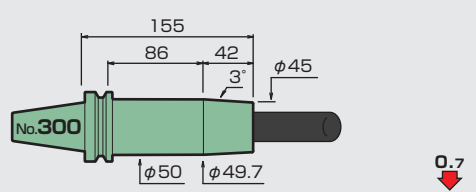
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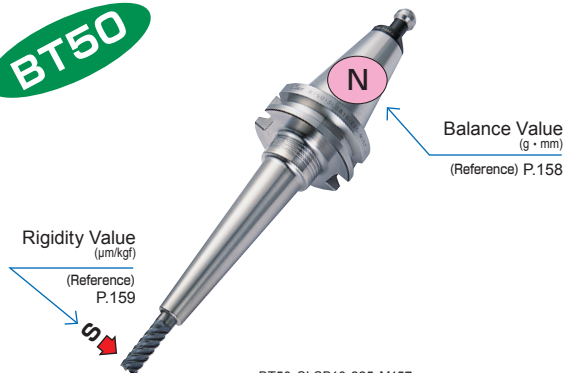
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BT40-SLFB25-155-M42



BT50



BT50-SLSB16-225-M157

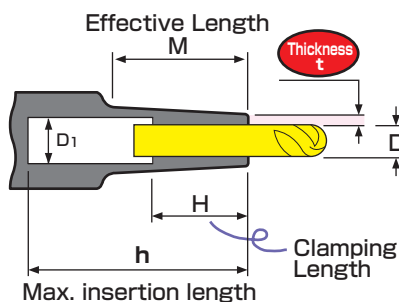


Fig.1

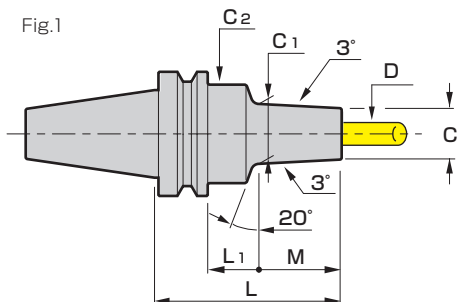
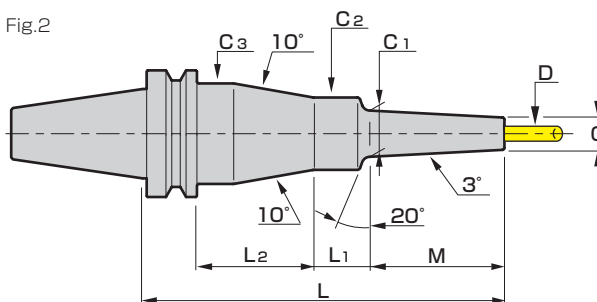


Fig.2



CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT50-SLSA 3-110-M 42	1	3	6	1.5	110	42	30	—	10.4	26	—	4	9	165	3.6	4.4	9.4	1
-135-M 67					135	67			13					190	3.7	5.1	15.0	4
-140-M 42					140	42	60		10.4					195	3.8	4.4	10.0	2
-165-M 67					165	67			13					220		5.2	16.0	5
-M 97					97	30			16.2						3.7	6.0	20.8	7
-170-M 42	2				170	42	33	57	10.4	40				225	4.1	4.6	9.9	3
-195-M 67					195	67			13					250		5.4	15.8	6
-M 97	1				97	60	—		16.2	—					3.8	6.1	22.3	8
-225-M 97	2				225		33	57		40				280	4.1	6.2	22.1	9
-SLRA 3- 90-M 22	1	3	7.5	2.25	90	22	30	—	9.8	26	—	5	9	145	3.6	4.6	2.8	10
-110-M 42					110	42			11.9					165	3.7	4.9	5.4	13
-120-M 22					120	22	60		9.8					175		4.7	3.2	11
-135-M 67					135	67	30		14.5					190		5.4	9.0	16
-140-M 42					140	42	60		11.9					195	3.8	5.0	6.0	14
-150-M 22	2				150	22	33	57	9.8	40				205	4.1	4.9	3.2	12
-165-M 67	1				165	67	60	—	14.5	—				220	3.8	5.5	9.9	17
-M 97					97	30			17.7						3.7	6.1	13.0	19
-170-M 42	2				170	42	33	57	11.9	40				225	4.1	5.1	6.0	15
-195-M 67					195	67			14.5					250		5.7	9.8	18
-M 97	1				97	60	—		17.7	—					3.8	6.2	14.5	20
-M127					127	30			20.8	36						7.7	15.7	22
-225-M 97	2				225	97	33	57	17.7	26	40			280	4.1	6.3	14.3	21
-M127	1				127	60	—		20.8	36	—					7.7	16.3	23
-255-M127	2				255		28	62		50				310	4.6	8.0	16.2	24
-SLFB 3- 90-M 22	1	3	9.5	3.25	90	22	30	—	11.8	26	—	5	9	145	3.6	4.4	1.9	25
-110-M 42					110	42			13.9					165	3.7	4.7	3.3	28
-120-M 22					120	22	60		11.8					175	3.8	4.5	2.3	26
-135-M 67					135	67	30		16.5					190	3.7	5.4	5.4	31
-140-M 42					140	42	60		13.9					195	3.8	4.8	3.9	29
-150-M 22	2				150	22	33	57	11.8	40				205	4.1	4.6	2.3	27
-165-M 67	1				165	67	60	—	16.5	—				220	3.8	5.5	6.4	32
-170-M 42	2				170	42	33	57	13.9	40				225	4.1	4.9	3.8	30
-195-M 67					195	67			16.5					250		5.7	6.3	33

CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L_1	L_2	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
BT50-SLSA 4-110-M 42	1	4	7	1.5	110	42	30	—	11.4	26	—	5	12	165	3.7	5.1	7.3	34
-135-M 67					135	67			14					190		5.2	11.9	37
-140-M 42					140	42	60		11.4					195	3.8		8.0	35
-165-M 67					165	67			14					220			12.9	38
-M 97					97	30			17.2						3.7	6.1	16.8	40
-170-M 42	2				170	42	33	57	11.4		40			225	4.1	5.4	7.9	36
-195-M 67					195	67			14					250			12.8	39
-M 97	1					97	60	—	17.2		—				3.8	6.2	18.4	41
-225-M 97	2				225		33	57			40			280	4.1	6.3	18.1	42
-SLRA 4- 90-M 22	1	4	10	3	90	22	30	—	12.3	26	—	6	12	145	3.6	4.7	1.7	43
-110-M 42					110	42			14.4					165	3.7	5.1	3.1	46
-120-M 22					120	22	60		12.3					175	3.8	4.8	2.1	44
-135-M 67					135	67	30		17					190	3.7	5.9	5.2	49
-140-M 42					140	42	60		14.4					195	3.8	5.2	3.8	47
-150-M 22	2				150	22	33	57	12.3		40			205	4.1	5.0	2.1	45
-165-M 67	1				165	67	60	—	17		—			220	3.8	5.9	6.2	50
-M 97					97	30			20.2							6.8	7.8	52
-170-M 42	2				170	42	33	57	14.4		40			225	4.1	5.4	3.7	48
-195-M 67					195	67			17					250		6.1	6.1	51
-M 97	1					97	60	—	20.2		—				3.9	6.9	9.4	53
-M127					127	30			23.3	36					3.8	9.2	9.3	55
- 225-M 97	2				225	97	33	57	20.2	26	40			280	4.2	7.1	9.1	54
-M127	1					127	60	—	23.3	36	—				4.1	9.2	9.9	56
-255-M127	2				255		28	62			50			310	4.6	9.5	9.8	57
-SLFB 4- 90-M 22	1	4	12	4	90	22	30	—	14.3	26	—	6	12	145	3.7	4.6	1.4	58
-110-M 42					110	42			16.4					165		5.0	2.2	61
-120-M 22					120	22	60		14.3					175	3.8	4.6	1.8	59
-135-M 67					135	67	30		19					190	3.7	5.8	3.6	64
-140-M 42					140	42	60		16.4					195	3.8	5.1	2.9	62
-150-M 22	2				150	22	33	57	14.3		40			205	4.1	4.8	1.7	60
-165-M 67	1				165	67	60	—	19		—			220	3.8	5.9	4.6	65
-170-M 42	2				170	42	33	57	16.4		40			225	4.1	5.3	2.8	63
-195-M 67					195	67			19					250	4.2	6.1	4.5	66
BT50-SLSA 6-110-M 42	1	6	9	1.5	110	42	30	—	13.4	26	—	7	18	165	3.7	5.4	4.9	67
-135-M 67					135	67			16					190		6.4	8.0	70
-140-M 42					140	42	60		13.4					195	3.8	5.4	5.6	68
-165-M 67					165	67			16					220		6.5	9.2	71
-M 97					97	30			19.2	36					3.7	8.3	11.0	73
-170-M 42	2				170	42	33	57	13.4	26	40			225	4.1	5.6	5.5	69
-195-M 67					195	67			16					250		6.6	9.0	72
-M 97	1					97	60	—	19.2	36	—				4.0	8.2	11.4	74
-225-M 97	2				225		28	62			50			280	4.5	8.5		75
-SLSB 6-110-M 42	1	6	10	2	110	42	30	—	14.4	26	—	8	18	165	3.7	6.0	3.9	76
-135-M 67					135	67			17					190		7.4	6.4	79
-140-M 42					140	42	60		14.4					195	3.8	6.1	4.6	77
-165-M 67					165	67			17					220		7.4	7.5	80
-M 97					97	30			20.2	36					3.7	9.6	8.9	82
-170-M 42	2				170	42	33	57	14.4	26	40			225	4.1	6.2	4.5	78
-195-M 67					195	67			17					250		7.6	7.4	81
-M 97	1					97	60	—	20.2	36	—				4.0	9.6	9.3	83
-M127					127	30			23.3						3.8	11.3	11.4	85
-225-M 97	2				225	97	28	62	20.2		50			280	4.5	9.9	9.3	84
-M127	1					127	60	—	23.3		—				4.1	11.2	12.1	86
-M157					157	30			26.5						3.9	13.0	13.7	88
-255-M127	2				255	127	28	62	23.3		50			310	4.6	11.5	12.0	87
-M157	1					157	60	—	26.5		—				4.2	12.9	14.5	89
-285-M157	2				285		28	62			50			340	4.7	13.2		90

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
BT50-SLRB 6- 90-M 22	1	6	14	4	90	22	30	—	16.3	36	—	8	18	145	3.6	5.5	0.9	91
-110-M 42					110	42			18.4					165	3.7	6.6	1.6	94
-120-M 22					120	22	60		16.3					175	3.9	5.5	1.1	92
-135-M 67					135	67	30		21					190	3.7	8.0	2.5	97
-140-M 42					140	42	60		18.4					195	4.0	6.6	1.8	95
-150-M 22	2				150	22	28	62	16.3		50			205	4.4	5.8	1.1	93
-165-M 67	1				165	67	60	—	21		—			220	4.0	8.0	2.8	98
-170-M 42	2				170	42	28	62	18.4		50			225	4.5	6.9	1.8	96
-195-M 67					195	67			21					250		8.3	2.8	99
-SLFB 6- 90-M 22	1	6	14	4	90	22	30	—	16.3	36	—	8	18	145	3.6	5.5	0.9	100
-110-M 42					110	42			18.4					165	3.7	6.6	1.6	103
-120-M 22					120	22	60		16.3					175	3.9	5.5	1.1	101
-135-M 67					135	67	30		21					190	3.7	8.0	2.5	106
-140-M 42					140	42	60		18.4					195	4.0	6.6	1.8	104
-150-M 22	2				150	22	28	62	16.3		50			205	4.4	5.8	1.1	102
-165-M 67	1				165	67	60	—	21		—			220	4.0	8.0	2.8	107
-170-M 42	2				170	42	28	62	18.4		50			225	4.5	6.9	1.8	105
-195-M 67					195	67			21					250		8.3	2.8	108
BT50-SLSA 8-110-M 42	1	8	11	1.5	110	42	30	—	15.4	36	—	9	24	165	3.6	6.9	3.2	109
-135-M 67					135	67			18					190	3.7	8.7	5.4	112
-140-M 42					140	42	60		15.4					195	3.9	6.9	3.4	110
-165-M 67					165	67			18					220	4.0	8.6	5.7	113
-M 97						97	30		21.2						3.7	10.8	7.8	115
-170-M 42	2				170	42	28	62	15.4		50			225	4.4	7.2	3.4	111
-195-M 67					195	67			18					250	4.5	8.9	5.7	114
-M 97	1					97	60	—	21.2		—				4.0	10.7	8.3	116
-225-M 97	2				225		28	62			50			280	4.5	11.0		117
-SLSB 8-110-M 42	1	8	13	2.5	110	42	30	—	17.4	36	—	10	24	165	3.7	7.7	2.1	118
-135-M 67					135	67			20					190	3.7	9.8	3.5	121
-140-M 42					140	42	60		17.4					195	3.9	7.6	2.3	119
-165-M 67					165	67			20					220	4.0	9.8	3.9	122
-M 97						97	30		23.2						3.8	12.4	5.2	124
-170-M 42	2				170	42	28	62	17.4		50			225	4.4	7.9	2.3	120
-195-M 67					195	67			20					250	4.5	10.1	3.9	123
-M 97	1					97	60	—	23.2		—				4.0	12.3	5.7	125
-M127						127	30		26.3						3.9	14.9	7.0	127
-225-M 97	2				225	97	28	62	23.2		50			280	4.6	12.6	5.7	126
-M127	1					127	60	—	26.3		—				4.1	14.9	7.7	128
-M157						157	30		29.5						4.0	17.5	8.6	130
-255-M127	2				255	127	28	62	26.3		50			310	4.7	15.2	7.6	129
-M157	1					157	60	—	29.5		—				4.3	17.5	9.5	131
-285-M157	2				285		28	62			50			340	4.8	17.8	9.4	132
-SLRB 8- 90-M 22	1	8	18	5	90	22	30	—	20.3	36	—	10	24	145	3.7	6.0	0.7	133
-110-M 42					110	42			22.4					165		7.7	1.0	136
-120-M 22					120	22	60		20.3					175	3.9	5.9	0.8	134
-135-M 67					135	67	30		25					190	3.8	9.8	1.6	139
-140-M 42					140	42	60		22.4					195	4.0	7.7	1.3	137
-150-M 22	2				150	22	28	62	20.3		50			205	4.4	6.2	0.8	135
-165-M 67	1				165	67	60	—	25		—			220	4.1	9.8	1.9	140
-170-M 42	2				170	42	28	62	22.4		50			225	4.5	8.0	1.3	138
-195-M 67					195	67			25					250	4.6	10.1	1.9	141
-SLFB 8- 90-M 22	1	8	18	5	90	22	30	—	20.3	36	—	10	24	145	3.7	6.0	0.7	142
-110-M 42					110	42			22.4					165		7.7	1.0	145
-120-M 22					120	22	60		20.3					175	3.9	5.9	0.8	143
-135-M 67					135	67	30		25					190	3.8	9.8	1.6	148
-140-M 42					140	42	60		22.4					195	4.0	7.7	1.3	146
-150-M 22	2				150	22	28	62	20.3		50			205	4.4	6.2	0.8	144
-165-M 67	1				165	67	60	—	25		—			220	4.1	9.8	1.9	149
-170-M 42	2				170	42	28	62	22.4		50			225	4.5	8.0	1.3	147
-195-M 67					195	67			25					250	4.6	10.1	1.9	150

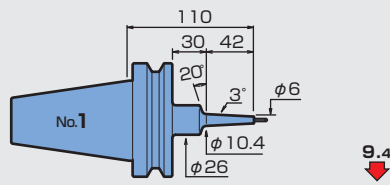
CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L_1	L_2	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
BT50-SLSA10-110-M 42	1	10	13	1.5	110	42	30	—	17.4	36	—	11	30	165	3.6	7.9	2.3	151
-135-M 67					135	67			20					190	3.7	10.4	4.0	154
-140-M 42					140	42	60		17.4					195	3.9	7.8	2.5	152
-165-M 67					165	67			20					220	4.0	10.4	4.3	155
-M 97					97	30			23.2						3.8	13.6	5.9	157
-170-M 42	2				170	42	28	62	17.4		50			225	4.4	8.1	2.5	153
-195-M 67					195	67			20					250	4.5	10.7	4.3	156
-M 97	1				97	60	—		23.2		—				4.1	13.5	6.4	158
-225-M 97	2				225		28	62			50			280	4.6	13.8		159
-SLSB10-110-M 42	1	10	16	3	110	42	30	—	20.4	36	—	12	30	165	3.7	8.6	1.4	160
-135-M 67					135	67			23					190		11.7	2.4	163
-140-M 42					140	42	60		20.4					195	3.9	8.6	1.7	161
-165-M 67					165	67			23					220	4.0	11.7	2.7	164
-M 97					97	30			26.2						3.8	15.4	3.6	166
-170-M 42	2				170	42	28	62	20.4		50			225	4.5	8.9	1.7	162
- 95-M 67					195	67			23					250		12.0	2.7	165
-M 97	1				97	60	—		26.2		—				4.1	15.3	4.1	167
-M127					127	30			29.3	50					3.9	20.0	4.4	169
-225-M 97	2				225	97	28	62	26.2	36	50			280	4.6	15.6	4.1	168
-M127	1				127	60	—		29.3	50	—				4.3	20.6	4.6	170
-M157					157	30			32.5						4.1	23.7	5.4	172
-255-M127					255	127	90		29.3					310	4.6	21.1	4.9	171
-M157					157	60			32.5						4.4	24.3	5.7	173
-285-M157					285		90							340	4.8	24.8	6.1	174
-SLRB10- 90-M 22	1	10	22	6	90	22	30	—	24.3	36	—	12	30	145	3.7	6.2	0.5	175
-110-M 42					110	42			26.4					165		8.7	0.8	178
-120-M 22					120	22	60		24.3					175	4.0	6.2	0.7	176
-135-M 67					135	67	30		29					190	3.8	11.8	1.2	181
-140-M 42					140	42	60		26.4					195	4.0	8.6	1.0	179
-150-M 22	2				150	22	28	62	24.3		50			205	4.5	6.5	0.7	177
-165-M 67	1				165	67	60	—	29		—			220	4.1	11.7	1.5	182
-170-M 42	2				170	42	28	62	26.4		50			225	4.5	8.9	1.0	180
-195-M 67					195	67			29					250	4.6	12.0	1.5	183
- SLFB10- 90-M 22	1	10	22	6	90	22	30	—	24.3	36	—	12	30	145	3.7	6.2	0.5	184
-110-M 42					110	42			26.4					165		8.7	0.8	187
-120-M 22					120	22	60		24.3					175	4.0	6.2	0.7	185
-135-M 67					135	67	30		29					190	3.8	11.8	1.2	190
-140-M 42					140	42	60		26.4					195	4.0	8.6	1.0	188
-150-M 22	2				150	22	28	62	24.3		50			205	4.5	6.5	0.7	186
-165-M 67	1				165	67	60	—	29		—			220	4.1	11.7	1.5	191
-170-M 42	2				170	42	28	62	26.4		50			225	4.5	8.9	1.0	189
-195-M 67					195	67			29					250	4.6	12	1.5	192
BT50-SLSA12-110-M 42	1	12	15	1.5	110	42	30	—	19.4	36	—	13	30	165	3.6	9.5	1.8	193
-135-M 67					135	67			22					190	3.7	13.1	3.2	196
-140-M 42					140	42	60		19.4					195	3.9	9.4	2.1	194
-165-M 67					165	67			22					220	4.0	13.0	3.6	197
-M 97					97	30			25.2						3.9	17.7	4.8	199
-170-M 42	2				170	42	28	62	19.4		50			225	4.4	9.7	2.1	195
-195-M 67					195	67			22					250	4.5	13.3	3.6	198
-M 97	1				97	60	—		25.2		—				4.2	17.7	5.3	200
-225-M 97	2				225		28	62			50			280	4.7	18.0		201

CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L_1	L_2	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
BT50-SLSB12-110-M 42	1	12	19	3.5	110	42	30	—	23.4	36	—	14	30	165	3.7	10.4	1.1	202
-135-M 67					135	67			26					190	3.8	14.6	1.8	205
-140-M 42					140	42	60		23.4					195	4.0	10.3	1.3	203
-165-M 67					165	67			26					220		14.5	2.2	206
-M 97						97	30		29.2	50					3.9	20.5	2.4	208
-170-M 42	2				170	42	28	62	23.4	36	50			225	4.5	10.6	1.3	204
-195-M 67					195	67			26					250		14.8	2.1	207
-M 97	1					97	60	—	29.2	50	—				4.2	21.1	2.6	209
-M127						127	30		32.3						4.0	25.5	3.2	211
-225-M 97					225	97	90		29.2					280	4.6	21.6	2.8	210
-M127						127	60		32.3						4.4	26.1	3.4	212
-M157						157	30		35.5						4.2	30.6	4.0	214
-255-M127					255	127	90		32.3					310	4.7	26.7	3.7	213
-M157						157	60		35.5						4.6	31.1	4.3	215
-285-M157					285		90							340	4.9	31.7	4.6	216
-SLRB12- 90-M 22	1	12	26	7	90	22	30	—	28.3	50	—	14	30	145	3.7	9.5	0.4	217
-110-M 42					110	42			30.4					165	3.8	11.4	0.5	220
-120-M 22					120	22	60		28.3					175	4.0	10.1	0.4	218
-135-M 67					135	67	30		33					190	3.9	15.5	0.8	223
-140-M 42					140	42	60		30.4					195	4.1	11.9	0.6	221
-150-M 22					150	22	90		28.3					205	4.4	10.7	0.5	219
-165-M 67					165	67	60		33					220	4.2	16.1	0.9	224
-170-M 42					170	42	90		30.4					225	4.5	12.5	0.7	222
-195-M 67					195	67			33					250	4.6	16.7	1.0	225
-SLFB12- 90-M 22	1	12	26	7	90	22	30	—	28.3	50	—	14	30	145	3.7	9.5	0.4	226
-110-M 42					110	42			30.4					165	3.8	11.4	0.5	229
-120-M 22					120	22	60		28.3					175	4.0	10.1	0.4	227
-135-M 67					135	67	30		33					190	3.9	15.5	0.8	232
-140-M 42					140	42	60		30.4					195	4.1	11.9	0.6	230
-150-M 22					150	22	90		28.3					205	4.4	10.7	0.5	228
-165-M 67					165	67	60		33					220	4.2	16.1	0.9	233
-170-M 42					170	42	90		30.4					225	4.5	12.5	0.7	231
-195-M 67					195	67			33					250	4.6	16.7	1.0	234
BT50-SLSB16-110-M 42	1	16	24	4	110	42	30	—	28.4	50	—	18	32	165	3.7	15.0	0.7	235
-135-M 67					135	67			31					190	3.8	21.9	1.1	238
-140-M 42					140	42	60		28.4					195	4.1	15.6	0.8	236
-165-M 67					165	67			31					220	4.2	22.5	1.2	239
-M 97						97	30		34.2						4.0	30.2	1.6	241
-170-M 42					170	42	90		28.4					225	4.4	16.2	0.9	237
-195-M 67					195	67			31					250	4.5	23.0	1.4	240
-M 97						97	60		34.2						4.3	30.7	1.8	242
-M127						127	30		37.3						4.2	38.5	2.1	244
-225-M 97					225	97	90		34.2					280	4.6	31.3	2.0	243
-M127						127	60		37.3						4.5	39.0	2.4	245
-M157						157	30		40.5						4.4	46.8	2.7	247
-255-M127					255	127	90		37.3					310	4.8	39.6		246
-M157						157	60		40.5						4.7	47.3	3.0	248
-285-M157					285		90							340	5.0	47.9	3.4	249
-SLRB16- 90-M 22	1	16	32	8	90	22	30	—	34.3	50	—	18	32	145	3.7	9.6	0.3	250
-110-M 42					110	42			36.4					165	3.9	15.1	0.4	253
-120-M 22					120	22	60		34.3					175	4.1	10.1		251
-135-M 67					135	67	30		39					190	4.0	22.0	0.6	256
-140-M 42					140	42	60		36.4					195	4.2	15.7	0.5	254
-150-M 22					150	22	90		34.3					205	4.4	10.7		252
-165-M 67					165	67	60		39					220		22.6	0.7	257
-170-M 42					170	42	90		36.4					225	4.5	16.2	0.6	255
-195-M 67					195	67			39					250	4.7	23.2	0.9	258

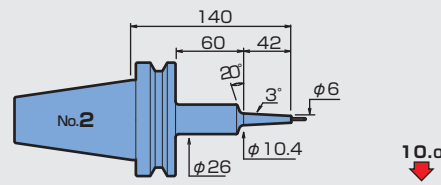
CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L ₁	L ₂	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
BT50-SLFB16- 90-M 22	1	16	32	8	90	22	30	—	34.3	50	—	18	32	145	3.7	9.6	0.3	259
-110-M 42					110	42			36.4					165	3.9	15.1	0.4	262
-120-M 22					120	22	60		34.3					175	4.1	10.1		260
-135-M 67					135	67	30		39					190	4.0	22.0	0.6	265
-140-M 42					140	42	60		36.4					195	4.2	15.7	0.5	263
-150-M 22					150	22	90		34.3					205	4.4	10.7		261
-165-M 67					165	67	60		39					220		22.6	0.7	266
-170-M 42					170	42	90		36.4					225	4.5	16.2	0.6	264
-195-M 67					195	67			39					250	4.7	23.2	0.9	267
BT50-SLSB20-110-M 42	1	20	29	4.5	110	42	30	—	33.4	50	—	22	40	165	3.8	16.8	0.5	268
-135-M 67					135	67			36					190	3.9	27.1	0.8	271
-140-M 42					140	42	60		33.4					195	4.1	17.4	0.6	269
-165-M 67					165	67			36					220	4.2	27.7	0.9	272
-M 97						97	30		39.2						4.1	39.4	1.2	274
-170-M 42					170	42	90		33.4					225	4.4	18.0	0.8	270
-195-M 67					195	67			36					250	4.5	28.2	1.1	273
-M 97						97	60		39.2						4.4	40.0	1.4	275
-M127						127	30		42.3						4.3	52.6	1.6	277
-225-M 97					225	97	90		39.2					280	4.7	40.6	1.7	276
-M127						127	60		42.3						4.6	53.2	1.8	278
-M157						157	30		45.5						4.5	65.0	2.0	280
-255-M127					255	127	90		42.3					310	5.0	53.7	2.2	279
-M157						157	60		45.5						4.9	65.5	2.3	281
-285-M157					285		90							340	5.2	66.1	2.8	282
-SLRB20-110-M 42	1	20	38	9	110	42	30	—	42.4	50	—	22	40	165	3.9	16.9	0.3	283
-135-M 67					135	67			45					190	4.2	27.2	0.5	286
-140-M 42					140	42	60		42.4					195	4.3	17.5		284
-165-M 67					165	67			45					220	4.5	27.8	0.6	287
-170-M 42					170	42	90		42.4					225	4.6	18.1		285
-195-M 67					195	67			45					250	4.8	28.4	0.8	288
-SLFB20-110-M 42	1	20	38	9	110	42	30	—	42.4	50	—	22	40	165	3.9	16.9	0.3	289
-135-M 67					135	67			45					190	4.2	27.2	0.5	292
-140-M 42					140	42	60		42.4					195	4.3	17.5		290
-165-M 67					165	67			45					220	4.5	27.8	0.6	293
-170-M 42					170	42	90		42.4					225	4.6	18.1		291
-195-M 67					195	67			45					250	4.8	28.4	0.8	294
BT50-SLRB25-110-M 42	1	25	45	10	110	42	30	—	49.7	50	—	26	45	165	4.0	19.0	0.3	295
-140-M 42					140		60							195	4.4	19.6	0.4	296
-170-M 42					170		90							225	4.7	20.2	0.6	297
-SLFB25-110-M 42	1	25	45	10	110	42	30	—	49.7	50	—	26	45	165	4.0	19.0	0.3	298
-140-M 42					140		60							195	4.4	19.6	0.4	299
-170-M 42					170		90							225	4.7	20.2	0.6	300

$\phi 3$ **SLSA** $t=1.5$

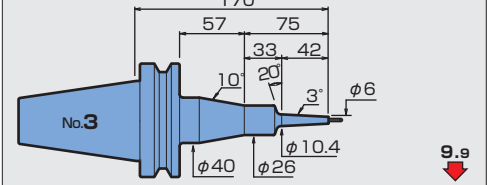
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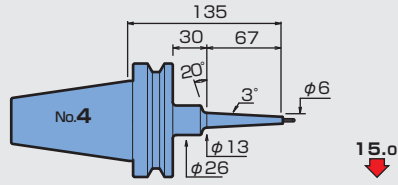
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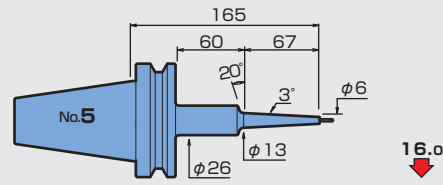
BT50-SLSA3-170-M42



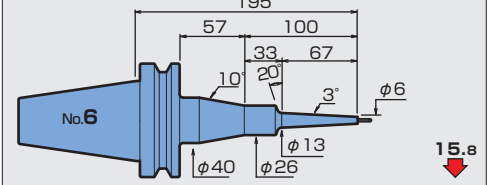
BT50-SLSA3-135-M67



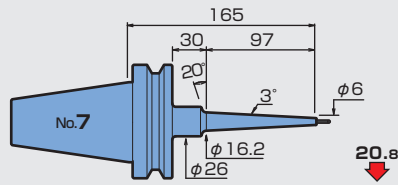
BT50-SLSA3-165-M67



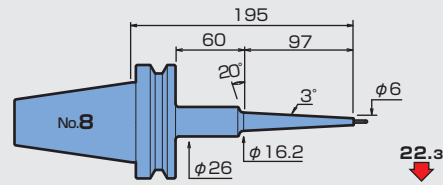
BT50-SLSA3-195-M67



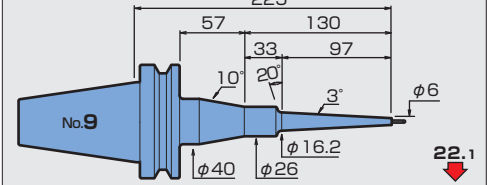
BT50-SLSA3-165-M97



BT50-SLSA3-195-M97

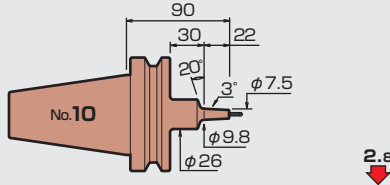


BT50-SLSA3-225-M97

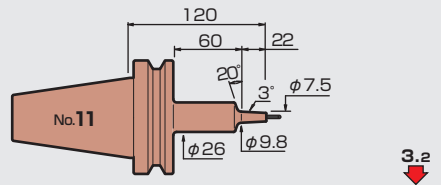


$\phi 3$ **SLRA** $t=2.25$

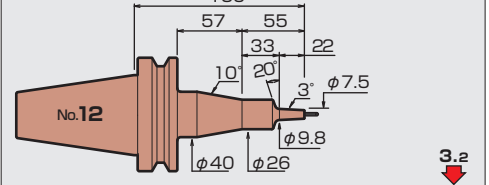
BT50-SLRA3-90-M22



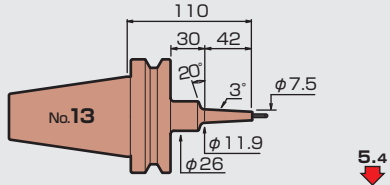
BT50-SLRA3-120-M22



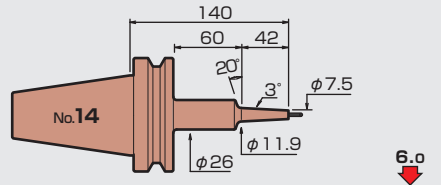
BT50-SLRA3-150-M22



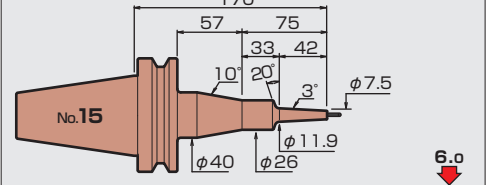
BT50-SLRA3-110-M42



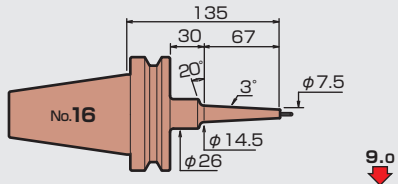
BT50-SLRA3-140-M42



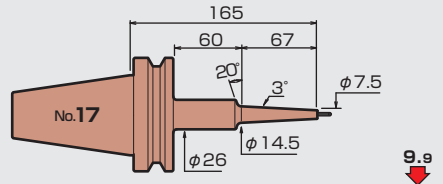
BT50-SLRA3-170-M42



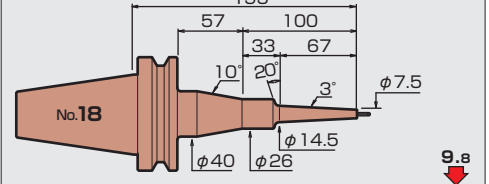
BT50-SLRA3-135-M67



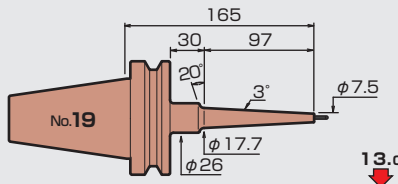
BT50-SLRA3-165-M67



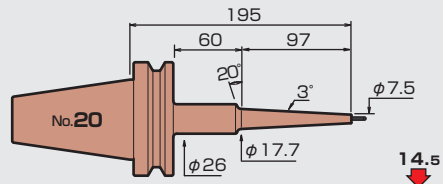
BT50-SLRA3-195-M67



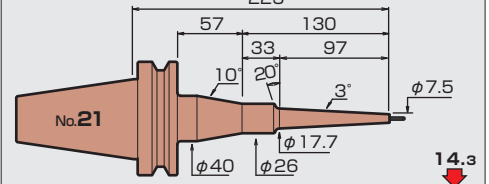
BT50-SLRA3-165-M97



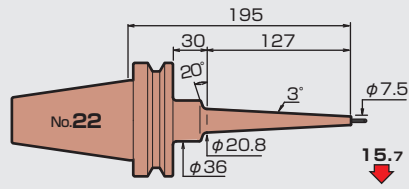
BT50-SLRA3-195-M97



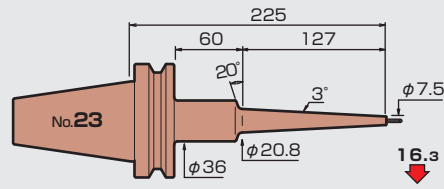
BT50-SLRA3-225-M97



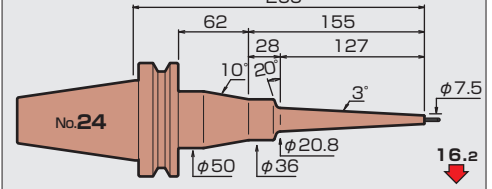
BT50-SLRA3-195-M127



BT50-SLRA3-225-M127

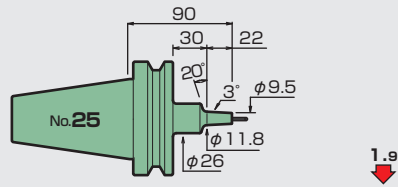


BT50-SLRA3-255-M127

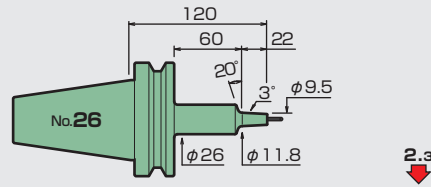


$\phi 3$ SLFB $t=3.25$

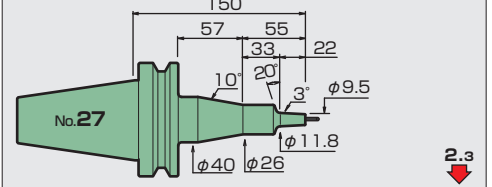
BT50-SLFB3-90-M22



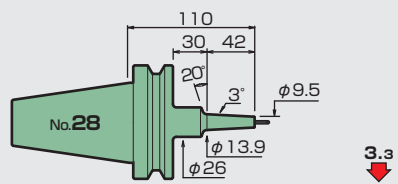
BT50-SLFB3-120-M22



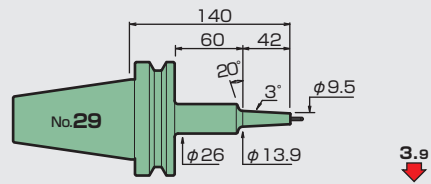
BT50-SLFB3-150-M22



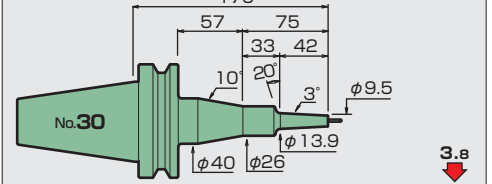
BT50-SLFB3-110-M42



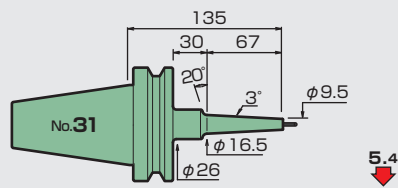
BT50-SLFB3-140-M42



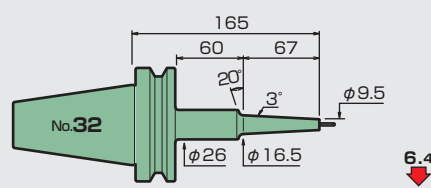
BT50-SLFB3-170-M42



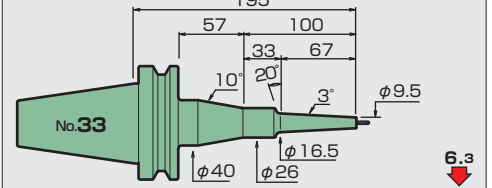
BT50-SLFB3-135-M67



BT50-SLFB3-165-M67

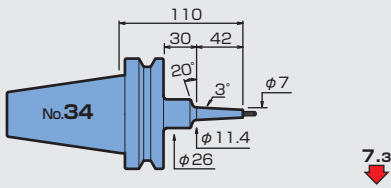


BT50-SLFB3-195-M67

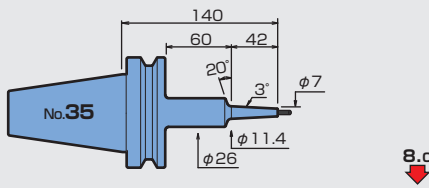


$\phi 4$ **SLSA** $t=1.5$

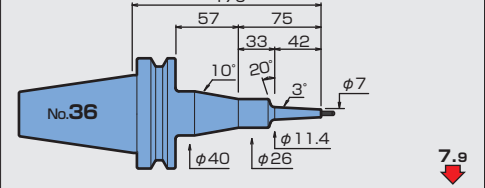
BT50-SLSA4-110-M42



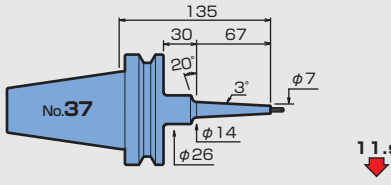
BT50-SLSA4-140-M42



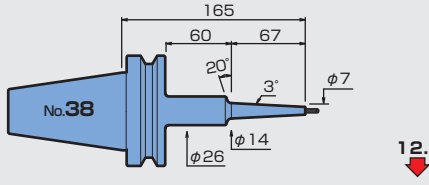
BT50-SLSA4-170-M42



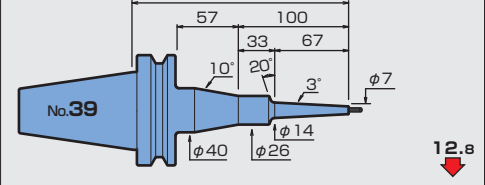
BT50-SLSA4-135-M67



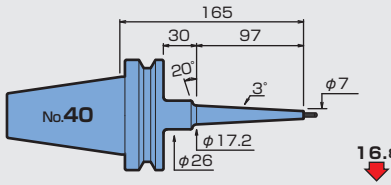
BT50-SLSA4-165-M67



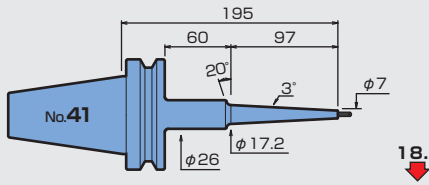
BT50-SLSA4-195-M67



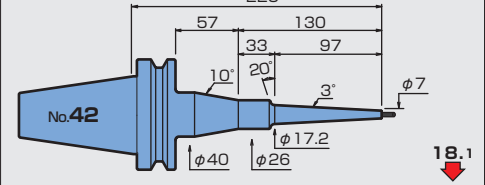
BT50-SLSA4-165-M97



BT50-SLSA4-195-M97

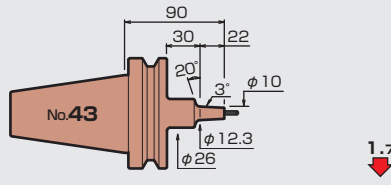


BT50-SLSA4-225-M97

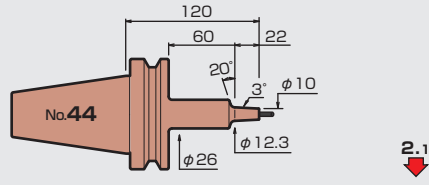


$\phi 4$ **SLRA** $t=3$

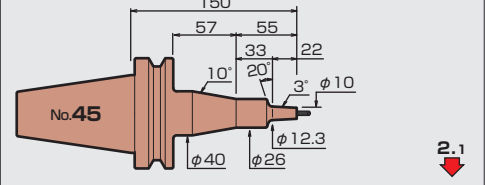
BT50-SLRA4-90-M22



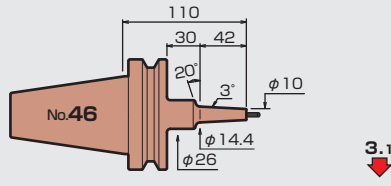
BT50-SLRA4-120-M22



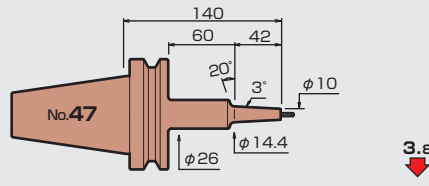
BT50-SLRA4-150-M22



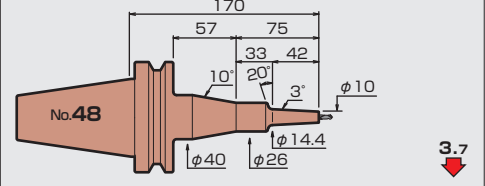
BT50-SLRA4-110-M42



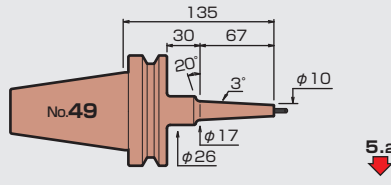
BT50-SLRA4-140-M42



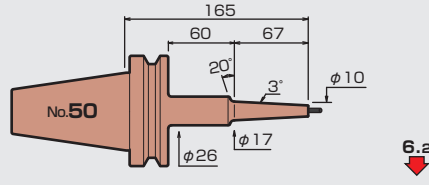
BT50-SLRA4-170-M42



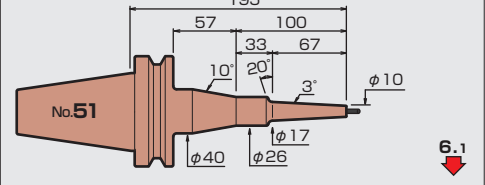
BT50-SLRA4-135-M67



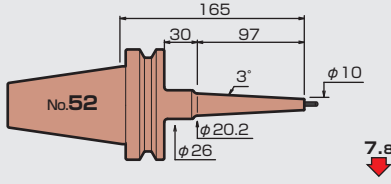
BT50-SLRA4-165-M67



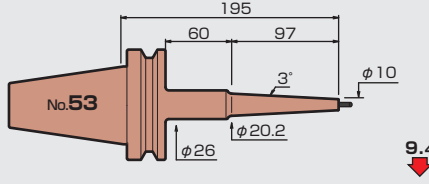
BT50-SLRA4-195-M67



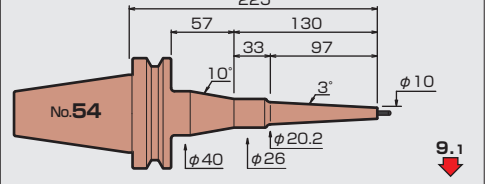
BT50-SLRA4-165-M97



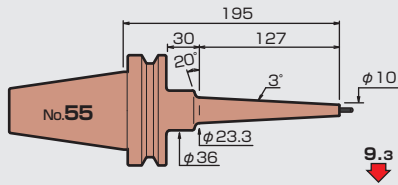
BT50-SLRA4-195-M97



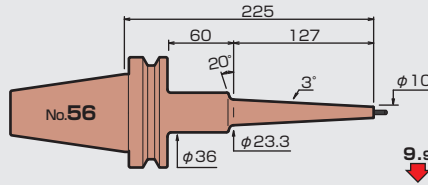
BT50-SLRA4-225-M97



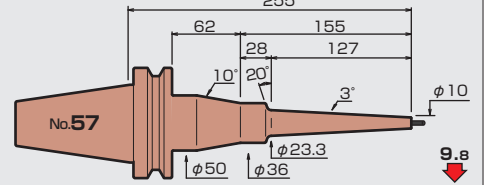
BT50-SLRA4-195-M127



BT50-SLRA4-225-M127

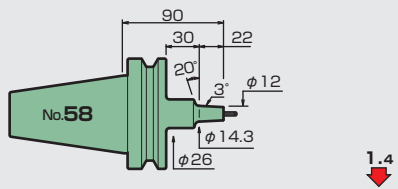


BT50-SLRA4-255-M127

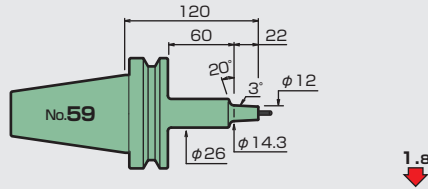


$\phi 4$ SLFB $t=4$

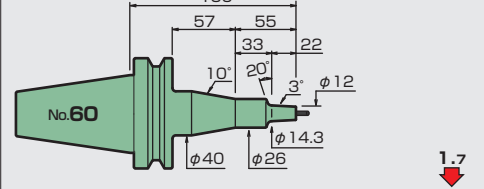
BT50-SLFB4-90-M22



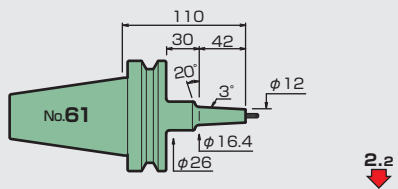
BT50-SLFB4-120-M22



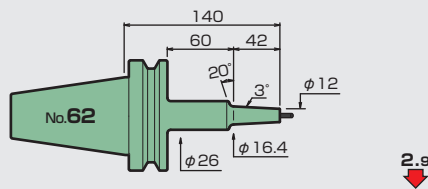
BT50-SLFB4-150-M22



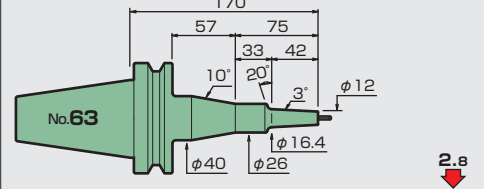
BT50-SLFB4-110-M42



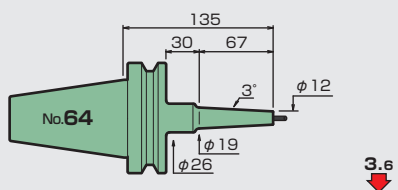
BT50-SLFB4-140-M42



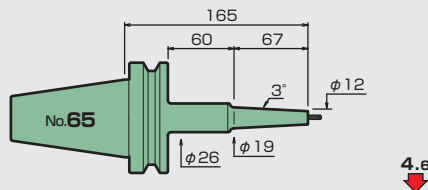
BT50-SLFB4-170-M42



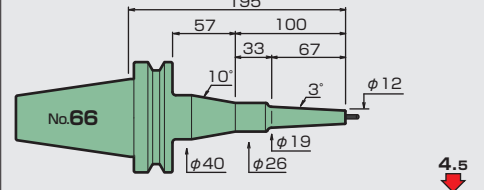
BT50-SLFB4-135-M67



BT50-SLFB4-165-M67

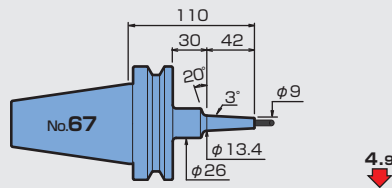


BT50-SLFB4-195-M67

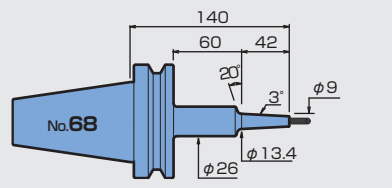


$\phi 6$ **SLSA** $t=1.5$

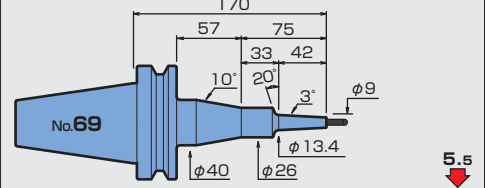
BT50-SLSA6-110-M42



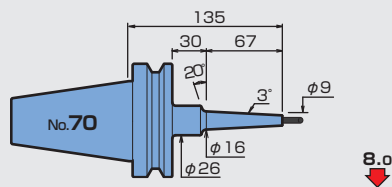
BT50-SLSA6-140-M42



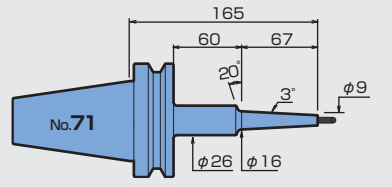
BT50-SLSA6-170-M42



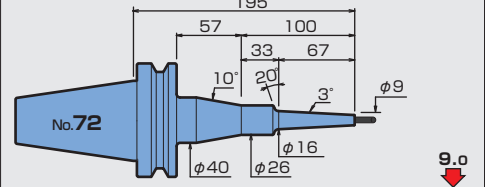
BT50-SLSA6-135-M67



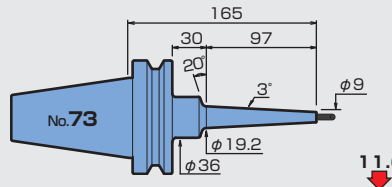
BT50-SLSA6-165-M67



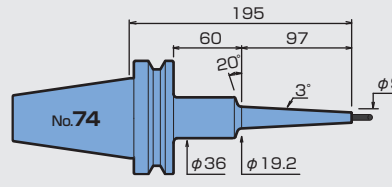
BT50-SLSA6-195-M67



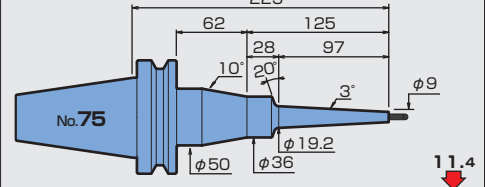
BT50-SLSA6-165-M97



BT50-SLSA6-195-M97

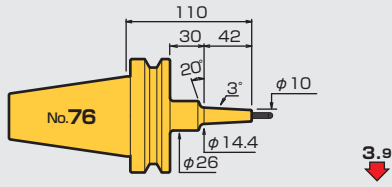


BT50-SLSA6-225-M97

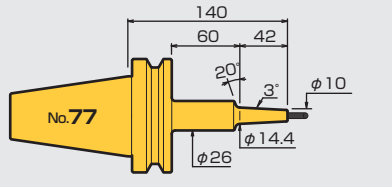


$\phi 6$ **SLSB** $t=2$

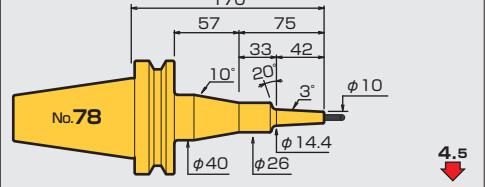
BT50-SLSB6-110-M42



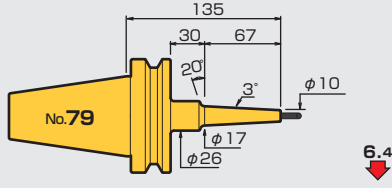
BT50-SLSB6-140-M42



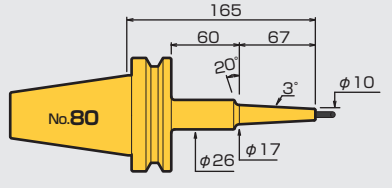
BT50-SLSB6-170-M42



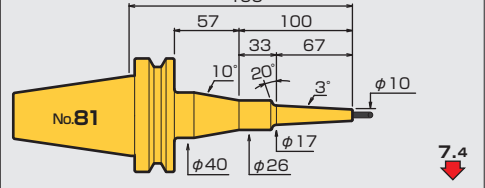
BT50-SLSB6-135-M67



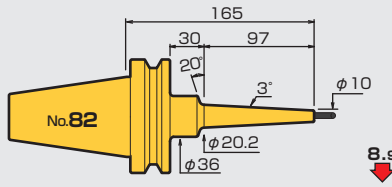
BT50-SLSB6-165-M67



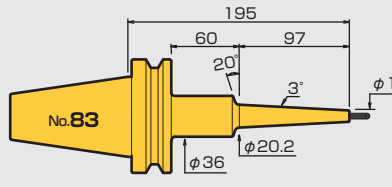
BT50-SLSB6-195-M67



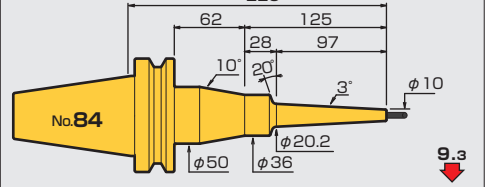
BT50-SLSB6-165-M97



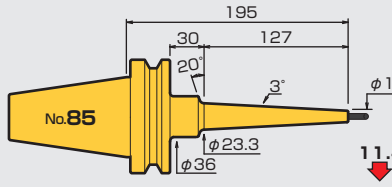
BT50-SLSB6-195-M97



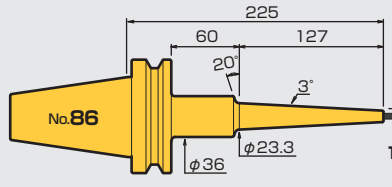
BT50-SLSB6-225-M97



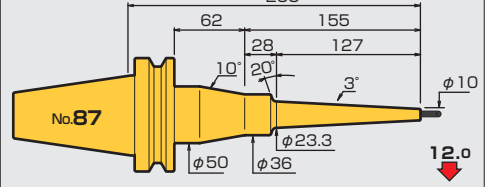
BT50-SLSB6-195-M127

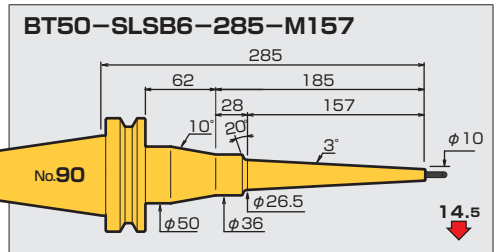
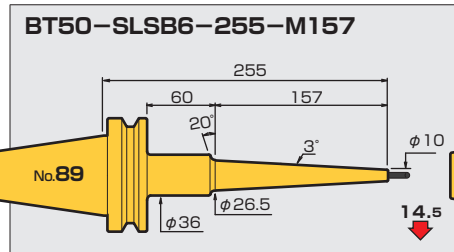
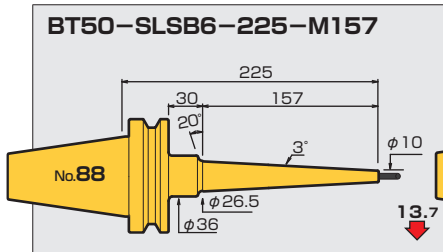


BT50-SLSB6-225-M127

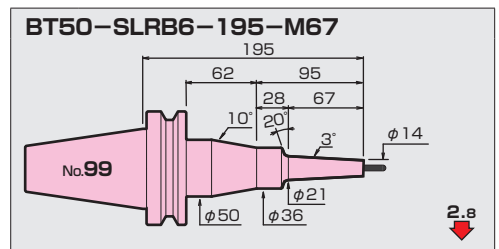
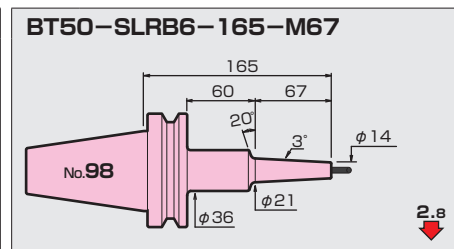
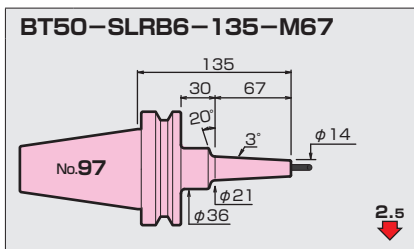
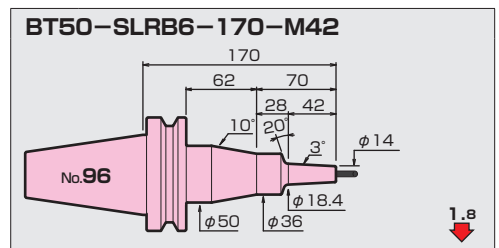
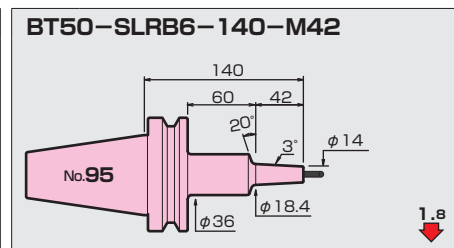
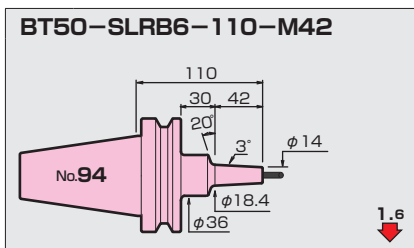
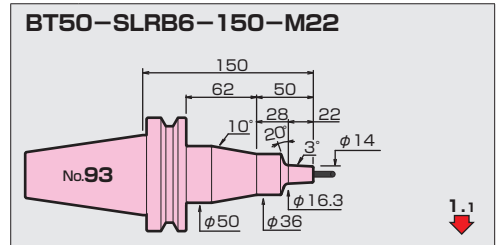
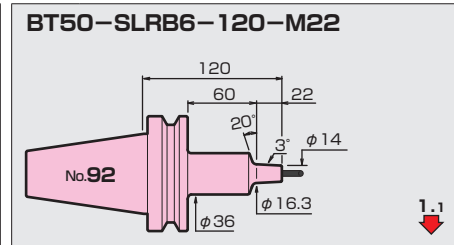
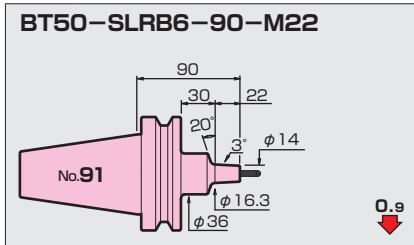


BT50-SLSB6-255-M127

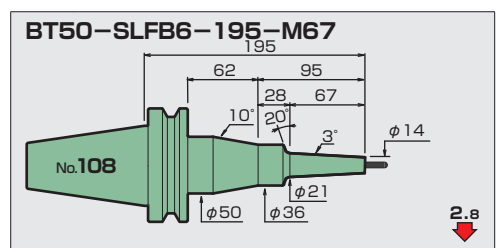
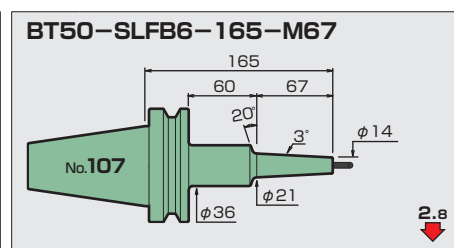
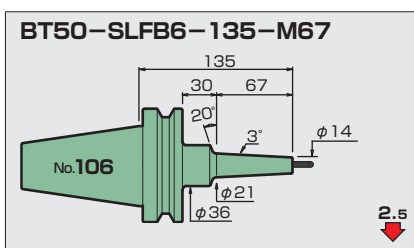
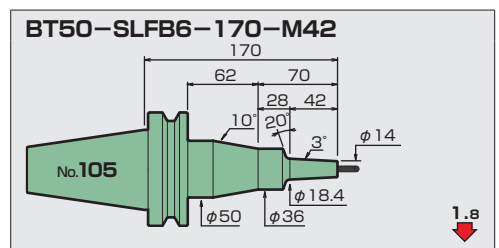
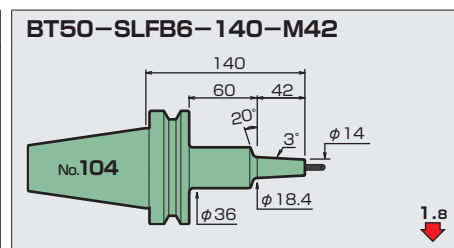
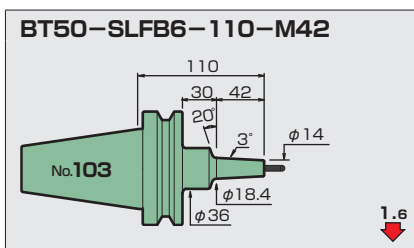
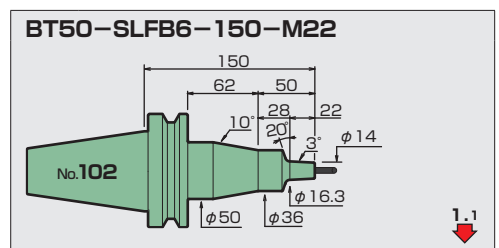
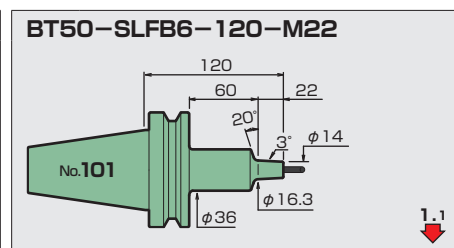
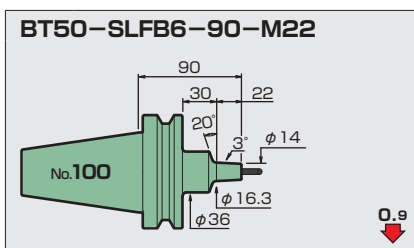




φ6 SLRB t=4

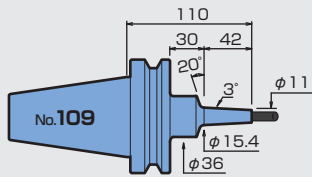


φ6 SLFB t=4

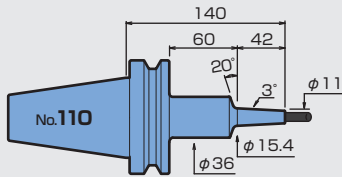


φ8 SLSA t=1.5

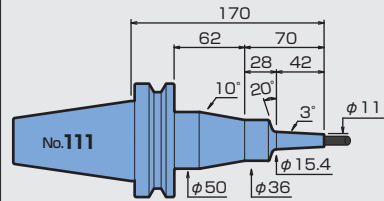
BT50-SLSA8-110-M42



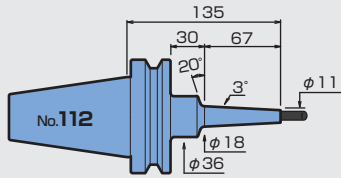
BT50-SLSA8-140-M42



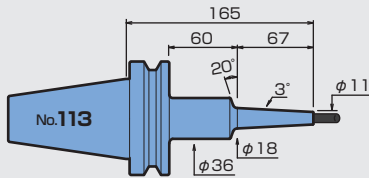
BT50-SLSA8-170-M42



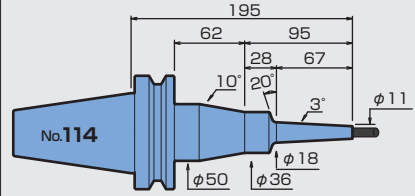
BT50-SLSA8-135-M67



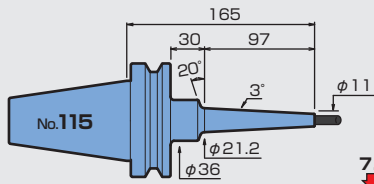
BT50-SLSA8-165-M67



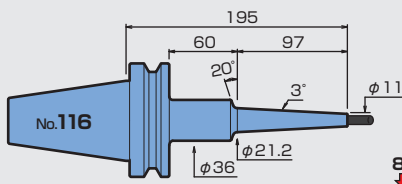
BT50-SLSA8-195-M67



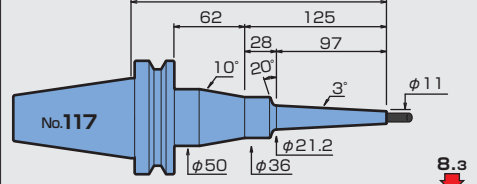
BT50-SLSA8-165-M97



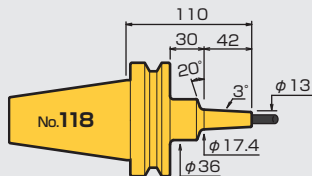
BT50-SLSA8-195-M97



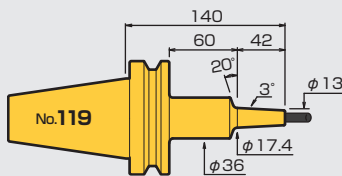
BT50-SLSA8-225-M97


φ8 SLSEB t=2.5

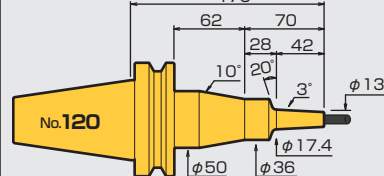
BT50-SLSB8-110-M42



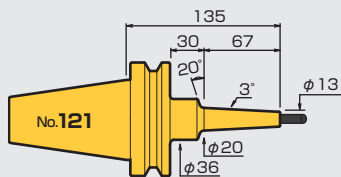
BT50-SLSB8-140-M42



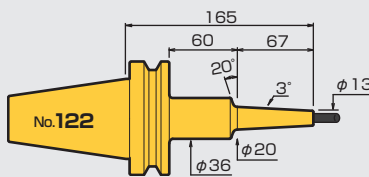
BT50-SLSB8-170-M42



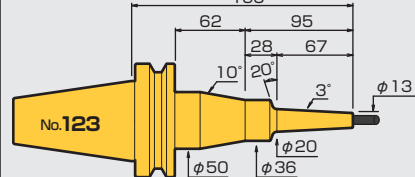
BT50-SLSB8-135-M67



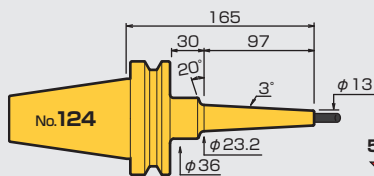
BT50-SLSB8-165-M67



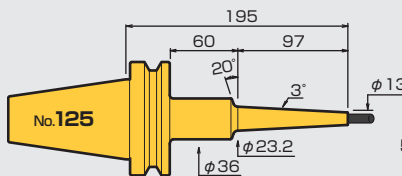
BT50-SLSB8-195-M67



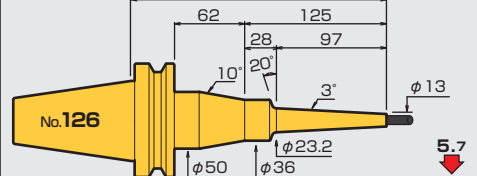
BT50-SLSB8-165-M97



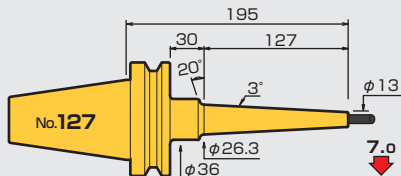
BT50-SLSB8-195-M97



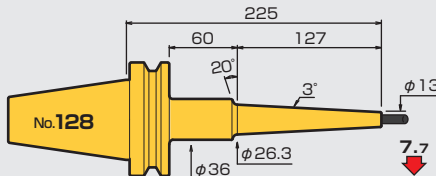
BT50-SLSB8-225-M97



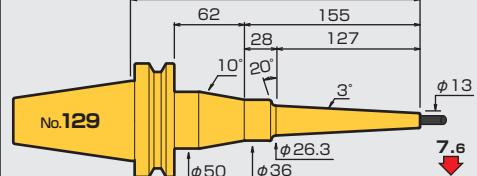
BT50-SLSB8-195-M127

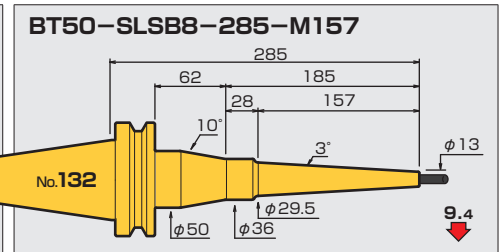
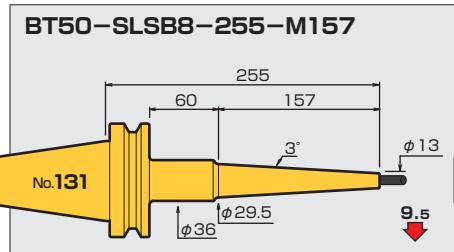
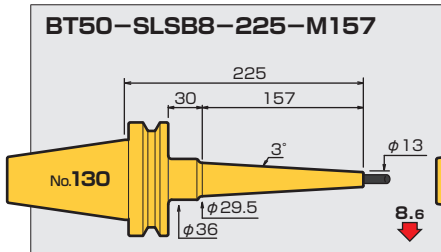


BT50-SLSB8-225-M127

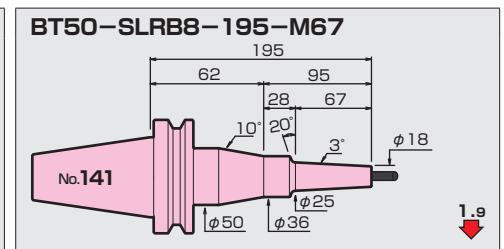
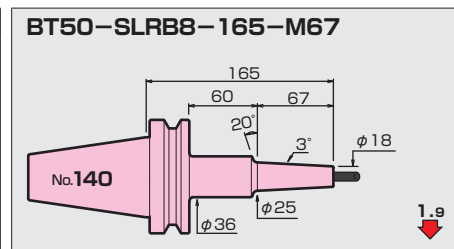
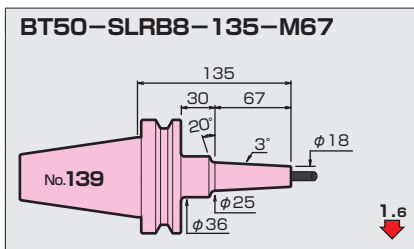
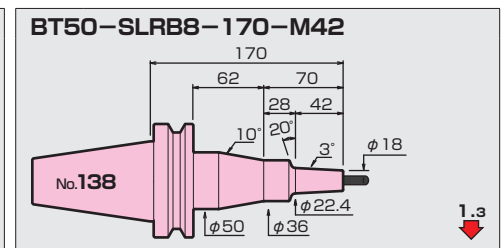
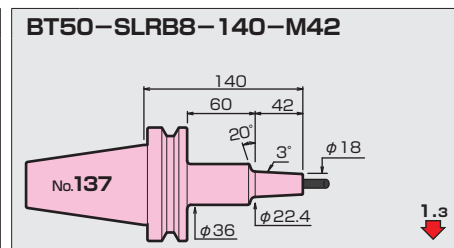
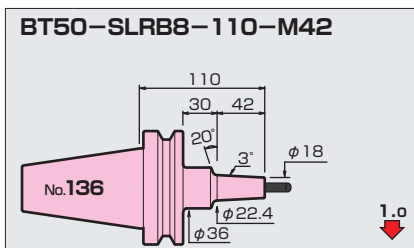
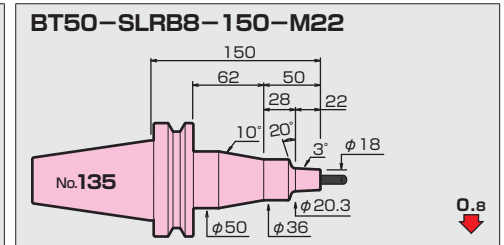
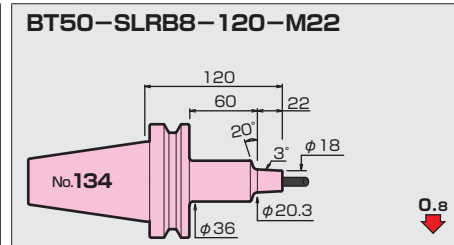
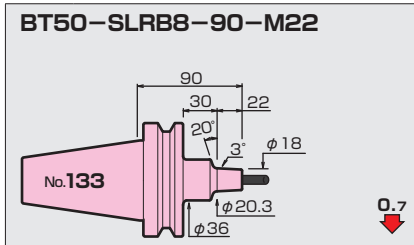


BT50-SLSB8-255-M127

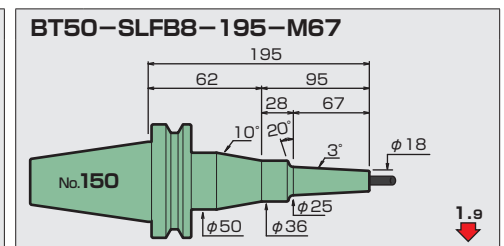
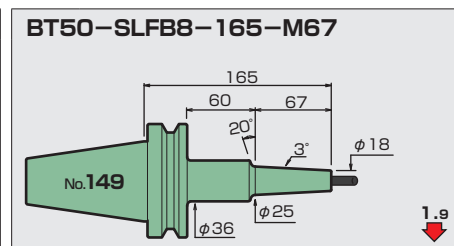
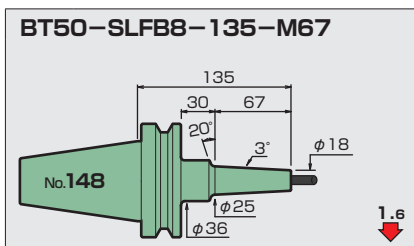
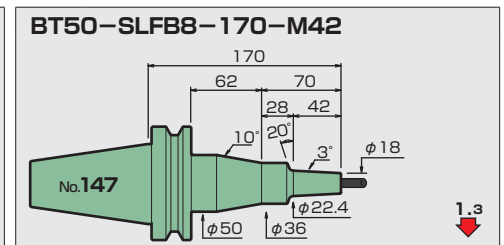
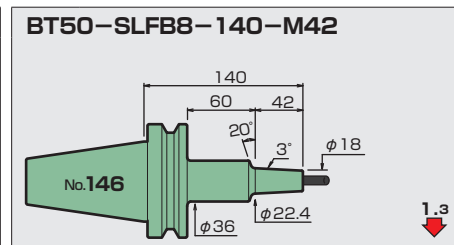
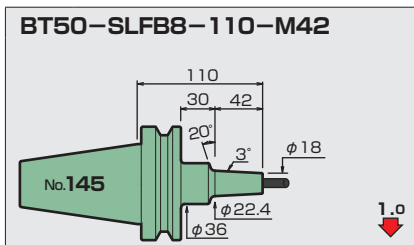
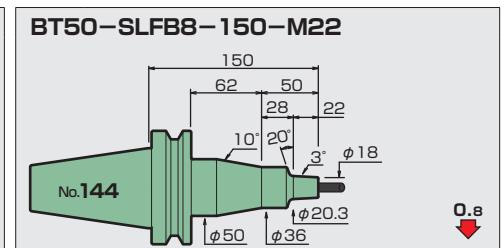
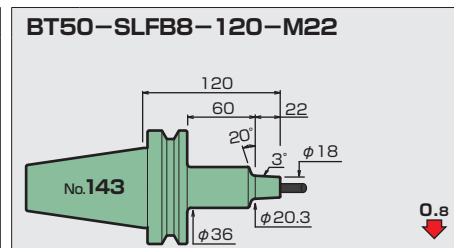
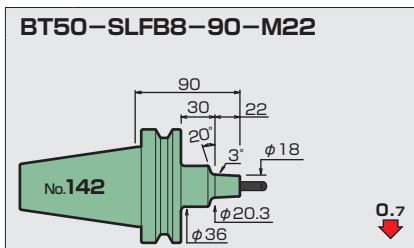




φ8 SLRB t=5

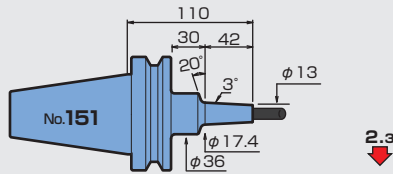


φ8 SLFB t=5

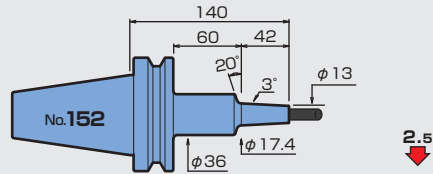


φ10 SLSA $t=1.5$

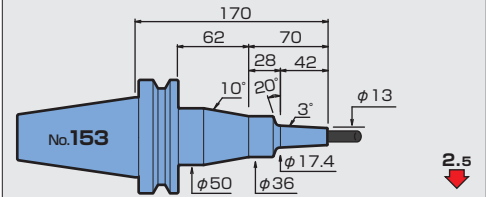
BT50-SLSA10-110-M42



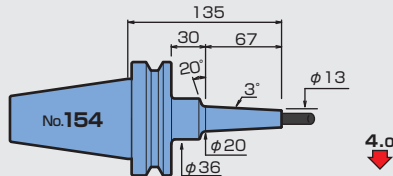
BT50-SLSA10-140-M42



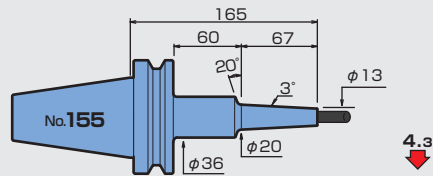
BT50-SLSA10-170-M42



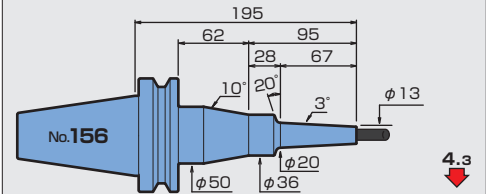
BT50-SLSA10-135-M67



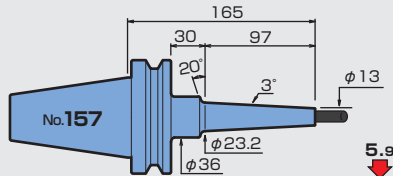
BT50-SLSA10-165-M67



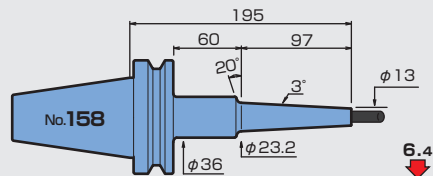
BT50-SLSA10-195-M67



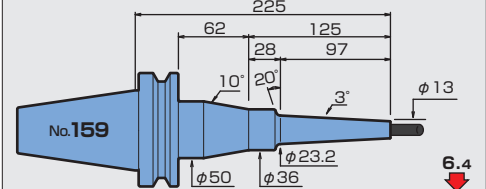
BT50-SLSA10-165-M97



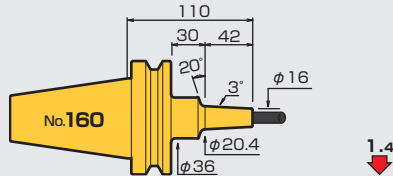
BT50-SLSA10-195-M97



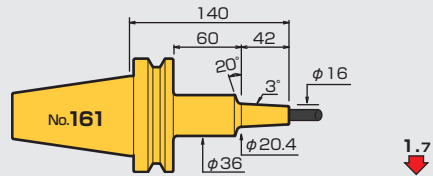
BT50-SLSA10-225-M97


φ10 SLSB $t=3$

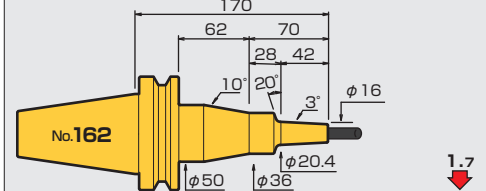
BT50-SLSB10-110-M42



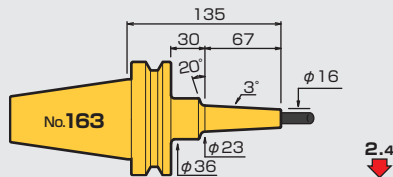
BT50-SLSB10-140-M42



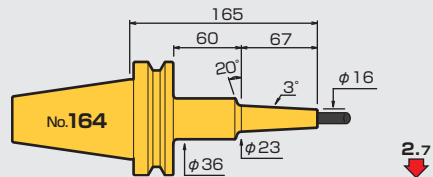
BT50-SLSB10-170-M42



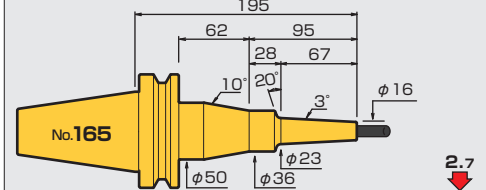
BT50-SLSB10-135-M67



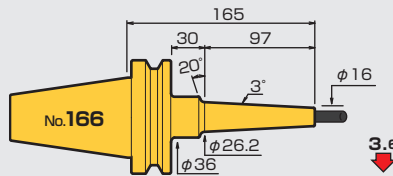
BT50-SLSB10-165-M67



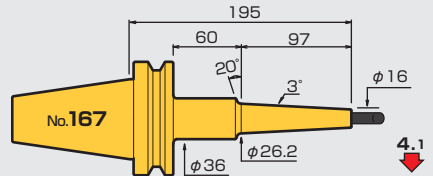
BT50-SLSB10-195-M67



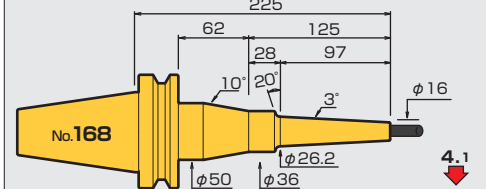
BT50-SLSB10-165-M97



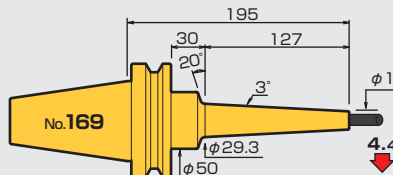
BT50-SLSB10-195-M97



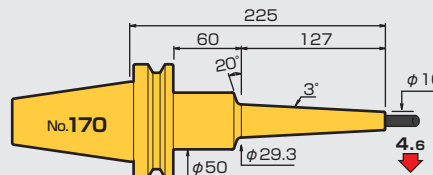
BT50-SLSB10-225-M97



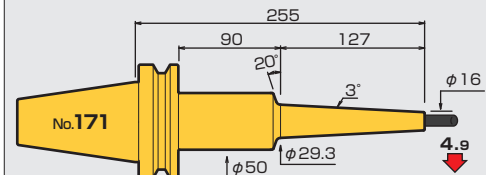
BT50-SLSB10-195-M127

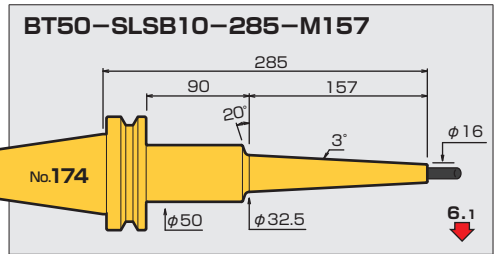
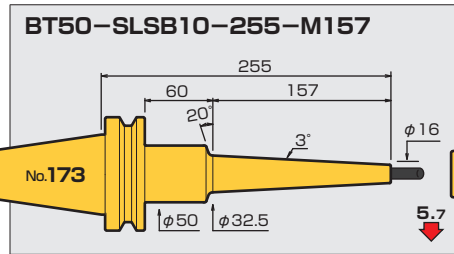
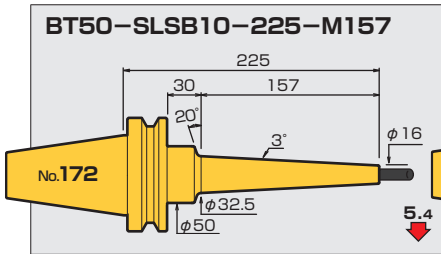


BT50-SLSB10-225-M127

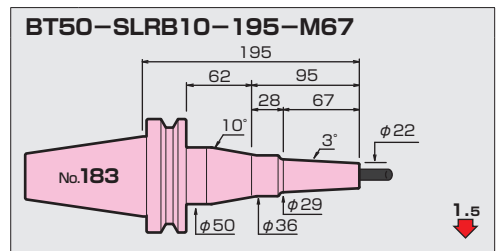
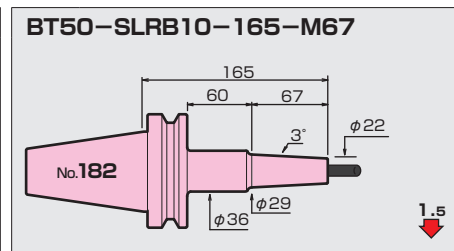
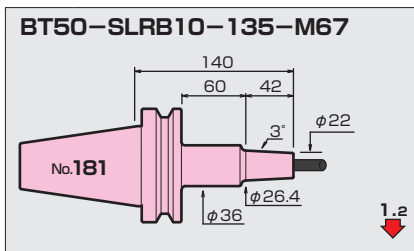
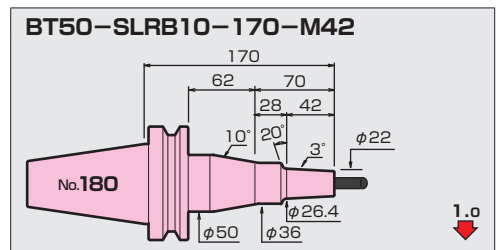
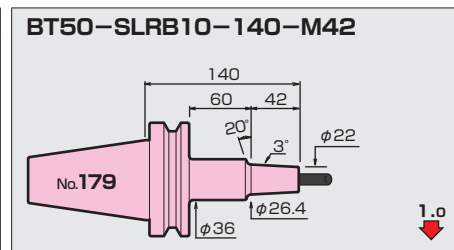
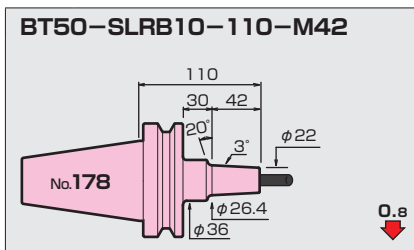
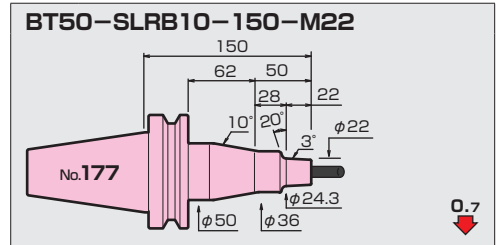
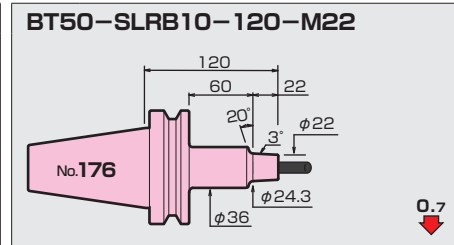
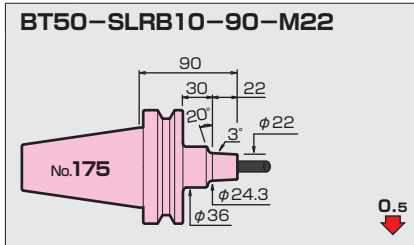


BT50-SLSB10-255-M127

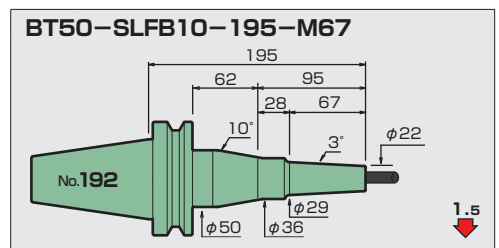
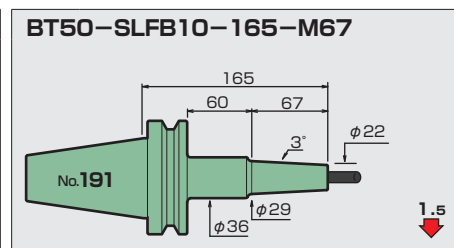
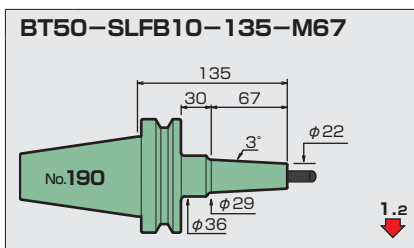
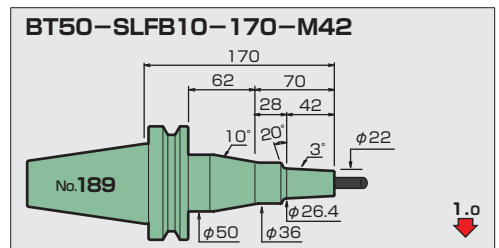
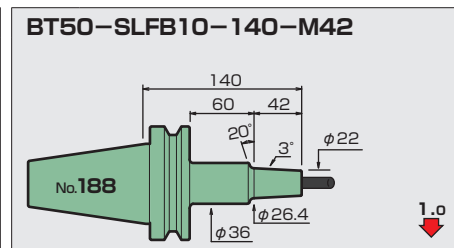
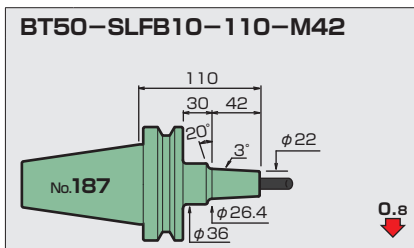
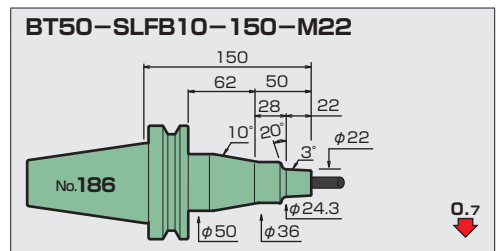
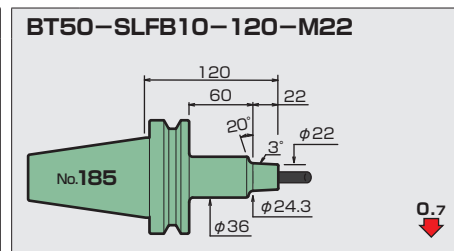
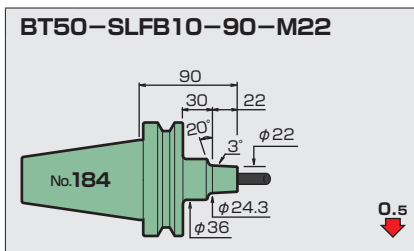




φ10 SLRB t=6

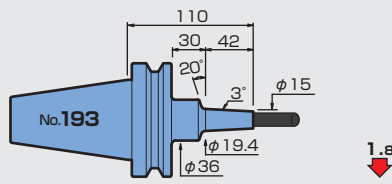


φ10 SLFB t=6

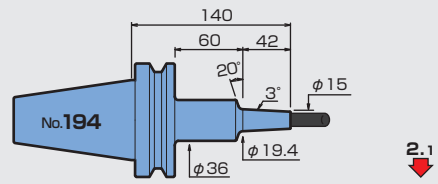


$\phi 12$ **SLSA** $t=1.5$

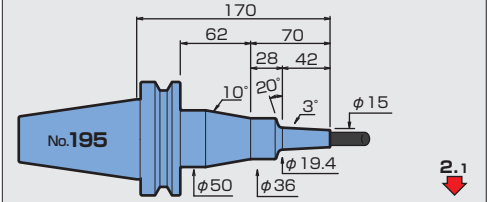
BT50-SLSA12-110-M42



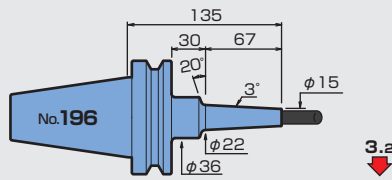
BT50-SLSA12-140-M42



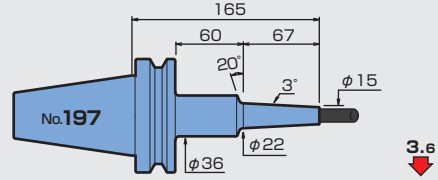
BT50-SLSA12-170-M42



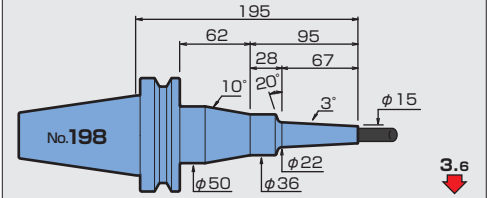
BT50-SLSA12-135-M67



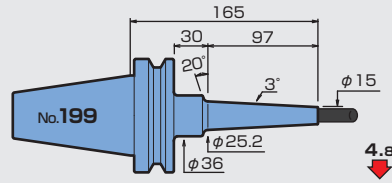
BT50-SLSA12-165-M67



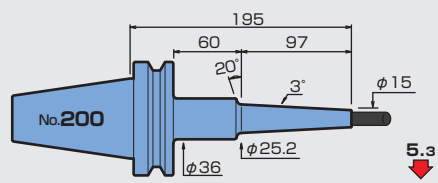
BT50-SLSA12-195-M67



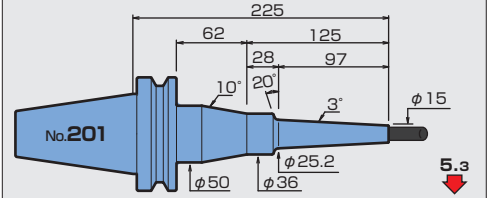
BT50-SLSA12-165-M97



BT50-SLSA12-195-M97

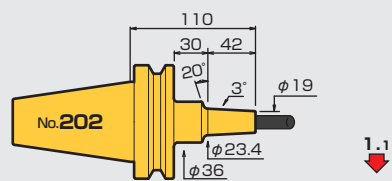


BT50-SLSA12-225-M97

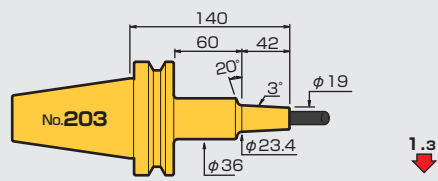


$\phi 12$ **SLSB** $t=3.5$

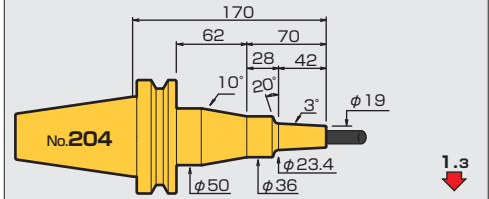
BT50-SLSB12-110-M42



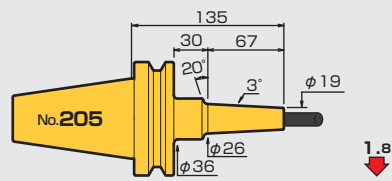
BT50-SLSB12-140-M42



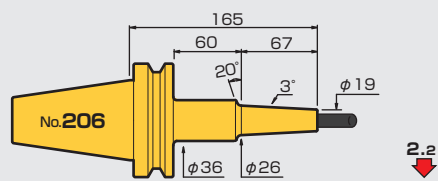
BT50-SLSB12-170-M42



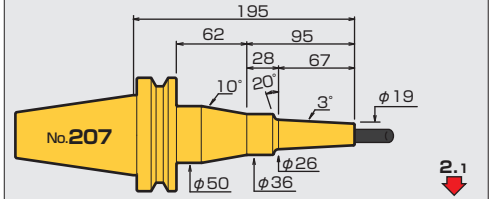
BT50-SLSB12-135-M67



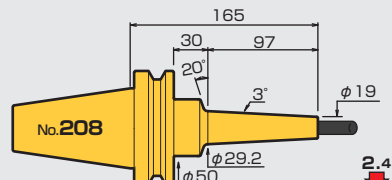
BT50-SLSB12-165-M67



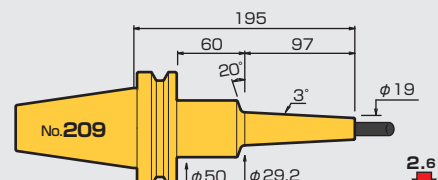
BT50-SLSB12-195-M67



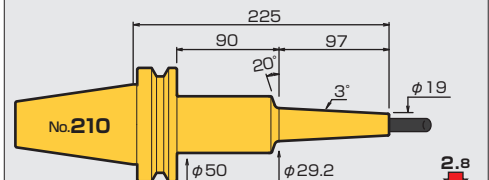
BT50-SLSB12-165-M97



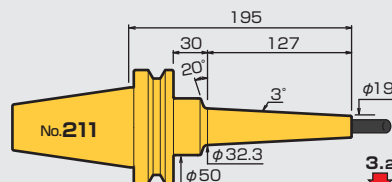
BT50-SLSB12-195-M97



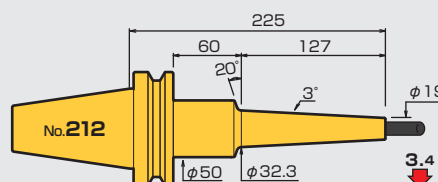
BT50-SLSB12-225-M97



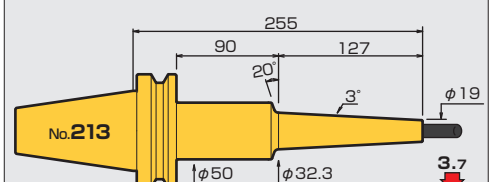
BT50-SLSB12-195-M127

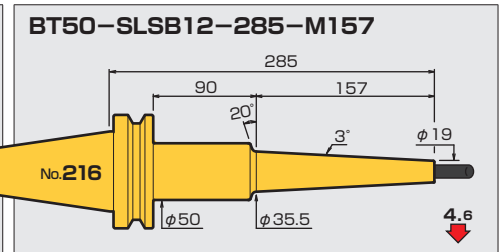
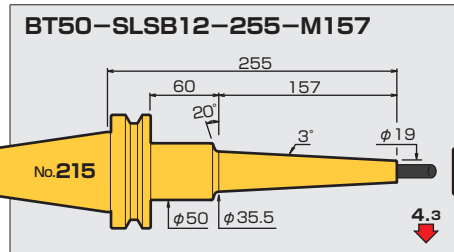
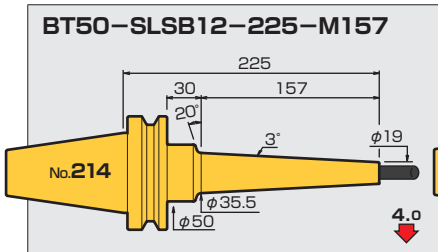


BT50-SLSB12-225-M127

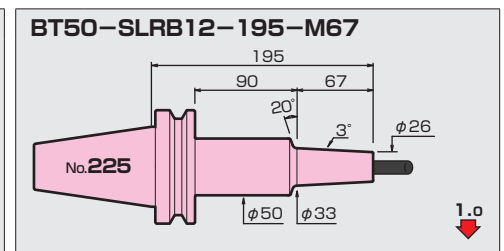
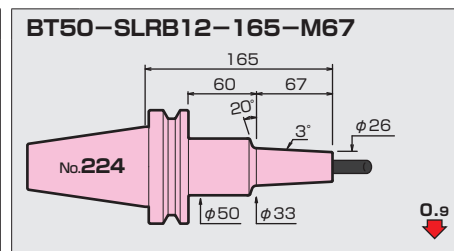
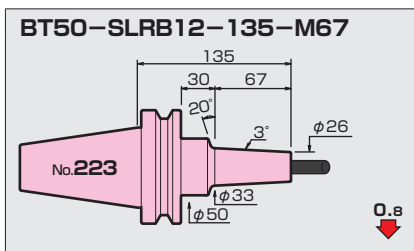
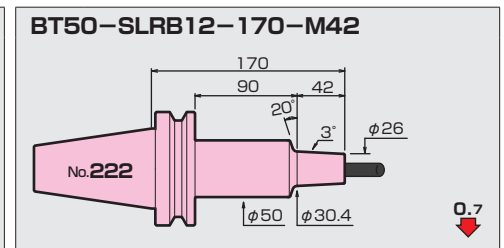
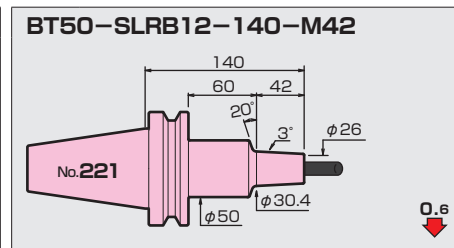
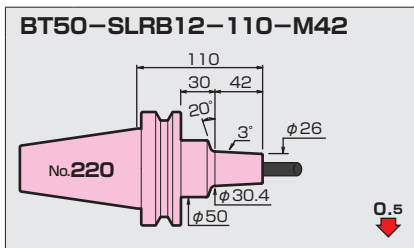
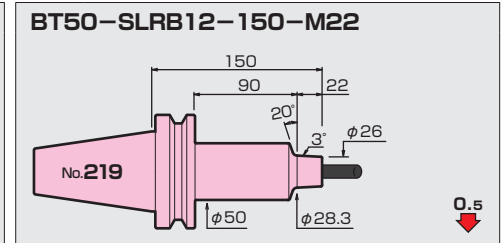
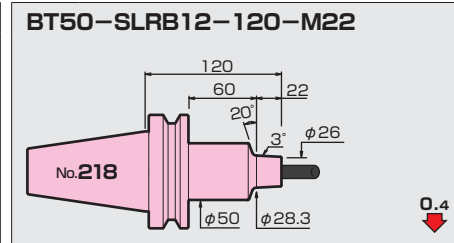
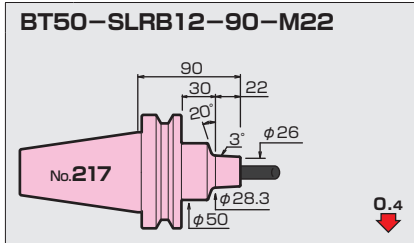


BT50-SLSB12-255-M127

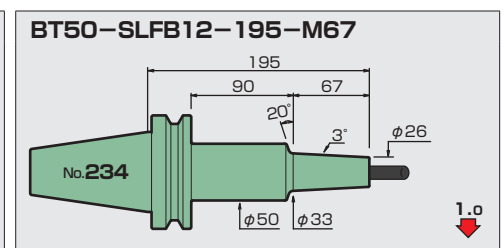
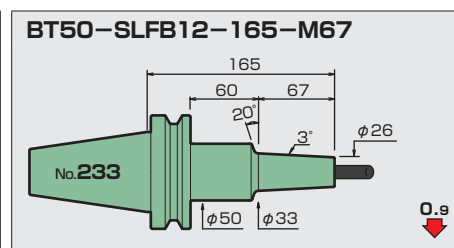
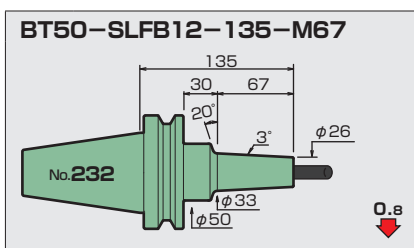
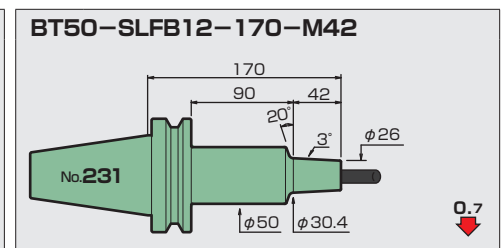
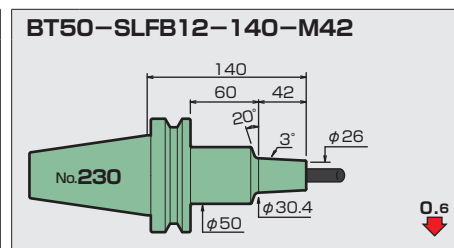
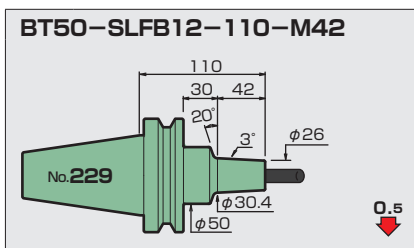
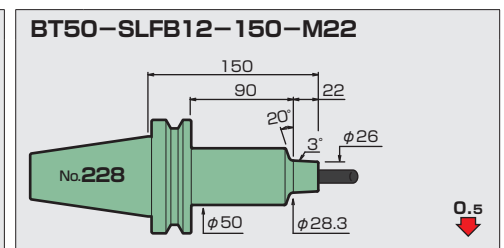
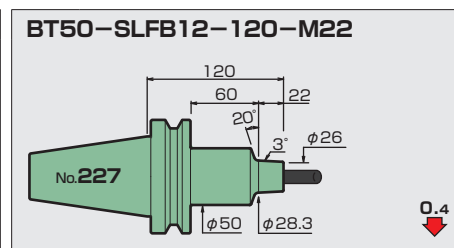
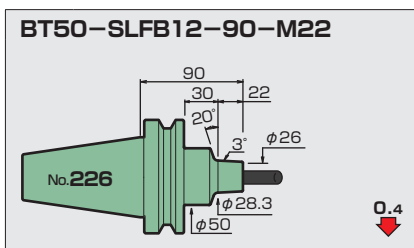




φ12 SLRB t=7

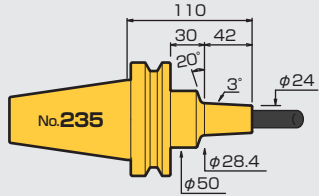


φ12 SLFB t=7

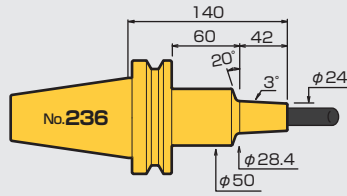


φ16 SLSB t=4

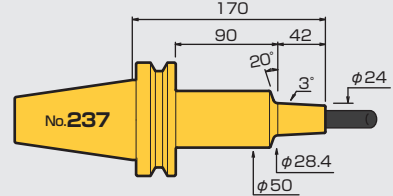
BT50-SLSB16-110-M42



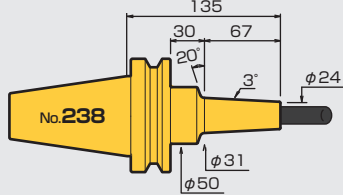
BT50-SLSB16-140-M42



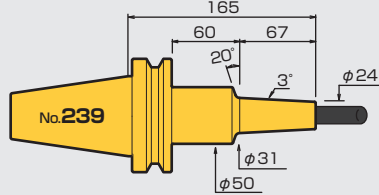
BT50-SLSB16-170-M42



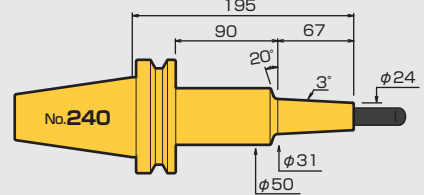
BT50-SLSB16-135-M67



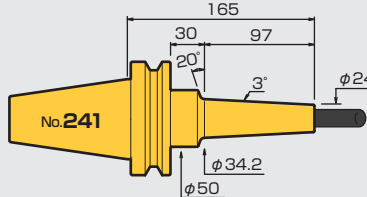
BT50-SLSB16-165-M67



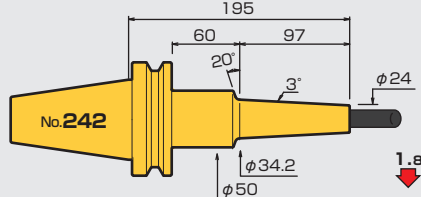
BT50-SLSB16-195-M67



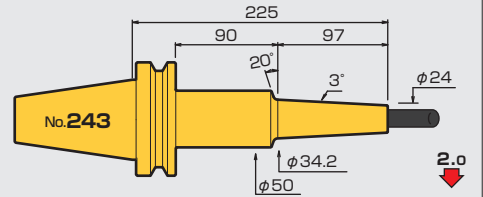
BT50-SLSB16-165-M97



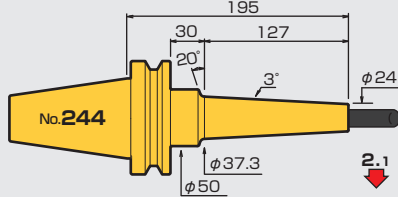
BT50-SLSB16-195-M97



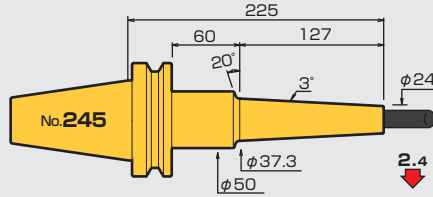
BT50-SLSB16-225-M97



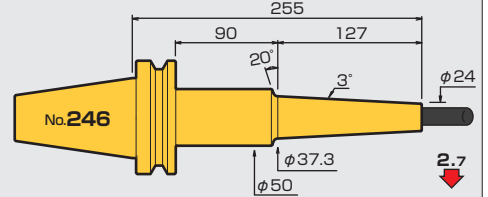
BT50-SLSB16-195-M127



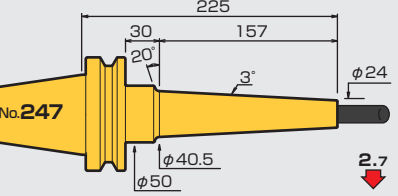
BT50-SLSB16-225-M127



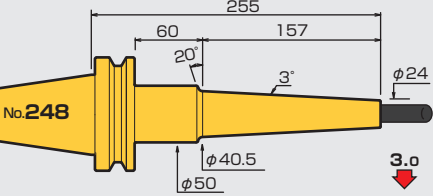
BT50-SLSB16-255-M127



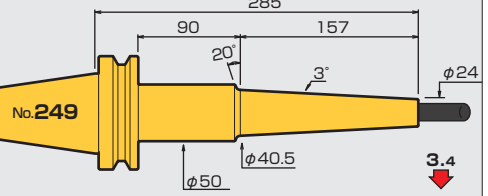
BT50-SLSB16-225-M157



BT50-SLSB16-255-M157

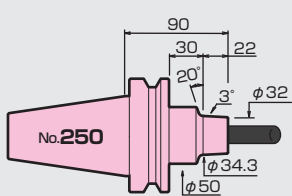


BT50-SLSB16-285-M157

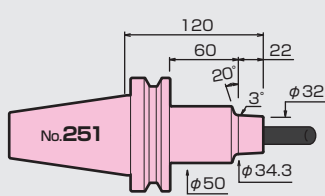


φ16 SLRB t=8

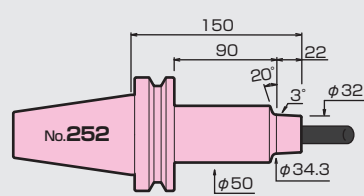
BT50-SLRB16-90-M22



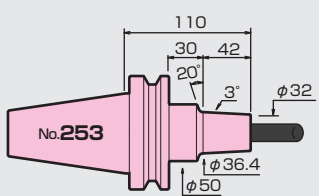
BT50-SLRB16-120-M22



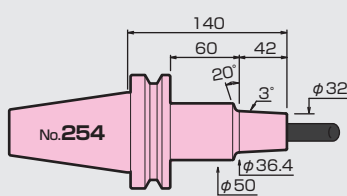
BT50-SLRB16-150-M22



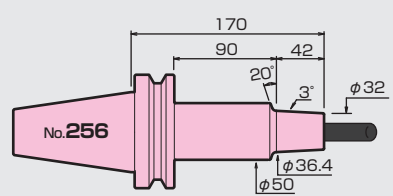
BT50-SLRB16-110-M42

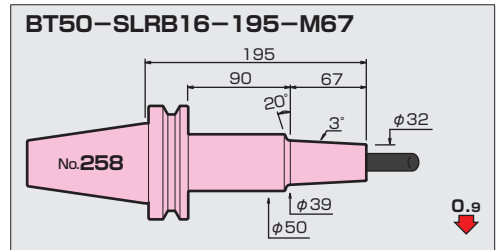
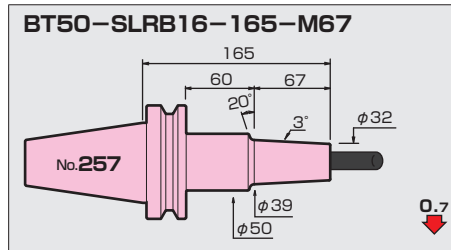
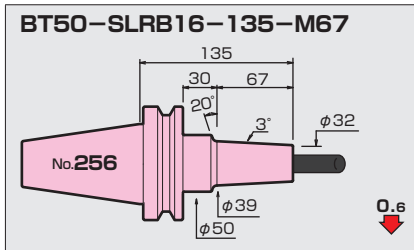


BT50-SLRB16-140-M42

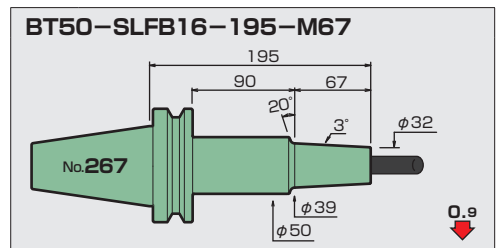
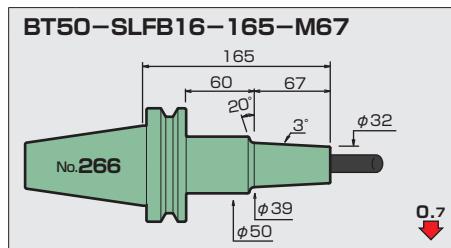
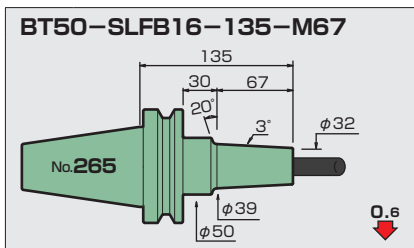
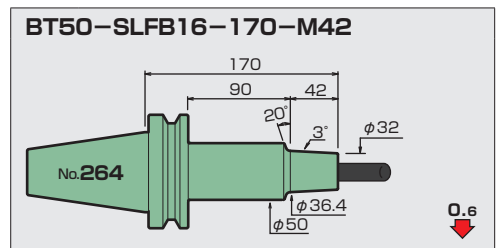
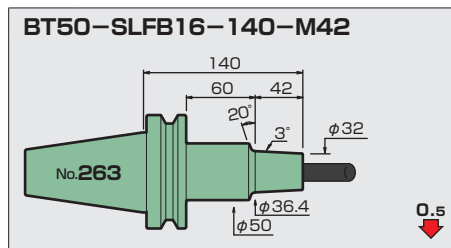
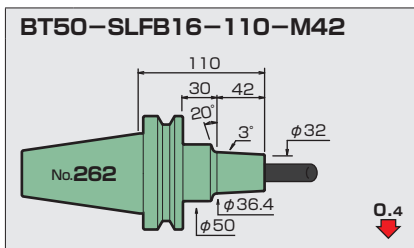
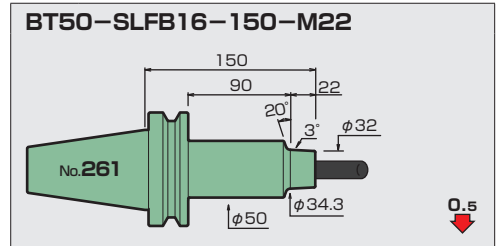
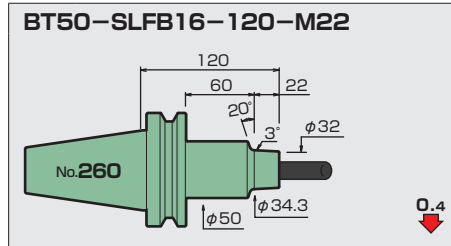
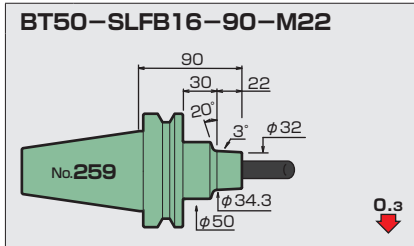


BT50-SLRB16-170-M42



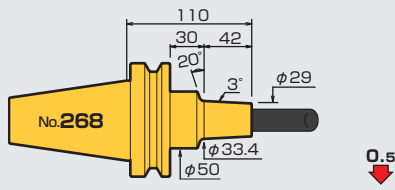


$\phi 16$ SLFB t=8

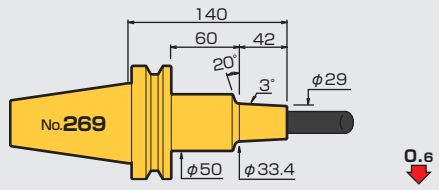


φ20 SLSB t=4.5

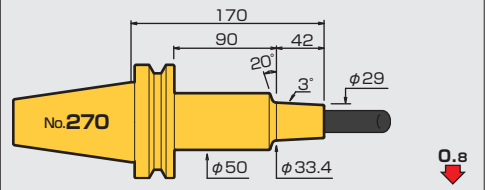
BT50-SLSB20-110-M42



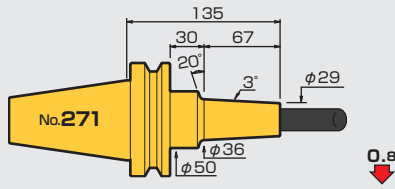
BT50-SLSB20-140-M42



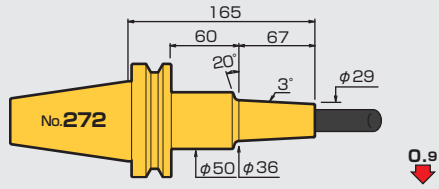
BT50-SLSB20-170-M42



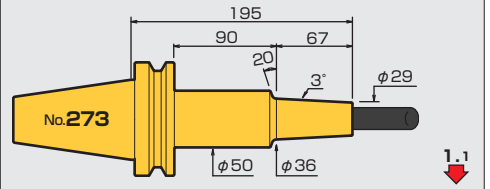
BT50-SLSB20-135-M67



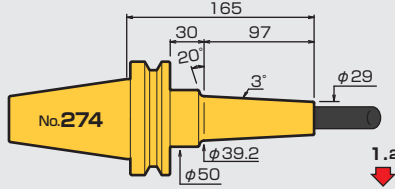
BT50-SLSB20-165-M67



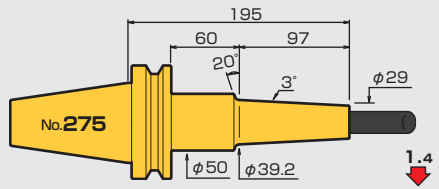
BT50-SLSB20-195-M67



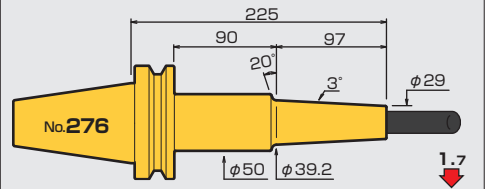
BT50-SLSB20-165-M97



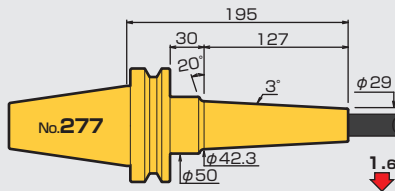
BT50-SLSB20-195-M97



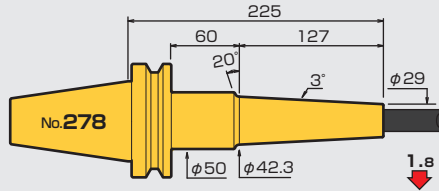
BT50-SLSB20-225-M97



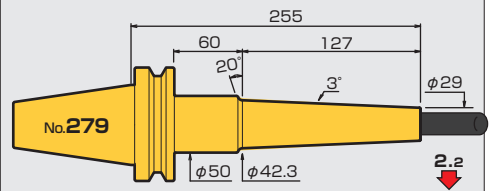
BT50-SLSB20-195-M127



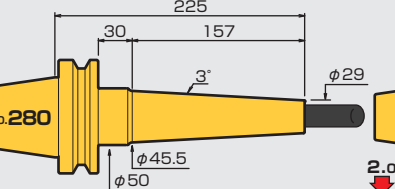
BT50-SLSB20-225-M127



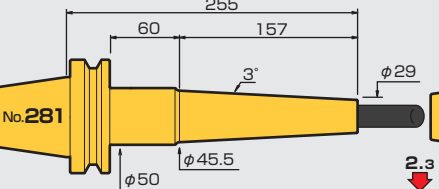
BT50-SLSB20-255-M127



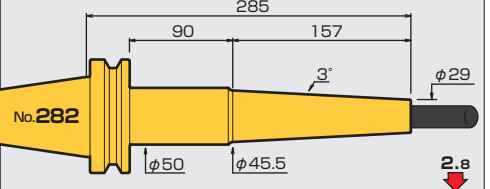
BT50-SLSB20-225-M157



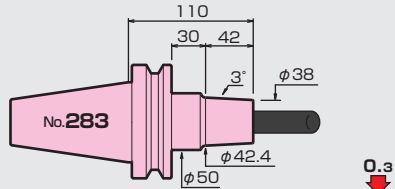
BT50-SLSB20-255-M157



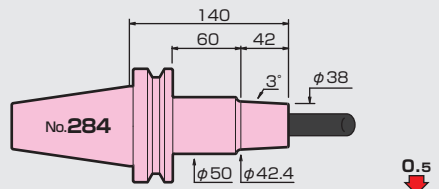
BT50-SLSB20-285-M157


φ20 SLRB t=9

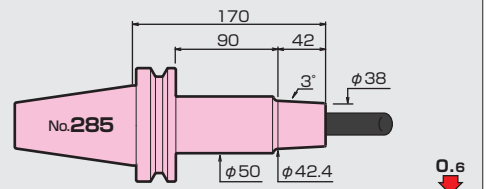
BT50-SLRB20-110-M42



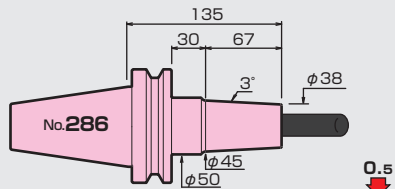
BT50-SLRB20-140-M42



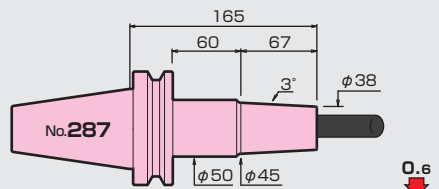
BT50-SLRB20-170-M42



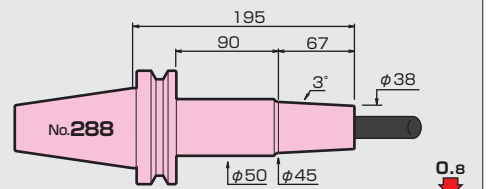
BT50-SLRB20-135-M67

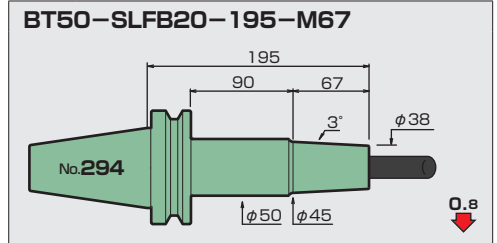
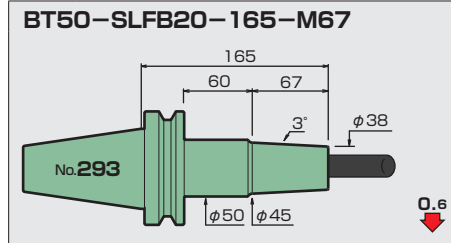
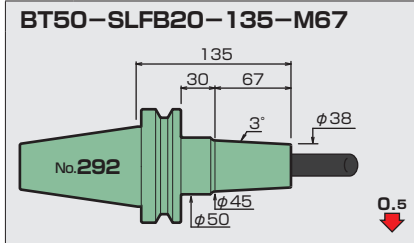
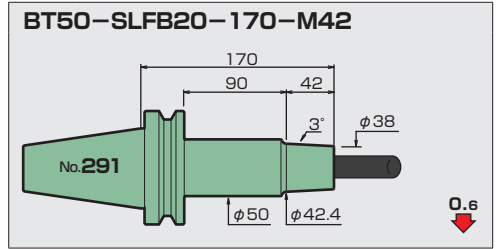
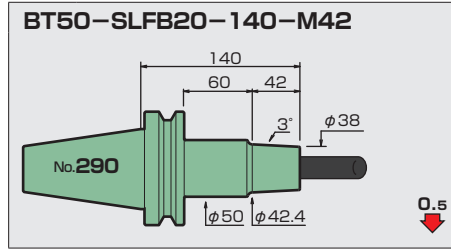
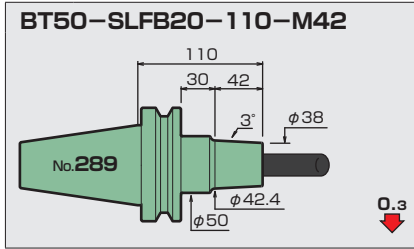
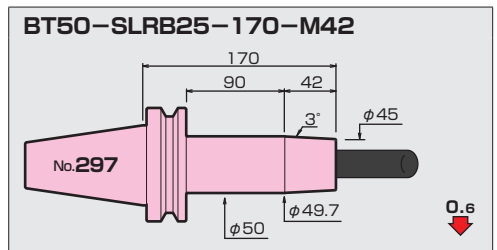
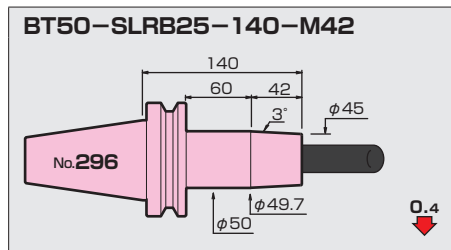
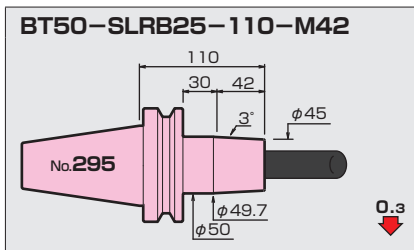
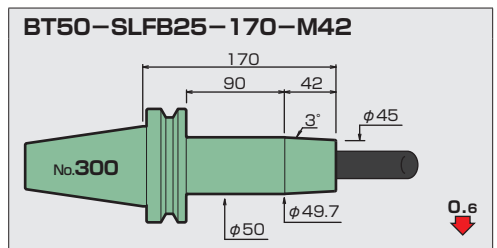
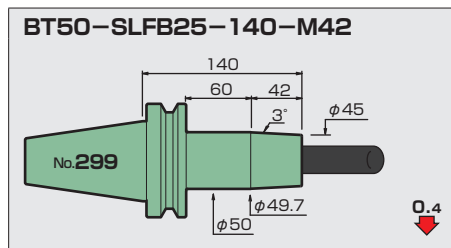
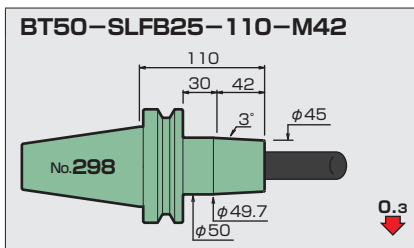


BT50-SLRB20-165-M67



BT50-SLRB20-195-M67



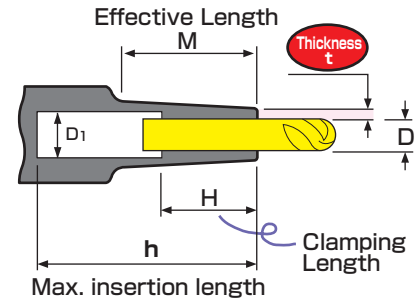
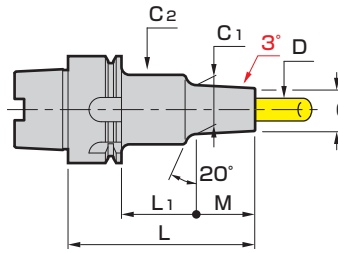
φ20 SLFB t=9

φ25 SLRB t=10

φ25 SLFB t=10


A40

Rigidity Value
($\mu\text{m/kgf}$)
(Reference) P.159

Balance Value
(g · mm)
(Reference) P.158

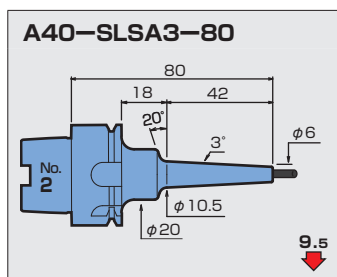
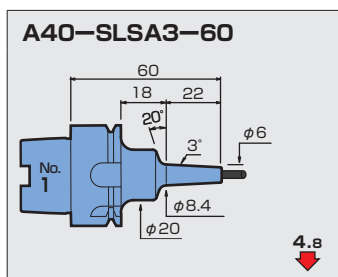
A40-SLRA10-65



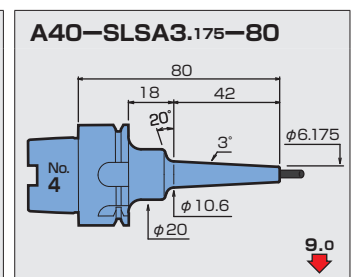
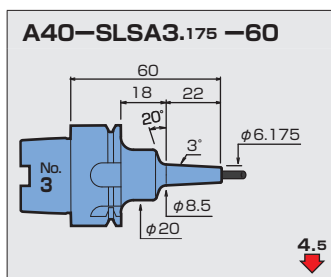
CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
A40-SLSA 3-60	3	6	1.5	60	22	18	8.4	20	4	9	44	0.2	1.3	4.8	1
-80				80	42		10.5				64		1.4	9.5	2
A40-SLSA3.175-60	3.175	6.175	1.5	60	22	18	8.5	20	4	9	44	0.2	1.4	4.5	3
-80				80	42		10.6				64			9.0	4
A40-SLSA 4-60	4	7	1.5	60	22	18	9.4	20	5	12	44	0.2	1.4	3.8	5
-80				80	42		11.5				64			7.5	6
A40-SLSA 5-60	5	8	1.5	60	22	18	10.4	20	6	15	34	0.2	1.4	3.0	7
-80				80	42		12.5				54		1.5	6.1	8
A40-SLSA 6-60	6	9	1.5	60	22	18	11.4	20	6.6	18	40	0.2	1.4	2.4	9
-80				80	42		13.5		7		54		1.5	5.1	10
-SLRA 6-60		12	3	60	22		14.4	26	6.6		39	0.3	1.4	1.3	11
A40-SLSA 8-70	8	11	1.5	70	22	28	13.4	26	8.6	24	49	0.3	1.6	1.6	12
-90				90	42		15.5				64		1.8	3.5	13
-SLRA 8-60		14	3	60	22	18	16.4				39		1.5	1.0	14
A40-SLSA10-70	10	13	1.5	70	22	28	15.4	26	10.6	30	49	0.3	1.7	1.3	15
-90				90	42		17.5				64		1.9	2.6	16
-SLRA10-65		16	3	65	22	23	18.4				44		1.6	0.9	17
A40-SLRA12-65	12	20	4	65	22	23	22.4	30	12.6	30	44	0.3	1.7	0.7	18
A40-SLRA16-65	16	26	5	65	22	23	28.4	33.5	16.6	32	44	0.4	2.0	0.5	19
A40-SLRA20-70	20	32	6	70	50	-	33.5	-	20.6	38	49	0.4	2.4	0.6	20

HSK-A40 Scale Model S=1:3

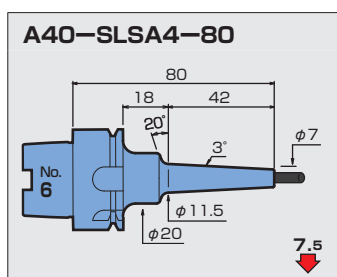
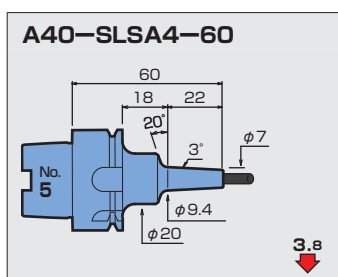
$\phi 3$



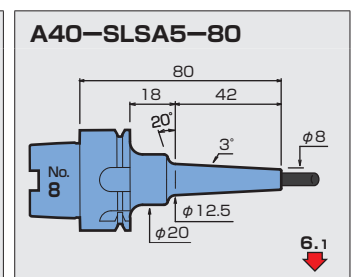
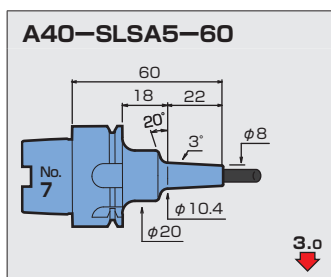
$\phi 3^{175}$



$\phi 4$



$\phi 5$



Technical drawing of a mechanical part (Fig. 1.0) showing dimensions and a red arrow pointing to the number 1.0.

Dimensions and features:

- Overall length: 60
- Section 1: 18
- Section 2: 22
- Angle 1: 20°
- Angle 2: 3°
- Outer diameter (right): $\phi 14$
- Inner diameter (right): $\phi 16.4$
- Outer diameter (left): $\phi 26$
- Label: No. 14
- Red arrow pointing to the number 1.0.

Technical drawing of a bolt with the following dimensions:

- Total length: 65
- Head diameter: $\phi 26$
- Head width: 23
- Neck diameter: $\phi 18.4$
- Neck length: 22
- Thread diameter: $\phi 16$
- Chamfer angle: 20°
- Thread angle: 3°

A red arrow points to the value 0.9.

Technical drawing of a bolt with the following dimensions:

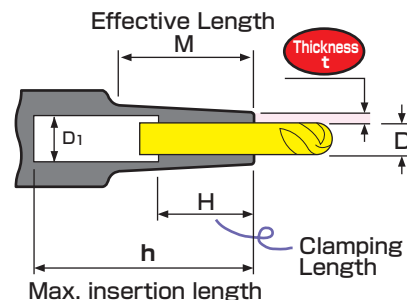
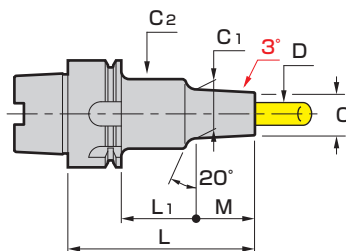
- Total length: 70
- Threaded length: 50
- Chamfer angle: 3°
- Head diameter: $\phi 32$
- Shank diameter: $\phi 33.5$
- Red arrow indicating a tolerance of 0.6

A50

Rigidity Value
($\mu\text{m/kgf}$)
(Reference) P.159



Balance Value
(g · mm)
(Reference) P.158



A50 —SLSA4—95—M42

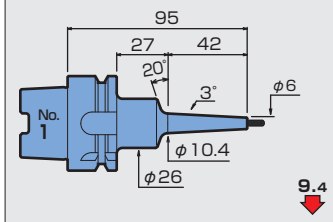
CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
A50 —SLSA 3— 95—M42	3	6	1.5	95	42	27	10.4	26	4	9	69	0.5	5.8	9.4	1
—125—M42				125		57					100	0.6	6.5	10.0	2
—SLRA 3— 75—M22		7.5	2.25	75	22	27	9.8				49	0.5	6.2	2.8	3
— 95—M42				95	42						69		6.6	5.4	4
—125—M42				125		57					100	0.6	7.3	6.0	5
A50 —SLSA 4— 95—M42	4	7	1.5	95	42	27	11.4	26	5	12	69	0.5	7.0	7.3	6
—125—M42				125		57					100	0.6	7.7	8.0	7
—SLRA 4— 75—M22		10	3	75	22	27	12.3				49	0.5	6.3	1.7	8
— 95—M42				95	42						69		7.0	3.1	9
—125—M42				125		57					99	0.6	7.7	3.8	10
A50 —SLSA 6— 95—M42	6	9	1.5	95	42	27	13.4	26	7	18	69	0.5	7.3	4.9	11
—125—M42				125		57					100	0.6	8.0	5.6	12
—SLRB 6— 75—M22		14	4	75	22	27	16.3	36	8		49		7.2	1.0	13
— 95—M42				95	42						69		8.9	1.6	14
—125—M42				125		57					99	0.8	10.2	1.8	15
A50 —SLSA 8— 95—M42	8	11	1.5	95	42	27	15.4	36	9	24	69	0.6	9.3	3.2	16
—125—M42				125		57					98	0.9	11.8	3.5	17
—SLRB 8— 75—M22		18	5	75	22	27	20.3		10		49	0.6	7.9	0.7	18
— 95—M42				95	42						69	0.7	10.5	1.1	19
—125—M42				125		57					99	0.9	11.8	1.3	20
A50 —SLSA10— 95—M42	10	13	1.5	95	42	27	17.4	36	11	30	69	0.6	10.7	2.3	21
—125—M42				125		57					98	0.8	12.1	2.6	22
—SLRB10— 75—M22		22	6	75	22	27	24.3		12		49	0.6	8.3	0.6	23
— 95—M42				95	42						69	0.7	11.9	0.8	24
—125—M42				125		57					98	0.9	13.3	1.1	25
A50M—SLRB12— 75—M22	12	26	7	75	22	27	28.3	49	12.6	30	51	0.8	6.2	0.4	26
— 95—M42				95	42		30.4				71	0.9	6.3	0.6	27
—125—M42				125		57					96	1.2	22.9	0.7	28
A50M—SLRB16— 75—M22	16	32	8	75	22	27	34.3	49	16.6	32	51	0.8	6.3	0.3	29
—105—M22				105		57			18		76	1.1	19.0	0.4	30
A50M—SLRB20— 75—M22	20	38	9	75	22	27	40.3	49	20.6	40	51	0.8	6.4	0.3	31
—105—M22				105		57			22		76	1.2	15.1	0.4	32

MAKINO
J3

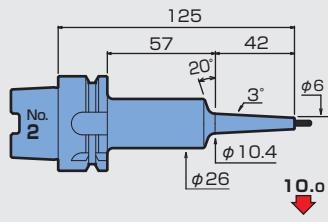


φ3

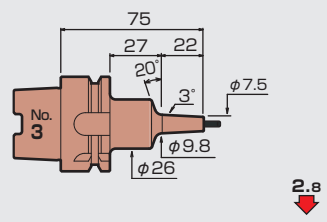
A50-SLSA3-95-M42



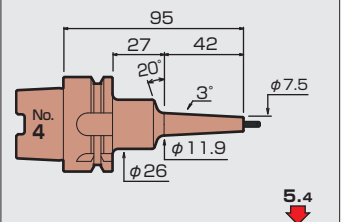
A50-SLSA3-125-M42



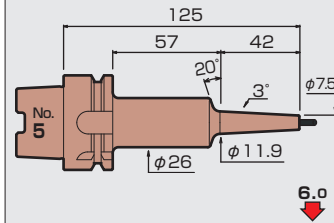
A50-SLRA3-75-M22



A50-SLRA3-95-M42

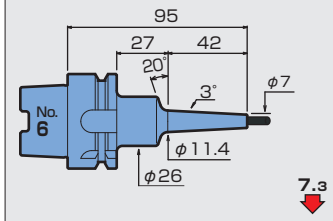


A50-SLRA3-125-M42

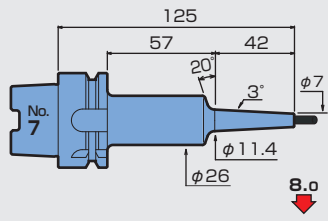


φ4

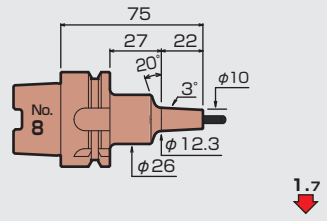
A50-SLSA4-95-M42



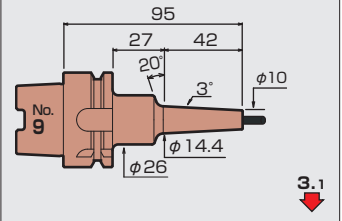
A50-SLSA4-125-M42



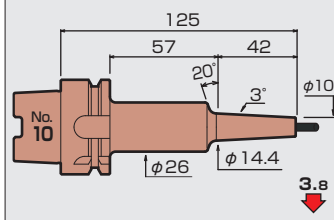
A50-SLRA4-75-M22



A50-SLRA4-95-M42

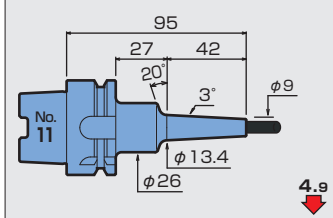


A50-SLRA4-125-M42

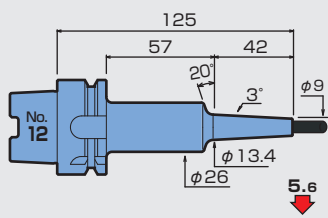


φ6

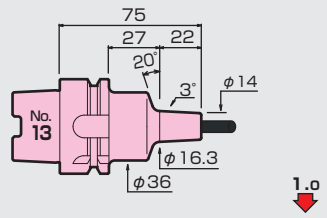
A50-SLSA6-95-M42



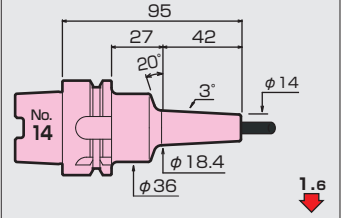
A50-SLSA6-125-M42



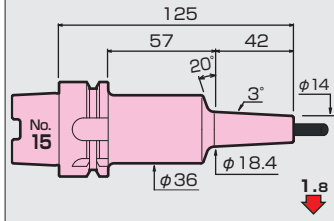
A50-SLRB6-75-M22



A50-SLRB6-95-M42

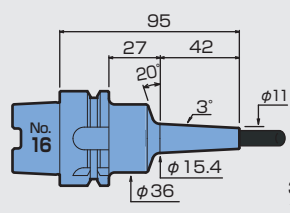


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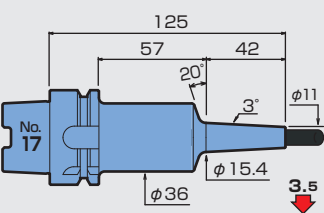


φ8

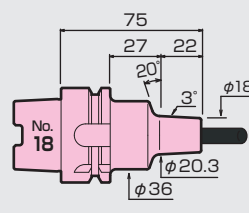
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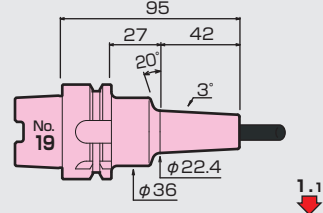
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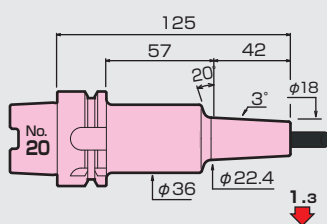
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A50-SLRB8-95-M42

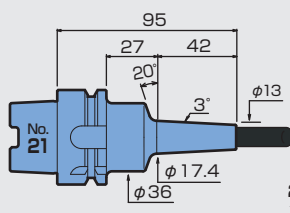


A50-SLRB8-125-M42

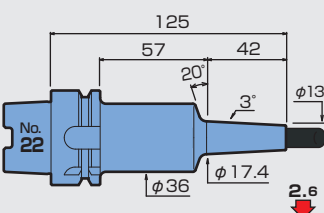


φ10

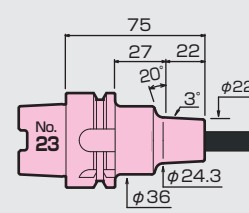
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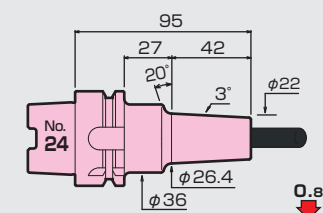
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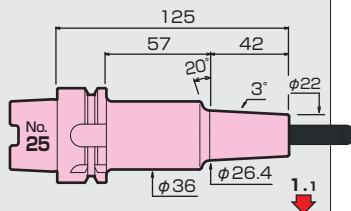
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A50-SLRB10-95-M42

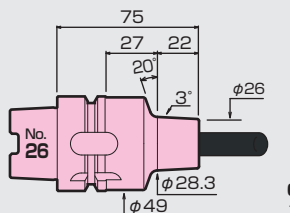


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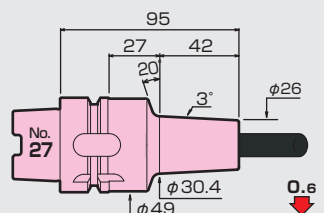


φ12

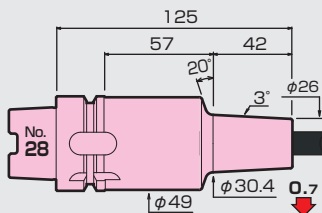
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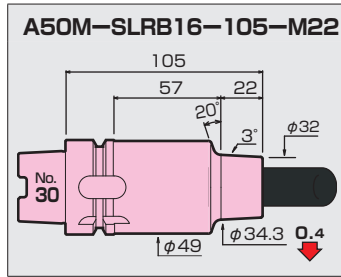
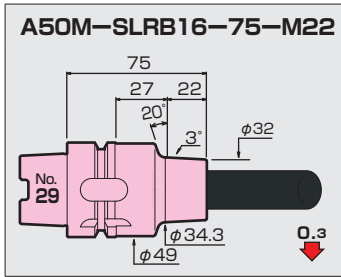
A50M-SLRB12-95-M42



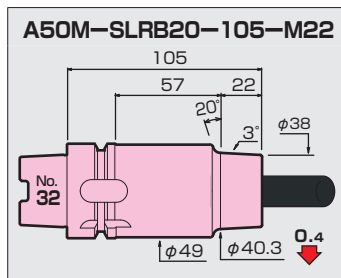
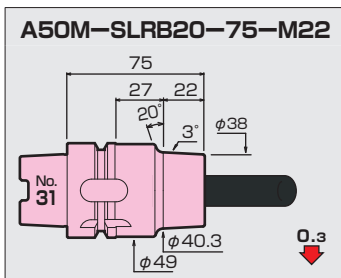
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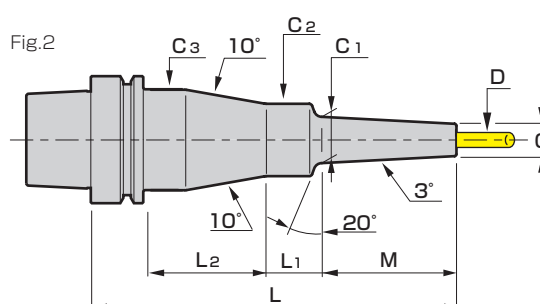
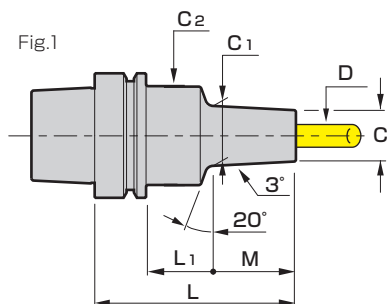
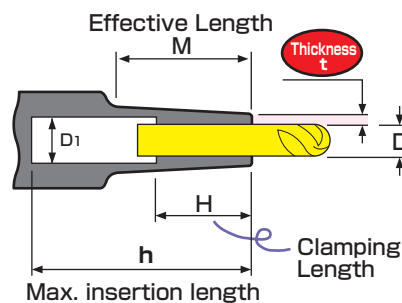
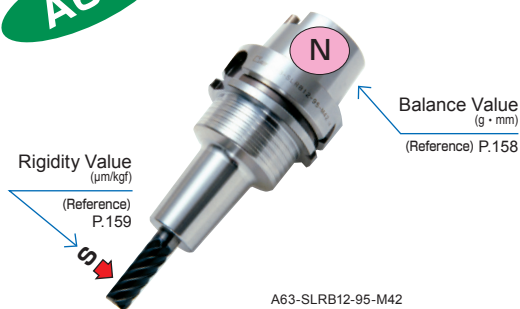
φ16



φ20



A63



CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A63-SLSA 3- 95-M 42	1	3	6	1.5	95	42	27	—	10.4	26	—	4	9	70	0.7	8.1	9.3	1
-120-M 67					120	67			13					95	0.8	9.2	14.9	4
-125-M 42					125	42	57		10.4					100	0.9	8.2	9.6	2
-150-M 67					150	67			13					125		9.3	15.9	5
-M 97					97	27			16.2						0.8	10.5	20.7	7
-155-M 42	2				155	42	33	54	10.4		40			130	1.2	8.4	9.9	3
-180-M 67					180	67			13					155		9.6	15.8	6
-M 97	1					97	57	—	16.2		—				0.9	10.6	22.2	8
-210-M 97	2				210		33	54			40			185	1.2	10.8	22.1	9
-SLRA 3- 75-M 22	1	3	7.5	2.25	75	22	27	—	9.8	26	—	5	9	50	0.7	8.4	2.8	10
- 95-M 42					95	42			11.9					70	0.8	8.9	5.4	13
-105-M 22					105	22	57		9.8					80	0.9	8.6	3.2	11
-120-M 67					120	67	27		14.5					95	0.8	9.6	8.9	16
-125-M 42					125	42	57		11.9					100	0.9	9.0	6.0	14
-135-M 22	2				135	22	33	54	9.8		40			110	1.1	8.8	3.2	12
-150-M 67	1				150	67	57	—	14.5		—			125	0.9	9.8	9.8	17
-M 97						97	27		17.7						0.8	10.6	12.9	19
-155-M 42	2				155	42	33	54	11.9		40			130	1.2	9.2	6.0	15
-180-M 67					180	67			14.5					155		10.0	9.8	18
-M 97	1					97	57	—	17.7		—				0.9	10.8	14.4	20
-M127					127	27			20.8	36					1.0	12.6	15.7	22
-210-M 97	2				210	97	33	54	17.7	26	40			185	1.2	11.0	14.3	21
-M127	1					127	57	—	20.8	36	—					12.8	16.2	23
-240-M127	2				240		28	59			50			215	1.7	13.2	16.3	24
-SLFB 3- 75-M 22	1	3	9.5	3.25	75	22	27	—	11.8	26	—	5	9	50	0.7	8.1	1.9	25
- 95-M 42					95	42			13.9					70	0.8	8.5	3.3	28
-105-M 22					105	22	57		11.8					80	0.9	8.2	2.3	26
-120-M 67					120	67	27		16.5					95	0.8	9.7	5.3	31
-125-M 42					125	42	57		13.9					100	0.9	8.7	3.8	29
-135-M 22	2				135	22	33	54	11.8		40			110	1.2	8.5	2.3	27
-150-M 67	1				150	67	57	—	16.5		—			125	0.9	9.8	6.3	32
-155-M 42	2				155	42	33	54	13.9		40			130	1.2	8.9	3.8	30
-180-M 67					180	67			16.5					155		10.0	6.3	33

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A63-SLSA 4- 95-M 42	1	4	7	1.5	95	42	27	—	11.4	26	—	5	12	70	0.8	9.2	7.3	34
-120-M 67					120	67			14					95			11.9	37
-125-M 42					125	42	57		11.4					100	0.9	9.4	7.9	35
-150-M 67					150	67			14					125			12.8	38
-M 97					97	27			17.2						0.8	10.6	16.7	40
-155-M 42	2				155	42	33	54	11.4		40			130	1.2	9.6	7.9	36
-180-M 67					180	67			14					155			12.8	39
-M 97	1					97	57	—	17.2		—				0.9	10.8	18.2	41
-210-M 97	2				210		33	54			40			185	1.2	11.0	18.1	42
-SLRA 4- 75-M 22	1	4	10	3	75	22	27	—	12.3	26	—	6	12	50	0.7	8.6	1.7	43
- 95-M 42					95	42			14.4					70	0.8	9.2	3.1	46
-105-M 22					105	22	57		12.3					80	0.9	8.7	2.1	44
-120-M 67					120	67	27		17					95	0.8	10.3	5.1	49
-125-M 42					125	42	57		14.4					100	0.9	9.3	3.7	47
-135-M 22	2				135	22	33	54	12.3		40			110	1.2	8.9	2.1	45
-150-M 67	1				150	67	57	—	17		—			125	0.9	10.4	6.1	50
-M 97					97	27			20.2							11.7	7.7	52
-155-M 42	2				155	42	33	54	14.4		40			130	1.2	9.6	3.7	48
-180-M 67					180	67			17					155		10.7	6.1	51
-M 97	1					97	57	—	20.2		—				1.0	11.8	9.2	53
-M127					127	27			23.3	36						14.8	9.3	55
-210-M 97	2				210	97	33	54	20.2	26	40			185	1.3	12.1	9.1	54
-M127	1					127	57	—	23.3	36	—				1.2	15.1	9.9	56
-240-M127	2				240		27	59			50			215	1.7	15.4		57
-SLFB 4- 75-M 22	1	4	12	4	75	22	27	—	14.3	26	—	6	12	50	0.8	8.4	1.3	58
- 95-M 42					95	42			16.4					70		9.0	2.2	61
-105-M 22					105	22	57		14.3					80	0.9	8.5	1.7	59
-120-M 67					120	67	27		19					95	0.8	10.3	3.5	64
-125-M 42					125	42	57		16.4					100	0.9	9.1	2.8	62
-135-M 22	2				135	22	37	54	14.3		40			110	1.2	8.7	1.7	60
-150-M 67	1				150	67	57	—	19		—			125	0.9	10.4	4.5	65
-155-M 42	2				155	42	33	54	16.4		40			130	1.2	9.4	2.8	63
-180-M 67					180	67			19					155		10.6	4.5	66
A63-SLSA 6- 95-M 42	1	6	9	1.5	95	42	27	—	13.4	26	—	7	18	70	0.8	9.5	4.8	67
-120-M 67					120	67			16					95		11.1	7.9	70
-125-M 42					125	42	57		13.4					100	0.9	9.7	5.5	68
-150-M 67					150	67			16					125		11.2	9.1	71
-M 97					97	27			19.2	36						13.4	11.0	73
-155-M 42	2				155	42	33	54	13.4	26	40			130	1.2	9.9	5.5	69
-180-M 67					180	67			16					155		11.5	9.0	72
-M 97	1					97	57	—	19.2	36	—				1.1	13.6	11.4	74
-210-M 97	2				210		28	59			50			185	1.6	14.0	11.5	75
-SLSB 6- 95-M 42	1	6	10	2	95	42	27	—	14.4	26	—	8	18	70	0.8	10.5	3.8	76
-120-M 67					120	67			17					95		12.6	6.3	79
-125-M 42					125	42	57		14.4					100	0.9	10.6	4.5	77
-150-M 67					150	67			17					125		12.7	7.4	80
-M 97					97	27			20.2	36						15.4	8.9	82
-155-M 42	2				155	42	34	54	14.4	26	40			130	1.2	10.9	4.5	78
-180-M 67					180	67			17					155		12.9	7.4	81
-M 97	1					97	57	—	20.2	36	—				1.1	15.7	9.3	83
-M127					127	27			23.3						1.0	17.9	11.4	85
-210-M 97	2				210	97	28	59	20.2		50			185	1.6	16.0	9.3	84
-M127	1					127	57	—	23.3		—				1.2	18.2	12.0	86
-M157						157	27		26.5						1.1	20.4	13.6	88
-240-M127	2				240	127	28	59	23.3		50			215	1.7	18.5	12.1	87
-M157	1					157	57	—	26.5		—				1.3	20.7	14.5	89
-270-M157	2				270		28	59			50			245	1.8	21.0		90

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A63-SLRB 6- 75-M 22	1	6	14	4	75	22	27	—	16.3	36	—	8	18	50	0.8	9.3	0.9	91
- 95-M 42					95	42			18.4					70	0.9	10.9	1.6	94
-105-M 22					105	22	57		16.3					80	1.0	9.5	1.1	92
-120-M 67					120	67	27		21					95	0.9	13.0	2.5	97
-125-M 42					125	42	57		18.4					100	1.1	11.2	1.8	95
-135-M 22	2				135	22	28	59	16.3		50			110	1.6	9.9	1.1	93
-150-M 67	1				150	67	57	—	21		—			125	1.1	13.2	2.8	98
-155-M 42	2				155	42	28	59	18.4		50			130	1.6	11.5	1.8	96
-180-M 67					180	67			21					155		13.6	2.9	99
-SLFB 6- 75-M 22	1	6	14	4	75	22	27	—	16.3	36	—	8	18	50	0.8	9.3	0.9	100
- 95-M 42					95	42			18.4					70	0.9	10.9	1.6	103
-105-M 22					105	22	57		16.3					80	1.0	9.5	1.1	101
-120-M 67					120	67	27		21					95	0.9	13.0	2.5	106
-125-M 42					125	42	57		18.4					100	1.1	11.2	1.8	104
-135-M 22	2				135	22	28	59	16.3		50			110	1.6	9.9	1.1	102
-150-M 67	1				150	67	57	—	21		—			125	1.1	13.2	2.8	107
-155-M 42	2				155	42	28	59	18.4		50			130	1.6	11.5	1.8	105
-180-M 67					180	67			21					155		13.6	2.9	108
A63-SLSA 8- 95-M 42	1	8	11	1.5	95	42	27	—	15.4	36	—	9	24	70	0.8	11.4	3.2	109
-120-M 67					120	67			18					95	0.9	14.0	5.4	112
-125-M 42					125	42	57		15.4					100	1.0	11.6	3.4	110
-150-M 67					150	67			18					125	1.1	14.2	5.7	113
-M 97						97	27		21.2						0.9	17.1	7.8	115
-155-M 42	2				155	42	28	59	15.4		50			130	1.5	12.0	3.4	111
-180-M 67					180	67			18					155	1.6	14.6	5.7	114
-M 97	1					97	57	—	21.2		—				1.1	17.4	8.3	116
-210-M 97	2				210		28	59			50			185	1.6	17.7		117
-SLSB 8- 95-M 42	1	8	13	2.5	95	42	27	—	17.4	36	—	10	24	70	0.8	12.5	2.1	118
-120-M 67					120	67			20					95	0.9	15.7	3.5	121
-125-M 42					125	42	57		17.4					100	1.1	12.7	2.3	119
-150-M 67					150	67			20					125		15.9	3.9	122
-M 97						97	27		23.2						1.0	19.5	5.2	124
-155-M 42	2				155	42	28	59	17.4		50			130	1.6	13.1	2.3	120
-180-M 67					180	67			20					155		16.3	3.9	123
-M 97	1					97	57	—	23.2		—				1.2	19.8	5.7	125
-180-M127						127	27		26.3						1.1	23.4	7.0	127
-210-M 97	2				210	97		59	23.2		50			185	1.7	20.2	5.7	126
-M127	1					127	57	—	26.3		—				1.3	23.7	7.7	128
-M157						157	27		29.5						1.2	27.3	8.5	130
-240-M127	2				240	127	28	59	26.3		50			215	1.8	24.0	7.7	129
-M157	1					157	57	—	29.5		—				1.4	27.5	9.4	131
-270-M157	2				270		28	59			50			245	1.9	27.9	9.5	132
-SLRB 8- 75-M 22	1	8	18	5	75	22	27	—	20.3	36	—	10	24	50	0.9	10.0	0.7	133
- 95-M 42					95	42			22.4					70		12.5	1.0	136
-105-M 22					105	22	57		20.3					80	1.1	10.2	0.8	134
-120-M 67					120	67	27		25					95	1.0	15.7	1.6	139
-125-M 42					125	42	57		22.4					100	1.1	12.8	1.2	137
-135-M 22	2				135	22	28	59	20.3		50			110	1.6	10.6	0.8	135
-150-M 67	1				150	67	57	—	25		—			125	1.2	16.0	1.9	140
-155-M 42	2				155	42	28	59	22.4		50			130	1.6	13.2	1.3	138
-180-M 67					180	67			25					155	1.7	16.4	2.0	141
-SLFB 8- 75-M 22	1	8	18	5	75	22	27	—	20.3	36	—	10	24	50	0.9	10.0	0.7	142
- 95-M 42					95	42			22.4					70		12.5	1.0	145
-105-M 22					105	22	57		20.3					80	1.1	10.2	0.8	143
-120-M 67					120	67	27		25					95	1.0	15.7	1.6	148
-125-M 42					125	42	57		22.4					100	1.1	12.8	1.2	146
-135-M 22	2				135	22	28	59	20.3		50			110	1.6	10.6	0.8	144
-150-M 67	1				150	67	57	—	25		—			125	1.2	16.0	1.9	149
-155-M 42	2				155	42	28	59	22.4		50			130	1.6	13.2	1.3	147
-180-M 67					180	67			25					155	1.7	16.4	2.0	150

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CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A63-SLSA10- 95-M 42	1	10	13	1.5	95	42	27	—	17.4	36	—	11	30	68	0.8	12.8	2.3	151
-120-M 67					120	67			20					93	0.9	16.6	4.0	154
-125-M 42					125	42	57		17.4					98	1.0	13.0	2.5	152
-150-M 67					150	67			20					123	1.1	16.9	4.3	155
-M 97					97	27			23.2						1.0	21.3	5.9	157
-155-M 42	2				155	42	28	59	17.4		50			128	1.6	13.4	2.5	153
-180-M 67					180	67			20					153		17.3	4.4	156
-M 97	1					97	57	—	23.2		—				1.2	21.6	6.4	158
-210-M 97	2				210		28	59			50			183	1.7	21.9	6.5	159
-SLSB10- 95-M 42	1	10	16	3	95	42	27	—	20.4	36	—	12	30	68	0.9	13.9	1.4	160
-120-M 67					120	67			23					93		18.5	2.4	163
-125-M 42					125	42	57		20.4					98	1.1	14.2	1.6	161
-150-M 67					150	67			23					123		18.8	2.7	164
-M 97					97	27			26.2						1.0	24.0	3.5	166
-155-M 42	2				155	42	28	59	20.4		50			128	1.6	14.6	1.7	162
-180-M 67					180	67			23					153		19.2	2.7	165
-M 97	1				97	57	—		26.2		—				1.2	24.3	4.1	167
-M127					127	27			29.3	50					1.3	30.2	4.4	169
-210-M 97	2				210	97	28	59	26.2	36	50			180	1.7	24.7	4.1	168
-M127	1					127	57	—	29.3	50	—				1.6	31.0	4.4	170
-M157						157	27		32.5						1.4	35.7	5.5	172
-240-M127					240	127	87		29.3					215	2.0	31.8	4.9	171
-M157						157	57		32.5						1.8	36.5	5.8	173
-270-M157					270		87							245	2.1	37.4	6.1	174
-SLRB10- 75-M 22	1	10	22	6	75	22	27	—	24.3	36	—	12	30	48	0.9	10.3	0.5	175
- 95-M 42					95	42			26.4					68		14.0	0.8	178
-105-M 22					105	22	57		24.3					78	1.1	10.6	0.7	176
-120-M 67					120	67	27		29					93	1.0	18.6	1.2	181
-125-M 42					125	42	57		26.4					98	1.2	14.2	1.0	179
-135-M 22	2				135	22	28	59	24.3		50			108	1.6	10.9	0.7	177
-150-M 67	1				150	67	57	—	29		—			123	1.3	18.9	1.5	182
-155-M 42	2				155	42	28	59	26.4		50			128	1.7	14.6	1.0	180
-180-M 67					180	67			29					153	1.8	19.2	1.6	183
-SLFB10- 75-M 22	1	10	22	6	75	22	27	—	24.3	36	—	12	30	48	0.9	10.3	0.5	184
- 95-M 42					95	42			26.4					68		14.0	0.8	187
-105-M 22					105	22	57		24.3					78	1.1	10.6	0.7	185
-120-M 67					120	67	27		29					93	1.0	18.6	1.2	190
-125-M 42					125	42	57		26.4					98	1.2	14.2	1.0	188
-135-M 22	2				135	22	28	59	24.3		50			108	1.6	10.9	0.7	186
-150-M 67	1				150	67	57	—	29		—			123	1.3	18.9	1.5	191
-155-M 42	2				155	42	28	59	26.4		50			128	1.7	14.6	1.0	189
-180-M 67					180	67			29					153	1.8	19.2	1.6	192
A63-SLSA12- 95-M 42	1	12	15	1.5	95	42	27	—	19.4	36	—	13	30	68	0.8	15.2	1.8	193
-120-M 67					120	67			22					93	0.9	20.6	3.2	196
-125-M 42					125	42	57		19.4					98	1.0	15.4	2.1	194
-150-M 67					150	67			22					123	1.1	20.8	3.6	197
-M 97					97	27			25.2							27.5	4.8	199
-155-M 42	2				155	42	28	59	19.4		50			128	1.6	15.8	2.1	195
-180-M 67					180	67			22					153		21.2	3.6	198
-M 97	1					97	57	—	25.2		—				1.3	27.8	5.3	200
-210-M 97	2				210		28	59			50			183	1.8	28.2		201

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A63-SLSB12- 95-M 42	1	12	19	3.5	95	42	27	—	23.4	36	—	14	30	68	0.9	16.5	1.1	202
-120-M 67					120	67			26					93	1.0	22.8	1.8	205
-125-M 42					125	42	57		23.4					98	1.1	16.8	1.3	203
-150-M 67					150	67			26					123	1.2	23.1	2.1	206
-M 97						97	27		29.2	50						30.9	2.4	208
-155-M 42	2				155	42	28	59	23.4	36	50			128	1.6	17.2	1.4	204
-180-M 67					180	67			26					153	1.7	23.4	2.2	207
-M 97	1					97	57	—	29.2	50	—			150	1.6	31.7	2.6	209
-M127						127	27		32.3					153	1.4	38.5	3.2	211
-210-M 97					210	97	87		29.2					180	1.9	32.6	2.8	210
-M127						127	57		32.3						1.7	39.3	3.5	212
-M157						157	27		35.5					183	1.6	46.0	4.0	214
-240-M127					240	127	87		32.3					215	2.1	40.1	3.8	213
-M157						157	57		35.5						1.9	46.8	4.3	215
-270-M157					270		87							245	2.2	47.7	4.7	216
-SLRB12- 75-M 22	1	12	26	7	75	22	27	—	28.3	50	—	14	30	48	1.0	14.5	0.4	217
- 95-M 42					95	42			30.4					68	1.1	17.2	0.5	220
-105-M 22					105	22	57		28.3					75	1.4	15.3		218
-120-M 67					120	67	27		33					93	1.2	23.5	0.8	223
-125-M 42					125	42	57		30.4					95	1.5	18.0	0.6	221
-135-M 22					135	22	87		28.3					105	1.7	16.2		219
-150-M 67					150	67	57		33					120		24.3	0.9	224
-155-M 42					155	42	87		30.4					125	1.8	18.9	0.8	222
-180-M 67					180	67			33					150	1.9	25.2	1.1	225
-SLFB12- 75-M 22	1	12	26	7	75	22	27	—	28.3	50	—	14	30	48	1.0	14.5	0.4	226
- 95-M 42					95	42			30.4					68	1.1	17.2	0.5	229
-105-M 22					105	22	57		28.3					75	1.4	15.3		227
-120-M 67					120	67	27		33					93	1.2	23.5	0.8	232
-125-M 42					125	42	57		30.4					95	1.5	18.0	0.6	230
-135-M 22					135	22	87		28.3					105	1.7	16.2		228
-150-M 67					150	67	57		33					120	1.6	24.3	0.9	233
-155-M 42					155	42	87		30.4					125	1.8	18.9	0.8	231
-180-M 67					180	67			33					150	1.9	25.2	1.1	234
A63-SLSB16- 95-M 42	1	16	24	4	95	42	27	—	28.4	50	—	18	32	68	1.1	22.7	0.7	235
-120-M 67					120	67			31					93	1.2	33.0	1.1	238
-125-M 42					125	42	57		28.4					95	1.4	23.5	0.8	236
-150-M 67					150	67			31					120	1.5	33.8	1.2	239
-M 97						97	27		34.2					123	1.3	45.5	1.6	241
-155-M 42					155	42	87		28.4					130	1.7	24.4	0.9	237
-180-M 67					180	67			31					155	1.8	34.7	1.4	240
-M 97						97	57		34.2						1.6	46.3	1.8	242
-M127						127	27		37.3					153	1.5	57.9	2.2	244
-210-M 97					210	97	87		34.2					185	2.0	47.1	2.1	243
-M127						127	57		37.3						1.8	58.7	2.4	245
-M157						157	27		40.5					183	1.7	70.3	2.7	247
-240-M127					240	127	87		37.3					215	2.2	59.5	2.8	246
-M157						157	57		40.5						2.1	71.1	3.1	248
-270-M157					270		87							245	2.4	72.0	3.5	249
-SLRB16- 75-M 22	1	16	32	8	75	22	27	—	34.3	50	—	18	32	48	1.1	14.5	0.3	250
- 95-M 42					95	42			36.4					68	1.2	22.8	0.4	253
-105-M 22					105	22	57		34.3					75	1.4	15.3		251
-120-M 67					120	67	27		39					93		33.2	0.6	256
-125-M 42					125	42	57		36.4					95	1.6	23.6	0.5	254
-135-M 22					135	22	87		34.3					105	1.7	16.2		252
-150-M 67					150	67	57		39					120		34.0	0.7	257
-155-M 42					155	42	87		36.4					125	1.9	24.5		255
-180-M 67					180	67			39					150	2.1	34.9	0.9	258

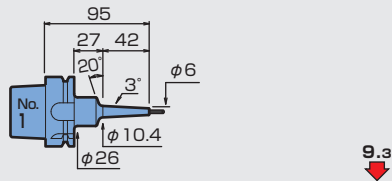
CODE	Fig.	ϕD	ϕC	Thickness t	L	M	L ₁	L ₂	ϕC_1	ϕC_2	ϕC_3	ϕD_1	H	h	Kg	N	S	Scale model
A63-SLFB16- 75-M 22	1	16	32	8	75	22	27	—	34.3	50	—	18	32	48	1.1	14.5	0.3	259
- 95-M 42					95	42			36.4					68	1.2	22.8	0.4	262
-105-M 22					105	22	57		34.3					75	1.4	15.3		260
-120-M 67					120	67	27		39					93		33.2	0.6	265
-125-M 42					125	42	57		36.4					95	1.6	23.6	0.5	263
-135-M 22					135	22	87		34.3					105	1.7	16.2		261
-150-M 67					150	67	57		39					120		34.0	0.7	266
-155-M 42					155	42	87		36.4					125	1.9	24.5		264
-180-M 67					180	67			39					150	2.1	34.9	0.9	267
A63-SLSB20- 95-M 42	1	20	29	4.5	95	42	27	—	33.4	50	—	22	40	68	1.1	25.4	0.5	268
-120-M 67					120	67			36					93	1.2	40.8	0.8	271
-125-M 42					125	42	57		33.4					95	1.4	26.2	0.6	269
-150-M 67					150	67			36					120	1.6	41.6	1.0	272
-M 97						97	27		39.2					123	1.4	59.3	1.2	274
-155-M 42					155	42	87		33.4					130	1.8	27.1	0.8	270
-180-M 67					180	67			36					155	1.9	42.5	1.2	273
-M 97						97	57		39.2						1.7	60.1	1.4	275
-M127						127	27		42.3					153	1.6	79.1	1.6	277
-210-M 97					210	97	87		39.2					185	2.1	61.0	1.7	276
-M127						127	57		42.3						2.0	79.9	1.9	278
-M157						157	27		45.5					183	1.9	97.6	2.0	280
-240-M127					240	127	87		42.3					215	2.3	80.7	2.3	279
-M157						157	57		45.5						2.2	98.4	2.4	281
-270-M157					270		87							245	2.6	99.3	2.8	282
-SLRB20- 95-M 42	1	20	38	9	95	42	27	—	42.4	50	—	22	40	68	1.3	25.6	0.4	283
-120-M 67					120	67			45					93	1.5	41.0	0.5	286
-125-M 42					125	42	57		42.4					95	1.6	26.4		284
-150-M 67					150	67			45					120	1.9	41.8	0.7	287
-155-M 42					155	42	87		42.4					125	2.0	27.2	0.6	285
-180-M 67					180	67			45					150	2.2	42.7	0.9	288
-SLFB20- 95-M 42	1	20	38	9	95	42	27	—	42.4	50	—	22	40	68	1.3	25.6	0.4	289
-120-M 67					120	67			45					93	1.5	41.0	0.5	292
-125-M 42					125	42	57		42.4					95	1.6	26.4		290
-150-M 67					150	67			45					120	1.9	41.8	0.7	293
-155-M 42					155	42	87		42.4					125	2.0	27.2	0.6	291
-180-M 67					180	67			45					150	2.2	42.7	0.9	294
A63-SLRB25- 95-M 42	1	25	45	10	95	42	27	—	49.7	50	—	26	45	68	1.4	28.7	0.3	295
-125-M 42					125		57							95	1.7	29.5	0.5	296
-155-M 42					155		87							125	2.0	30.4	0.7	297
-SLFB25- 95-M 42	1	25	45	10	95	42	27	—	49.7	50	—	26	45	68	1.4	28.7	0.3	298
-125-M 42					125		57							95	1.7	29.5	0.5	299
-155-M 42					155		87							125	2.0	30.4	0.7	300

A63

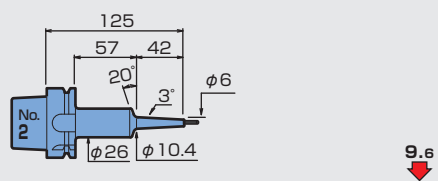
MONO series

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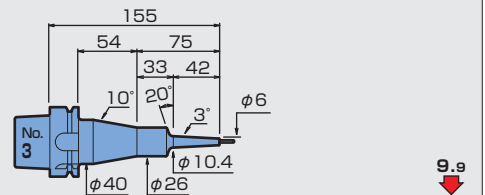
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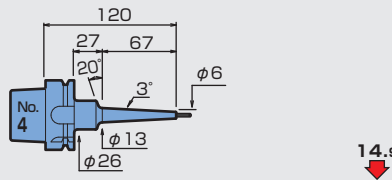
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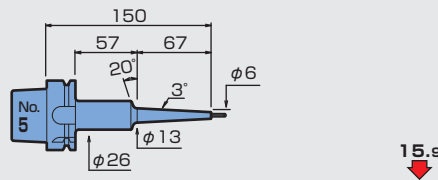
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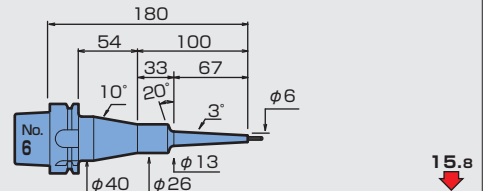
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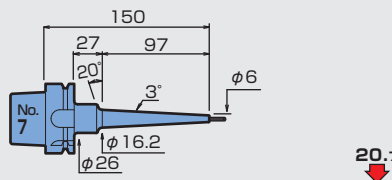
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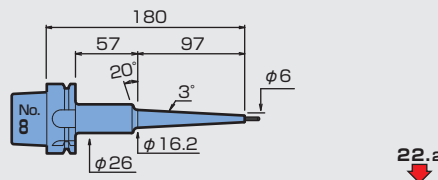
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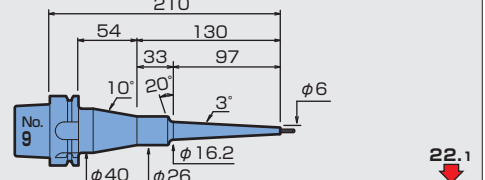
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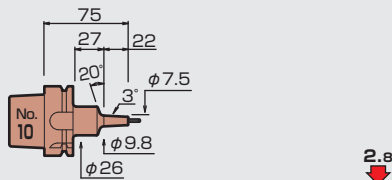


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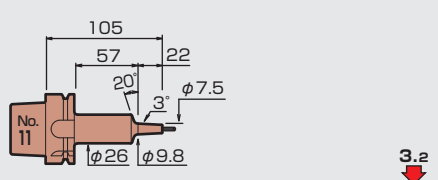


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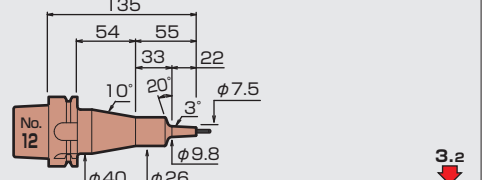
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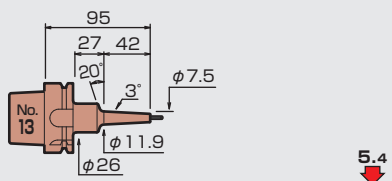
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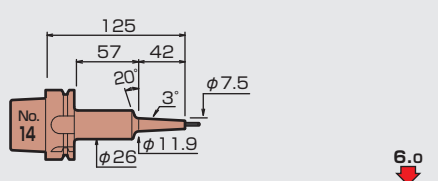
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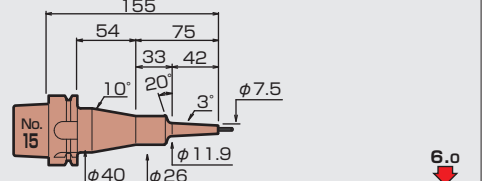
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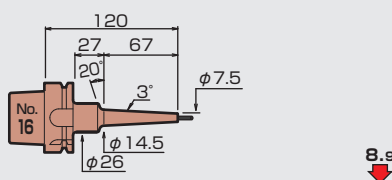
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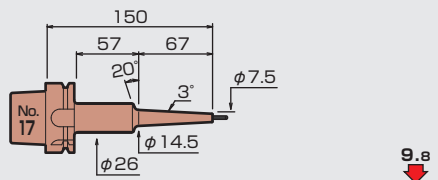
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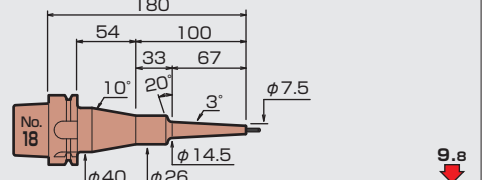
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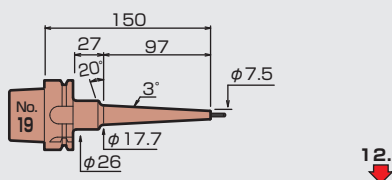
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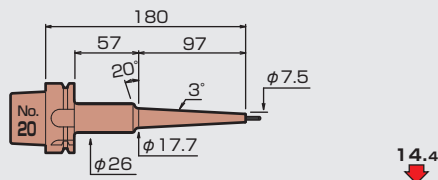
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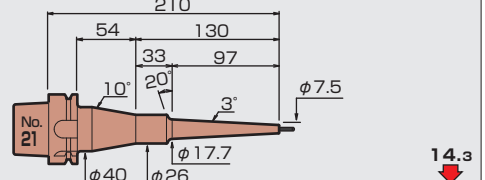
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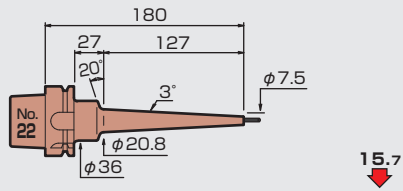
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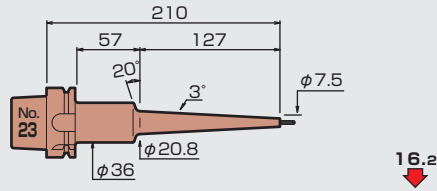
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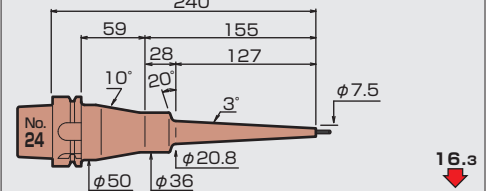
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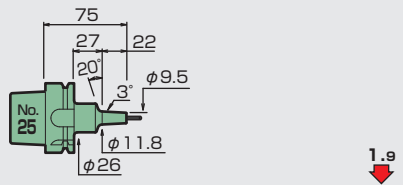


A63-SLRA3-240-M127

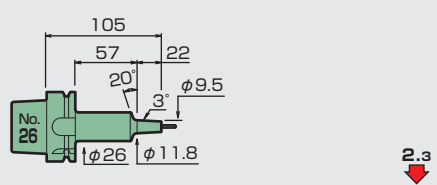


$\phi 3$ SLFB $t=3.25$

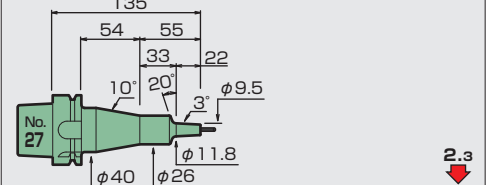
A63-SLFB3-75-M22



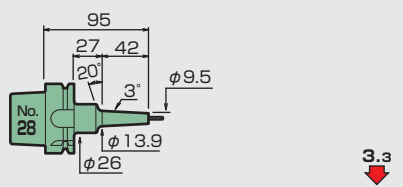
A63-SLFB3-105-M22



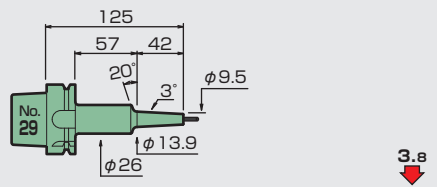
A63-SLFB3-135-M22



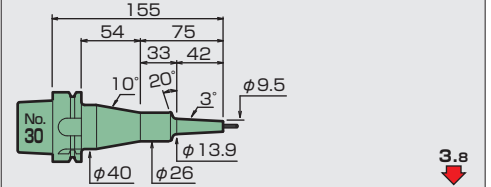
A63-SLFB3-95-M42



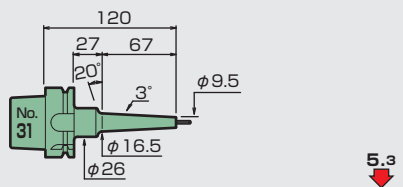
A63-SLFB3-125-M42



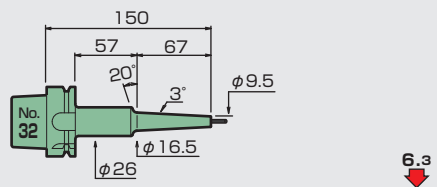
A63-SLFB3-155-M42



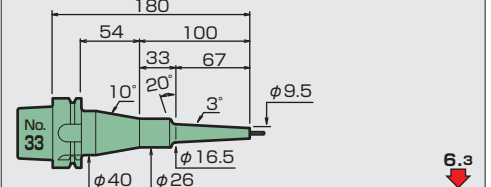
A63-SLFB3-120-M67



A63-SLFB3-150-M67

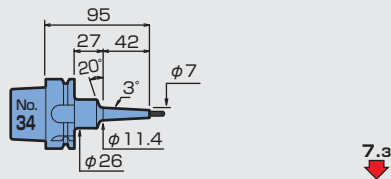


A63-SLFB3-180-M67

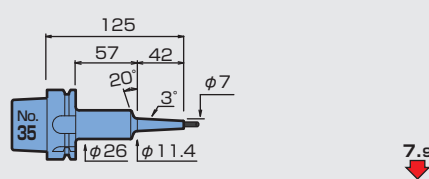


φ4 **SLSA** t=1.5

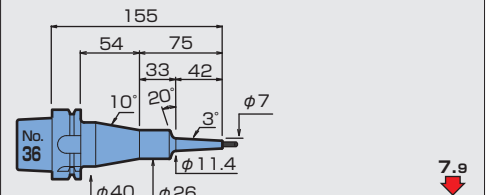
A63-SLSA4-95-M42



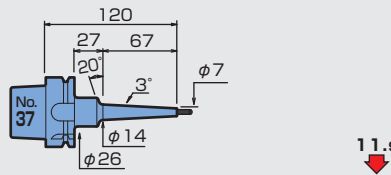
A63-SLSA4-125-M42



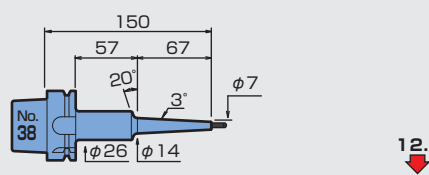
A63-SLSA4-155-M42



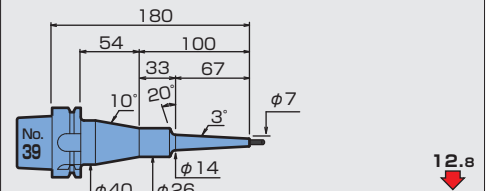
A63-SLSA4-120-M67



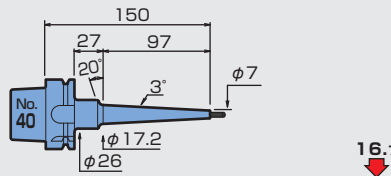
A63-SLSA4-150-M67



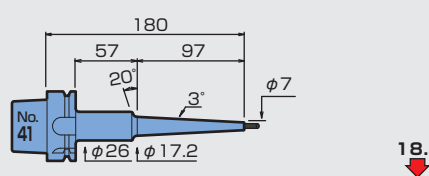
A63-SLSA4-180-M67



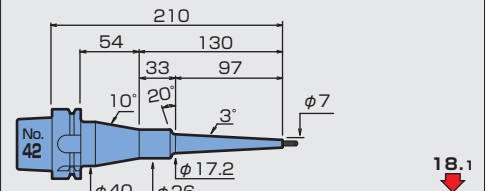
A63-SLSA4-150-M97



A63-SLSA4-180-M97

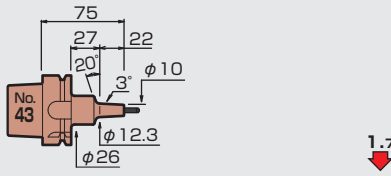


A63-SLSA4-210-M97

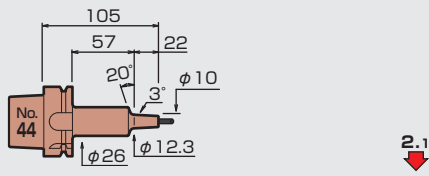


φ4 **SLRA** t=3

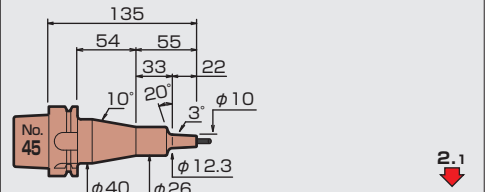
A63-SLRA4-75-M22



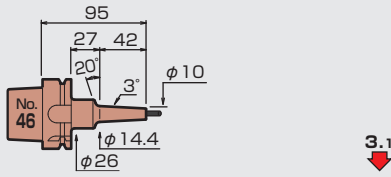
A63-SLRA4-105-M22



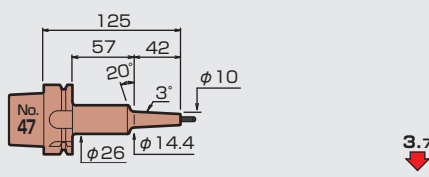
A63-SLRA4-135-M22



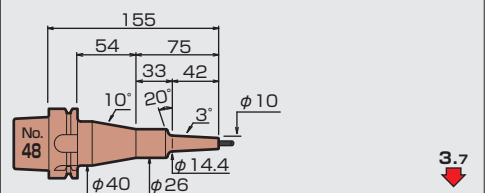
A63-SLRA4-95-M42



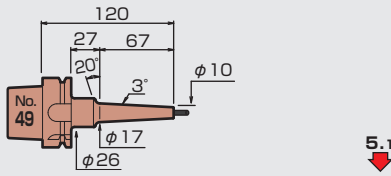
A63-SLRA4-125-M42



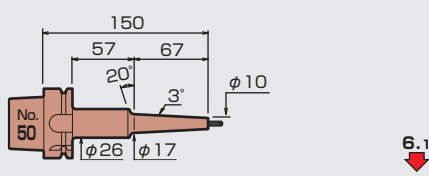
A63-SLRA4-155-M42



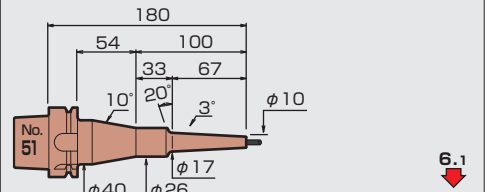
A63-SLRA4-120-M67



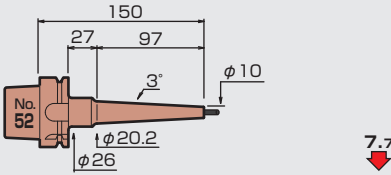
A63-SLRA4-150-M67



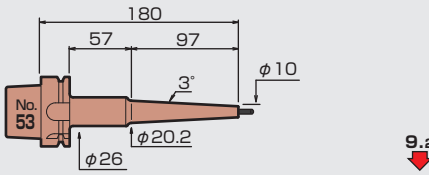
A63-SLRA4-180-M67



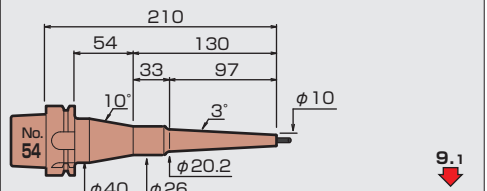
A63-SLRA4-150-M97



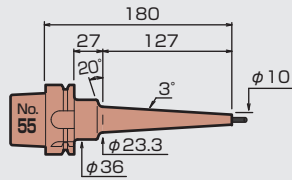
A63-SLRA4-180-M97



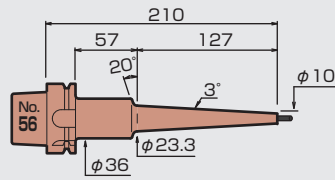
A63-SLRA4-210-M97



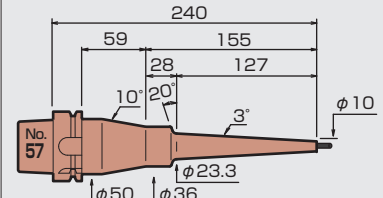
A63-SLRA4-180-M127



A63-SLRA4-210-M127

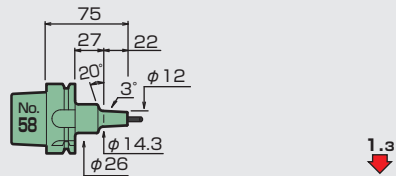


A63-SLRA4-240-M127

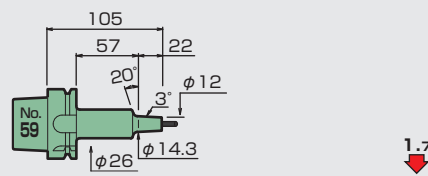


$\phi 4$ SLFB $t=4$

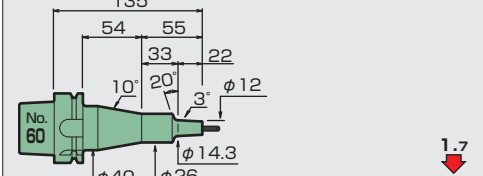
A63-SLFB4-75-M22



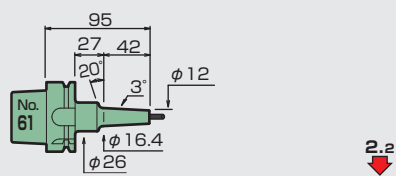
A63-SLFB4-105-M22



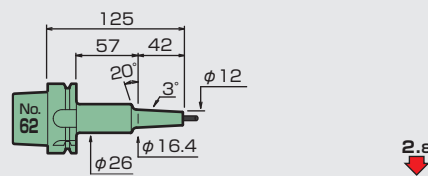
A63-SLFB4-135-M22



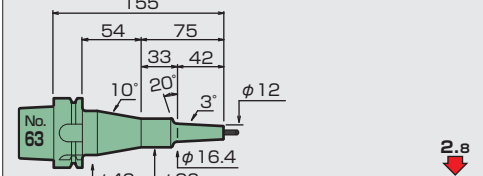
A63-SLFB4-95-M42



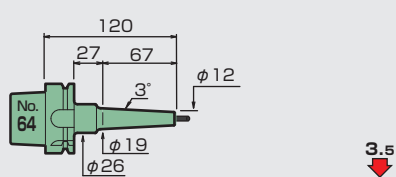
A63-SLFB4-125-M42



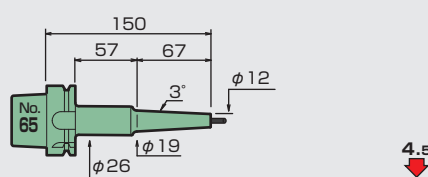
A63-SLFB4-155-M42



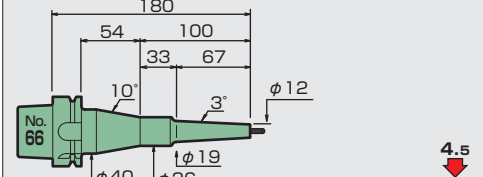
A63-SLFB4-120-M67



A63-SLFB4-150-M67

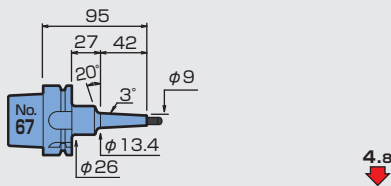


A63-SLFB4-180-M67



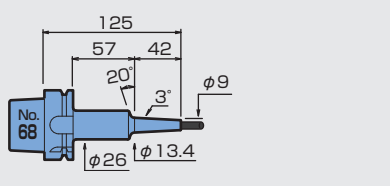
φ6 **SLSA** t=1.5

A63-SLSA6-95-M42



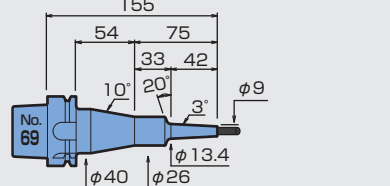
4.8

A63-SLSA6-125-M42



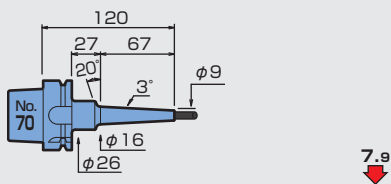
5.5

A63-SLSA6-155-M42



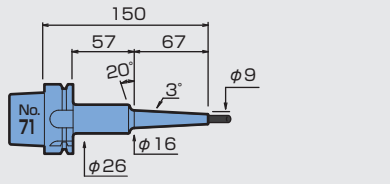
5.5

A63-SLSA6-120-M67



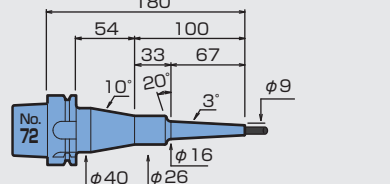
7.9

A63-SLSA6-150-M67



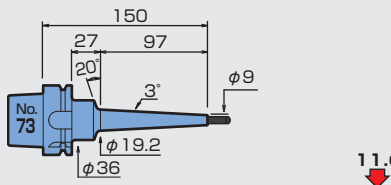
9.1

A63-SLSA6-180-M67



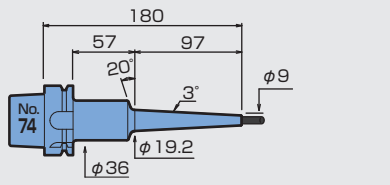
9.0

A63-SLSA6-150-M97



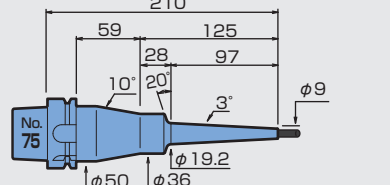
11.0

A63-SLSA6-180-M97



11.4

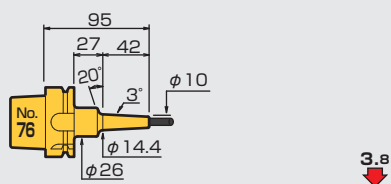
A63-SLSA6-210-M97



11.5

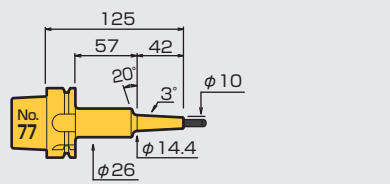
φ6 **SLSB** t=2

A63-SLSB6-95-M42



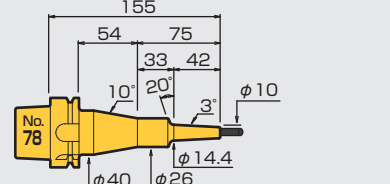
3.8

A63-SLSB6-125-M42



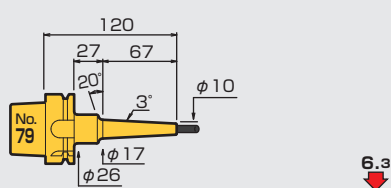
4.5

A63-SLSB6-155-M42



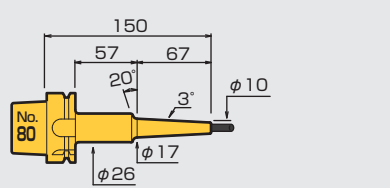
4.5

A63-SLSB6-120-M67



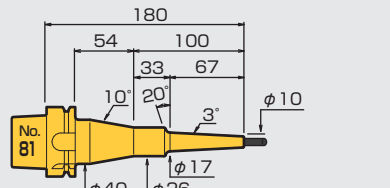
6.3

A63-SLSB6-150-M67



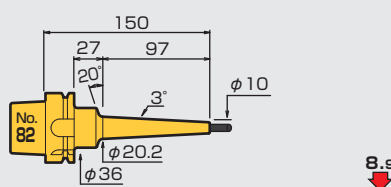
7.4

A63-SLSB6-180-M67



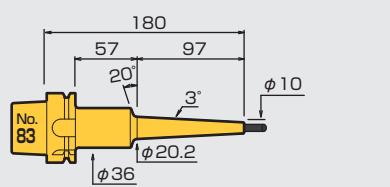
7.4

A63-SLSB6-150-M97



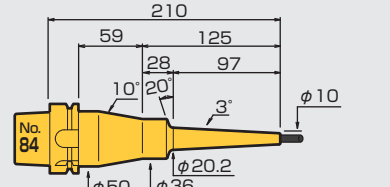
8.9

A63-SLSB6-180-M97



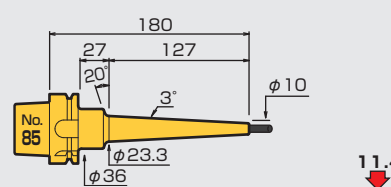
9.3

A63-SLSB6-210-M97



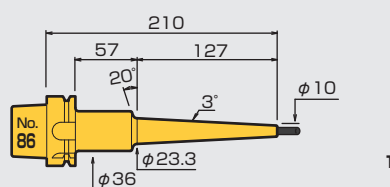
9.3

A63-SLSB6-180-M127



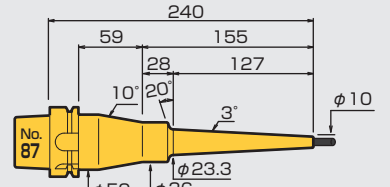
11.4

A63-SLSB6-210-M127



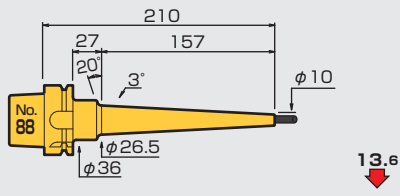
12.0

A63-SLSB6-240-M127

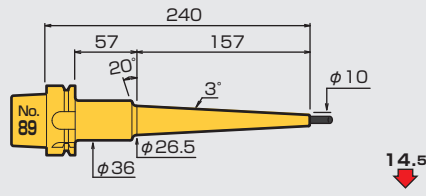


12.1

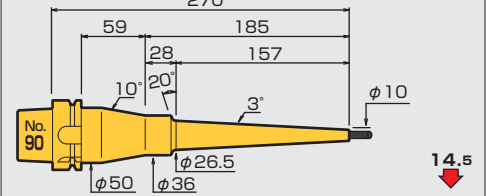
A63-SLSB6-210-M157



A63-SLSB6-240-M157

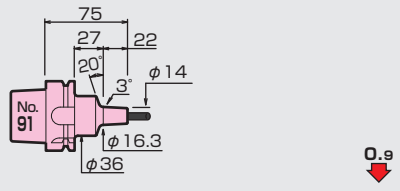


A63-SLSB6-270-M157

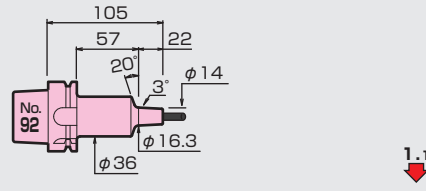


φ6 SLRB t=4

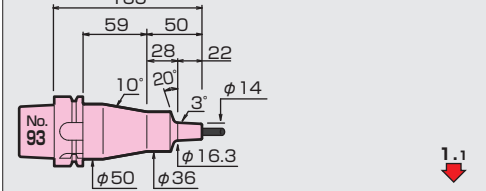
A63-SLRB6-75-M22



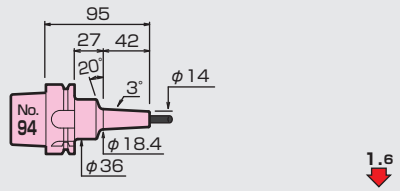
A63-SLRB6-105-M22



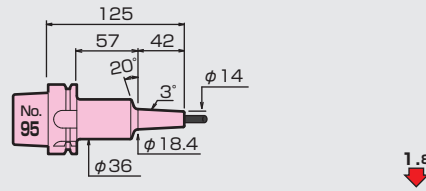
A63-SLRB6-135-M22



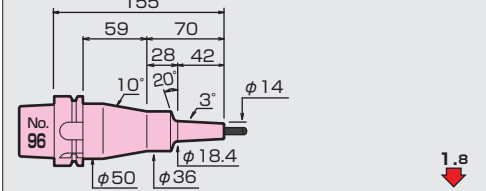
A63-SLRB6-95-M42



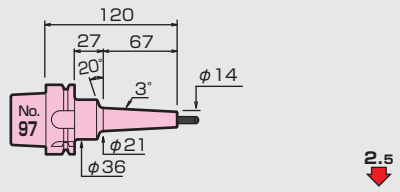
A63-SLRB6-125-M42



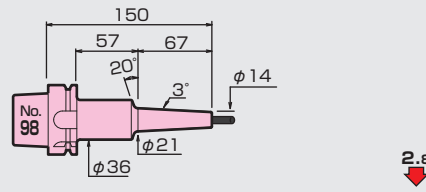
A63-SLRB6-155-M42



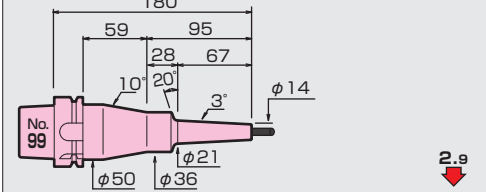
A63-SLRB6-120-M67



A63-SLRB6-150-M67

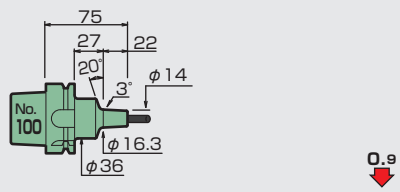


A63-SLRB6-180-M67

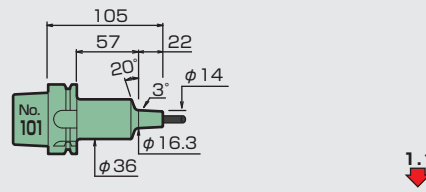


φ6 SLFB t=4

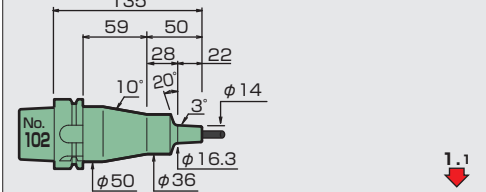
A63-SLFB6-75-M22



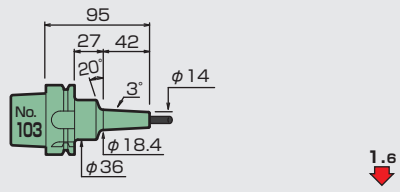
A63-SLFB6-105-M22



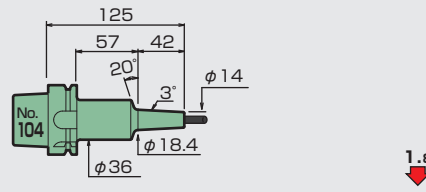
A63-SLFB6-135-M22



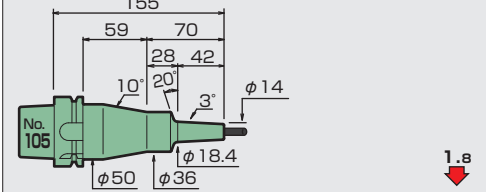
A63-SLFB6-95-M42



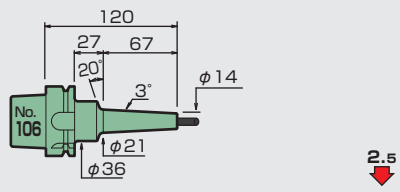
A63-SLFB6-125-M42



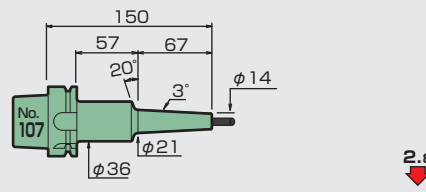
A63-SLFB6-155-M42



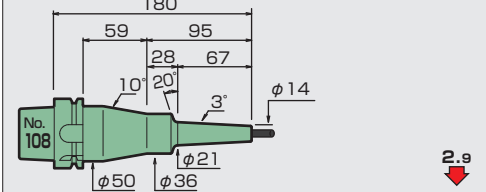
A63-SLFB6-120-M67



A63-SLFB6-150-M67

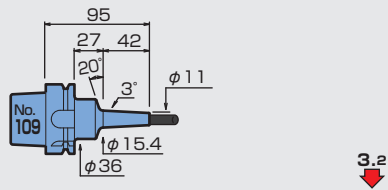


A63-SLFB6-180-M67

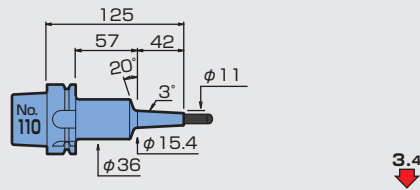


φ8 **SLSA** t=1.5

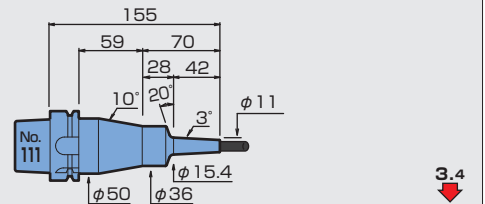
A63-SLSA8-95-M42



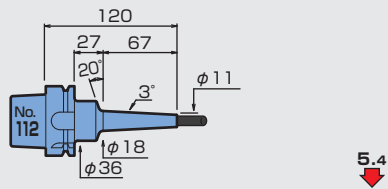
A63-SLSA8-125-M42



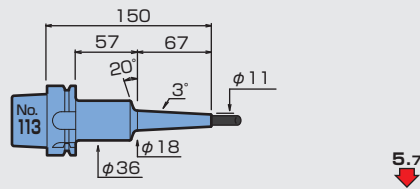
A63-SLSA8-155-M42



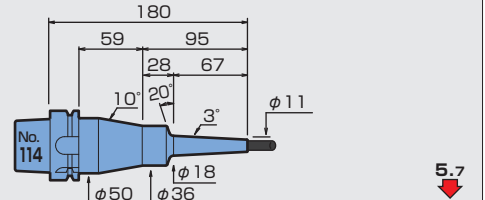
A63-SLSA8-120-M67



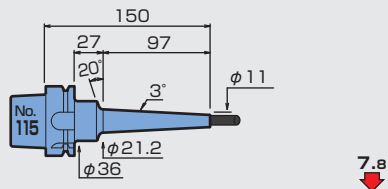
A63-SLSA8-150-M67



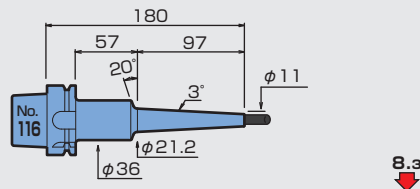
A63-SLSA8-180-M67



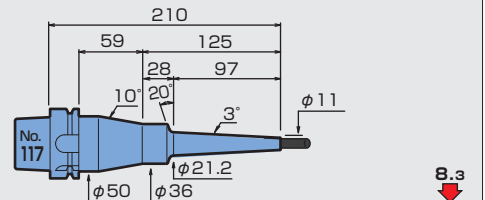
A63-SLSA8-150-M97



A63-SLSA8-180-M97

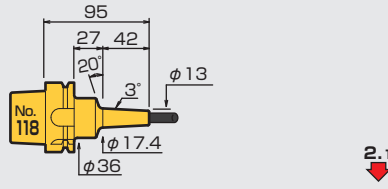


A63-SLSA8-210-M97

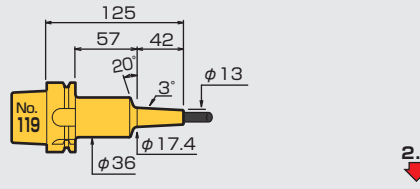


φ8 **SLSB** t=2.5

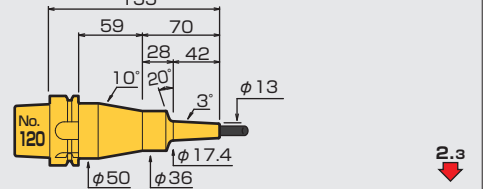
A63-SLSB8-95-M42



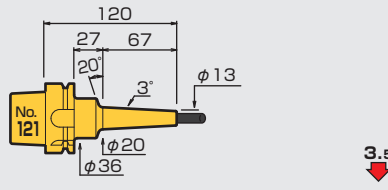
A63-SLSB8-125-M42



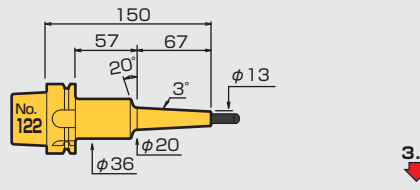
A63-SLSB8-155-M42



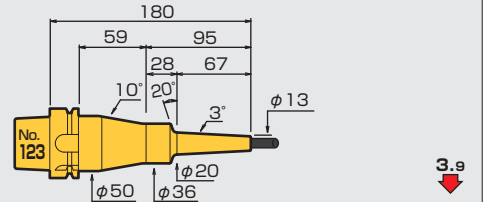
A63-SLSB8-120-M67



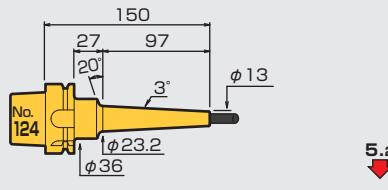
A63-SLSB8-150-M67



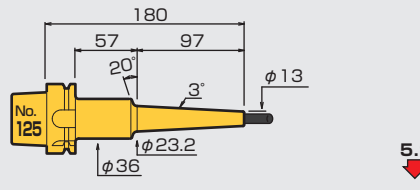
A63-SLSB8-180-M67



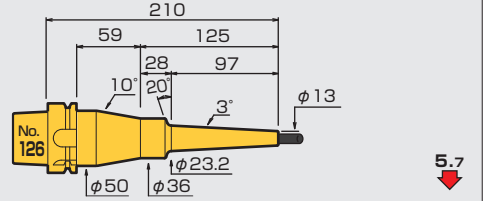
A63-SLSB8-150-M97



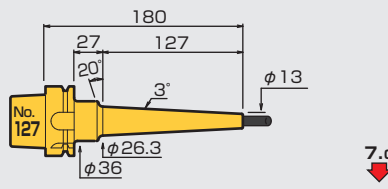
A63-SLSB8-180-M97



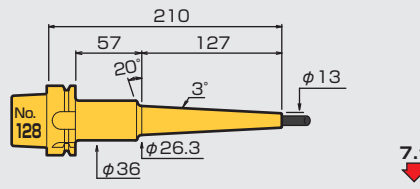
A63-SLSB8-210-M97



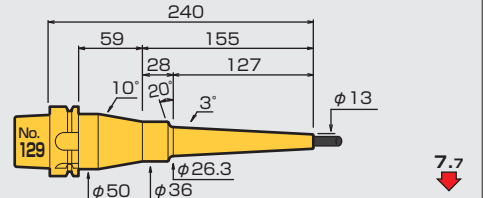
A63-SLSB8-180-M127



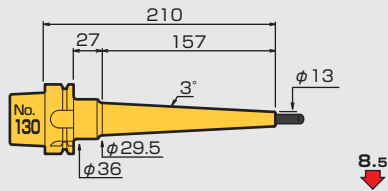
A63-SLSB8-210-M127



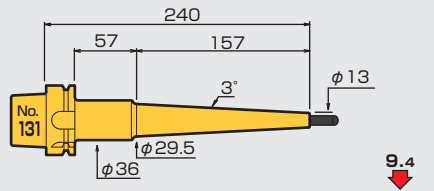
A63-SLSB8-240-M127



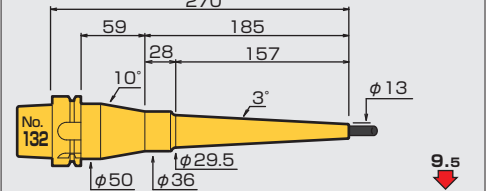
A63-SLSB8-210-M157



A63-SLSB8-240-M157

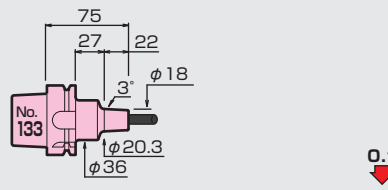


A63-SLSB8-270-M157

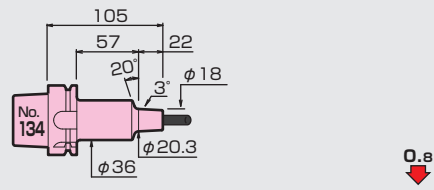


$\phi 8$ SLRB $t=5$

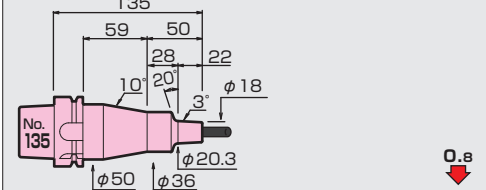
A63-SLRB8-75-M22



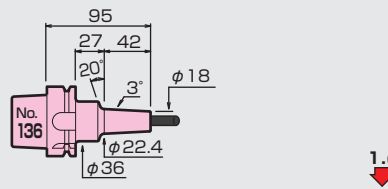
A63-SLRB8-105-M22



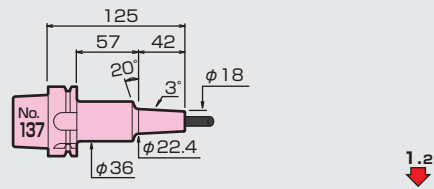
A63-SLRB8-135-M22



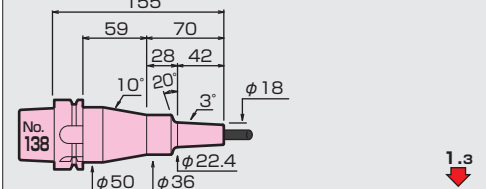
A63-SLRB8-95-M42



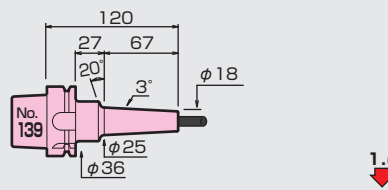
A63-SLRB8-125-M42



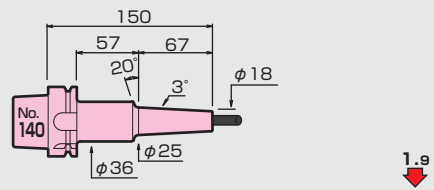
A63-SLRB8-155-M42



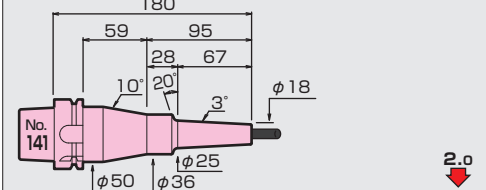
A63-SLRB8-120-M67



A63-SLRB8-150-M67

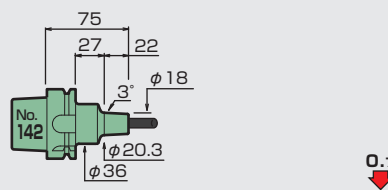


A63-SLRB8-180-M67

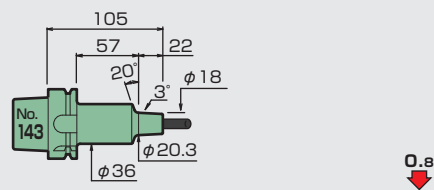


$\phi 8$ SLFB $t=5$

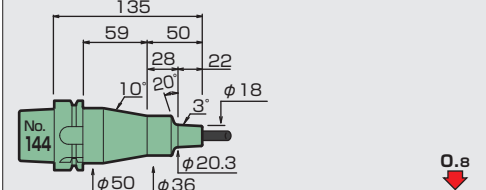
A63-SLFB8-75-M22



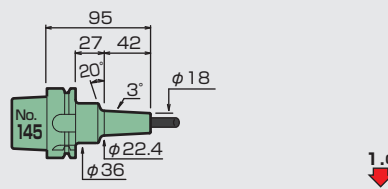
A63-SLFB8-105-M22



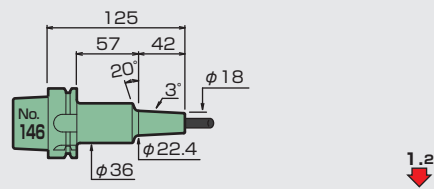
A63-SLFB8-135-M22



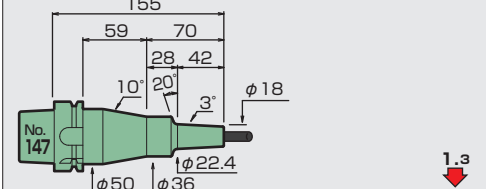
A63-SLFB8-95-M42



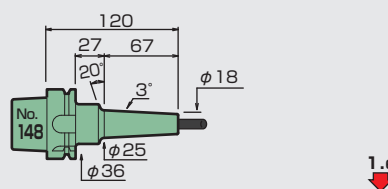
A63-SLFB8-125-M42



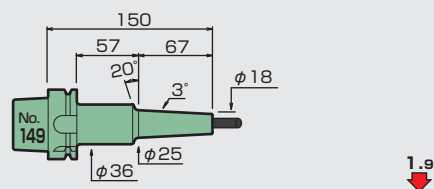
A63-SLFB8-155-M42



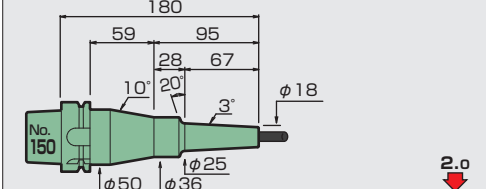
A63-SLFB8-120-M67



A63-SLFB8-150-M67

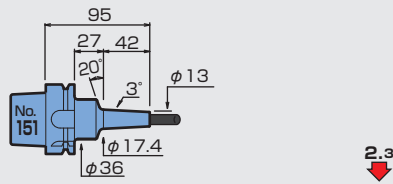


A63-SLFB8-180-M67



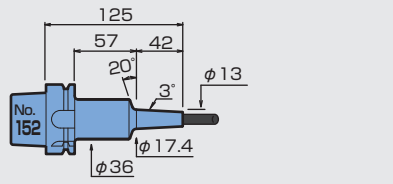
φ10 **SLSA** t=1.5

A63-SLSA10-95-M42



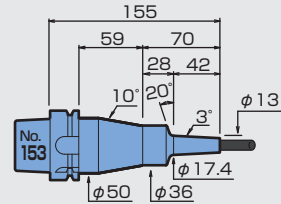
2.3

A63-SLSA10-125-M42



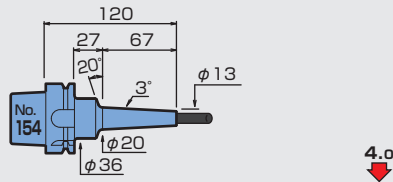
2.5

A63-SLSA10-155-M42



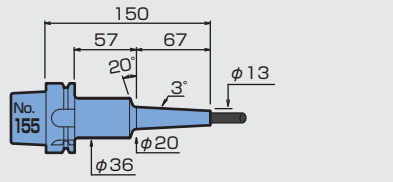
2.5

A63-SLSA10-120-M67



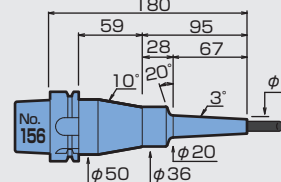
4.0

A63-SLSA10-150-M67



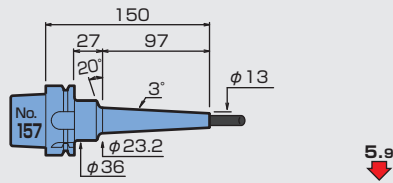
4.3

A63-SLSA10-180-M67



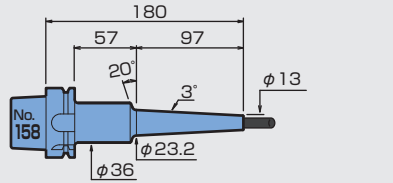
4.4

A63-SLSA10-150-M97



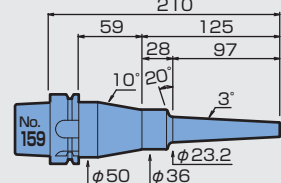
5.9

A63-SLSA10-180-M97



6.4

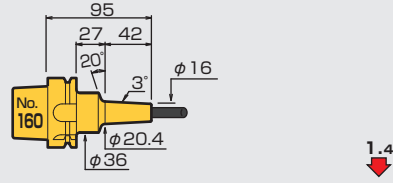
A63-SLSA10-210-M97



6.5

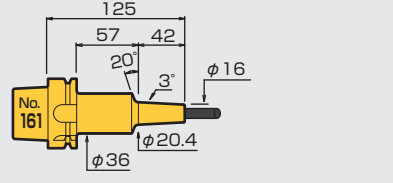
φ10 **SLSB** t=3

A63-SLSB10-95-M42



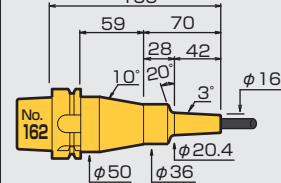
1.4

A63-SLSB10-125-M42



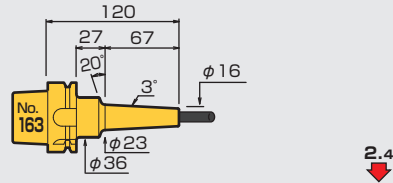
1.6

A63-SLSB10-155-M42



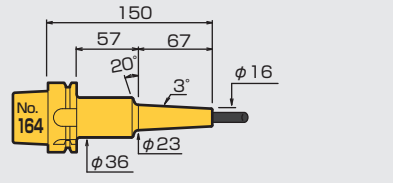
1.7

A63-SLSB10-120-M67



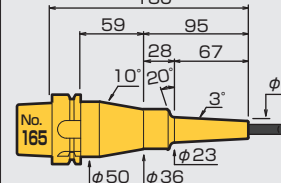
2.4

A63-SLSB10-150-M67



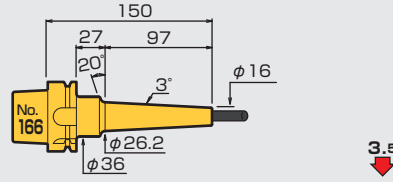
2.7

A63-SLSB10-180-M67



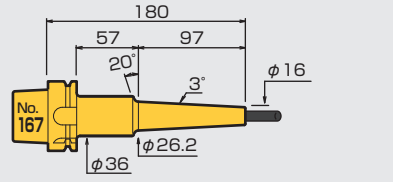
2.7

A63-SLSB10-150-M97



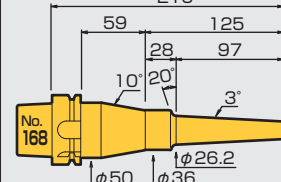
3.5

A63-SLSB10-180-M97



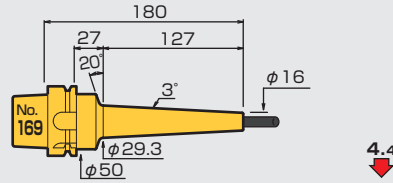
4.1

A63-SLSB10-210-M97



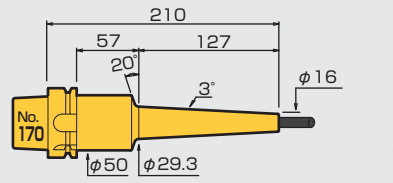
4.1

A63-SLSB10-180-M127



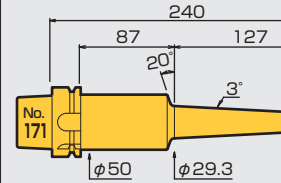
4.4

A63-SLSB10-210-M127



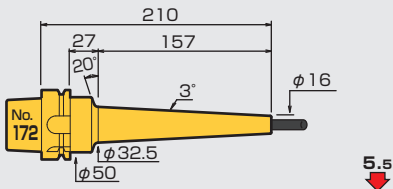
4.4

A63-SLSB10-240-M127

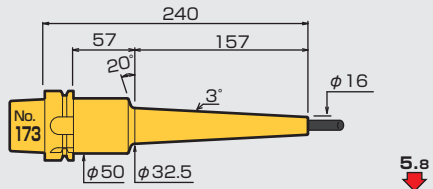


4.9

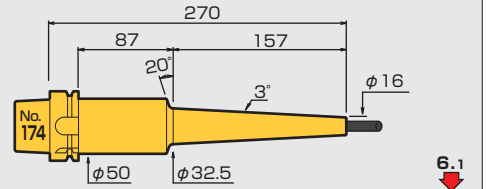
A63-SLSB10-210-M157



A63-SLSB10-240-M157

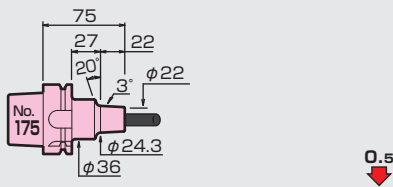


A63-SLSB10-270-M157

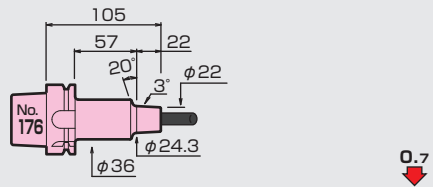


10 SLRB t=6

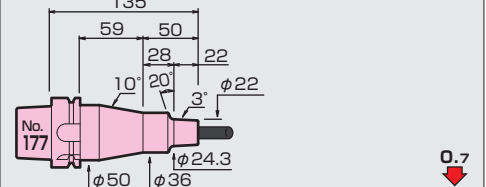
A63-SLRB10-75-M22



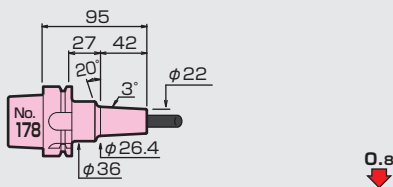
A63-SLRB10-105-M22



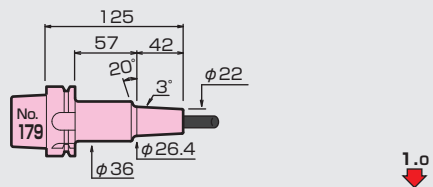
A63-SLRB10-135-M22



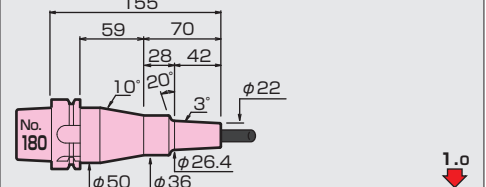
A63-SLRB10-95-M42



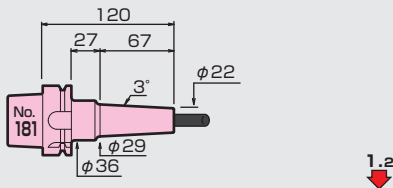
A63-SLRB10-125-M42



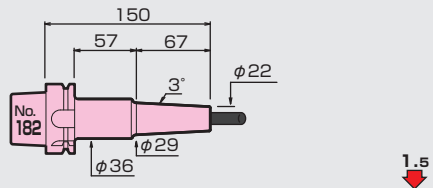
A63-SLRB10-155-M42



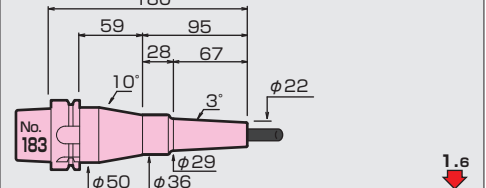
A63-SLRB10-120-M67



A63-SLRB10-150-M67

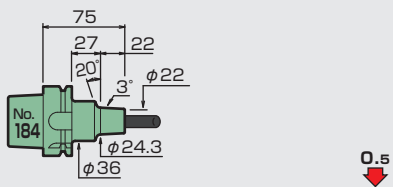


A63-SLRB10-180-M67

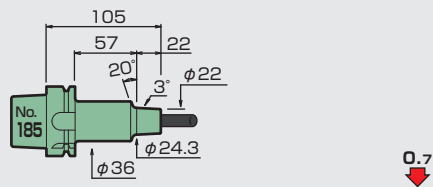


10 SLFB t=6

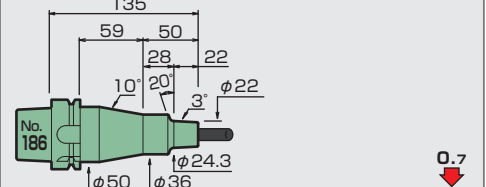
A63-SLFB10-75-M22



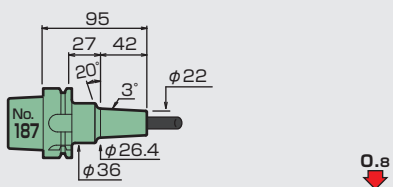
A63-SLFB10-105-M22



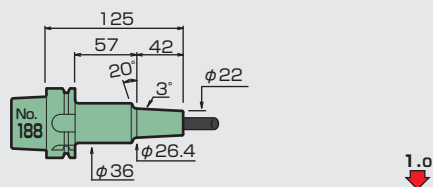
A63-SLFB10-135-M22



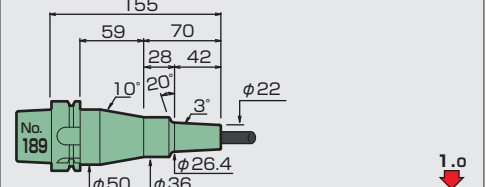
A63-SLFB10-95-M42



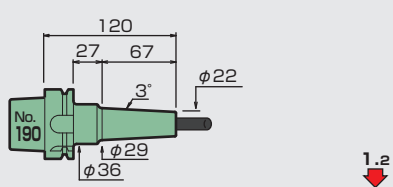
A63-SLFB10-125-M42



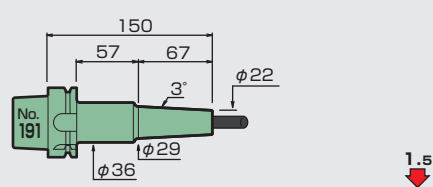
A63-SLFB10-155-M42



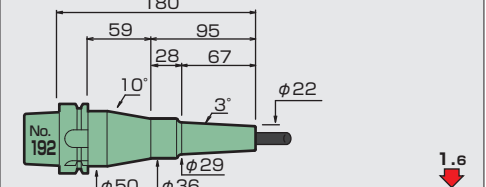
A63-SLFB10-120-M67



A63-SLFB10-150-M67

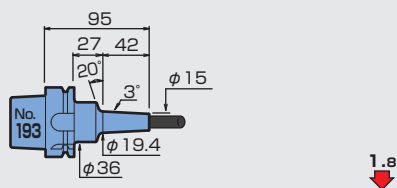


A63-SLFB10-180-M67

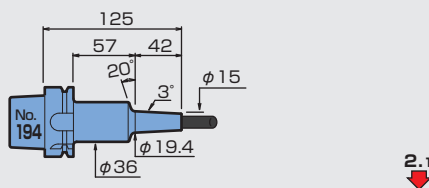


φ12 **SLSA** t=1.5

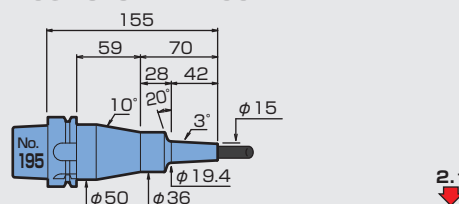
A63-SLSA12-95-M42



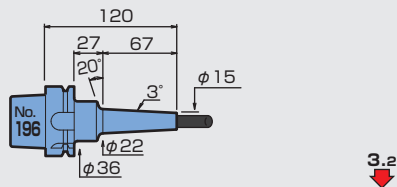
A63-SLSA12-125-M42



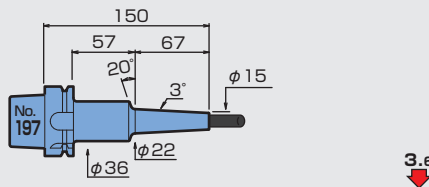
A63-SLSA12-155-M42



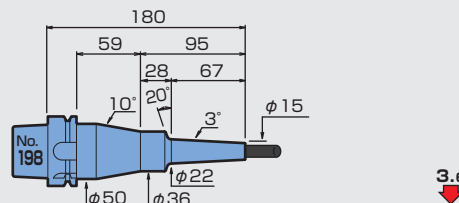
A63-SLSA12-120-M67



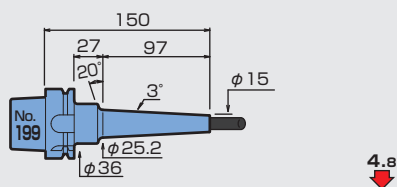
A63-SLSA12-150-M67



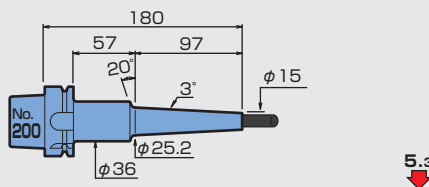
A63-SLSA12-180-M67



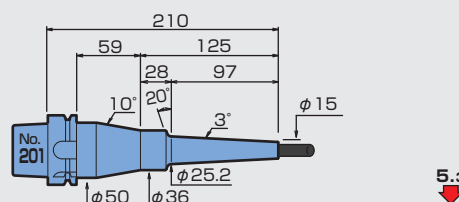
A63-SLSA12-150-M97



A63-SLSA12-180-M97

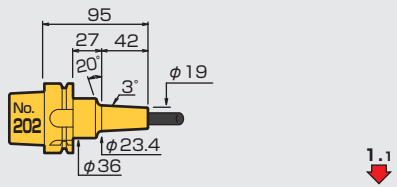


A63-SLSA12-210-M97

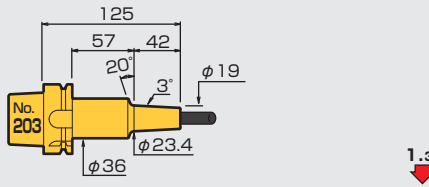


φ12 **SLSB** t=3.5

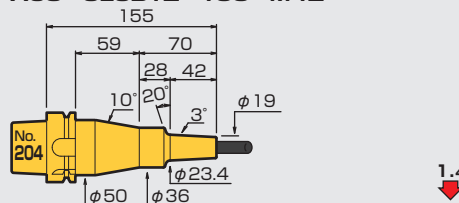
A63-SLSB12-95-M42



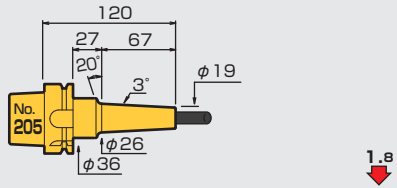
A63-SLSB12-125-M42



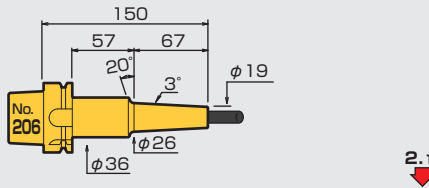
A63-SLSB12-155-M42



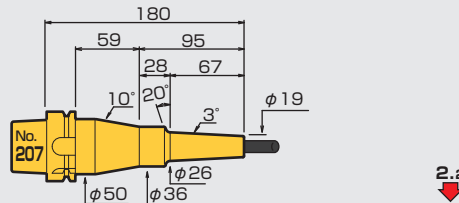
A63-SLSB12-120-M67



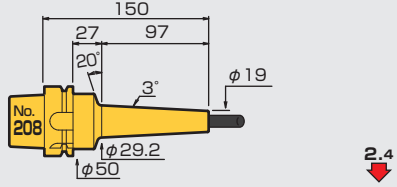
A63-SLSB12-150-M67



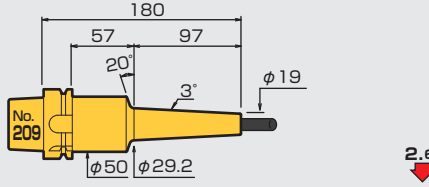
A63-SLSB12-180-M67



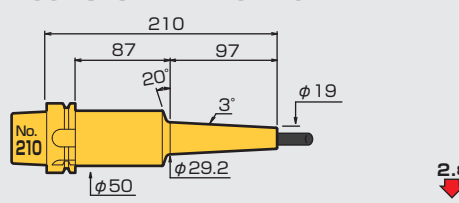
A63-SLSB12-150-M97



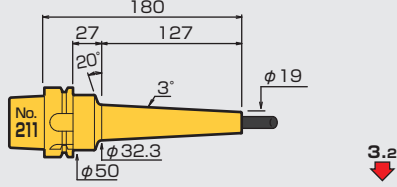
A63-SLSB12-180-M97



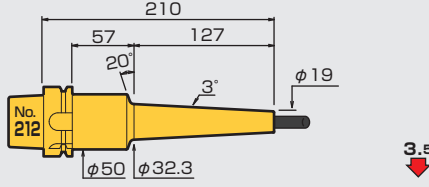
A63-SLSB12-210-M97



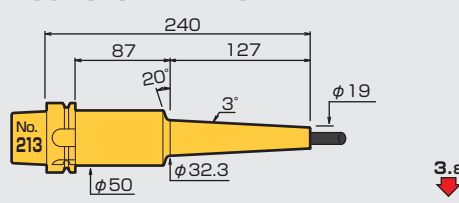
A63-SLSB12-180-M127

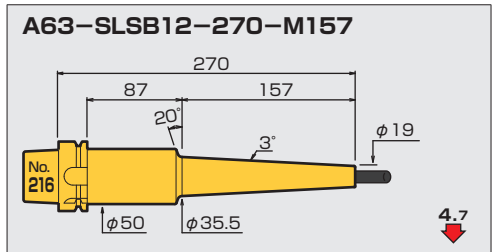
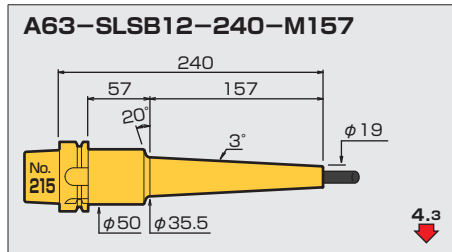
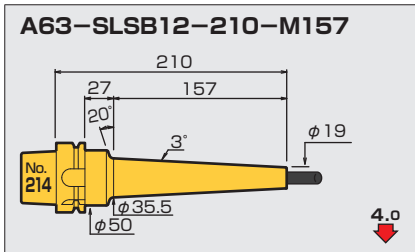


A63-SLSB12-210-M127

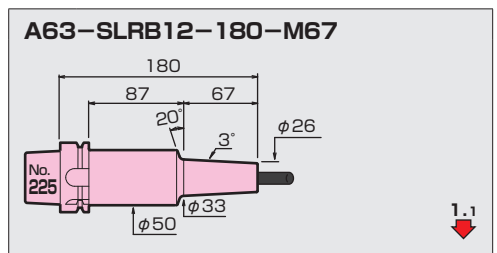
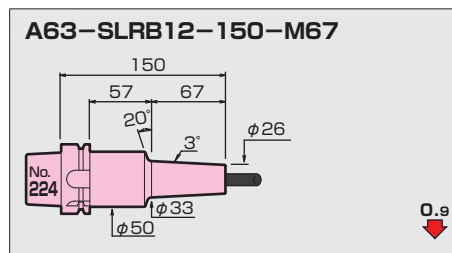
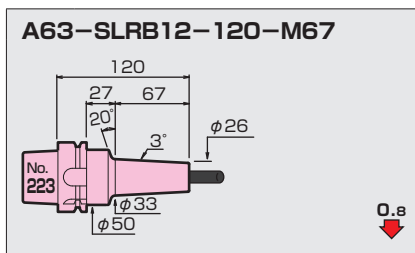
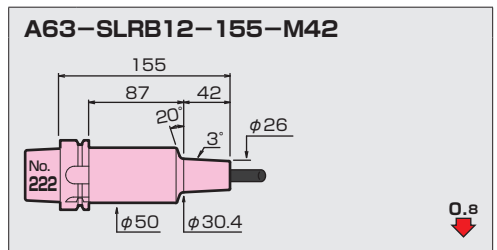
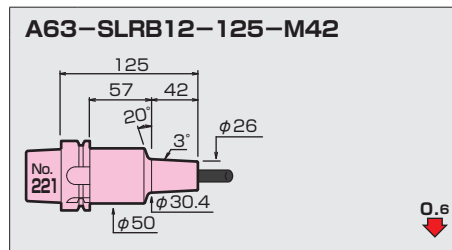
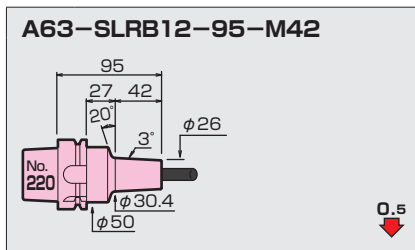
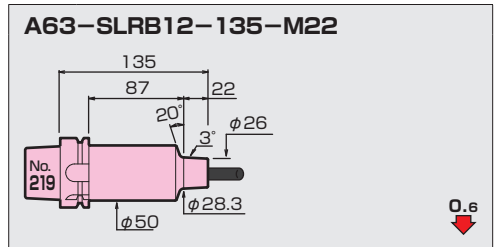
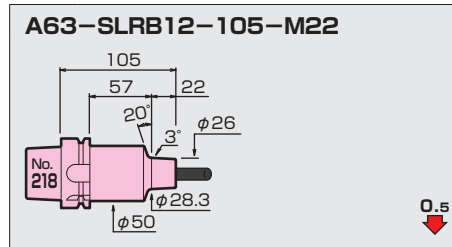
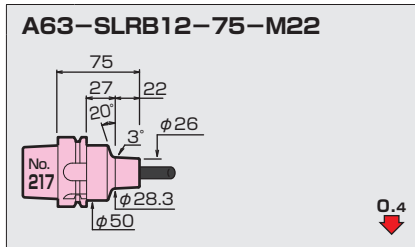


A63-SLSB12-240-M127

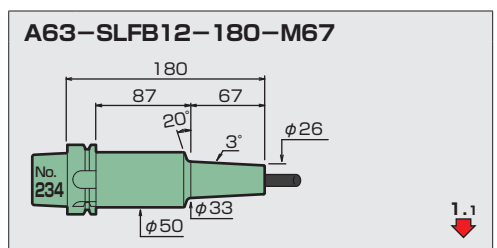
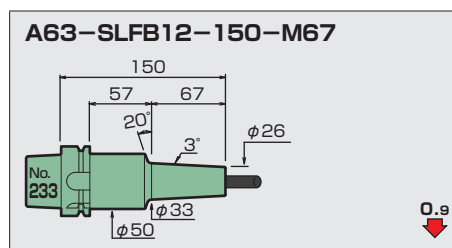
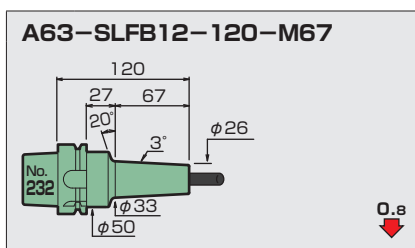
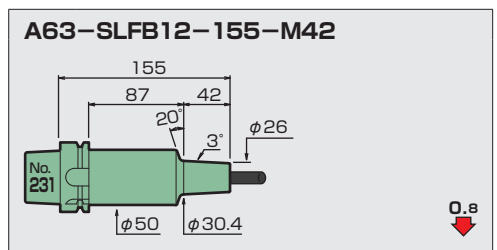
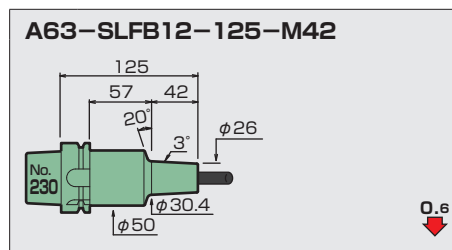
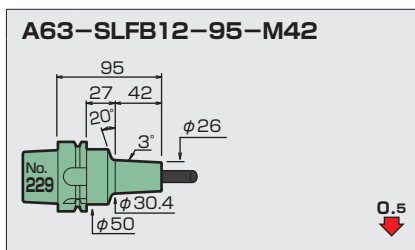
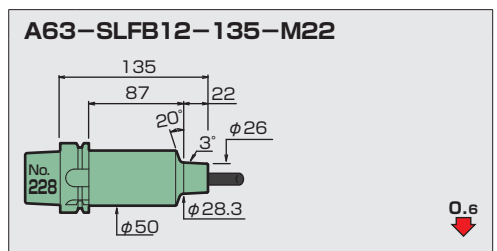
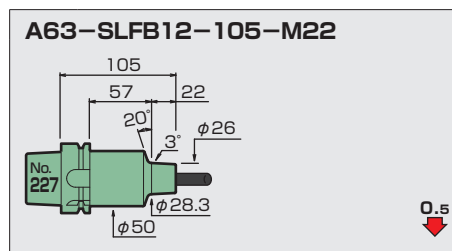
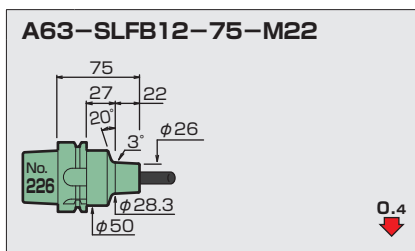




SLRB $t=7$

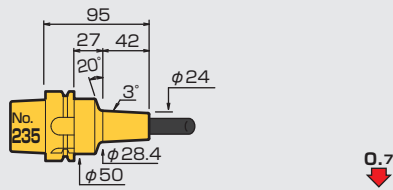


φ12 SLFB t=7

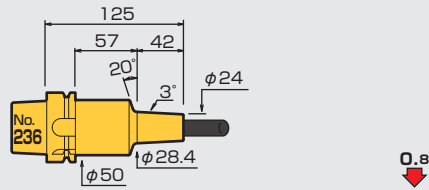


φ16 **SLSB** t=4

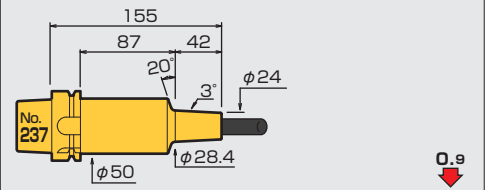
A63-SLSB16-95-M42



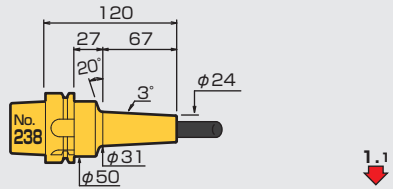
A63-SLSB16-125-M42



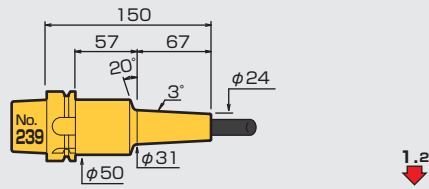
A63-SLSB16-155-M42



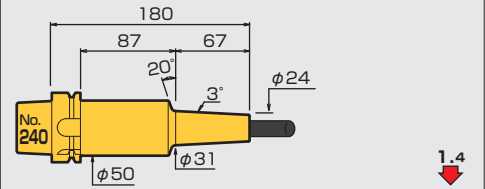
A63-SLSB16-120-M67



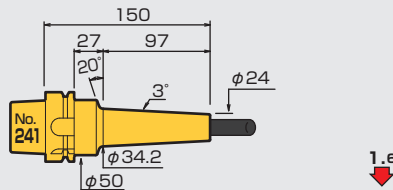
A63-SLSB16-150-M67



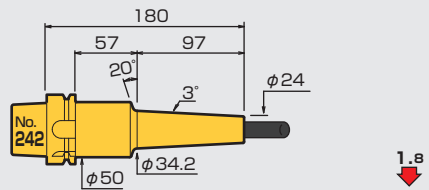
A63-SLSB16-180-M67



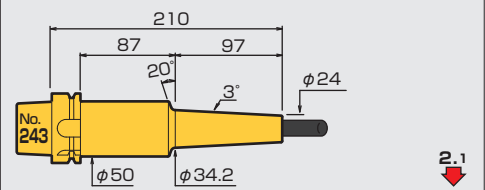
A63-SLSB16-150-M97



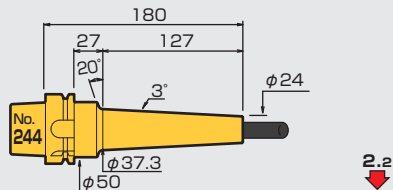
A63-SLSB16-180-M97



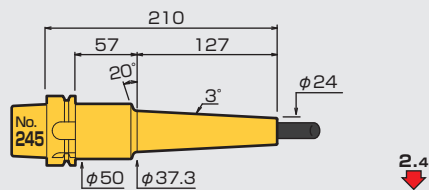
A63-SLSB16-210-M97



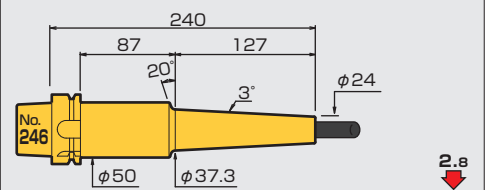
A63-SLSB16-180-M127



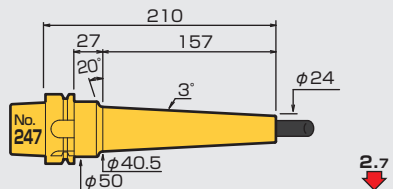
A63-SLSB16-210-M127



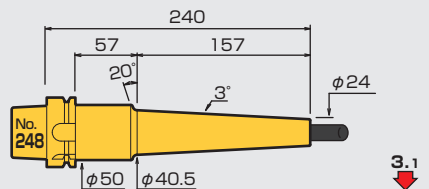
A63-SLSB16-240-M127



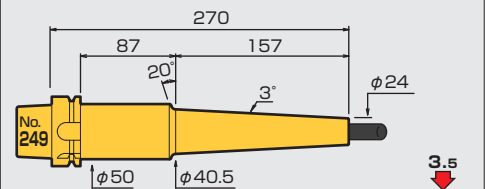
A63-SLSB16-210-M157



A63-SLSB16-240-M157

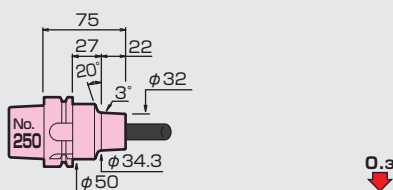


A63-SLSB16-270-M157

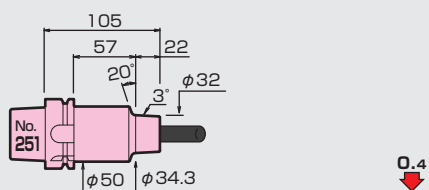


φ16 **SLRB** t=8

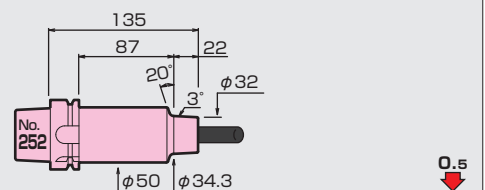
A63-SLRB16-75-M22



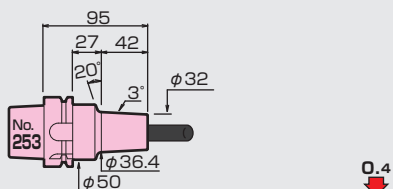
A63-SLRB16-105-M22



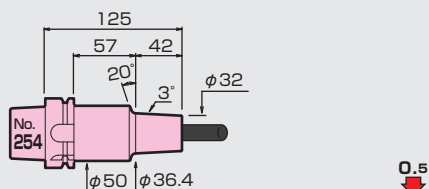
A63-SLRB16-135-M22



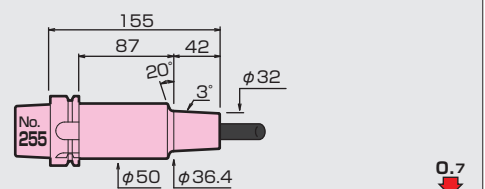
A63-SLRB16-95-M42



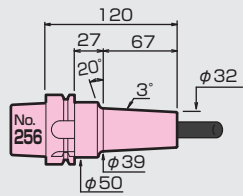
A63-SLRB16-125-M42



A63-SLRB16-155-M42

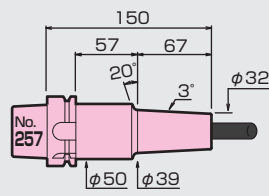


A63-SLRB16-120-M67



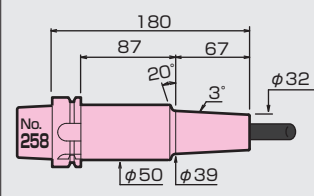
0.6

A63-SLRB16-150-M67



0.7

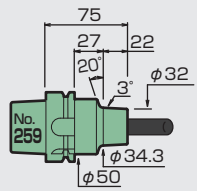
A63-SLRB16-180-M67



0.9

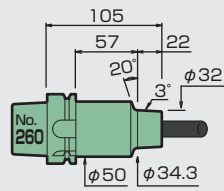
φ16 SLFB t=8

A63-SLFB16-75-M22



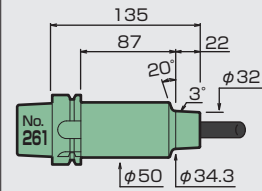
0.3

A63-SLFB16-105-M22



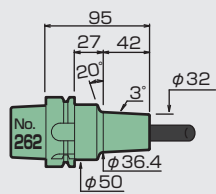
0.4

A63-SLFB16-135-M22



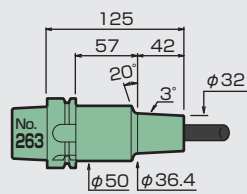
0.5

A63-SLFB16-95-M42



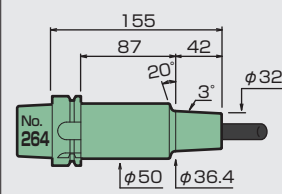
0.4

A63-SLFB16-125-M42



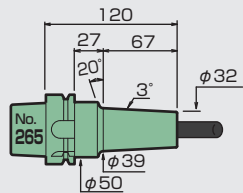
0.5

A63-SLFB16-155-M42



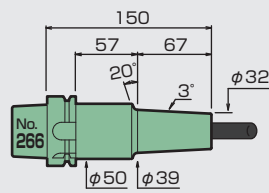
0.7

A63-SLFB16-120-M67



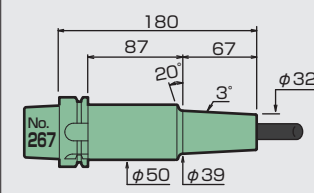
0.6

A63-SLFB16-150-M67



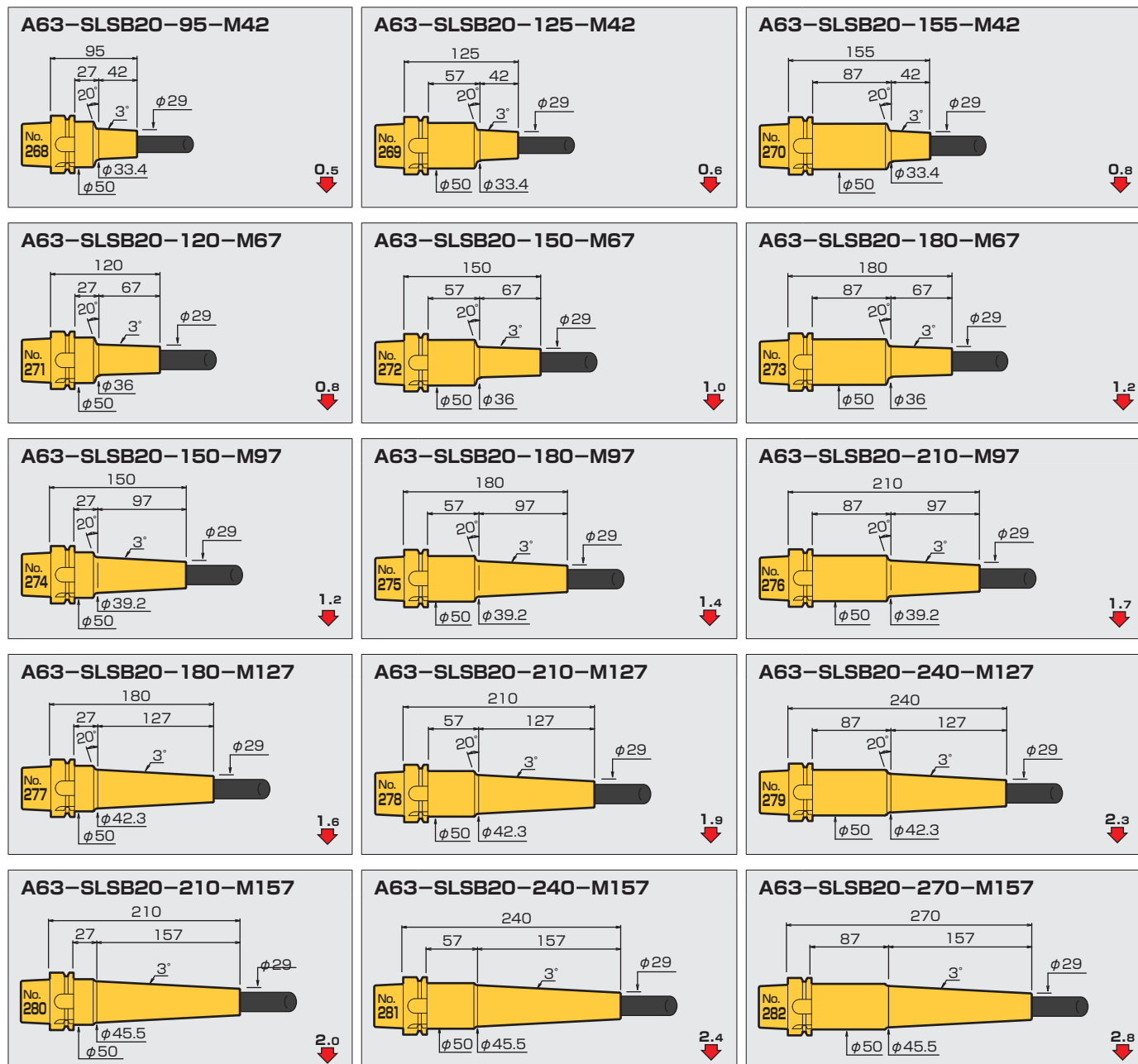
0.7

A63-SLFB16-180-M67

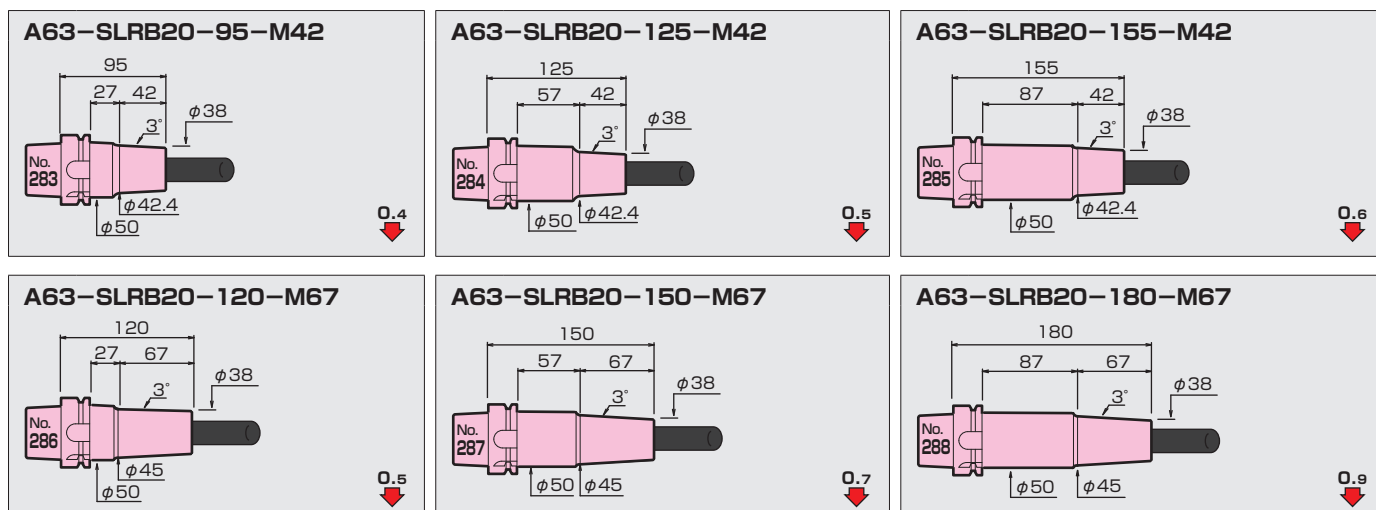


0.9

φ20 SLSB $t=4.5$

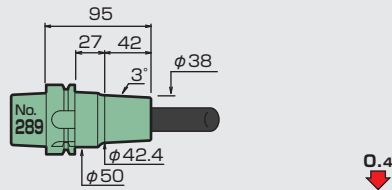


φ20 SLRB $t=9$

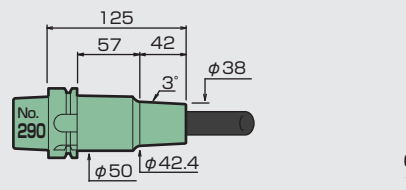


φ20 SLFB t=9

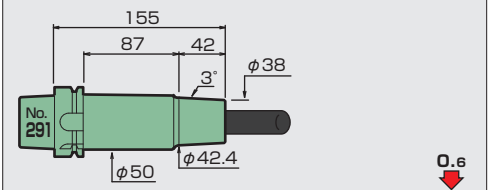
A63-SLFB20-95-M42

0.4
↓

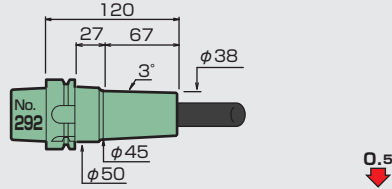
A63-SLFB20-125-M42

0.5
↓

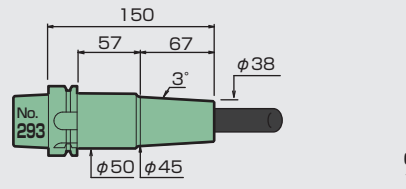
A63-SLFB20-155-M42

0.6
↓

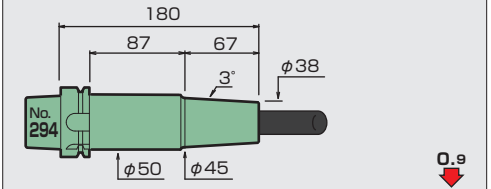
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0.5
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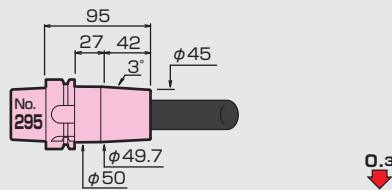
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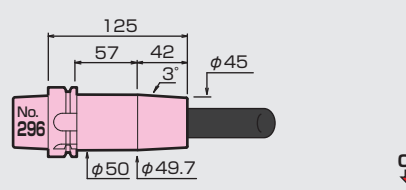
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0.9
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φ25 SLRB t=10

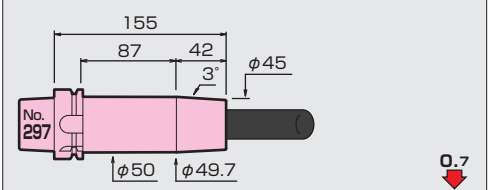
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0.3
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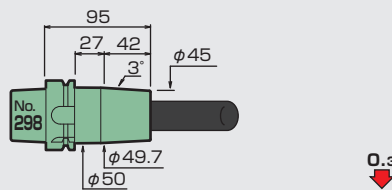
A63-SLRB25-125-M42

0.5
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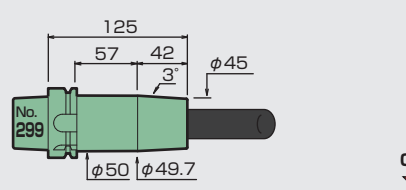
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0.7
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φ25 SLFB t=10

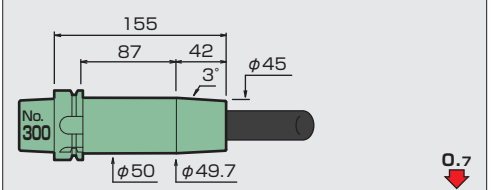
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0.3
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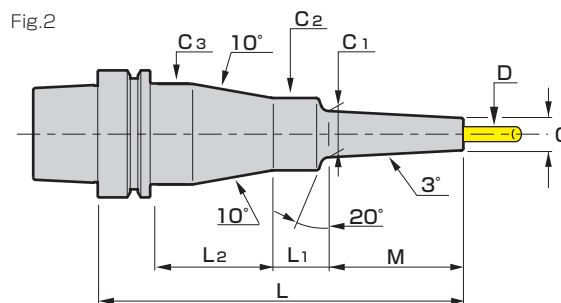
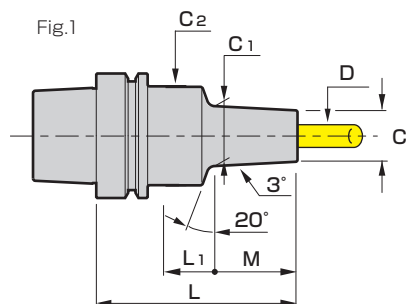
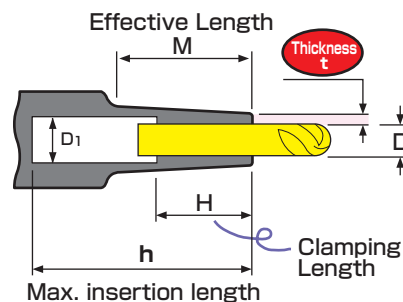
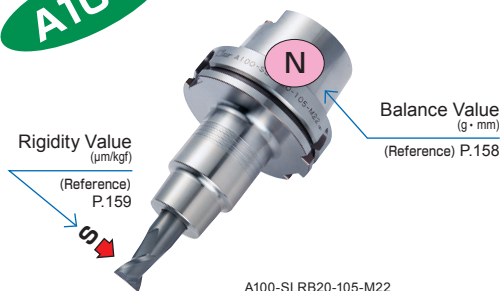
A63-SLFB25-125-M42

0.5
↓

A63-SLFB25-155-M42

0.7
↓

A100



CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLSA 3-110-M 42	1	3	6	1.5	110	42	39	—	10.4	26	—	4	9	80	2.2	19.8	9.4	1
-135-M 67					135	67			13					105	2.3	20.9	15.1	4
-140-M 42					140	42	69		10.4					110		19.9	10.1	2
-165-M 67					165	67			13					135		21.0	16.1	5
-M 97					97	39			16.2							22.2	21.0	7
-170-M 42	2				170	42	33	66	10.4	40				140	2.6	20.2	10.0	3
-195-M 67					195	67			13					165		21.3	15.9	6
-M 97	1					97	69	—	16.2	—					2.4	22.3	22.5	8
-225-M 97	2				225		33	66		40				195	2.7	22.6	22.2	9
-SLRA 3- 90-M 22	1	3	7.5	2.25	90	22	39	—	9.8	26	—	5	9	60	2.2	20.2	2.9	10
-110-M 42					110	42			11.9					80		20.6	5.5	13
-120-M 22					120	22	69		9.8					90	2.3	20.3	3.3	11
-135-M 67					135	67	39		14.5					105		21.4	9.0	16
-140-M 42					140	42	69		11.9					110		20.7	6.1	14
-150-M 22	2				150	22	33	66	9.8	40				120	2.6	20.6	3.2	12
-165-M 67	1				165	67	69	—	14.5	—				135	2.4	21.5	10.1	17
-M 97					97	39			17.7						2.3	22.4	13.1	19
-170-M 42	2				170	42	33	66	11.9	40				140	2.6	21.0	6.0	15
-195-M 67					195	67			14.5					165		21.8	9.9	18
-M 97	1					97	69	—	17.7	—					2.4	22.5	14.7	20
-M127					127	39			20.8	36						24.5	15.8	22
-225-M 97	2				225	97	33	66	17.7	26	40			195	2.7	22.8	14.4	21
-M127	1					127	69	—	20.8	36	—				2.6	24.6	16.4	23
-255-M127	2				255		28	71		50				225	3.2	24.9	16.3	24
-SLFB 3- 90-M 22	1	3	9.5	3.25	90	22	39	—	11.8	26	—	5	9	60	2.2	19.8	1.9	25
-110-M 42					110	42			13.9					80	2.3	20.3	3.3	28
-120-M 22					120	22	69		11.8					90		19.9	2.3	26
-135-M 67					135	67	39		16.5					105		21.4	5.5	31
-140-M 42					140	42	69		13.9					110		20.4	4.0	29
-150-M 22	2				150	22	33	66	11.8	40				120	2.6	20.2	2.3	27
-165-M 67	1				165	67	69	—	16.5	—				135	2.4	21.5	6.5	32
-170-M 42	2				170	42	33	66	13.9	40				140	2.6	20.7	3.9	30
-195-M 67					195	67			16.5					165		21.8	6.3	33

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLSA 4-110-M 42	1	4	7	1.5	110	42	39	—	11.4	26	—	5	12	80	2.3	21.0	7.4	34
-135-M 67					135	67			14					105			12.0	37
-140-M 42					140	42	69		11.4					110		21.1	8.1	35
-165-M 67					165	67			14					135	2.4		13.1	38
-M 97						97	39		17.2						2.3	22.4	16.9	40
-170-M 42	2				170	42	33	66	11.4		40			140	2.6	21.4	8.0	36
-195-M 67					195	67			14					165			12.9	39
-M 97	1					97	69	—	17.2		—				2.4	22.5	18.6	41
-225-M 97	2				225		33	66			40			195	2.7	22.8	18.2	42
-SLRA 4- 90-M 22	1	4	10	3	90	22	39	—	12.3	26	—	6	12	60	2.2	20.3	1.8	43
-110-M 42					110	42			14.4					80	2.3	21.0	3.2	46
-120-M 22					120	22	69		12.3					90		20.4	2.2	44
-135-M 67					135	67	39		17					105		22.0	5.3	49
-140-M 42					140	42	69		14.4					110		21.1	3.9	47
-150-M 22	2				150	22	33	66	12.3		40			120	2.6	20.7	2.2	45
-165-M 67	1				165	67	69	—	17		—			135	2.4	22.1	6.3	50
-M 97						97	39		20.2							23.5	7.9	52
-170-M 42	2				170	42	33	66	14.4		40			140	2.6	21.4	3.8	48
-195-M 67					195	67			17					165	2.7	22.5	6.1	51
-M 97	1					97	69	—	20.2		—				2.4	23.5	9.5	53
-M127						127	39		23.3	36					2.5	26.7	9.4	55
-225-M 97	2				225	97	33	66	20.2	26	40			195	2.7	23.9	9.2	54
-M127	1					127	69	—	23.3	36	—					26.8	10.1	56
-255-M127	2				255		28	71			50			225	3.3	27.2	9.9	57
-SLFB 4- 90-M 22	1	4	12	4	90	22	39	—	14.3	26	—	6	12	60	2.2	20.1	1.4	58
-110-M 42					110	42			16.4					80	2.3	20.8	2.3	61
-120-M 22					120	22	69		14.3					90		20.2	1.8	59
-135-M 67					135	67	39		19					105		22.0	3.7	64
-140-M 42					140	42	69		16.4					110	2.4	20.8	2.9	62
-150-M 22	2				150	22	33	66	14.3		40			120	2.6	20.5	1.8	60
-165-M 67	1				165	67	69	—	19		—			135	2.4	22.1	4.7	65
-170-M 42	2				170	42	33	66	16.4		40			140	2.6	21.2	2.8	63
-195-M 67					195	67			19					165	2.7	22.4	4.5	66
A100-SLSA 6-110-M 42	1	6	9	1.5	110	42	39	—	13.4	26	—	7	18	80	2.2	21.3	4.9	67
-135-M 67					135	67			16					105	2.3	22.8	8.1	70
-140-M 42					140	42	69		13.4					110		21.4	5.7	68
-165-M 67					165	67			16					135	2.4	22.9	9.3	71
-M 97						97	39		19.2	36						25.3	11.1	73
-170-M 42	2				170	42	33	66	13.4	26	40			140	2.6	21.7	5.6	69
-195-M 67					195	67			16					165		23.2	9.1	72
-M 97	1					97	69	—	19.2	36	—					25.4	11.6	74
-225-M 97	2				225		28	71			50			195	3.2	25.7	11.5	75
-SLSB 6-110-M 42	1	6	10	2	110	42	39	—	14.4	26	—	8	18	80	2.2	22.2	3.9	76
-135-M 67					135	67			17					105	2.3	24.3	6.5	79
-140-M 42					140	42	69		14.4					110		22.3	4.7	77
-165-M 67					165	67			17					135	2.4	24.4	7.7	80
-M 97						97	39		20.2	36						27.3	9.0	82
-170-M 42	2				170	42	33	66	14.4	26	40			140	2.6	22.6	4.6	78
-195-M 67					195	67			17					165		24.7	7.5	81
-M 97	1					97	69	—	20.2	36	—					27.4	9.5	83
-M127						127	39		23.3						2.5	29.8	11.5	85
-225-M 97	2				225	97	28	71	20.2		50			195	3.2	27.8	9.3	84
-M127	1					127	69	—	23.3		—				2.7	29.9	12.2	86
-M157						157	39		26.5						2.6	32.3	13.8	88
-255-M127	2				255	127	28	71	23.3		50			225	3.2	30.3	12.1	87
-M157	1					157	69	—	26.5		—				2.8	32.4	14.8	89
-285-M157	2				285		28	71			50			255	3.3	32.8	14.5	90

A100

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLRB 6- 90-M 22	1	6	14	4	90	22	39	—	16.3	36	—	8	18	60	2.3	21.1	1.0	91
-110-M 42					110	42			18.4					80		22.8	1.6	94
-120-M 22					120	22	69		16.3					90	2.5	21.3	1.1	92
-135-M 67					135	67	39		21					105	2.4	24.9	2.6	97
-140-M 42					140	42	69		18.4					110	2.5	22.9	1.8	95
-150-M 22	2				150	22	28	71	16.3		50			120	3.1	21.6	1.1	93
-165-M 67	1				165	67	69	—	21		—			135	2.6	25.0	2.9	98
-170-M 42	2				170	42	28	71	18.4		50			140	3.1	23.3	1.8	96
-195-M 67					195	67			21					165	3.2	25.3	2.9	99
-SLFB 6- 90-M 22	1	6	14	4	90	22	39	—	16.3	36	—	8	18	60	2.3	21.1	1.0	100
-110-M 42					110	42			18.4					80		22.8	1.6	103
-120-M 22					120	22	69		16.3					90	2.5	21.3	1.1	101
-135-M 67					135	67	39		21					105	2.4	24.9	2.6	106
-140-M 42					140	42	69		18.4					110	2.5	22.9	1.8	104
-150-M 22	2				150	22	28	71	16.3		50			120	3.1	21.6	1.1	102
-165-M 67	1				165	67	69	—	21		—			135	2.6	25.0	2.9	107
-170-M 42	2				170	42	28	71	18.4		50			140	3.1	23.3	1.8	105
-195-M 67					195	67			21					165	3.2	25.3	2.9	108
A100-SLSA 8-110-M 42	1	8	11	1.5	110	42	39	—	15.4	36	—	9	24	80	2.3	23.2	3.2	109
-135-M 67					135	67			18					105		25.8	5.4	112
-140-M 42					140	42	69		15.4					110	2.5	23.4	3.5	110
-165-M 67					165	67			18					135		26.0	5.8	113
-M 97						97	39		21.2						2.4	29.0	7.9	115
-170-M 42	2				170	42	28	71	15.4		50			140	3.1	23.7	3.4	111
-195-M 67					195	67			18					165		26.3	5.7	114
-M 97	1					97	69	—	21.2		—				2.6	29.1	8.5	116
-225-M 97	2				225		28	71			50			195	3.2	29.5	8.3	117
-SLSB 8-110-M 42	1	8	13	2.5	110	42	39	—	17.4	36	—	10	24	80	2.3	24.3	2.1	118
-135-M 67					135	67			20					105		27.5	3.6	121
-140-M 42					140	42	69		17.4					110	2.5	24.5	2.4	119
-165-M 67					165	67			20					135		27.7	4.0	122
-M 97						97	39		23.2						2.4	31.4	5.3	124
-170-M 42	2				170	42	28	71	17.4		50			140	3.1	24.8	2.4	120
-195-M 67					195	67			20					165		28	3.9	123
-M 97	1					97	69	—	23.2		—				2.6	31.5	5.9	125
-M127						127	39		26.3						2.5	35.3	7.1	127
-225-M 97	2				225	97	28	71	23.2		50			195	3.2	31.9	5.8	126
-M127	1					127	69	—	26.3		—				2.7	35.4	7.9	128
-M157						157	39		29.5						2.6	39.1	8.7	130
-255-M127	2				255	127	28	71	26.3		50			225	3.3	35.7	7.7	129
-M157	1					157	69	—	29.5		—				2.9	39.3	9.7	131
-285-M157	2				285		28	71			50			255	3.4	39.6	9.5	132
-SLRB 8- 90-M 22	1	8	18	5	90	22	39	—	20.3	36	—	10	24	60	2.3	21.8	0.7	133
-110-M 42					110	42			22.4					80		24.4	1.1	136
-120-M 22					120	22	69		20.3					90	2.5	22	0.9	134
-135-M 67					135	67	39		25					105	2.4	27.6	1.7	139
-140-M 42					140	42	69		22.4					110	2.6	24.5	1.3	137
-150-M 22	2				150	22	28	71	20.3		50			120	3.1	22.3	0.8	135
-165-M 67	1				165	67	69	—	25		—			135	2.6	27.8	2.0	140
-170-M 42	2				170	42	28	71	22.4		50			140	3.1	24.9	1.3	138
-195-M 67					195	67			25					165	3.2	28.1	2.0	141
-SLFB 8- 90-M 22	1	8	18	5	90	22	39	—	20.3	36	—	10	24	60	2.3	21.8	0.7	142
-110-M 42					110	42			22.4					80		24.4	1.1	145
-120-M 22					120	22	69		20.3					90	2.5	22.0	0.9	143
-135-M 67					135	67	39		25					105	2.4	27.6	1.7	148
-140-M 42					140	42	69		22.4					110	2.6	24.5	1.3	146
-150-M 22	2				150	22	28	71	20.3		50			120	3.1	22.3	0.8	144
-165-M 67	1				165	67	69	—	25		—			135	2.6	27.8	2.0	149
-170-M 42	2				170	42	28	71	22.4		50			140	3.1	24.9	1.3	147
-195-M 67					195	67			25					165	3.2	28.1	2.0	150

A100

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLSA10-110-M 42	1	10	13	1.5	110	42	39	—	17.4	36	—	11	30	80	2.3	24.6	2.3	151
-135-M 67					135	67			20					105		28.5	4.0	154
-140-M 42					140	42	69		17.4					110	2.5	24.8	2.6	152
-165-M 67					165	67			20					135		28.6	4.4	155
-M 97					97	39			23.2						2.4	33.2	6.0	157
-170-M 42	2				170	42	28	71	17.4		50			140	3.1	25.1	2.5	153
-195-M 67					195	67			20					165		29.0	4.4	156
-M 97	1					97	69	—	23.2		—				2.6	33.3	6.6	158
-225-M 97	2				225		28	71			50			195	3.2	33.7	6.5	159
-SLSB10-110-M 42	1	10	16	3	110	42	39	—	20.4	36	—	12	30	80	2.3	25.8	1.4	160
-135-M 67					135	67			23					105	2.4	30.4	2.4	163
-140-M 42					140	42	69		20.4					110	2.5	25.9	1.7	161
-165-M 67					165	67			23					135	2.6	30.5	2.8	164
-M 97					97	39			26.2						2.5	35.9	3.7	166
-170-M 42	2				170	42	28	71	20.4		50			140	3.1	26.3	1.7	162
-195-M 67					195	67			23					165	3.2	30.9	2.7	165
-M 97	1				97	69	—		26.2		—				2.7	36.1	4.2	167
-M127					127	39			29.3	50					2.8	42.1	4.4	169
-225-M 97	2				225	97	28	71	26.2	36	50			195	3.2	36.4	4.1	168
-M127	1					127	69	—	29.3	50	—				3.1	42.5	4.7	170
-M157					157	39			32.5						3.0	47.7	5.5	172
-255-M127					255	127	99		29.3					225	3.5	42.8	5.0	171
-M157						157	69		32.5						3.3	48.1	5.8	173
-285-M157					285		99							255	3.6	48.4	6.1	174
-SLRB10- 90-M 22	1	10	22	6	90	22	39	—	24.3	36	—	12	30	60	2.3	22.2	0.6	175
-110-M 42					110	42			26.4					80	2.4	25.9	0.8	178
-120-M 22					120	22	69		24.3					90	2.5	22.3		176
-135-M 67					135	67	39		29					105		30.5	1.2	181
-140-M 42					140	42	69		26.4					110	2.6	26.0	1.1	179
-150-M 22	2				150	22	28	71	24.3		50			120	3.1	22.7	0.7	177
-165-M 67	1				165	67	69	—	29		—			135	2.7	30.6	1.6	182
-170-M 42	2				170	42	28	71	26.4		50			140	3.2	26.3	1.0	180
-195-M 67					195	67			29					165	3.3	31.0	1.6	183
-SLFB10- 90-M 22	1	10	22	6	90	22	39	—	24.3	36	—	12	30	60	2.3	22.2	0.6	184
-110-M 42					110	42			26.4					80	2.4	25.9	0.8	187
-120-M 22					120	22	69		24.3					90	2.5	22.3		185
-135-M 67					135	67	39		29					105		30.5	1.2	190
-140-M 42					140	42	69		26.4					110	2.6	26.0	1.1	188
-150-M 22	2				150	22	28	71	24.3		50			120	3.1	22.7	0.7	186
-165-M 67	1				165	67	69	—	29		—			135	2.7	30.6	1.6	191
-170-M 42	2				170	42	28	71	26.4		50			140	3.2	26.3	1.0	189
-195-M 67					195	67			29					165	3.3	31.0	1.6	192
A100-SLSA12-110-M 42	1	12	15	1.5	110	42	39	—	19.4	36	—	13	30	79	2.3	27.0	1.9	193
-135-M 67					135	67			22					104		32.5	3.3	196
-140-M 42					140	42	69		19.4					105	2.5	27.2	2.2	194
-165-M 67					165	67			22					130		32.6	3.7	197
-M 97					97	39			25.2					134		39.4	4.9	199
-170-M 42	2				170	42	28	71	19.4		50			135	3.1	27.5	2.1	195
-195-M 67					195	67			22					160		32.9	3.6	198
-M 97	1					97	69	—	25.2		—				2.7	39.6	5.5	200
-225-M 97	2				225		28	71			50			190	3.3	39.9	5.4	201

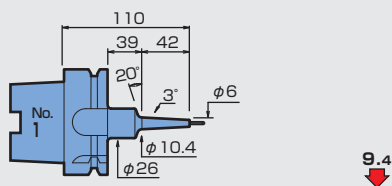
CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLSB12-110-M 42	1	12	19	3.5	110	42	39	—	23.4	36	—	14	30	79	2.3	28.4	1.1	202
-135-M 67					135	67			26					104	2.4	34.7	1.8	205
-140-M 42					140	42	69		23.4					105	2.5	28.5	1.4	203
-165-M 67					165	67			26					130	2.6	34.8	2.3	206
-M 97						97	39		29.2	50					2.7	42.9	2.4	208
-170-M 42	2				170	42	28	71	23.4	36	50			135	3.1	28.9	1.4	204
-195-M 67					195	67			26					160	3.2	35.2	2.2	207
-M 97	1					97	69	—	29.2	50	—				3.1	43.2	2.6	209
-M127						127	39		32.3						2.9	50.4	3.2	211
-225-M 97					225	97	99		29.2					190	3.4	43.6	2.8	210
-M127						127	69		32.3						3.2	50.8	3.5	212
-M157						157	39		35.5						3.1	58.0	4.0	214
-255-M127					255	127	99		32.3					220	3.6	51.1	3.8	213
-M157						157	69		35.5						3.4	58.3	4.3	215
-285-M157					285		99							250	3.7	58.7	4.7	216
-SLRB12- 90-M 22	1	12	26	7	90	22	39	—	28.3	50	—	14	30	55	2.6	26.5	0.4	217
-110-M 42					110	42			30.4					75	2.7	29.2	0.5	220
-120-M 22					120	22	69		28.3					85	2.9	26.8		218
-135-M 67					135	67	39		33					100	2.7	35.5	0.8	223
-140-M 42					140	42	69		30.4					105	3.0	29.6	0.6	221
-150-M 22					150	22	99		28.3					115	3.2	27.2		219
-165-M 67					165	67	69		33					130	3.1	35.8	0.9	224
-170-M 42					170	42	99		30.4					135	3.3	29.9	0.8	222
-195-M 67					195	67			33					160	3.4	36.2	1.1	225
-SLFB12- 90-M 22	1	12	26	7	90	22	39	—	28.3	50	—	14	30	55	2.6	26.5	0.4	226
-110-M 42					110	42			30.4					75	2.7	29.2	0.5	229
-120-M 22					120	22	69		28.3					85	2.9	26.8		227
-135-M 67					135	67	39		33					100	2.7	35.5	0.8	232
-140-M 42					140	42	69		30.4					105	3.0	29.6	0.6	230
-150-M 22					150	22	99		28.3					115	3.2	27.2		228
-165-M 67					165	67	69		33					130	3.1	35.8	0.9	233
-170-M 42					170	42	99		30.4					135	3.3	29.9	0.8	231
-195-M 67					195	67			33					160	3.4	36.2	1.1	234
A100-SLSB16-110-M 42	1	16	24	4	110	42	39	—	28.4	50	—	18	32	75	2.6	34.7	0.7	235
-135-M 67					135	67			31					100	2.7	45.0	1.1	238
-140-M 42					140	42	69		28.4					105	2.9	35.0	0.8	236
-165-M 67					165	67			31					130	3.0	45.4	1.2	239
-M 97						97	39		34.2						2.8	57.4	1.6	241
-170-M 42					170	42	99		28.4					135	3.2	35.4	0.9	237
-195-M 67					195	67			31					160	3.3	45.7	1.4	240
-M 97						97	69		34.2						3.1	57.8	1.8	242
-M127						127	39		37.3						3.0	69.8	2.2	244
-225-M 97					225	97	99		34.2					190	3.5	58.1	2.1	243
-M127						127	69		37.3						3.3	70.2	2.5	245
-M157						157	39		40.5						3.2	82.3	2.7	247
-255-M127					255	127	99		37.3					220	3.7	70.6	2.8	246
-M157						157	69		40.5						3.6	82.6	3.1	248
-285-M157					285		99							250	3.9	83.0	3.5	249
-SLRB16- 90-M 22	1	16	32	8	90	22	39	—	34.3	50	—	18	32	55	2.6	26.5	0.3	250
-110-M 42					110	42			36.4					75	2.7	34.8	0.4	253
-120-M 22					120	22	69		34.3					85	2.9	26.9		251
-135-M 67					135	67	39		39					100		45.2	0.6	256
-140-M 42					140	42	69		36.4					105	3.1	35.2	0.5	254
-150-M 22					150	22	99		34.3					115	3.2	27.2		252
-165-M 67					165	67	69		39					130		45.5	0.7	257
-170-M 42					170	42	99		36.4					135	3.4	35.5		255
-195-M 67					195	67			39					160	3.6	45.9	0.9	258

CODE	Fig.	φD	φC	Thickness t	L	M	L ₁	L ₂	φC ₁	φC ₂	φC ₃	φD ₁	H	h	Kg	N	S	Scale model
A100-SLFB16- 90-M 22	1	16	32	8	90	22	39	—	34.3	50	—	18	32	55	2.6	26.5	0.3	259
-110-M 42					110	42			36.4					75	2.7	34.8	0.4	262
-120-M 22					120	22	69		34.3					85	2.9	26.9		260
-135-M 67					135	67	39		39					100		45.2	0.6	265
-140-M 42					140	42	69		36.4					105	3.1	35.2	0.5	263
-150-M 22					150	22	99		34.3					115	3.2	27.2		261
-165-M 67					165	67	69		39					130		45.5	0.7	266
-170-M 42					170	42	99		36.4					135	3.4	35.5		264
-195-M 67					195	67			39					160	3.6	45.9	0.9	267
A100-SLSB20-110-M 42	1	20	29	4.5	110	42	39	—	33.4	50	—	22	40	75	2.6	37.4	0.5	268
-135-M 67					135	67			36					100	2.7	52.8	0.8	271
-140-M 42					140	42	69		33.4					105	2.9	37.8	0.6	269
-165-M 67					165	67			36					130	3.1	53.2	1.0	272
-M 97						97	39		39.2						2.9	71.3	1.2	274
-170-M 42					170	42	99		33.4					135	3.3	38.1	0.8	270
-195-M 67					195	67			36					160	3.4	53.5	1.2	273
-M 97						97	69		39.2						3.2	71.7	1.4	275
-M127						127	39		42.3						3.1	91.0	1.6	277
-225-M 97					225	97	99		39.2					190	3.6	72.0	1.7	276
-M127						127	69		42.3						3.5	91.4	1.9	278
-M157						157	39		45.5						3.4	109.6	2.0	280
-255-M127					255	127	99		42.3					220	3.8	91.8	2.3	279
-M157						157	69		45.5						3.7	109.9	2.4	281
-285-M157					285		99							250	4.1	110.3	2.9	282
-SLRB20-110-M 42	1	20	38	9	110	42	39	—	42.4	50	—	22	40	75	2.8	37.5	0.4	283
-135-M 67					135	67			45					100	3.0	53.0	0.5	286
-140-M 42					140	42	69		42.4					105	3.1	37.9		284
-165-M 67					165	67			45					130	3.4	53.3	0.7	287
-170-M 42					170	42	99		42.4					135	3.5	38.2		285
-195-M 67					195	67			45					160	3.7	53.7	0.9	288
-SLFB20-110-M 42	1	20	38	9	110	42	39	—	42.4	50	—	22	40	75	2.8	37.5	0.4	289
-135-M 67					135	67			45					100	3.0	53.0	0.5	292
-140-M 42					140	42	69		42.4					105	3.1	37.9		290
-165-M 67					165	67			45					130	3.4	53.3	0.7	293
-170-M 42					170	42	99		42.4					135	3.5	38.2		291
-195-M 67					195	67			45					160	3.7	53.7	0.9	294
A100-SLRB25-110-M 42	1	25	45	10	110	42	39	—	49.7	50	—	26	45	75	2.9	40.7	0.3	295
-140-M 42					140		69							105	3.2	41.0	0.5	296
-170-M 42					170		99							135	3.5	41.4	0.7	297
-SLFB25-110-M 42	1	25	45	10	110	42	39	—	49.7	50	—	26	45	75	2.9	40.7	0.3	298
-140-M 42					140		69							105	3.2	41.0	0.5	299
-170-M 42					170		99							135	3.5	41.4	0.7	300

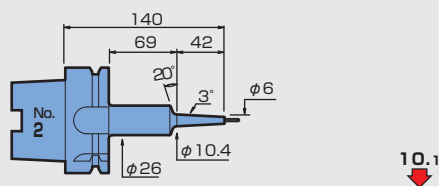
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φ3 SLSA t=1.5

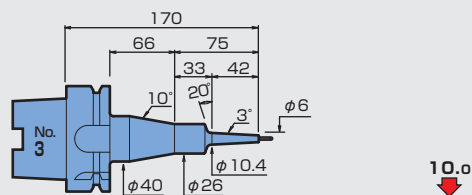
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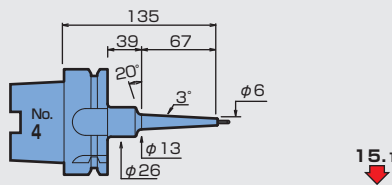
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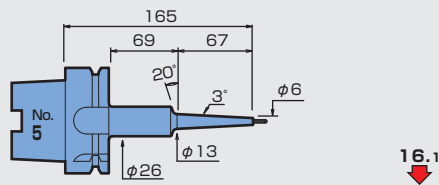
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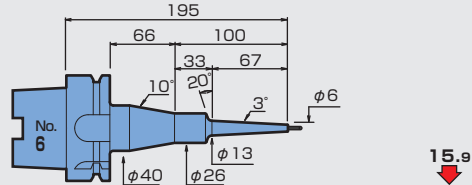
A100-SLSA3-135-M67



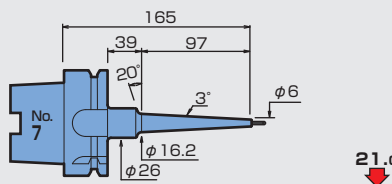
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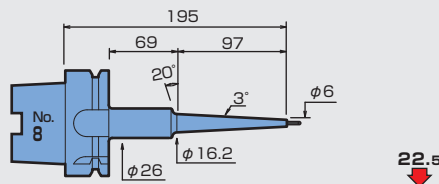
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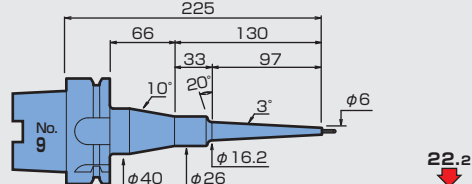
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A100-SLSA3-195-M97

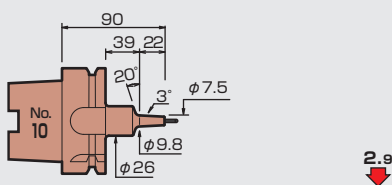


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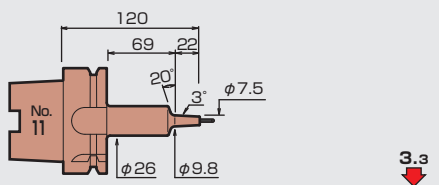


φ3 SLRA t=2.25

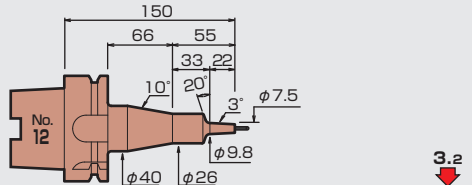
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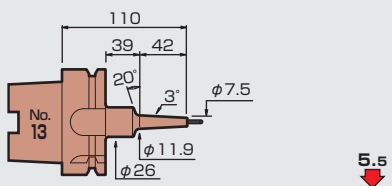
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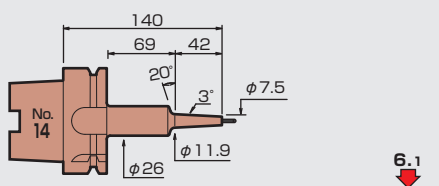
A100-SLRA3-150-M22



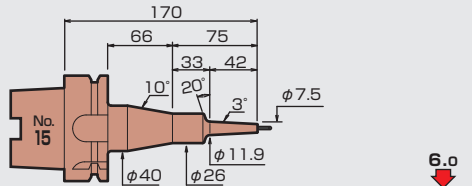
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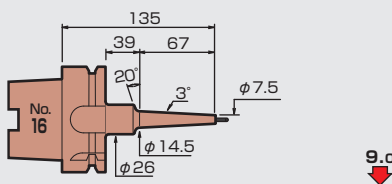
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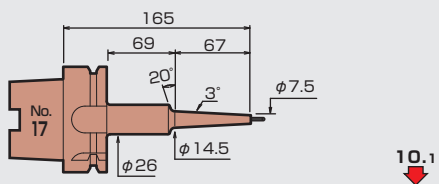
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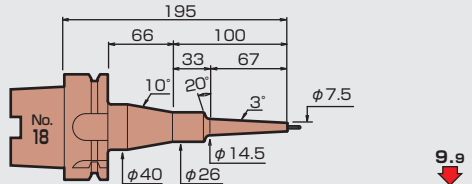
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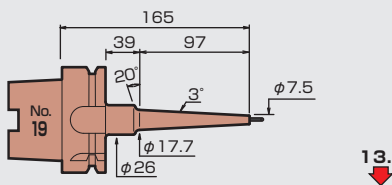
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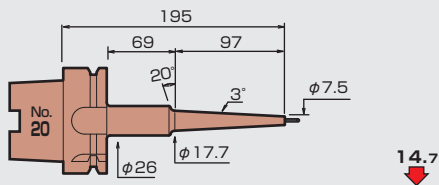
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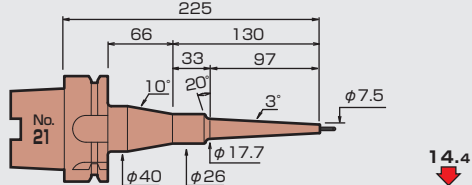
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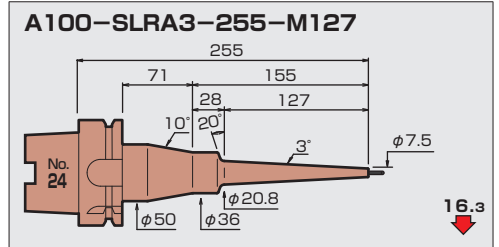
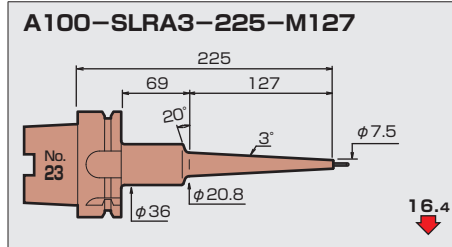
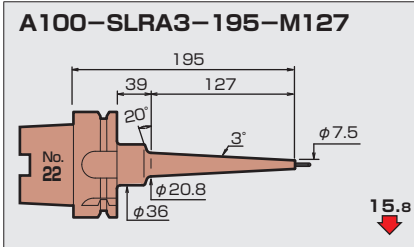


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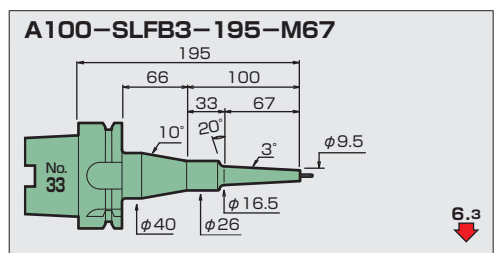
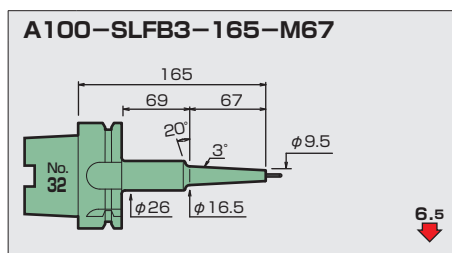
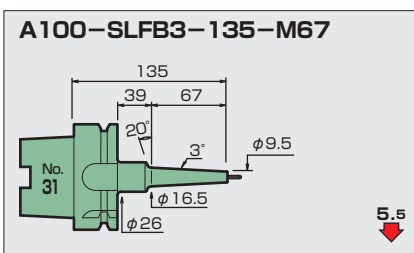
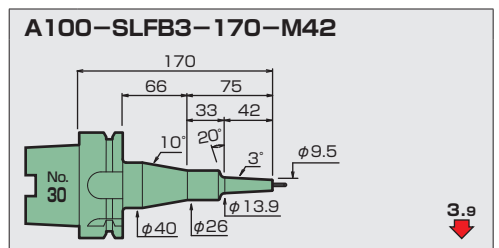
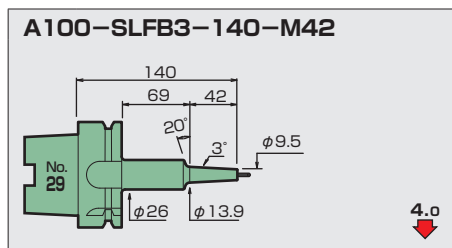
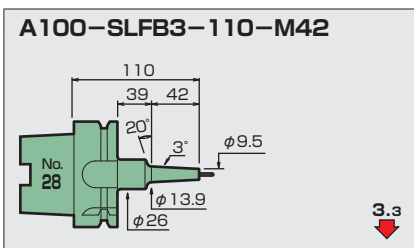
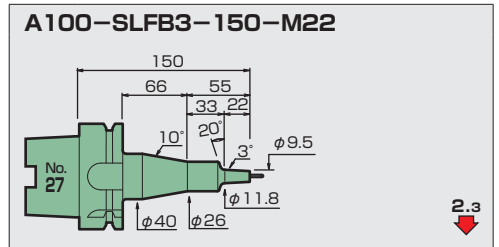
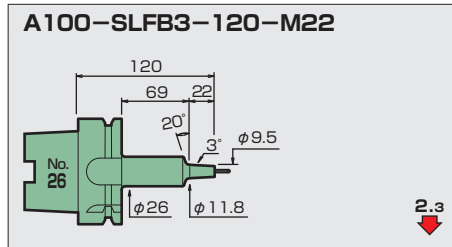
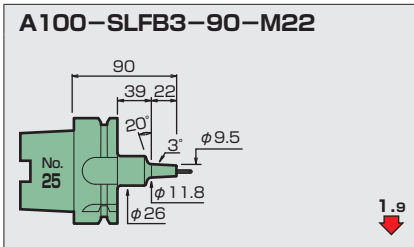


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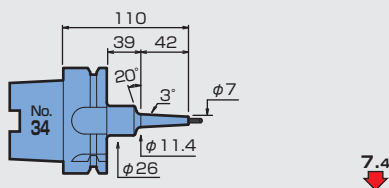


φ3 SLFB t=3.25

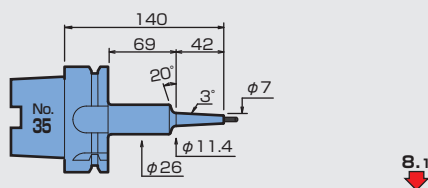


φ4 **SLSA** **t=1.5**

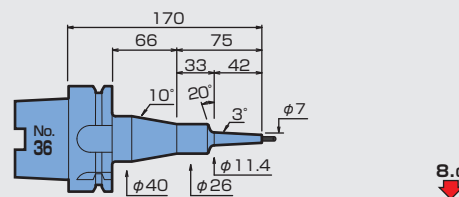
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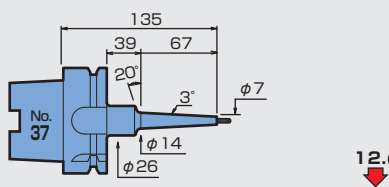
A100-SLSA4-140-M42



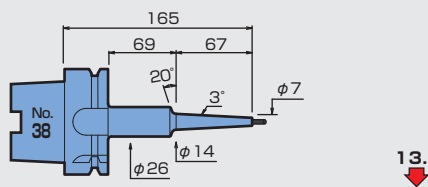
A100-SLSA4-170-M42



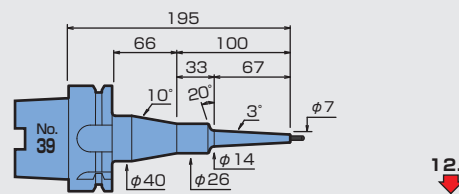
A100-SLSA4-135-M67



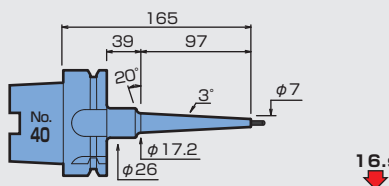
A100-SLSA4-165-M67



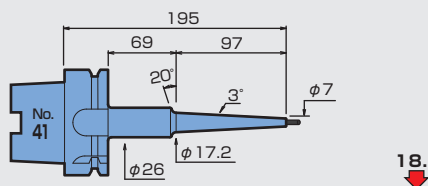
A100-SLSA4-195-M67



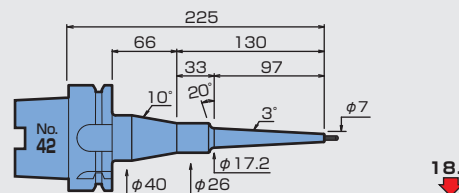
A100-SLSA4-165-M97



A100-SLSA4-195-M97

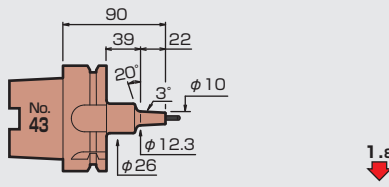


A100-SLSA4-225-M97

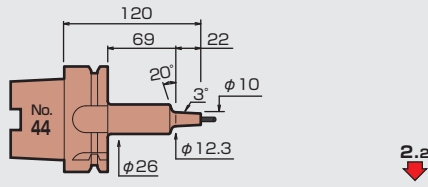


φ4 **SLRA** **t=3**

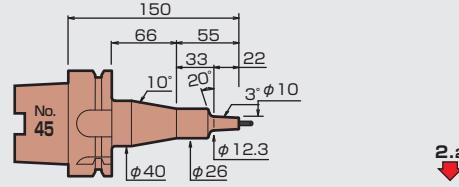
A100-SLRA4-90-M22



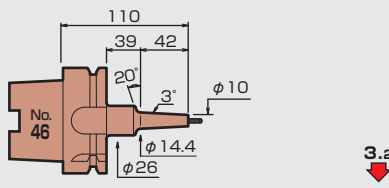
A100-SLRA4-120-M22



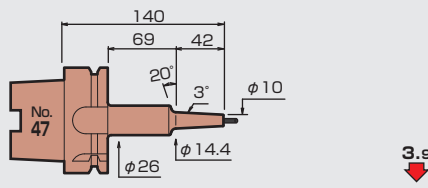
A100-SLRA4-150-M22



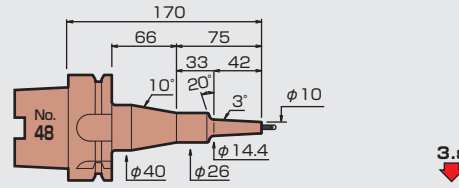
A100-SLRA4-110-M42



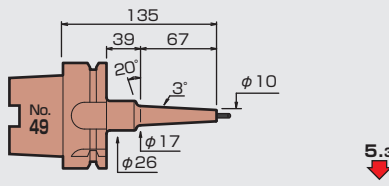
A100-SLRA4-140-M42



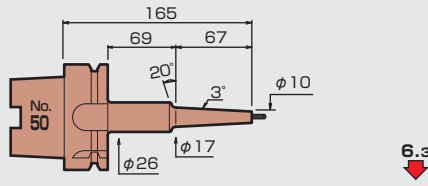
A100-SLRA4-170-M42



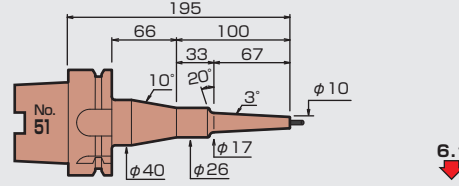
A100-SLRA4-135-M67



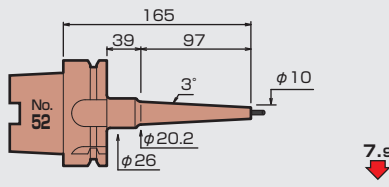
A100-SLRA4-165-M67



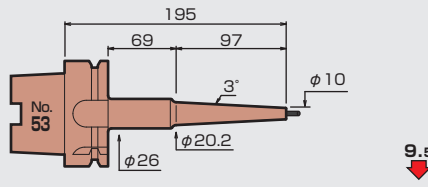
A100-SLRA4-195-M67



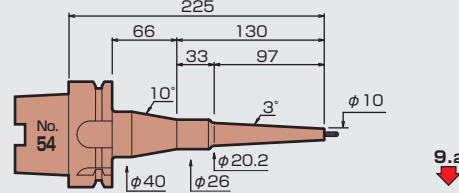
A100-SLRA4-165-M97

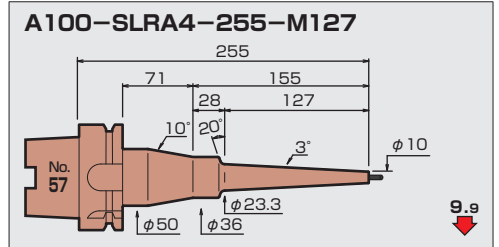
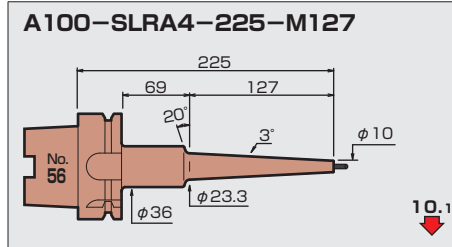
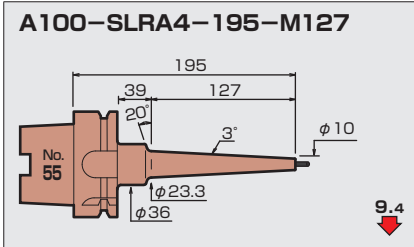


A100-SLRA4-195-M97

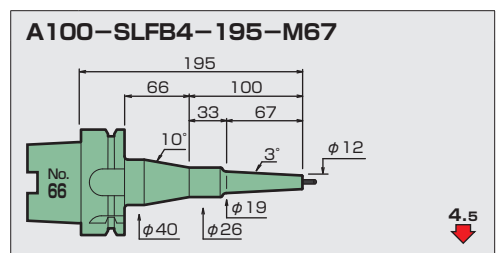
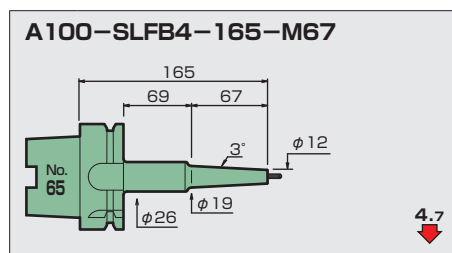
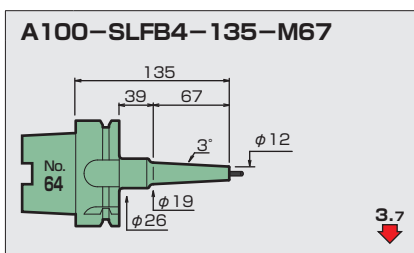
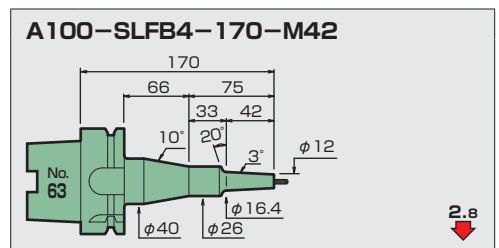
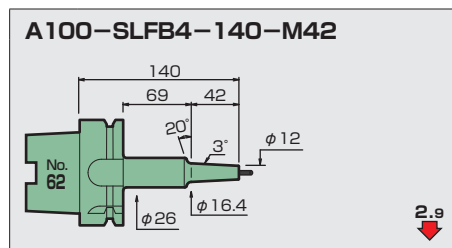
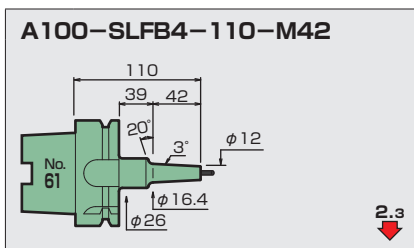
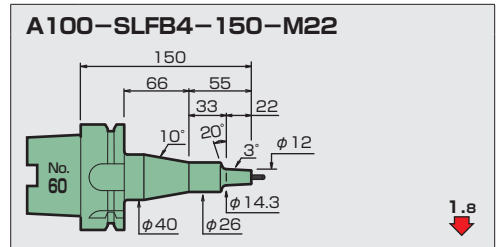
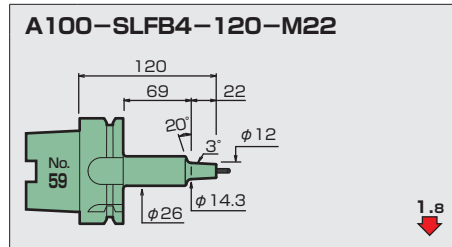
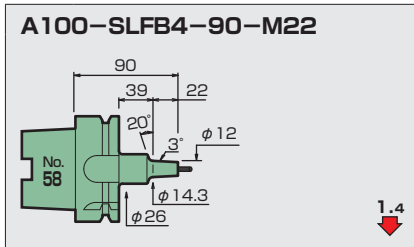


A100-SLRA4-225-M97



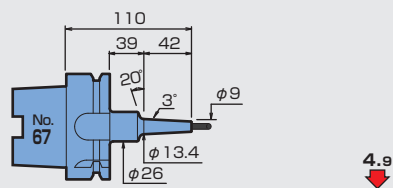


φ4 SLFB t=4

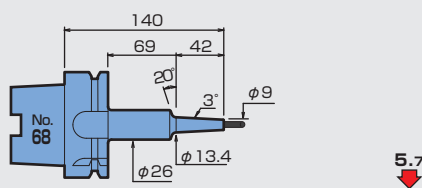


φ 6 SLSA $t=1.5$

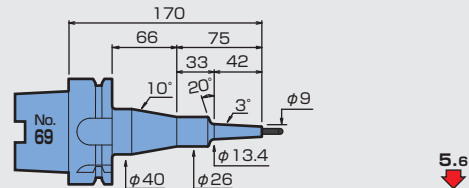
A100-SLSA6-110-M42



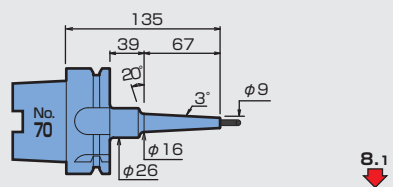
A100-SLSA6-140-M42



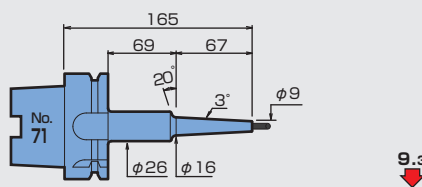
A100-SLSA6-170-M42



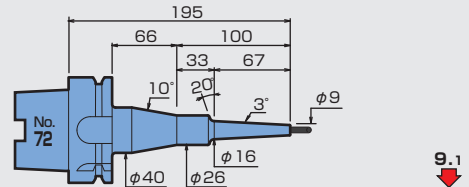
A100-SLSA6-135-M67



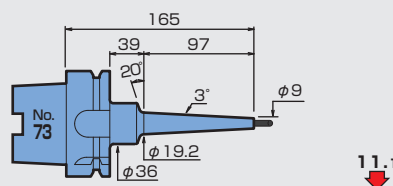
A100-SLSA6-165-M67



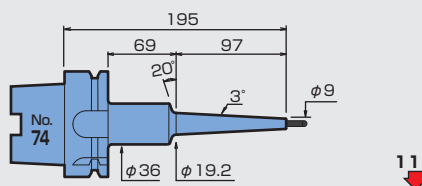
A100-SLSA6-195-M67



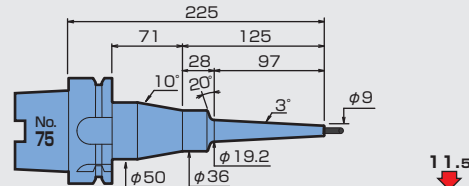
A100-SLSA6-165-M97



A100-SLSA6-195-M97

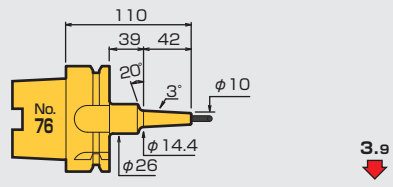


A100-SLSA6-225-M97

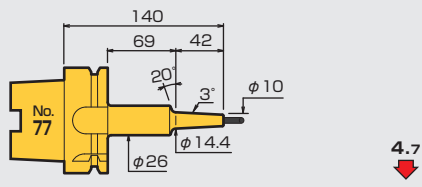


φ 6 SLSB $t=2$

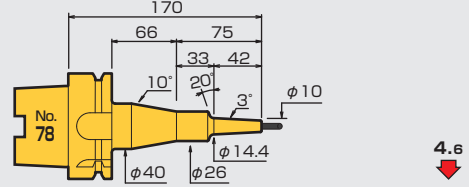
A100-SLSB6-110-M42



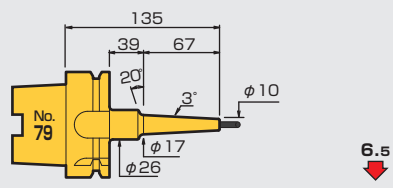
A100-SLSB6-140-M42



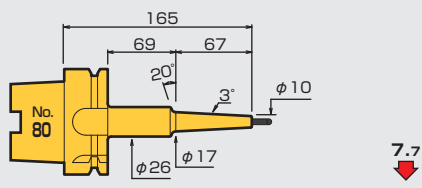
A100-SLSB6-170-M42



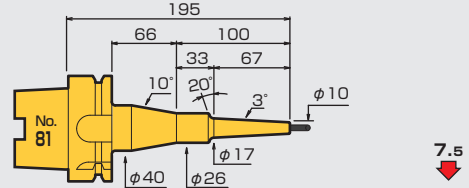
A100-SLSB6-135-M67



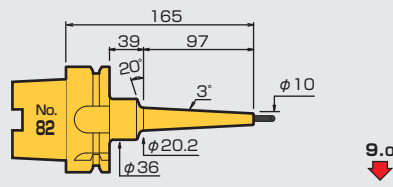
A100-SLSB6-165-M67



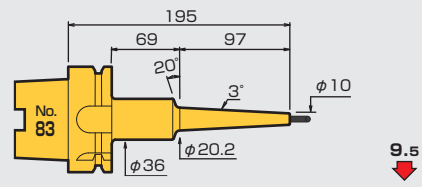
A100-SLSB6-195-M67



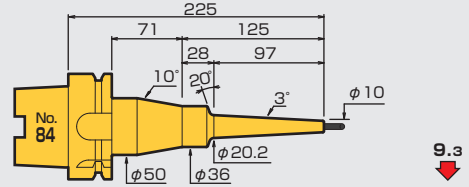
A100-SLSB6-165-M97



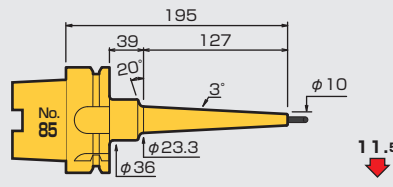
A100-SLSB6-195-M97



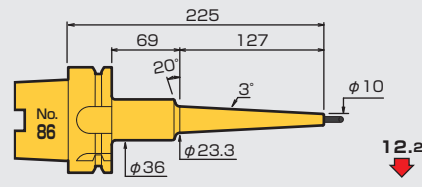
A100-SLSB6-225-M97



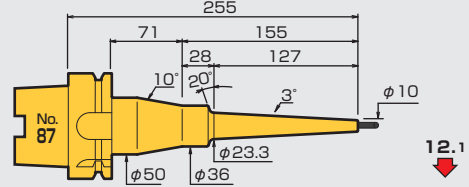
A100-SLSB6-195-M127

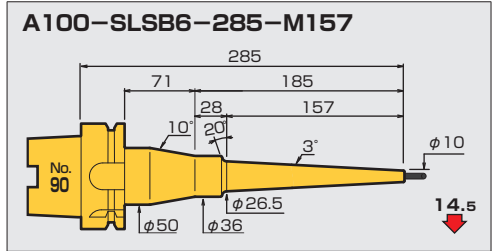
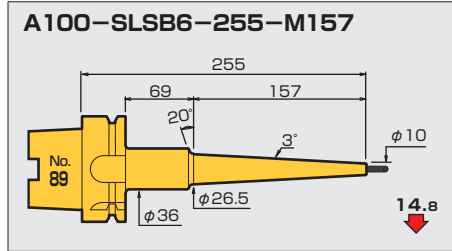
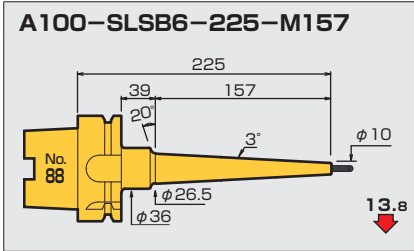


A100-SLSB6-225-M127

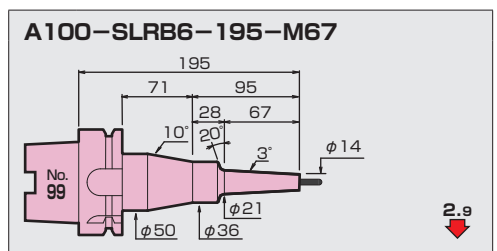
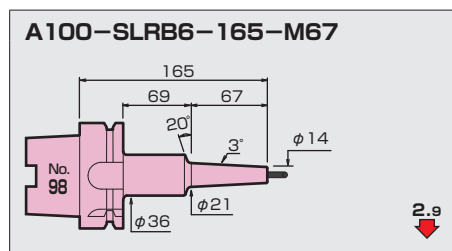
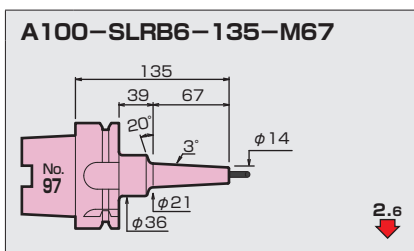
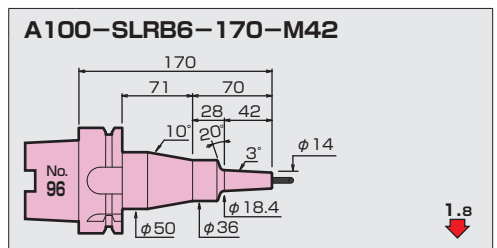
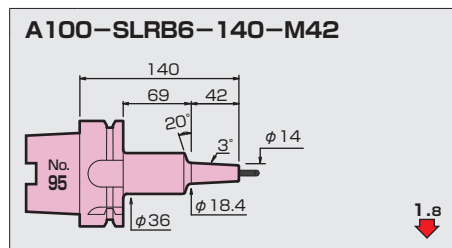
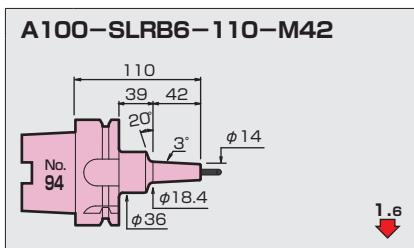
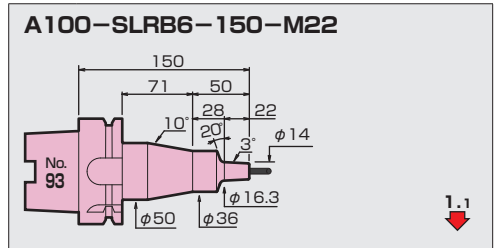
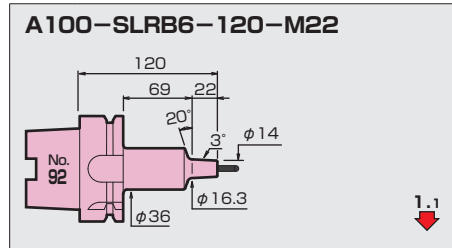
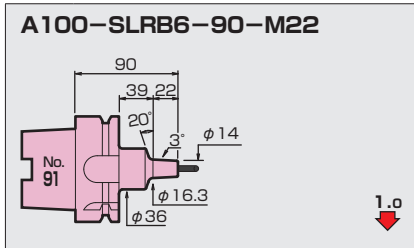


A100-SLSB6-255-M127

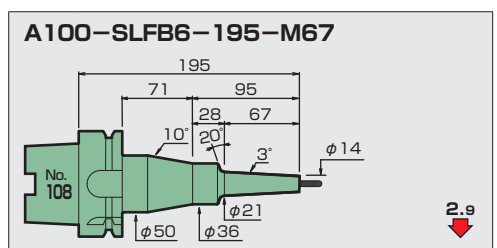
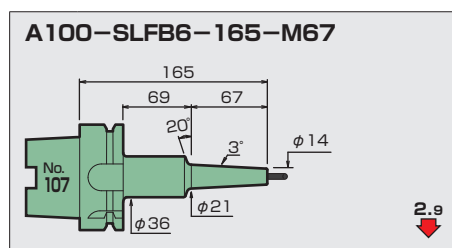
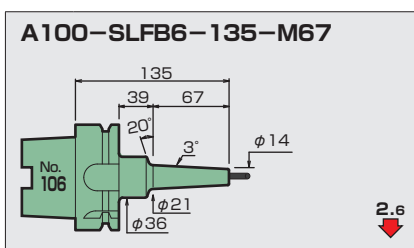
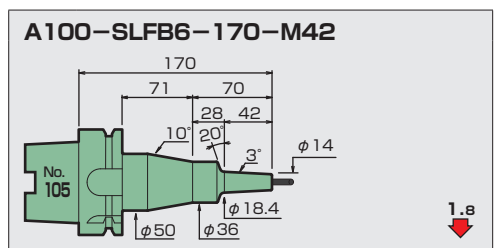
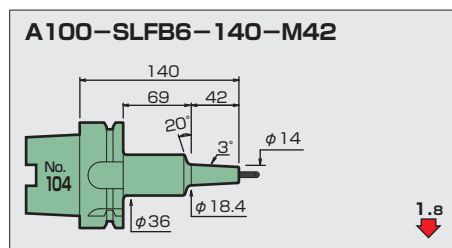
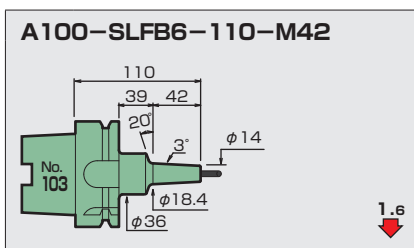
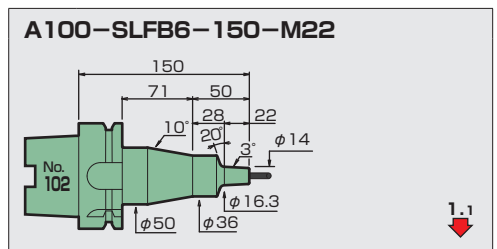
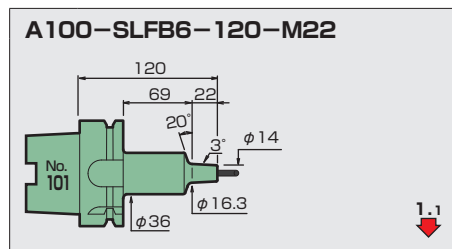
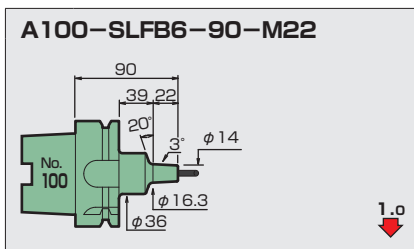




φ6 SLRB t=4

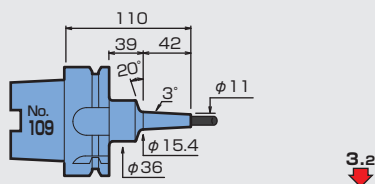


φ6 SLFB t=4

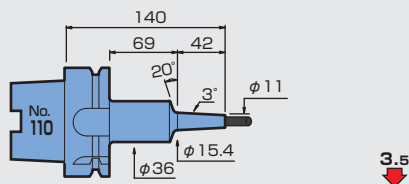


φ8 SLSA t=1.5

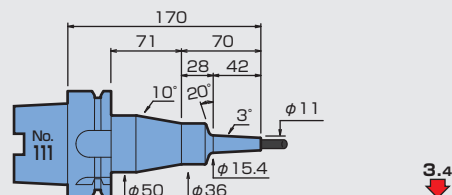
A100-SLSA8-110-M42



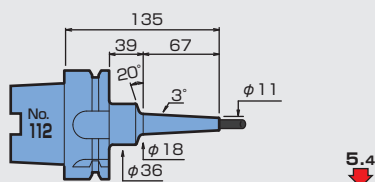
A100-SLSA8-140-M42



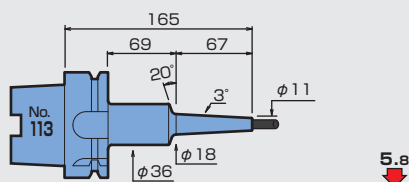
A100-SLSA8-170-M42



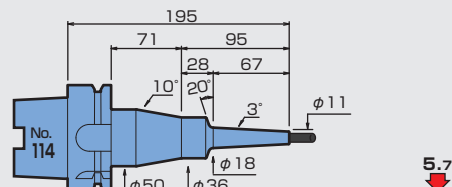
A100-SLSA8-135-M67



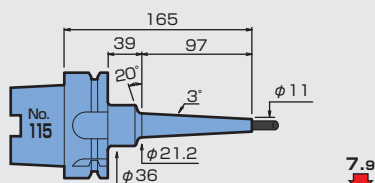
A100-SLSA8-165-M67



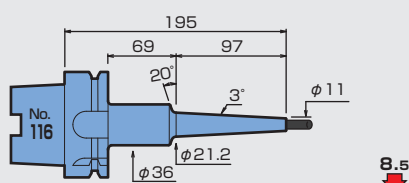
A100-SLSA8-195-M67



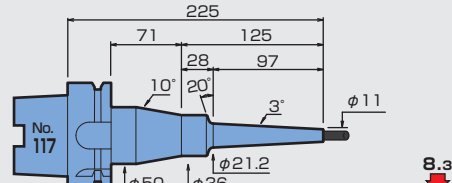
A100-SLSA8-165-M97



A100-SLSA8-195-M97

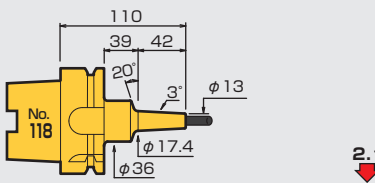


A100-SLSA8-225-M97

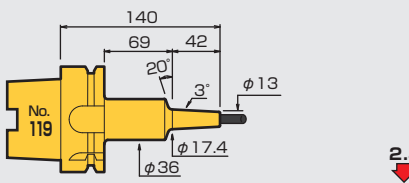


φ8 SL SB t=2.5

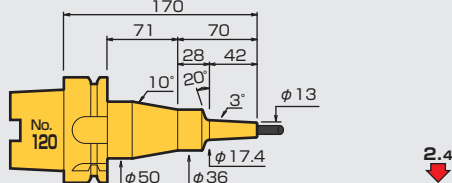
A100-SLSB8-110-M42



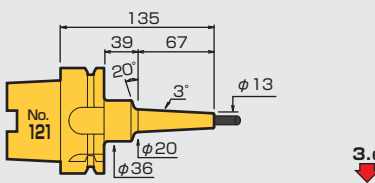
A100-SLSB8-140-M42



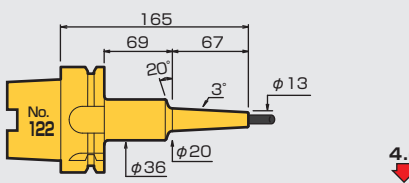
A100-SLSB8-170-M42



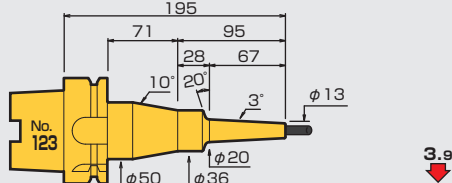
A100-SLSB8-135-M67



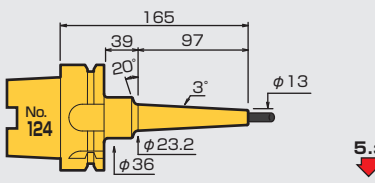
A100-SLSB8-165-M67



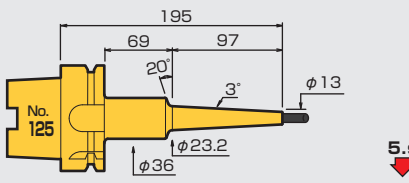
A100-SLSB8-195-M67



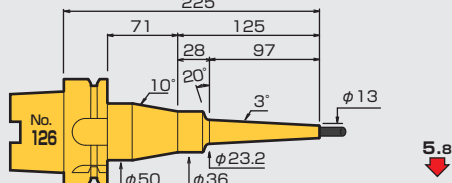
A100-SLSB8-165-M97



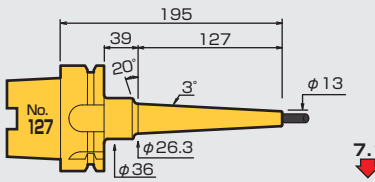
A100-SLSB8-195-M97



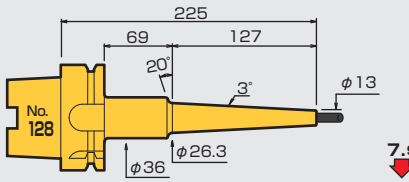
A100-SLSB8-225-M97



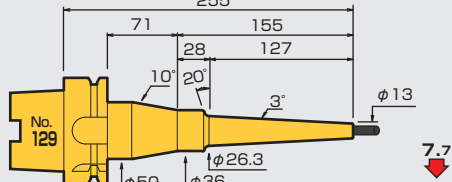
A100-SLSB8-195-M127

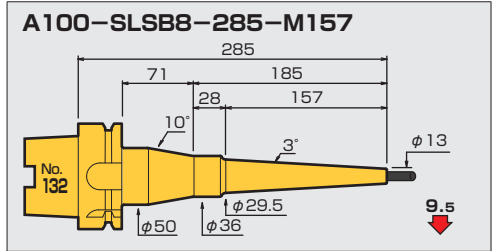
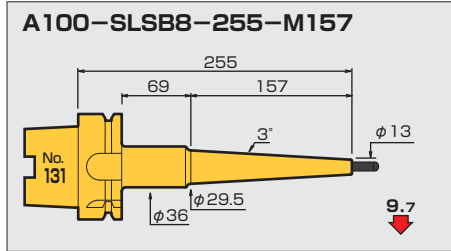
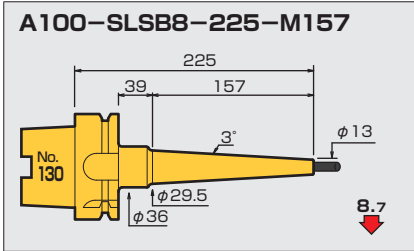


A100-SLSB8-225-M127

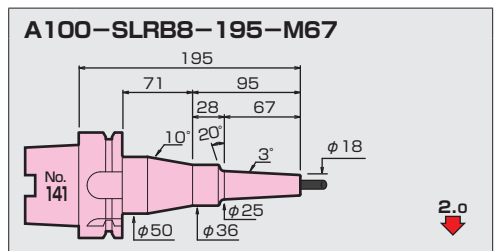
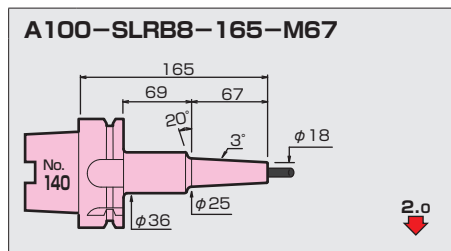
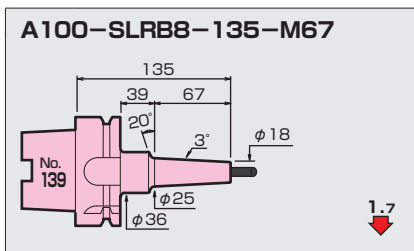
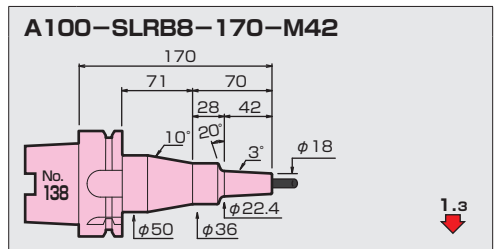
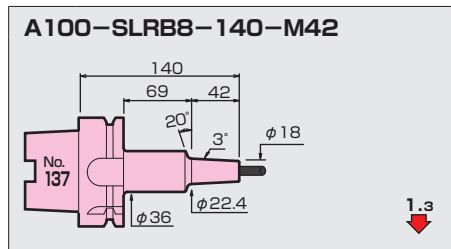
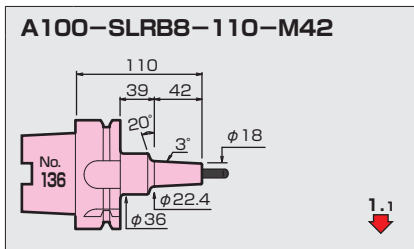
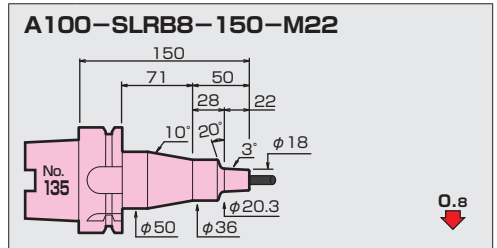
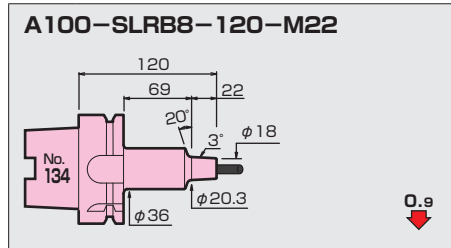
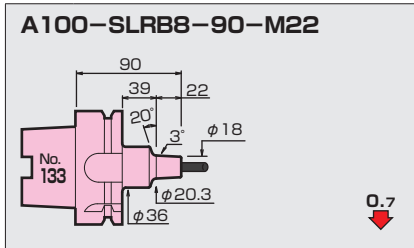


A100-SLSB8-255-M127

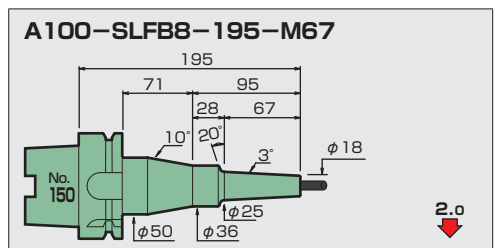
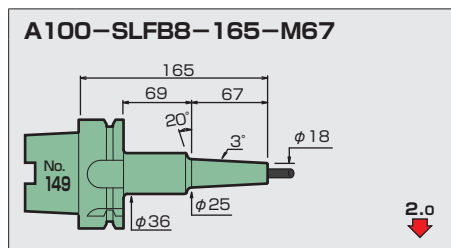
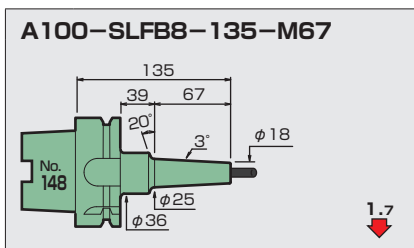
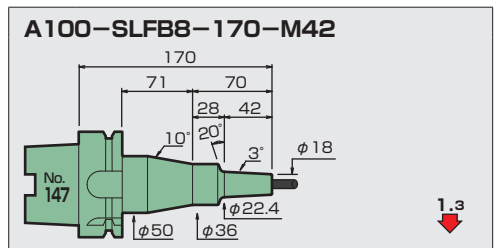
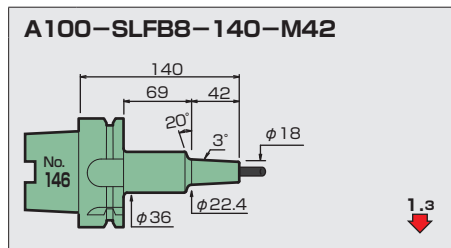
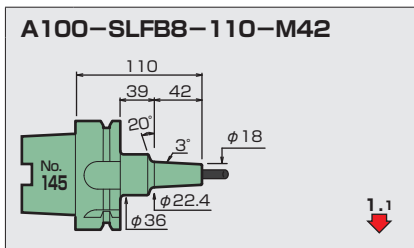
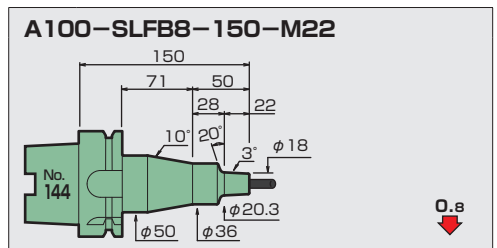
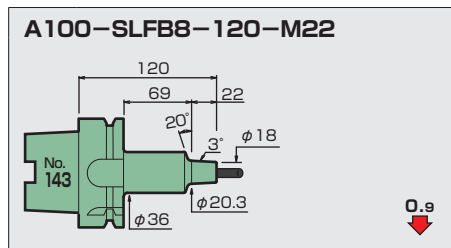
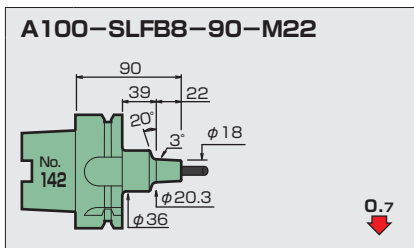




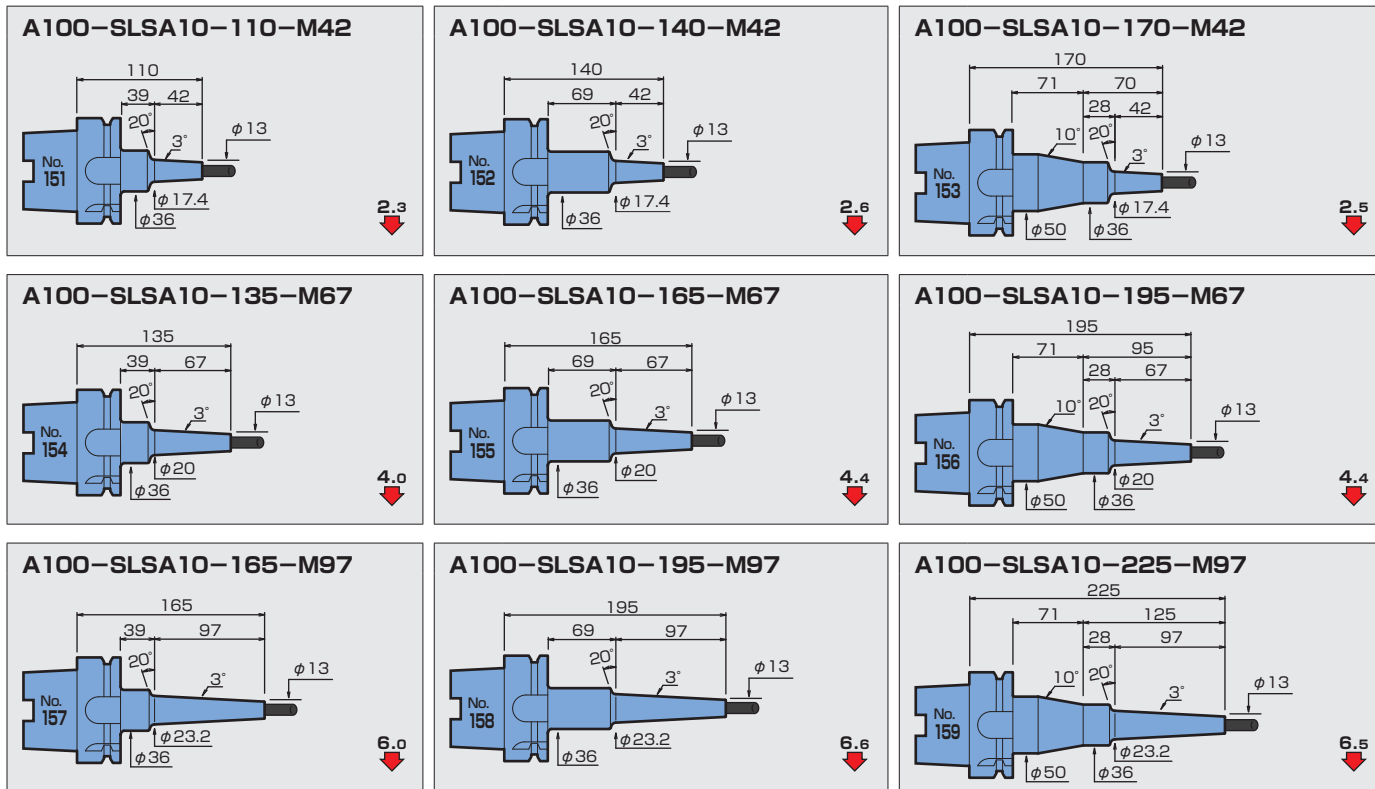
φ8 SLRB t=5



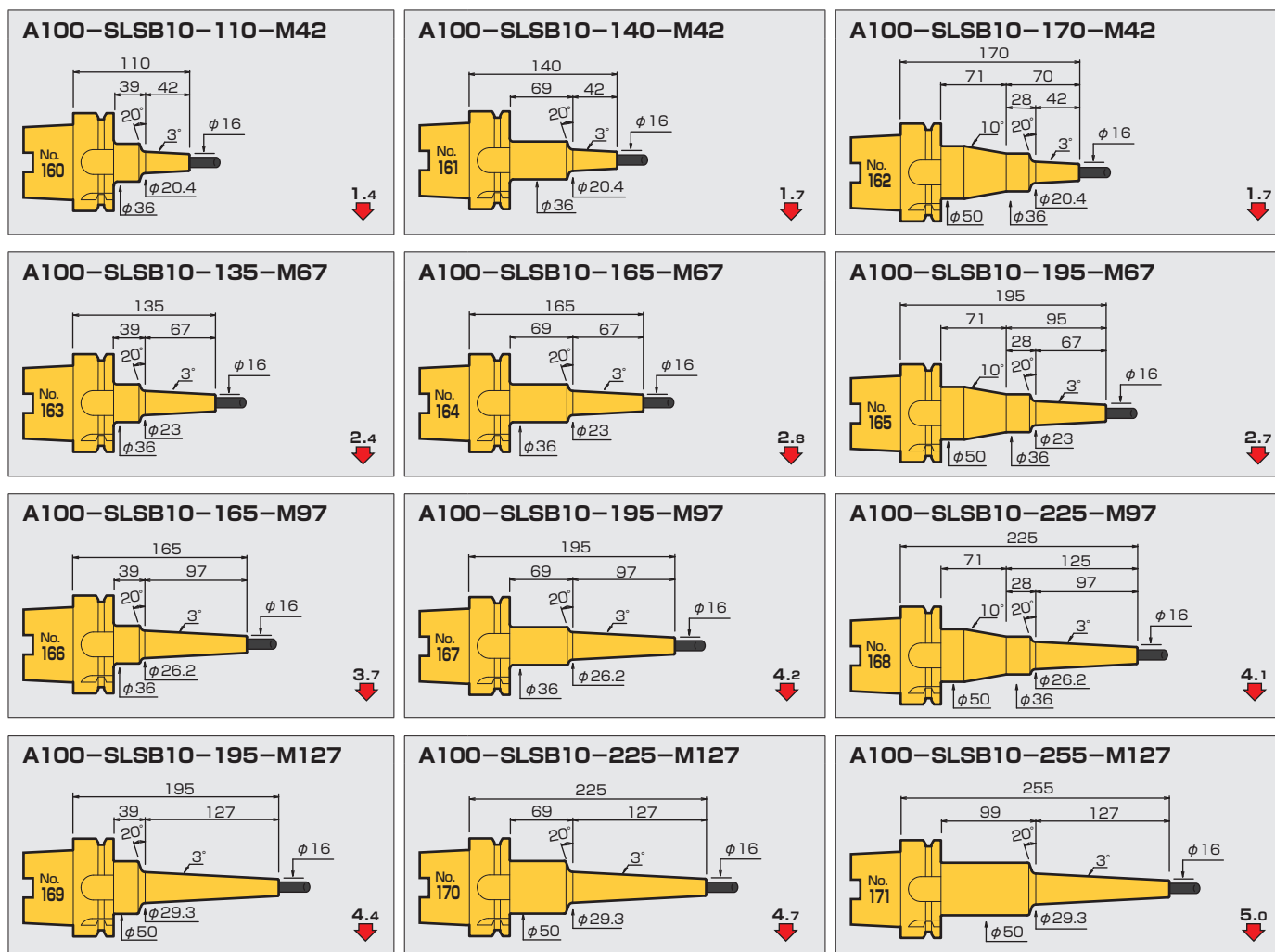
φ8 SLFB t=5

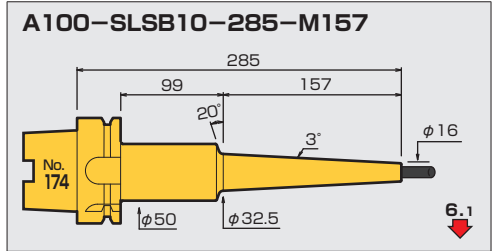
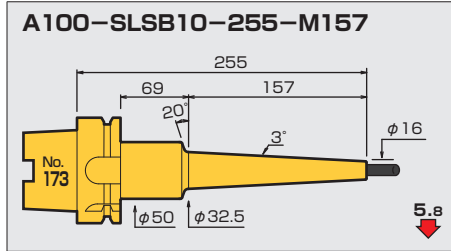
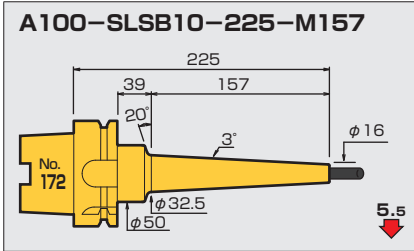


φ10 SLSA t=1.5

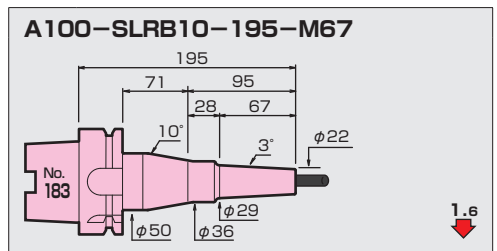
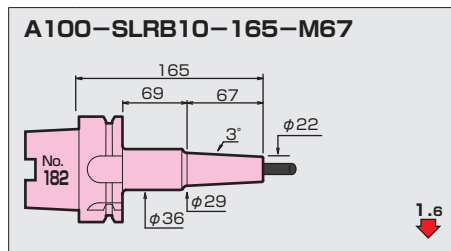
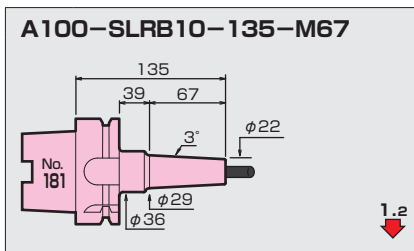
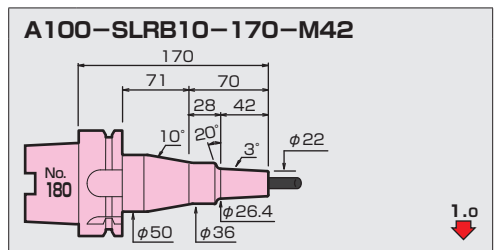
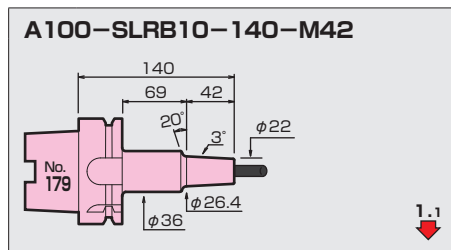
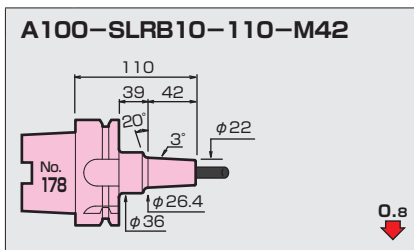
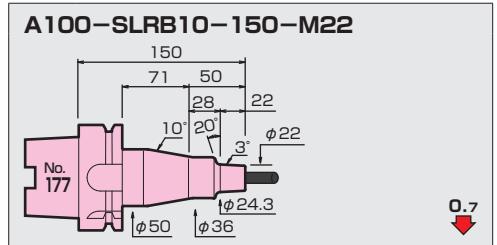
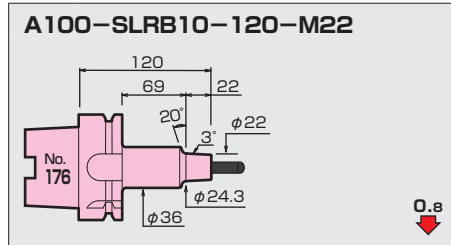
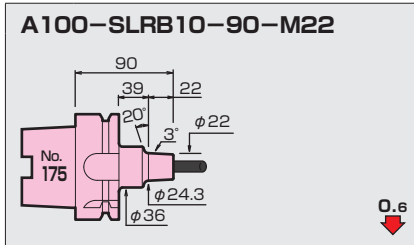


φ10 SLSB t=3

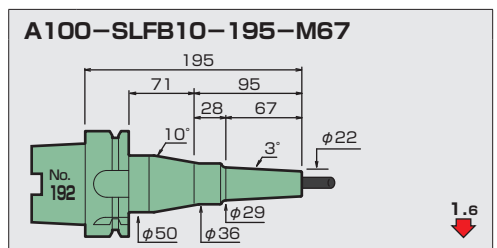
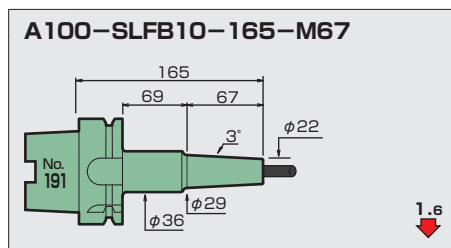
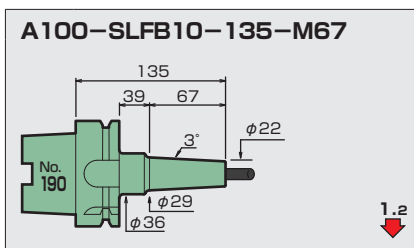
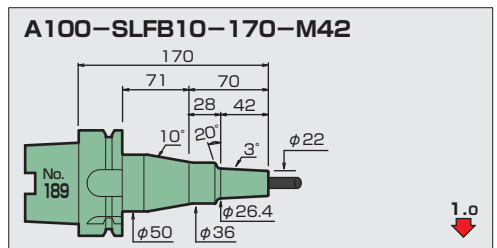
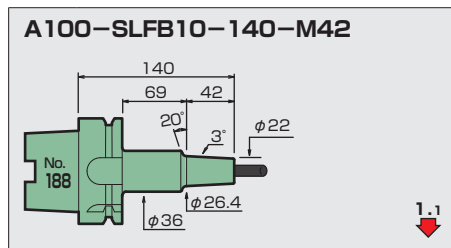
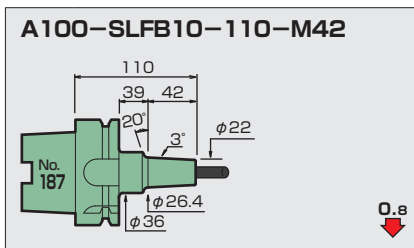
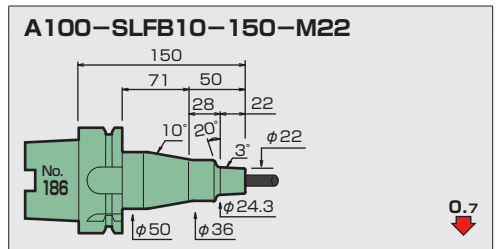
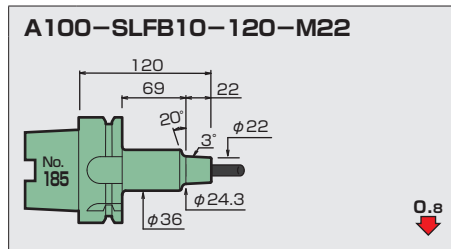
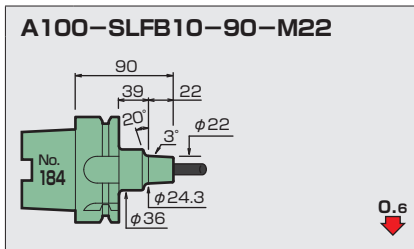




φ10 SLRB t=6

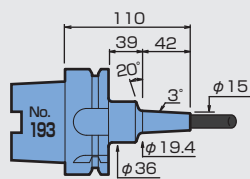


φ10 SLFB t=6



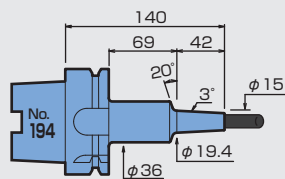
φ12 SLSA **t=1.5**

A100-SLSA12-110-M42



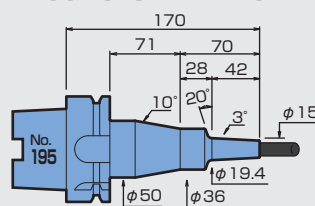
1.9

A100-SLSA12-140-M42



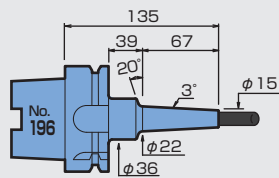
2.2

A100-SLSA12-170-M42



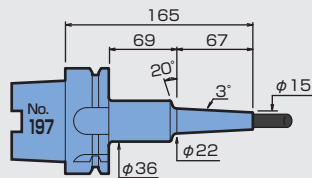
2.1

A100-SLSA12-135-M67



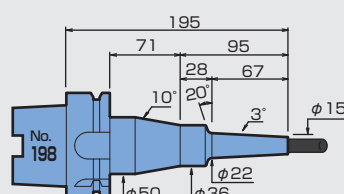
3.3

A100-SLSA12-165-M67



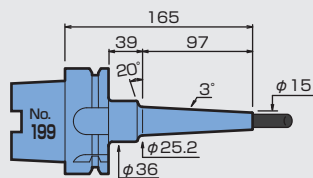
3.7

A100-SLSA12-195-M67



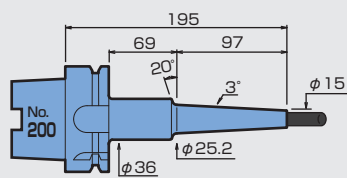
3.6

A100-SLSA12-165-M97



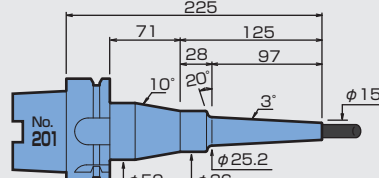
4.9

A100-SLSA12-195-M97



5.5

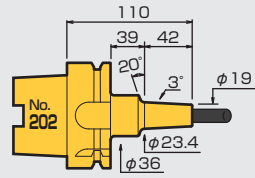
A100-SLSA12-225-M97



5.4

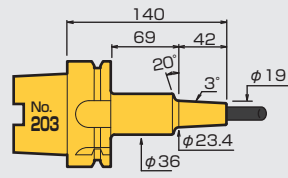
φ12 SLSB **t=3.5**

A100-SLSB12-110-M42



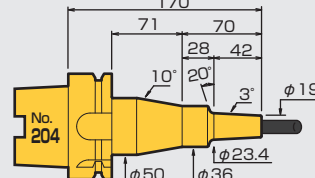
1.1

A100-SLSB12-140-M42



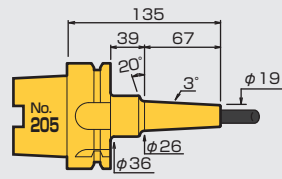
1.4

A100-SLSB12-170-M42



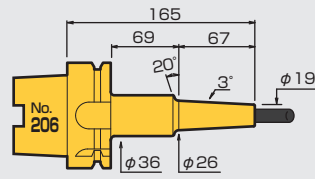
1.4

A100-SLSB12-135-M67



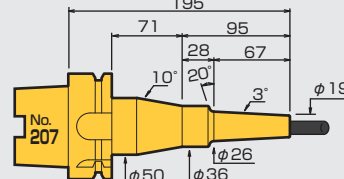
1.8

A100-SLSB12-165-M67



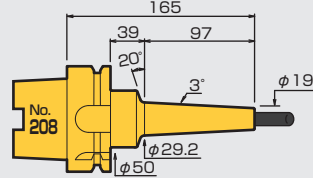
2.3

A100-SLSB12-195-M67



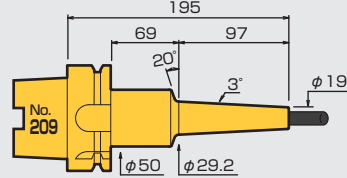
2.2

A100-SLSB12-165-M97



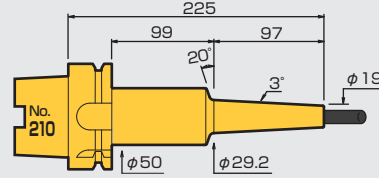
2.4

A100-SLSB12-195-M97



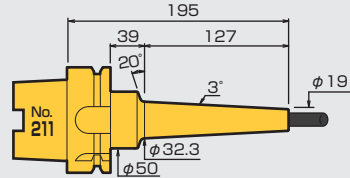
2.6

A100-SLSB12-225-M97



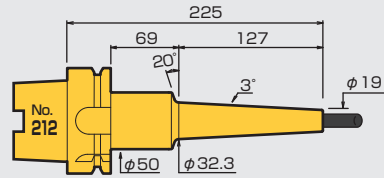
2.8

A100-SLSB12-195-M127



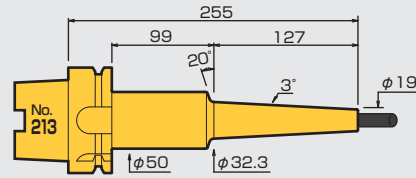
3.2

A100-SLSB12-225-M127

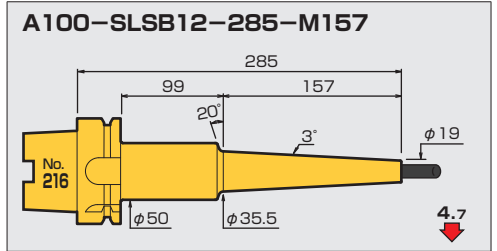
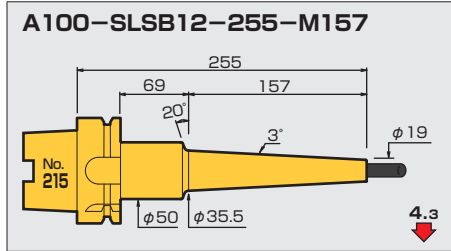
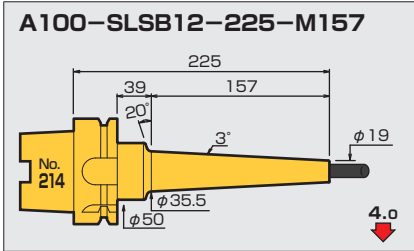


3.5

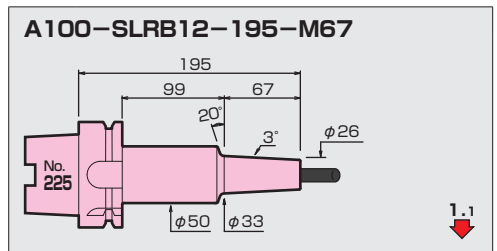
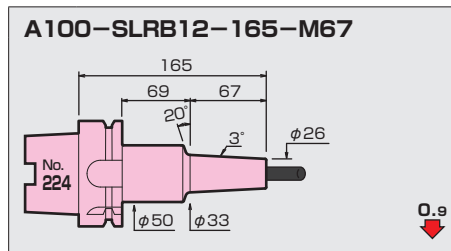
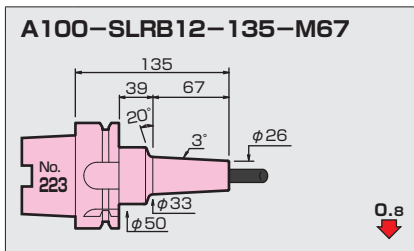
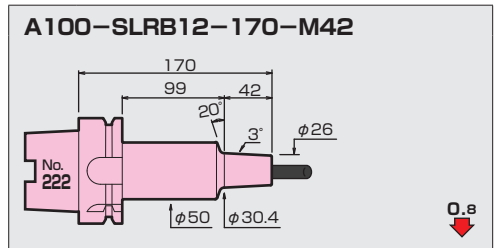
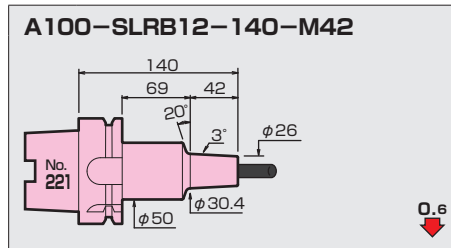
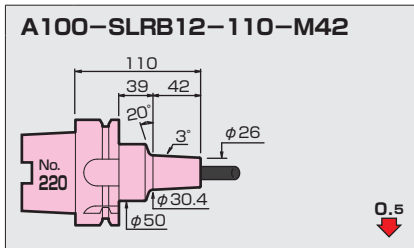
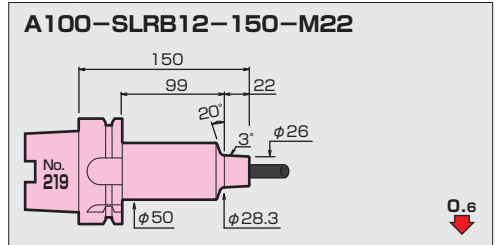
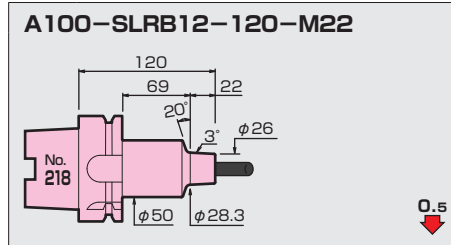
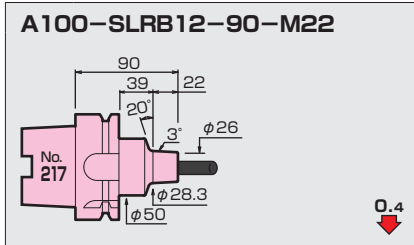
A100-SLSB12-255-M127



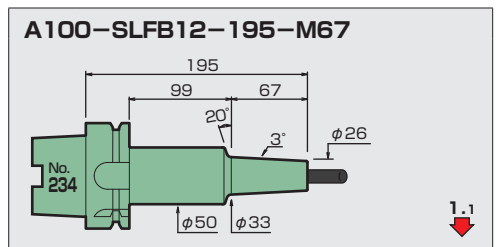
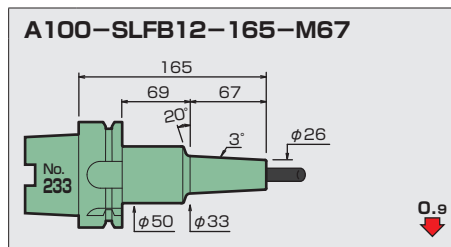
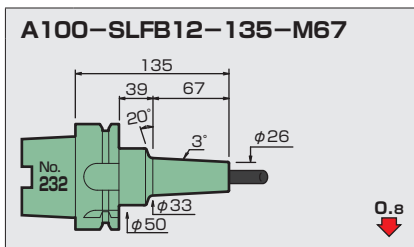
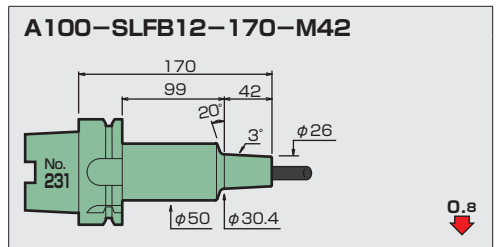
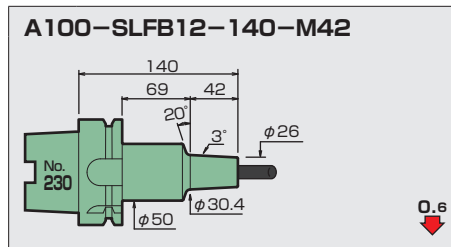
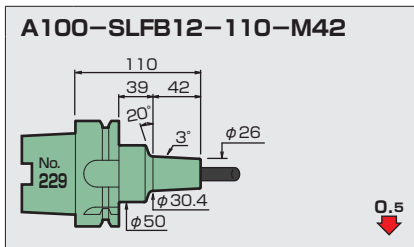
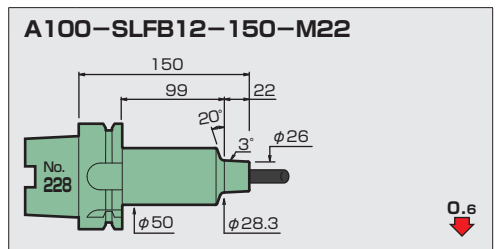
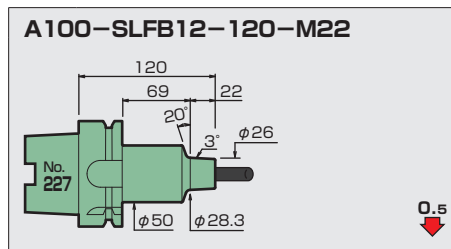
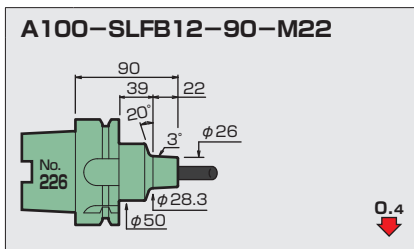
3.8



φ12 SLRB t=7

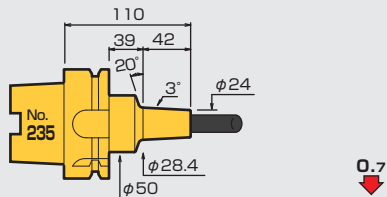


φ12 SLFB t=7

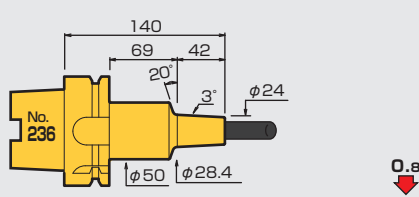


φ16 SLSB t=4

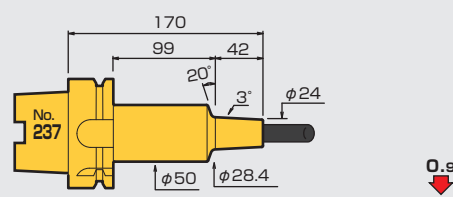
A100-SLSB16-110-M42



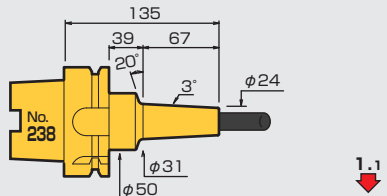
A100-SLSB16-140-M42



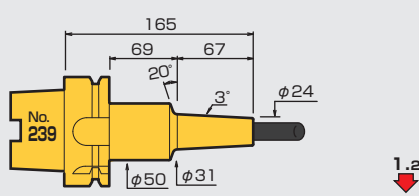
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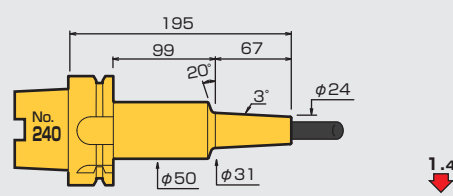
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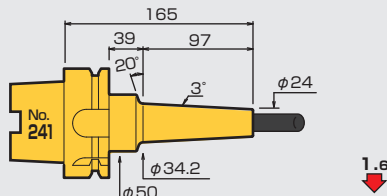
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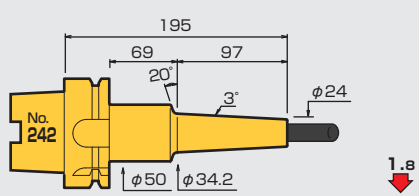
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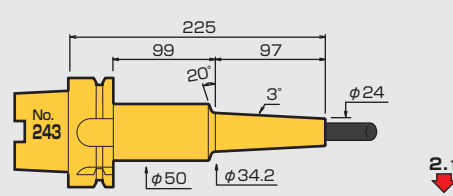
A100-SLSB16-165-M97



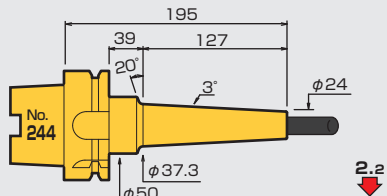
A100-SLSB16-195-M97



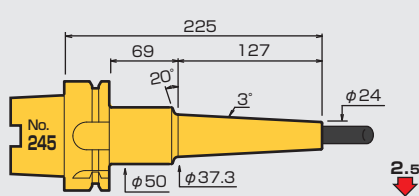
A100-SLSB16-225-M97



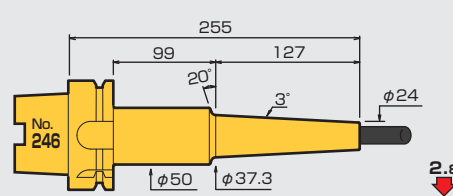
A100-SLSB16-195-M127



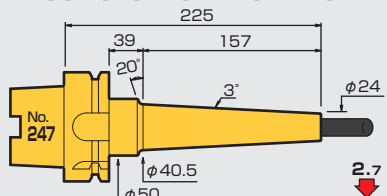
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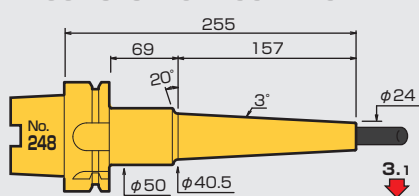
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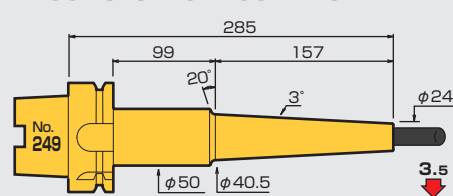
A100-SLSB16-225-M157



A100-SLSB16-255-M157

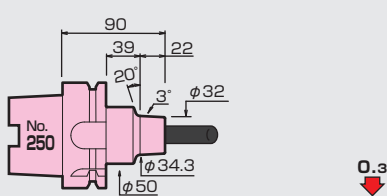


A100-SLSB16-285-M157

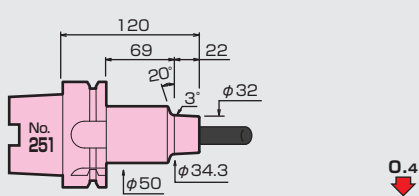


φ16 SLRB t=8

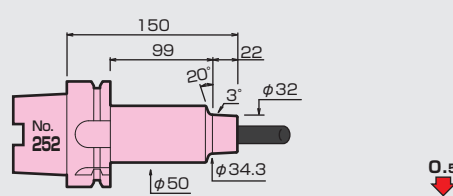
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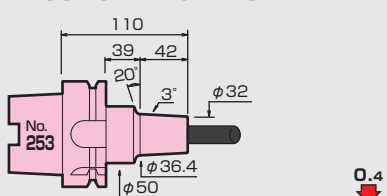
A100-SLRB16-120-M22



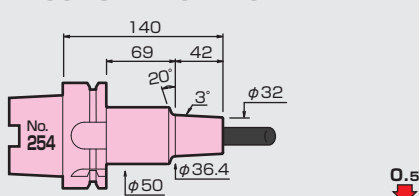
A100-SLRB16-150-M22



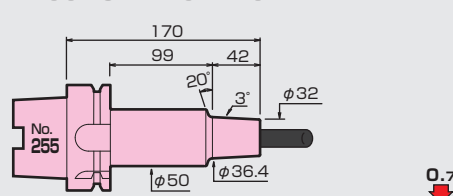
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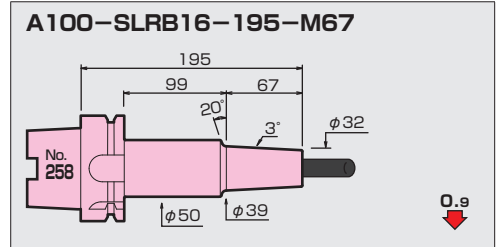
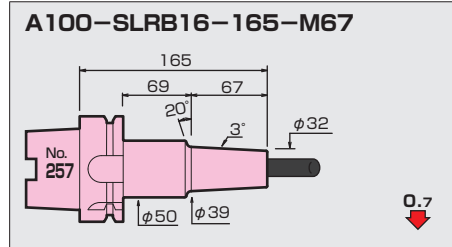
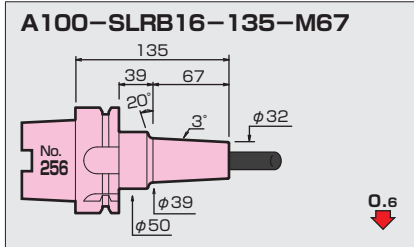


A100-SLRB16-140-M42

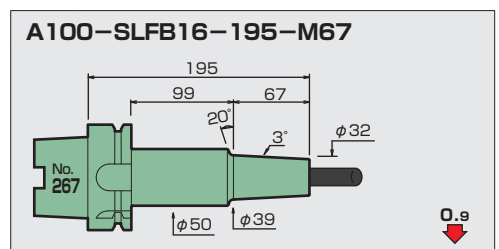
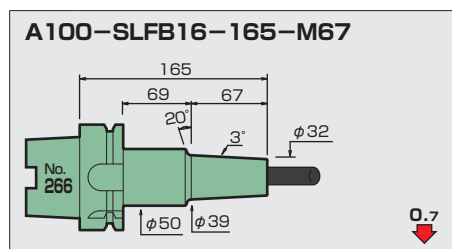
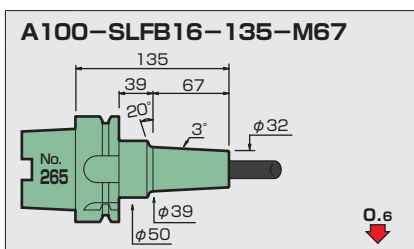
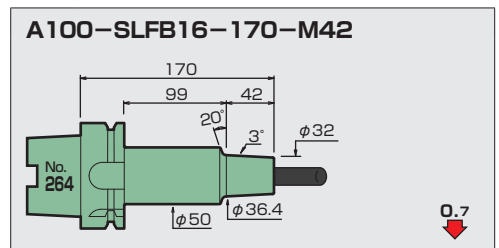
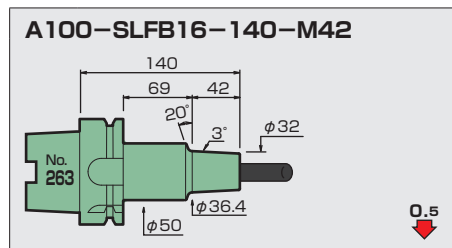
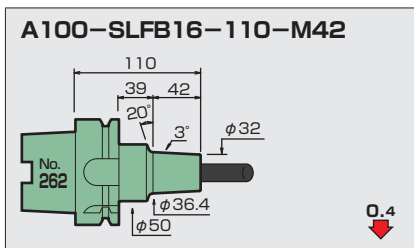
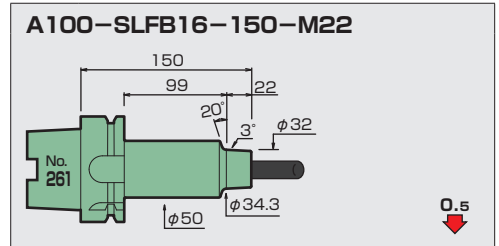
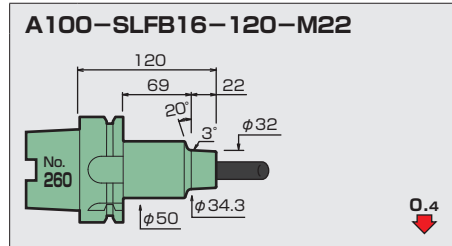
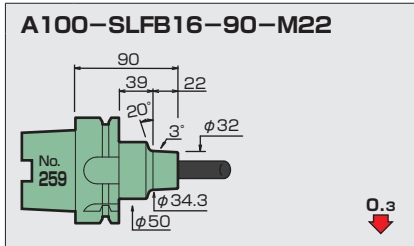


A100-SLRB16-170-M42



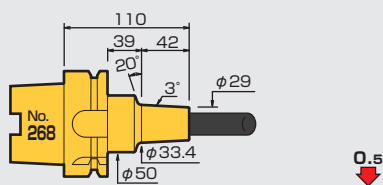


φ16 SLFB t=8

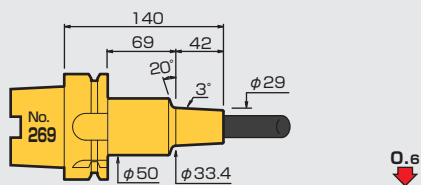


φ20 SLSB t=4.5

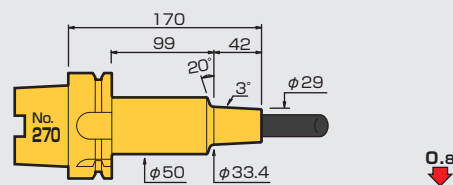
A100-SLSB20-110-M42



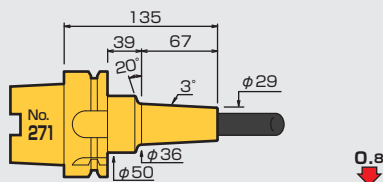
A100-SLSB20-140-M42



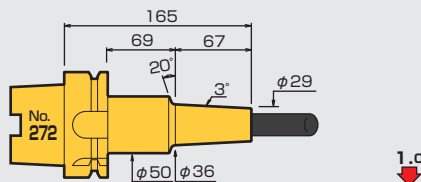
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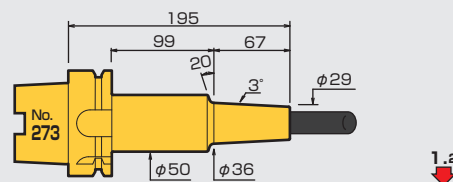
A100-SLSB20-135-M67



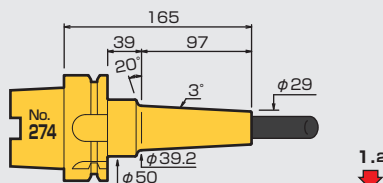
A100-SLSB20-165-M67



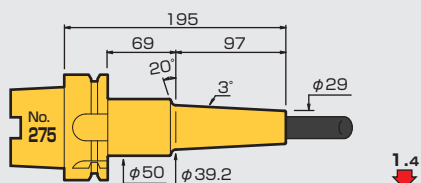
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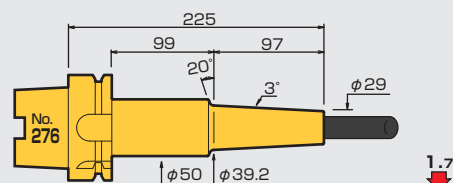
A100-SLSB20-165-M97



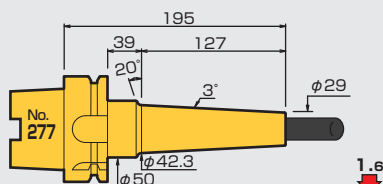
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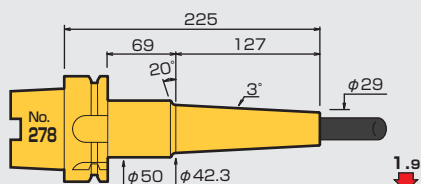
A100-SLSB20-225-M97



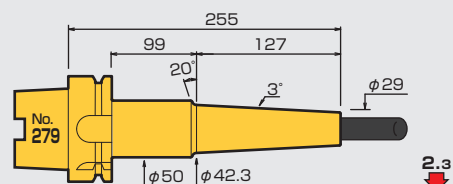
A100-SLSB20-195-M127



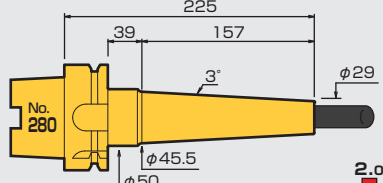
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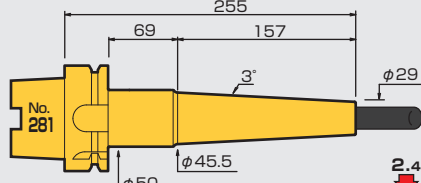
A100-SLSB20-255-M127



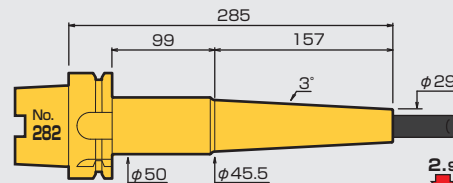
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A100-SLSB20-255-M157

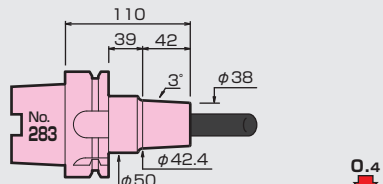


A100-SLSB20-285-M157

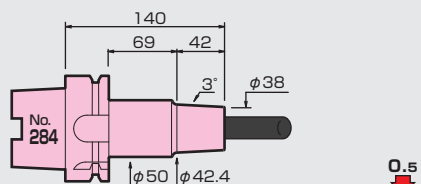


φ20 SLRB t=9

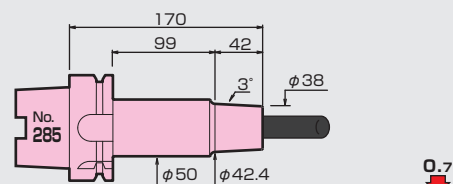
A100-SLRB20-110-M42



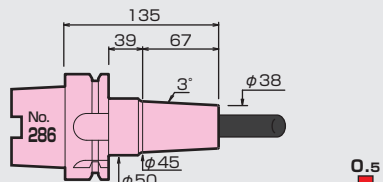
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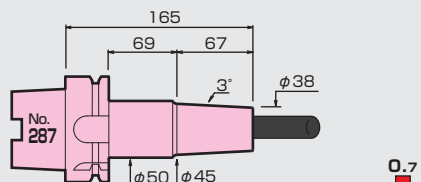
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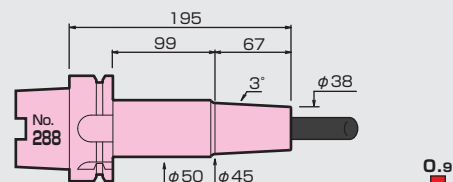
A100-SLRB20-135-M67



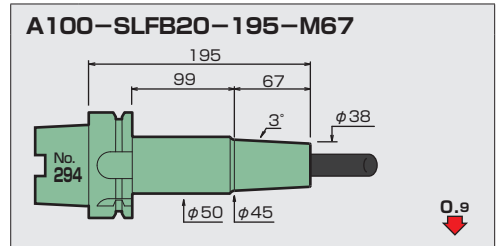
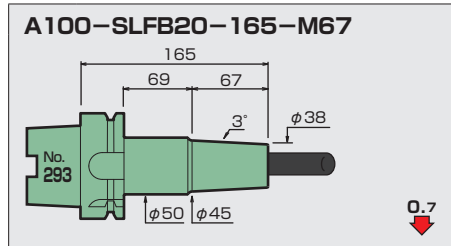
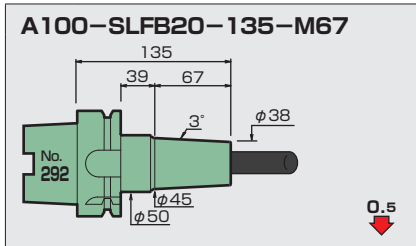
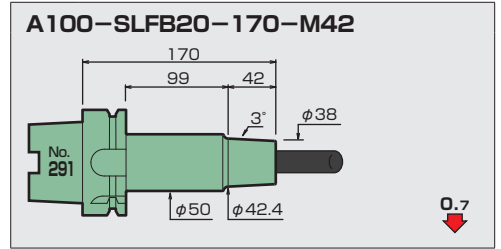
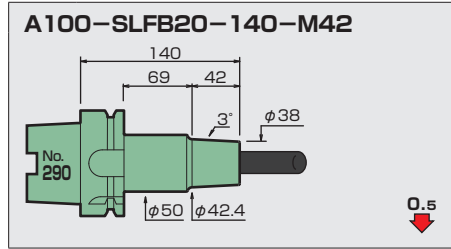
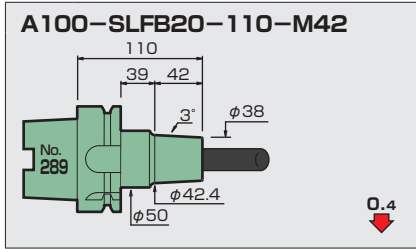
A100-SLRB20-165-M67



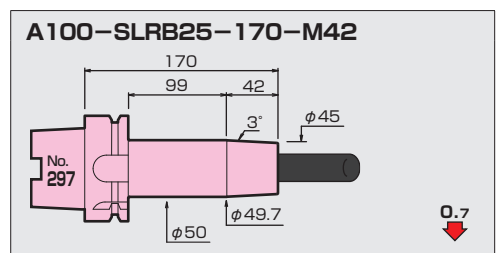
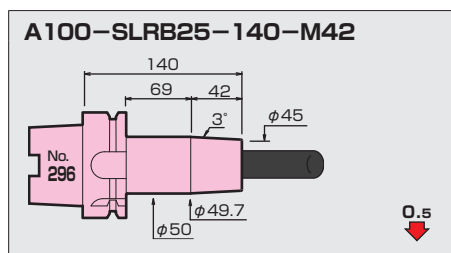
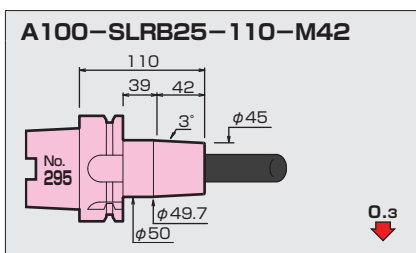
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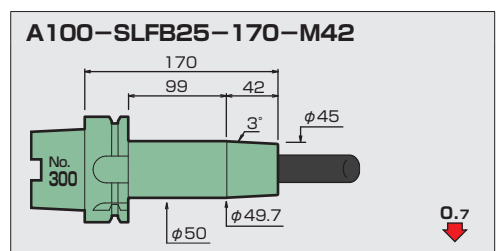
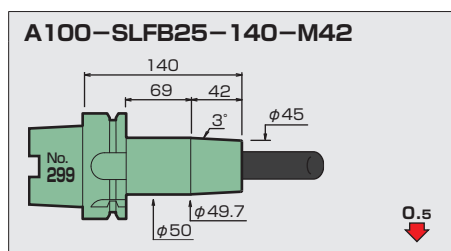
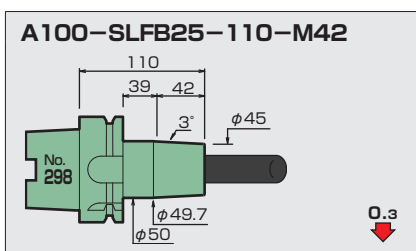
φ20 SLFB t=9



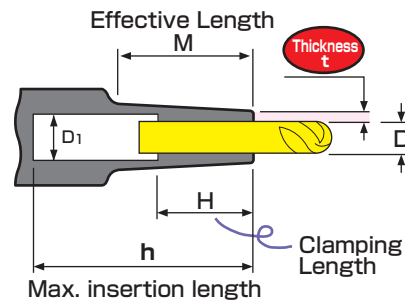
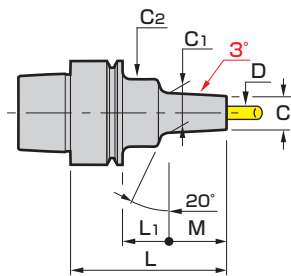
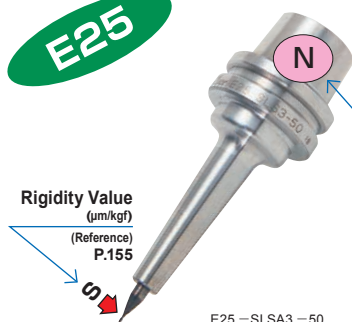
φ25 SLRB t=10



φ25 SLFB t=10



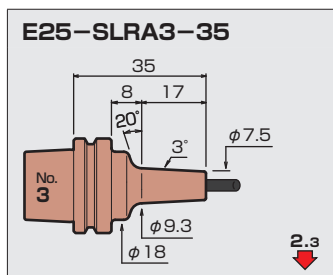
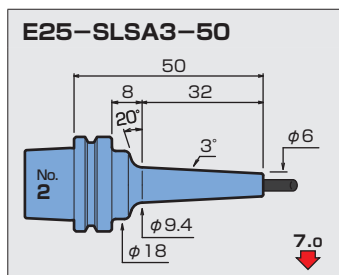
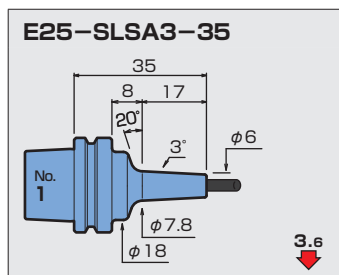
E25



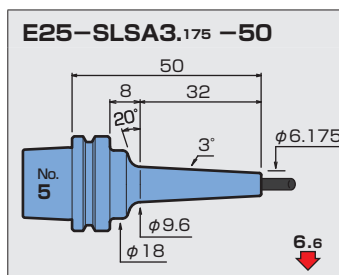
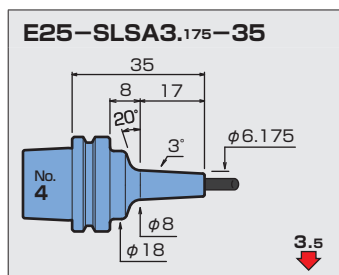
CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
E25-SLSA3-35	3	6	1.5	35	17	8	7.8	18	4	9	29	0.06	0.37	3.6	1
-50				50	32		9.4				44		0.39	7.0	2
-SLRA3-35		7.5	2.25	35	17		9.3				29		0.37	2.3	3
E25-SLSA3.175-35	3.175	6.175	1.5	35	17	8	8	18	4	9	29	0.06	0.37	3.5	4
-50				50	32		9.6				44		0.39	6.6	5
E25-SLSA4-35	4	7	1.5	35	17	8	8.8	18	4.3	12	29	0.06	0.38	2.8	6
-50				50	32		10.4				44		0.4	5.3	7
-SLRA4-35		10	3	35	17		11.8				29		0.38	1.4	8
E25-SLSA5-35	5	8	1.5	35	17	8	9.8	18	5.6	15	26	0.06	0.38	2.2	9
E25-SLSA6-35	6	9	1.5	35	17	8	10.8	18	6.6	18	26	0.05	0.38	1.8	10
-50				50	32		12.4				39	0.07	0.43	3.6	11
-SLRA6-35		12	3	35	17		13.8				26		0.39	1.1	12

HSK-E25 Scale Model S=1:2

$\phi 3$



$\phi 3.175$



SODICK HIGHTECH

MC430L

ROKU-ROKU

MEGA III / NANO-21

MITSUBISHI

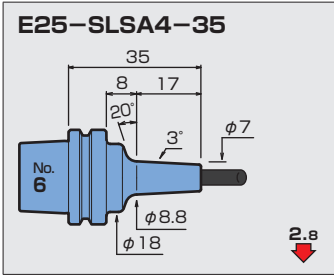
μ machining V1

KERN

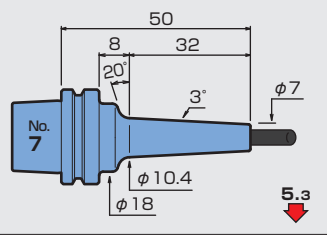
HSPC2525



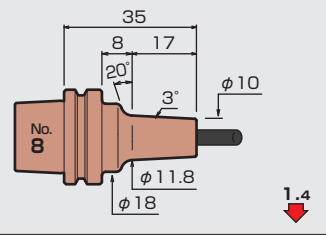
φ4



E25-SLSA4-50

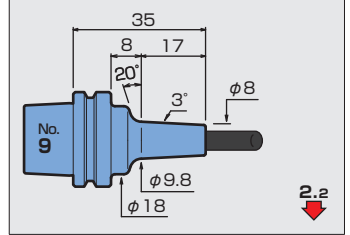


E25-SLRA4-35

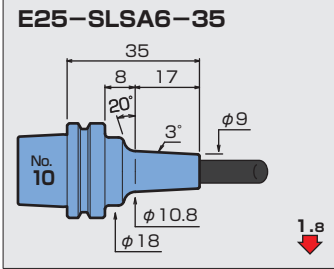


φ5

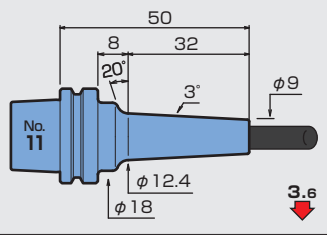
E25-SLSA5-35



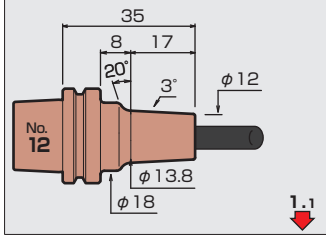
φ6



E25-SLSA6-50



E25-SLRA6-35



Short length endmill for shrink fit tool holder

Because of their short insertion allowance, holders for small-sized, ultra-fast machining centers, such as the HSK-E25 and E32, do not require the longer cutting tools that used to be required by conventional holders.

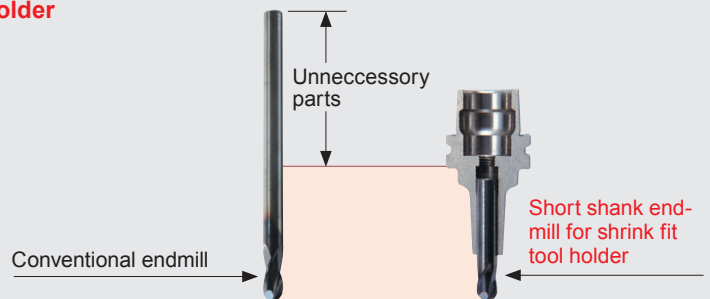
We propose the short length endmill for shrink fit tool holder

Short shank

Minimizing
cutter
projection

Short cutter flute

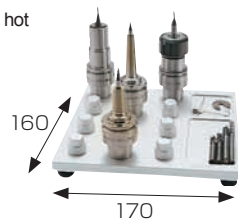
Increasing
rigidity



Holder Stand

For compact storage of holder. Accommodates hot cutting tools after removal for cooling. Can be shared with the E32.

CODE	max.Q'ty	
SDT-01	12	E25,E32



Measuring Instrument Holder

Use when centering the work piece. A collet (C10—6P) and Centering bar (ST6—CEB102) is needed separately. Specifications for fastening nuts by hand.

CODE
E25-CEH10-37

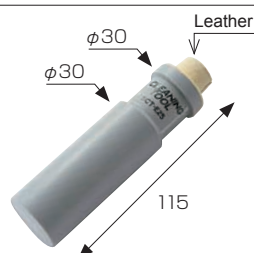
■ Caution • Do not use for milling and drilling.



Cleaning Tool

Use when cleaning the machine spindle taper. A leather is an exchange formula. (1 set of leather for exchange is attached.)

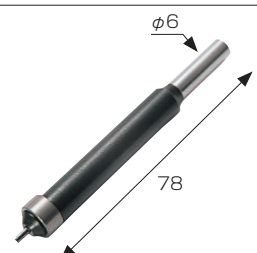
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SCT-E25

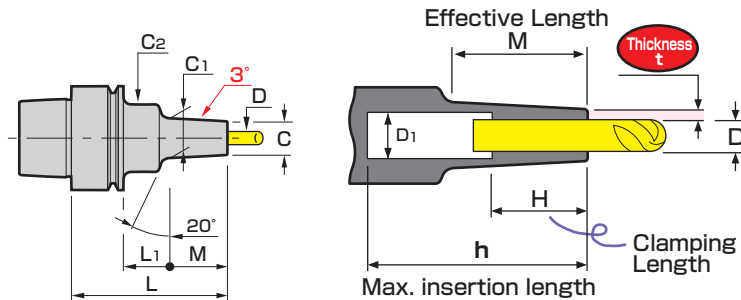


Centering Bar

A bar used to find the reference position of the item being machined.

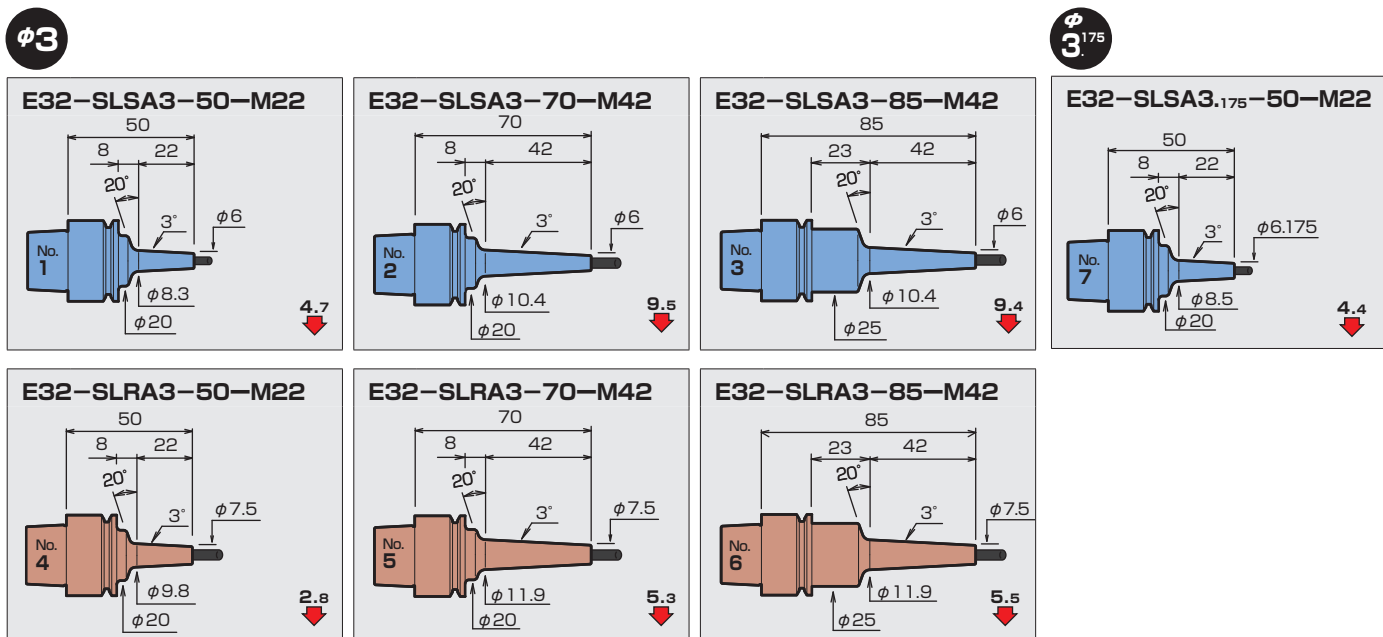
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ST6-CEB102



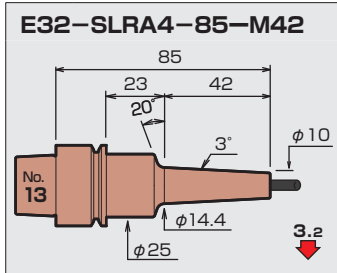
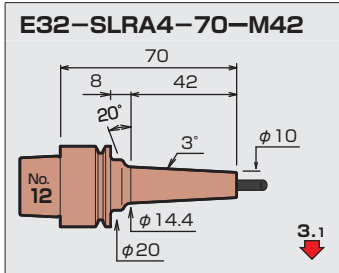
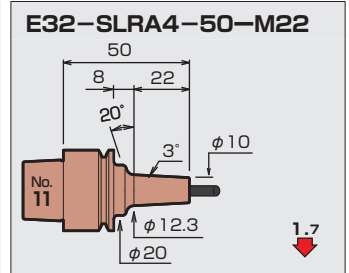
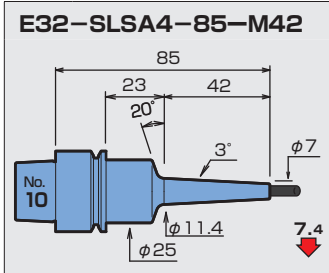
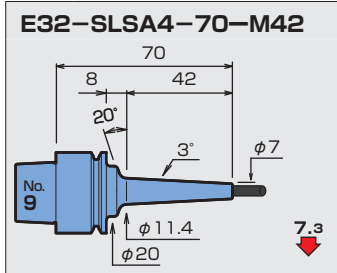
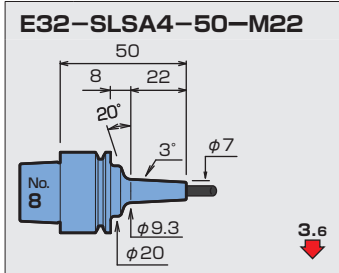


CODE	φD	φC	Thickness t	L	M	L ₁	φC ₁	φC ₂	φD ₁	H	h	Kg	N	S	Scale model
E32-SLSA 3-50-M22	3	6		50	22	8	8.3	20	4	9	42	0.1	0.4	4.7	1
-70-M42			1.5	70	42		10.4				62	0.2		9.5	2
-85-M42				85		23		25			69		0.8	9.4	3
-SLRA 3-50-M22		7.5		50	22	8	9.8	20			42	0.1	0.4	2.8	4
-70-M42			2.25	70	42		11.9				62	0.2		5.3	5
-85-M42				85		23		25			69		0.8	5.5	6
E32-SLSA3.175-50-M22	3.175	6.175	1.5	50	22	8	8.5	20	4	9	42	0.1	0.4	4.4	7
E32-SLSA 4-50-M22	4	7		50	22	8	9.3	20	5	12	35	0.1	0.4	3.6	8
-70-M42			1.5	70	42		11.4				54	0.2		7.3	9
-85-M42				85		23		25			69		0.8	7.4	10
-SLRA 4-50-M22		10		50	22	8	12.3	20			35		0.4	1.7	11
-70-M42			3	70	42		14.4				54		0.5	3.1	12
-85-M42				85		23		25			69		0.9	3.2	13
E32-SLSA 6-70-M42	6	9	1.5	70	42	8	13.4	20	7	18	54	0.2	0.5	4.8	14
-SLRA 6-50-M22		12		50	22		14.3	26	6.6		39			1.2	15
-70-M42			3	70	42		16.4		7		54			2.4	16
-85-M42				85		23		25			69		0.9	2.5	17
E32-SLRA 8-50-M22	8	14		50	22	8	16.3	26	8.6	24	39	0.2	0.5	1.0	18
-85-M42			3	85	42	23	18.4	25	9		69		0.9	2.1	19
E32-SLRA10-55-M22	10	16	3	55	22	13	18.3	26	10.6	30	44	0.2	0.6	0.9	20
E32-SLRA12-55-M22	12	20	4	55	22	13	22.3	26	12.6	30	44	0.2	0.7	0.7	21
E32-SLRA16-55-M35	16	26	5	55	35	-	-	-	16.6	32	44	0.2	0.6	0.7	22

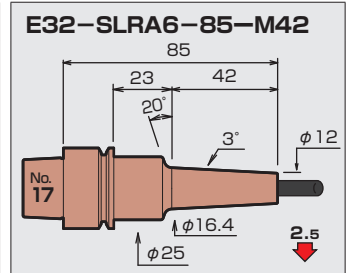
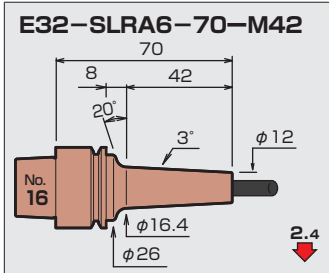
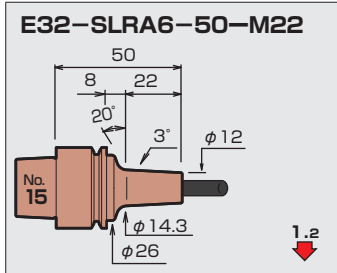
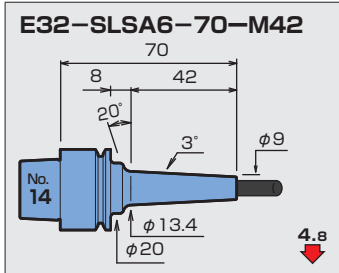
HSK-E32 Scale Model S=1:3



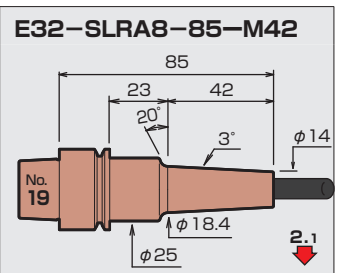
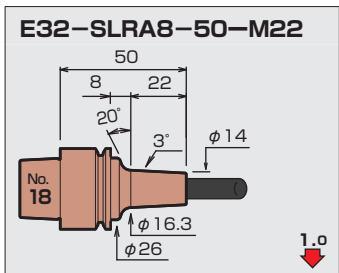
φ4



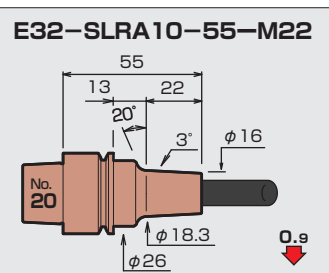
φ6



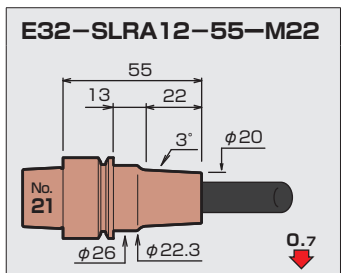
φ8



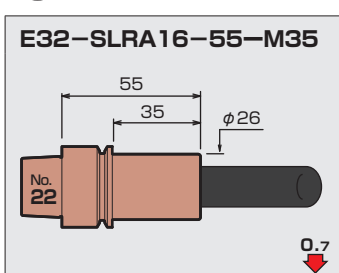
φ10



φ12



φ16

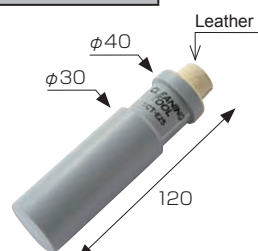


Cleaning Tool

Use when cleaning the machine spindle taper. A leather is an exchange formula. (1 set of leather for exchange is attached.)

CODE

SCT-E32



MAKINO
V22 / V33

SODICK HIGHTECH
MC430L / MC650L / HS150L

MORI SEIKI
NVD1500DCG

MITSUI SEIKI
VL30

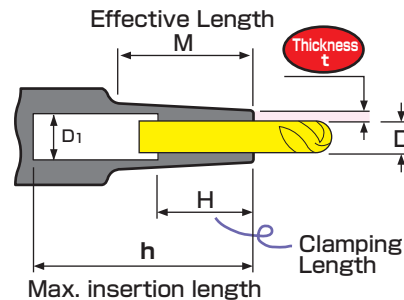
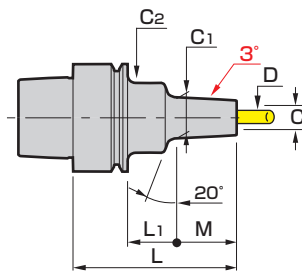
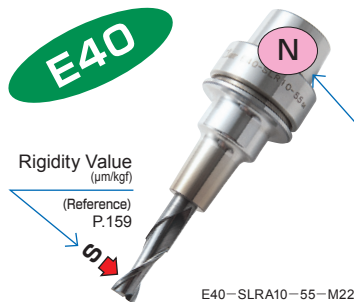
OKK
VD300

NIPPEI TOYAMA
Zp3500

OPS-INGERSOLL
OPS600

ROEDERS GMBH
RHP600

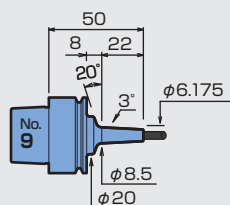




CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC ₁	ϕC ₂	ϕD ₁	H	h	 Kg	 N	 S	Scale model	
E40-SLSA 3- 50-M22	3	6	1.5	50	22	8	8.3	20	4	9	42	0.2	0.7	4.6	1	
- 70-M42				70	42		10.4				62			9.4	2	
- 85-M42				85		23		25			69	0.3	1.1	9.3	3	
-110-M67				110	67		13				94		2.2	15.0	4	
-SLRA 3- 50-M22		7.5	2.25	50	22	8	9.8	20		42	0.2	0.7	2.8	5		
- 70-M42				70	42		11.9		62			5.3	6			
- 85-M42				85		23		25	69	0.3	1.1	5.4	7			
-110-M67				110	67		14.5		94			9.0	8			
E40-SLSA3.175- 50-M22	3.175	6.175	1.5	50	22	8	8.5	20	4	9	42	0.2	0.7	4.4	9	
E40-SLSA 4- 50-M22	4	7	1.5	50	22	8	9.3	20	5	12	42	0.2	0.7	3.6	10	
- 70-M42				70	42		11.4				62			7.2	11	
- 85-M42				85		23		25			74	0.3	1.1	7.3	12	
-110-M67				110	67		14				99		1.2	11.9	13	
-SLRA 4- 50-M22		10	3	50	22	8	12.3	20		42	0.2	0.7	1.6	14		
- 70-M42				70	42		14.4		62	0.3		3.0	15			
- 85-M42				85		23		25	69		1.1	3.1	16			
-110-M67				110	67		17		94		1.2	5.2	17			
E40-SLSA 6- 50-M22	6	9	1.5	50	22	8	11.3	20	6.6	18	39	0.2	0.7	2.2	18	
- 70-M42				70	42		13.4				54			4.7	19	
- 85-M42				85		23		25			69	0.3	1.1	4.9	20	
-110-M67				110	67		16				94		1.2	8.0	21	
-SLRA 6- 50-M22		12	3	50	22	8	14.3	26	6.6	39	0.2	0.7	1.2	22		
- 70-M42				70	42		16.4			54	0.3	0.8	2.3	23		
- 85-M42				85		23		25		7	69		1.2	2.5	24	
-110-M67				110	67		19			94	0.4		4.1	25		
E40-SLSA 8- 60-M22	8	11	1.5	60	22	18	13.3	26	8.6	24	49	0.3	1.0	1.5	26	
- 80-M42				80	42		15.4				64			3.3	27	
-100-M42				100		38		25			9	84		1.5	3.8	28
-SLRA 8- 50-M22		14	3	50	22	8	16.3	26	8.6		39	0.2	0.7	0.9	29	
- 85-M42				85	42	23	18.4	25			9	69	0.3	1.2	2.1	30
-100-M42				100		38					84	0.4	1.5	2.4	31	
E40-SLSA10- 60-M22	10	13	1.5	60	22	18	15.3	26	10.6	30	49	0.3	1.0	1.2	32	
- 80-M42				80	42		17.4				64			1.1	2.4	33
-100-M42				100		38		25			11	89		1.5	3.1	34
-SLRA10- 55-M22		16	3	55	22	13	18.3	26	10.6		44		0.9	0.8	35	
- 85-M42				85	42	23	20.4	25			11	64		1.2	1.7	36
-100-M42				100		38						0.4	1.6	2.2	37	
E40-SLRA12- 55-M22	12	20	4	55	22	13	22.3	30	12.6	30	44	0.3	1.0	0.6	38	
- 85-M42				85	42	23	24.4	32			13	74	0.4	1.6	1.1	39
E40-SLRA16- 55-M22	16	26	5	55	22	13	28.3	34	16.6	32	44	0.3	1.2	0.4	40	
E40-SLRA20- 60-M40	20	32	6	60	40	-	34	-	20.6	38	49	0.4	1.6	0.4	41	

$\phi 3.175$

E40-SLSA3.175-50-M22



ROKU-ROKU
CEGA-542

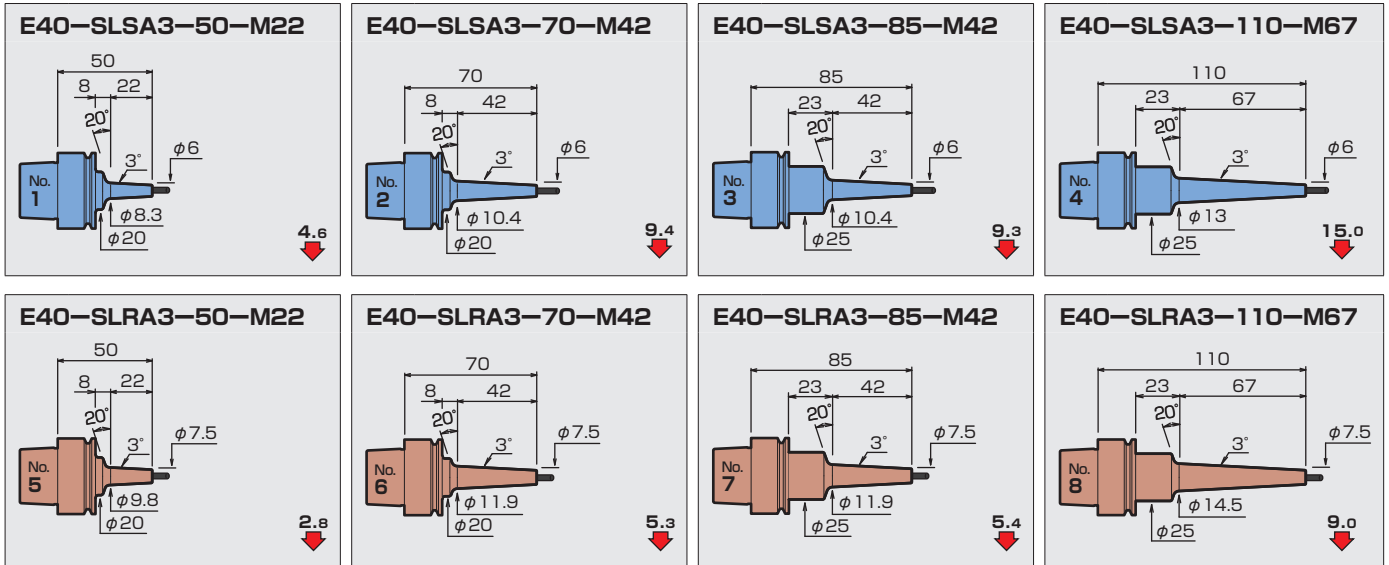
MIKRON
HSM400 / UCP600

HERMLE
C Series

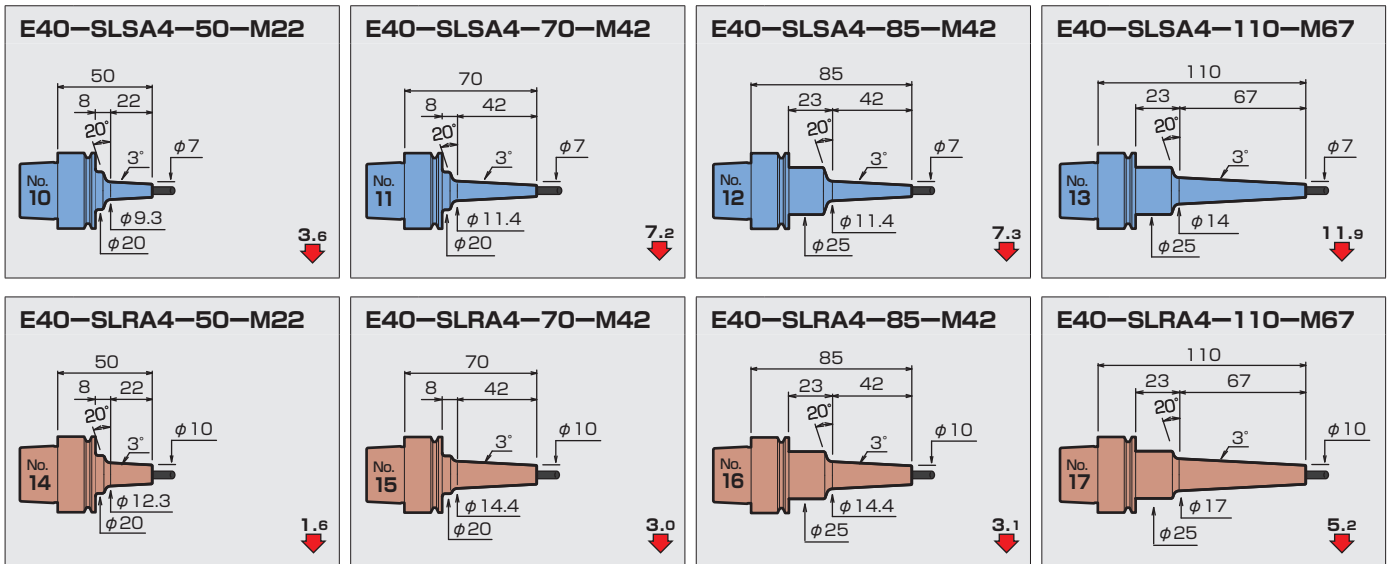
DIGMA
HSC800 / 5



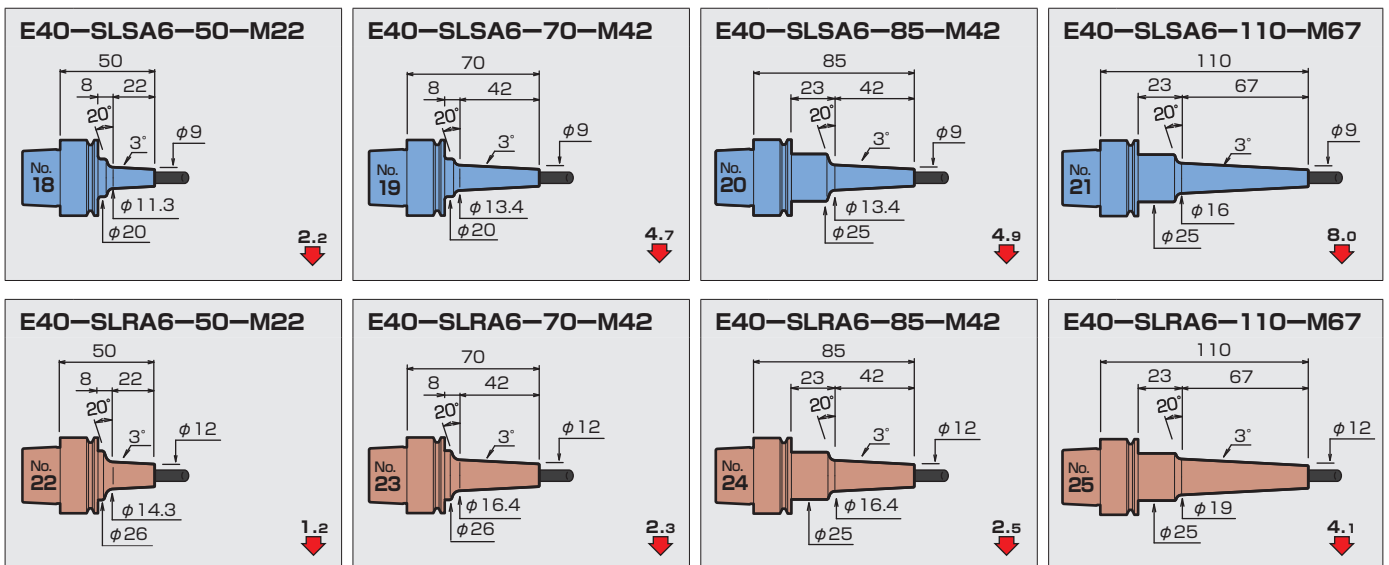
φ3



φ4

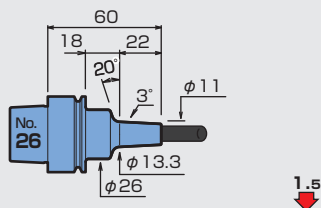


φ6

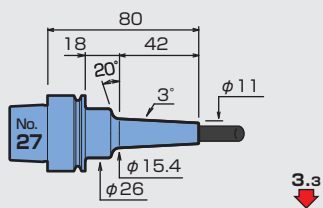


φ8

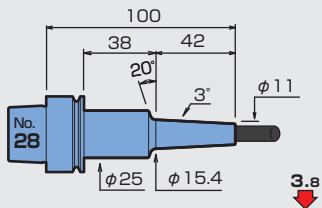
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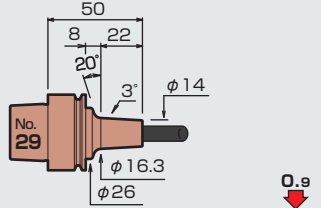
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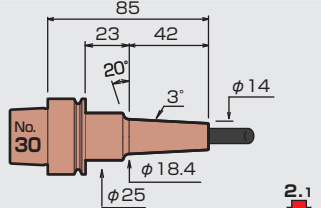
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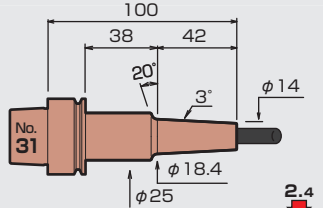
E40-SLRA8-50-M22



E40-SLRA8-85-M42

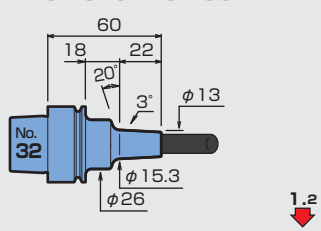


E40-SLRA8-100-M42

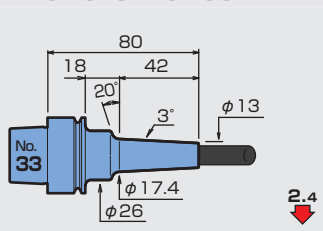


φ10

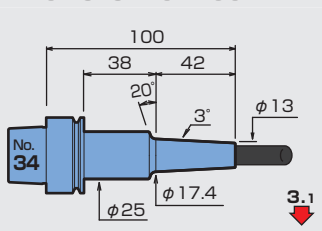
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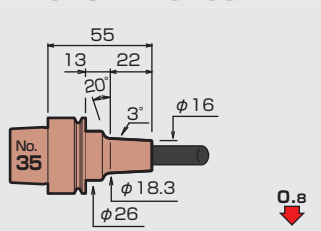
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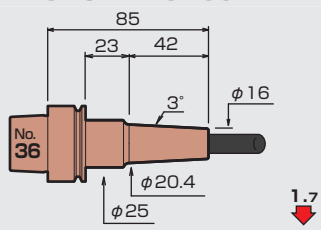
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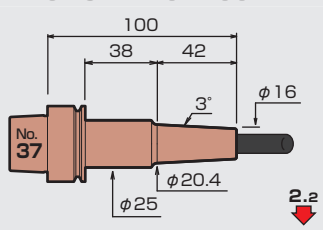
E40-SLRA10-55-M22



E40-SLRA10-85-M42

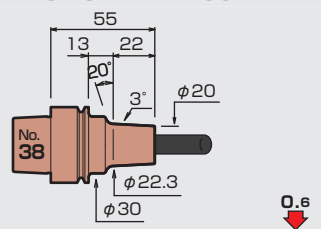


E40-SLRA10-100-M42

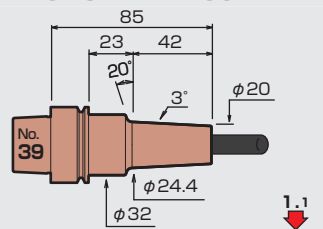


φ12

E40-SLRA12-55-M22

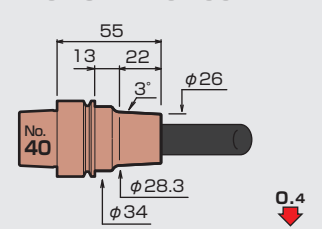


E40-SLRA12-85-M42



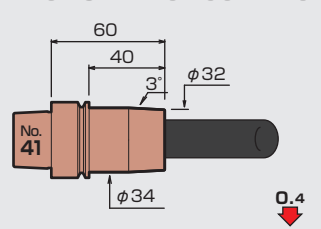
φ16

E40-SLRA16-55-M22

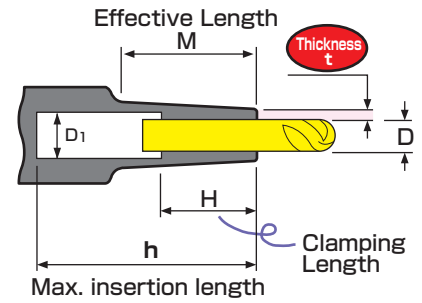
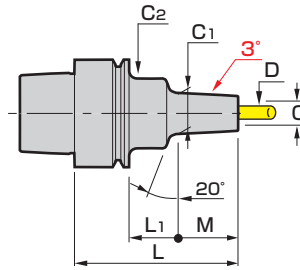
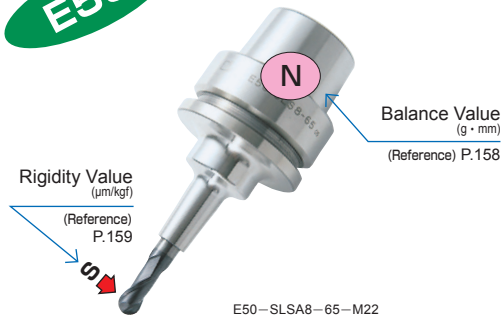


φ20

E40-SLRA20-60-M40



E50

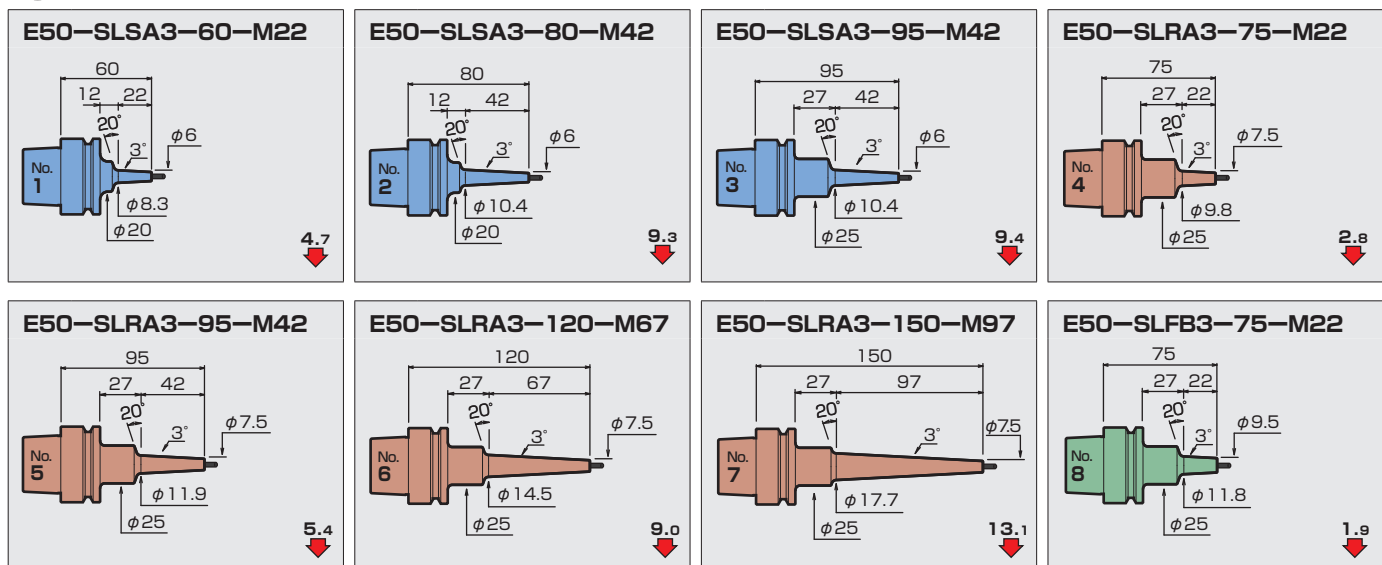


CODE	ϕD	ϕC	Thickness t	L	M	L_1	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
E50—SLSA 3— 60—M 22	3	6		60	22	12	8.3	20	4	9	50	0.4	1.3	4.7	1
— 80—M 42			1.5	80	42		10.4				70	0.5		9.3	2
— 95—M 42				95		27		25			85		1.7	9.4	3
—SLRA 3— 75—M 22		7.5		75	22		9.8				65			2.8	4
— 95—M 42			2.25	95	42		11.9				85			5.4	5
—120—M 67				120	67		14.5				110		1.8	9.0	6
—150—M 97				150	97		17.7				132	0.6		13.1	7
—SLFB 3— 75—M 22		9.5	3.25	75	22		11.8				65	0.5		1.9	8
E50—SLSA 4— 60—M 22	4	7		60	22	12	9.3	20	5	12	50	0.4	1.3	3.6	9
— 80—M 42			1.5	80	42		11.4				70	0.5		7.3	10
— 95—M 42				95		27		25			85		1.8	7.4	11
—SLRA 4— 75—M 22		10		75	22		12.3				65		1.7	1.7	12
— 95—M 42			3	95	42		14.4				85		1.8	3.2	13
—120—M 67				120	67		17				110	0.6		5.2	14
—150—M 97				150	97		20.2	32			132	0.7	2.2	7.3	15
—SLFB 4— 75—M 22		12	4	75	22		14.3	25			62	0.5	1.9	1.4	16
E50—SLSA 6— 60—M 22	6	9		60	22	12	11.3	20	7	18	42	0.5	1.3	2.3	17
— 80—M 42			1.5	80	42		13.4				62			4.8	18
—120—M 67				120	67	27	16	25			102		1.8	8.1	19
—150—M 97				150	97		19.2	32			132	0.6	2.3	11.2	20
—SLSB 6— 95—M 42		10		95	42		14.4	25			77	0.5	1.8	3.9	21
—120—M 67			2	120	67		17				102	0.6		6.5	22
—150—M 97				150	97		20.2	32			132	0.7	2.3	8.6	23
—SLRA 6— 60—M 22		12		60	22	12	14.3	26	6.6		44	0.5	1.4	1.2	24
— 95—M 42			3	95	42	27	16.4	25	7		77		1.8	2.5	25
—120—M 67				120	67		19				102	0.6	1.9	4.2	26
—SLRB 6— 95—M 42		14		95	42		18.4	32			77		2.2	1.6	27
—SLFB 6— 75—M 22			4	75	22		16.3				57		2.1	1.0	28
E50—SLSA 8— 65—M 22	8	11		65	22	17	13.3	26	8.6	24	49	0.5	1.5	1.5	29
— 85—M 42			1.5	85	42		15.4				67		1.6	3.2	30
—120—M 67				120	67	27	18	32	9		102	0.6	2.3	5.9	31
—150—M 97				150	97		21.2				132	0.7	2.4	8.1	32
—SLSB 8— 95—M 42		13		95	42		17.4				77	0.6	2.2	2.2	33
—120—M 67			2.5	120	67		20				102		2.3	3.7	34
—150—M 97				150	97		23.2				132	0.7	2.4	5.3	35
—SLRA 8— 60—M 22		14		60	22	12	16.3	26	8.6		44	0.5	1.4	0.9	36
— 95—M 42			3	95	42	27	18.4	25	9		77		1.8	2.1	37
—SLRB 8— 95—M 42		18					22.4	32				0.6	2.2	1.1	38
—120—M 67			5	120	67		25				102	0.7	2.3	1.8	39
—SLFB 8— 75—M 22				75	22		20.3				57	0.6	2.2	0.7	40

CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC ₁	ϕC ₂	ϕD ₁	H	h				Scale model		
E50—SLSA10— 65—M 22	10	13	1.5	65	22	17	15.3	26	10.6	30	49	0.5	1.5	1.1	41		
— 85—M 42				85	42		17.4				64		1.6	2.4	42		
—120—M 67				120	67		20	32				11	0.6	2.3	4.4	43	
—150—M 97				150	97		23.2				0.7		2.5	6.2	44		
—SLSB10— 95—M 42		16	3	95	42	20.4		0.6	2.2		1.5	45					
—120—M 67				120	67	23		0.7	2.4		2.5	46					
—150—M 97				150	97	26.2		2.5	3.7		47						
—SLRA10— 60—M 22		22	6	60	22	12	18.3	26	10.6		44	0.5	1.4	0.8	48		
—SLRB10— 95—M 42				95	42	27	26.4	32	11		64	0.7	2.3	0.9	49		
—120—M 67				120	67	29	42		0.8		3.2	1.1	50				
—SLFB10— 75—M 22				75	22	24.3	32	16	60		0.6	2.2	0.6	51			
E50—SLSA12— 65—M 22		12	15	1.5	65	22	17	17.3	26		12.6	30	49	0.5	1.6	0.9	52
— 85—M 42	85				42	19.4			64				1.7	1.9	53		
—120—M 67	120				67	22		32		13			0.6	2.4	3.4	54	
—SLSB12— 95—M 42	19		3.5	95	42	23.4			0.6	2.3	1.2		55				
—120—M 67				120	67	26		0.7	2.5	1.9	56						
—150—M 97				150	97	29.2	42		0.9	3.5	2.6		57				
—SLRA12— 60—M 22	20		4	60	22	12	22.3	30	12.6	44	0.5		1.5	0.6	58		
—SLRB12— 95—M 42	26		7	95	42	27	30.4	42	13	64	0.8		3.1		59		
—120—M 67				120	67	33			0.9	3.3	0.9		60				
—SLFB12— 75—M 22				75	22	28.3		21	60	0.7	3.0		0.4	61			
E50—SLSB16— 95—M 42	16		24	4	95	42	27	28.4	42	17	32		81	0.7	3.2	0.8	62
—120—M 67					120	67		31						0.8	3.5	1.2	63
—SLRA16— 60—M 22		26	5	60	22	12	28.3	34	16.6	44		0.6	1.7	0.4	64		
—SLRB16— 75—M 22		32	8	75		27	34.3	42	22.2	61		0.7	3.0		65		
—SLFB16— 75—M 22									60					66			
E50—SLSB20— 95—M 42		20	29	4.5	95	42	27	33.4	42	21		40	81	0.7	3.3	0.6	67
—SLRA20— 65—M 22	32		6	65	22	17	34.3	40	20.6	38	49	0.6	2.2	0.3	68		

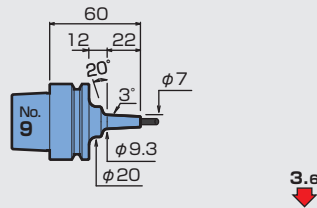
HSK-E50 Scale Model S=1:5

$\phi 3$

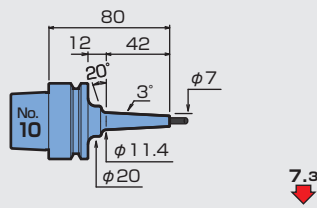


φ4

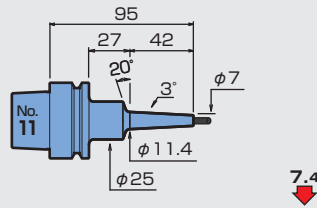
E50-SLSA4-60-M22



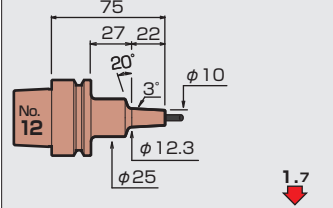
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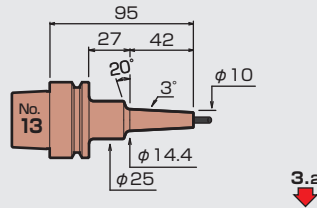
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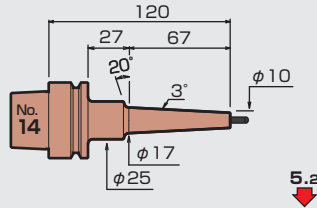
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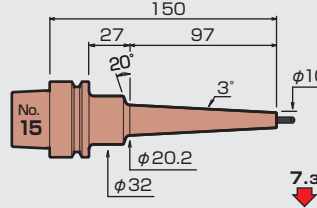
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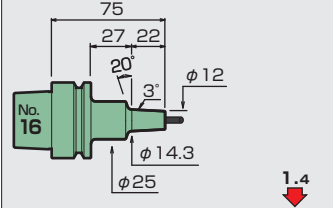
E50-SLRA4-120-M67



E50-SLRA4-150-M97

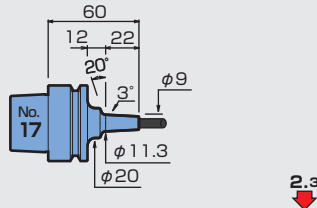


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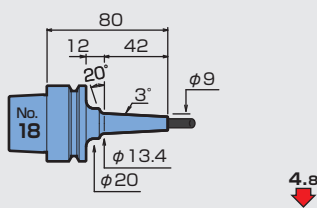


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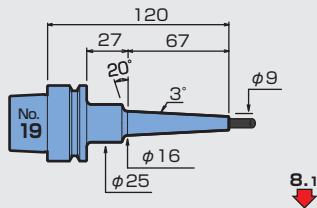
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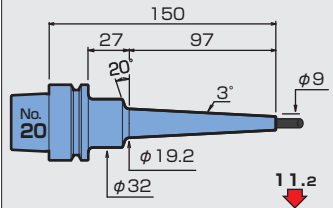
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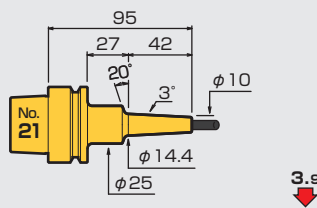
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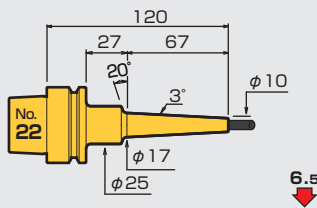
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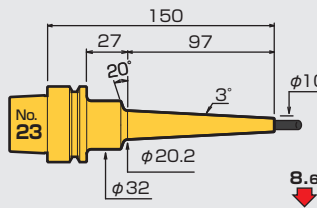
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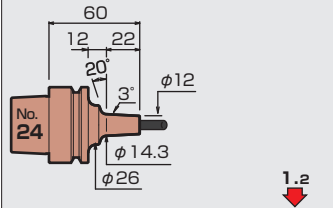
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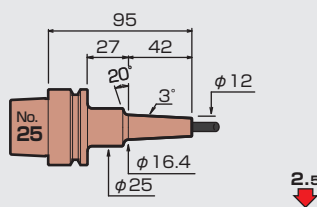
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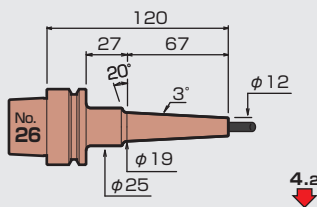
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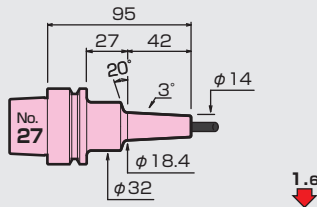
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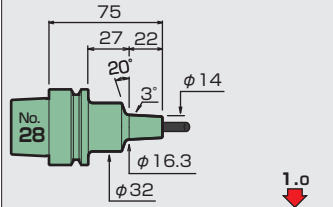
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E50-SLRB6-95-M42

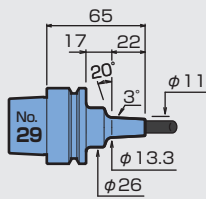


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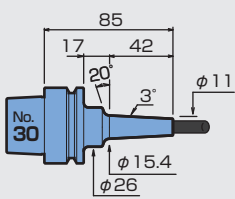


φ8

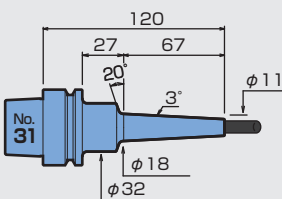
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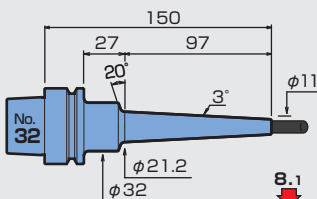
E50-SLSA8-85-M42



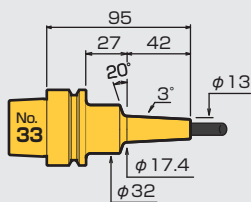
E50-SLSA8-120-M67



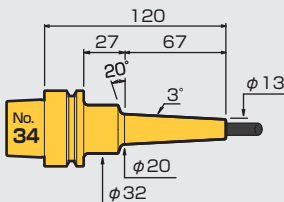
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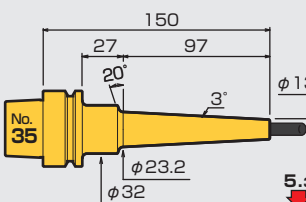
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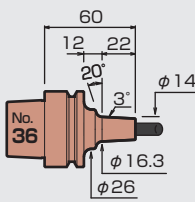
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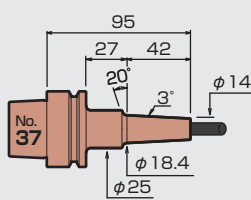
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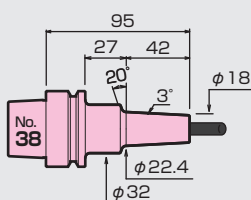
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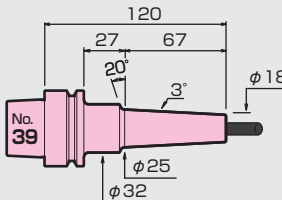
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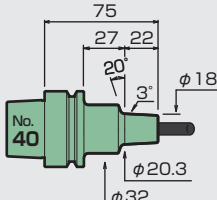
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E50-SLRB8-120-M67

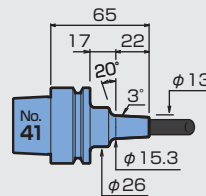


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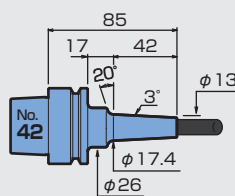


φ10

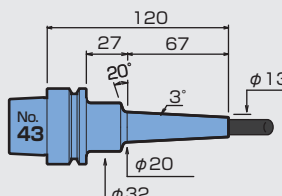
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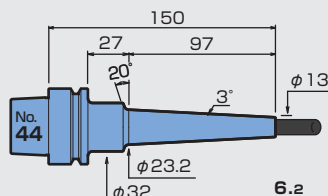
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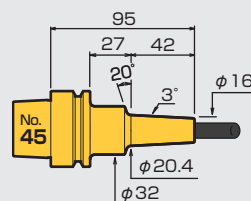
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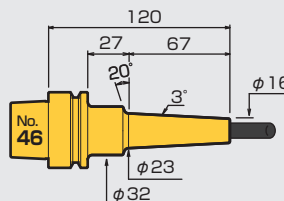
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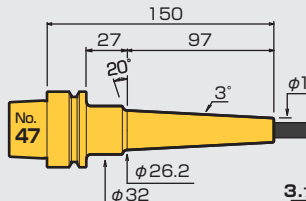
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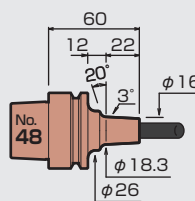
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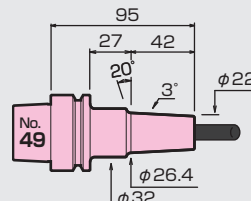
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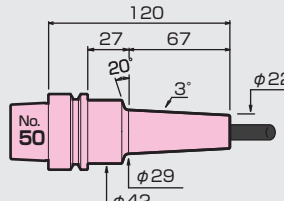
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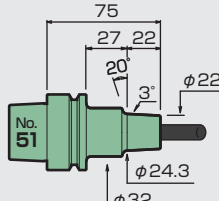
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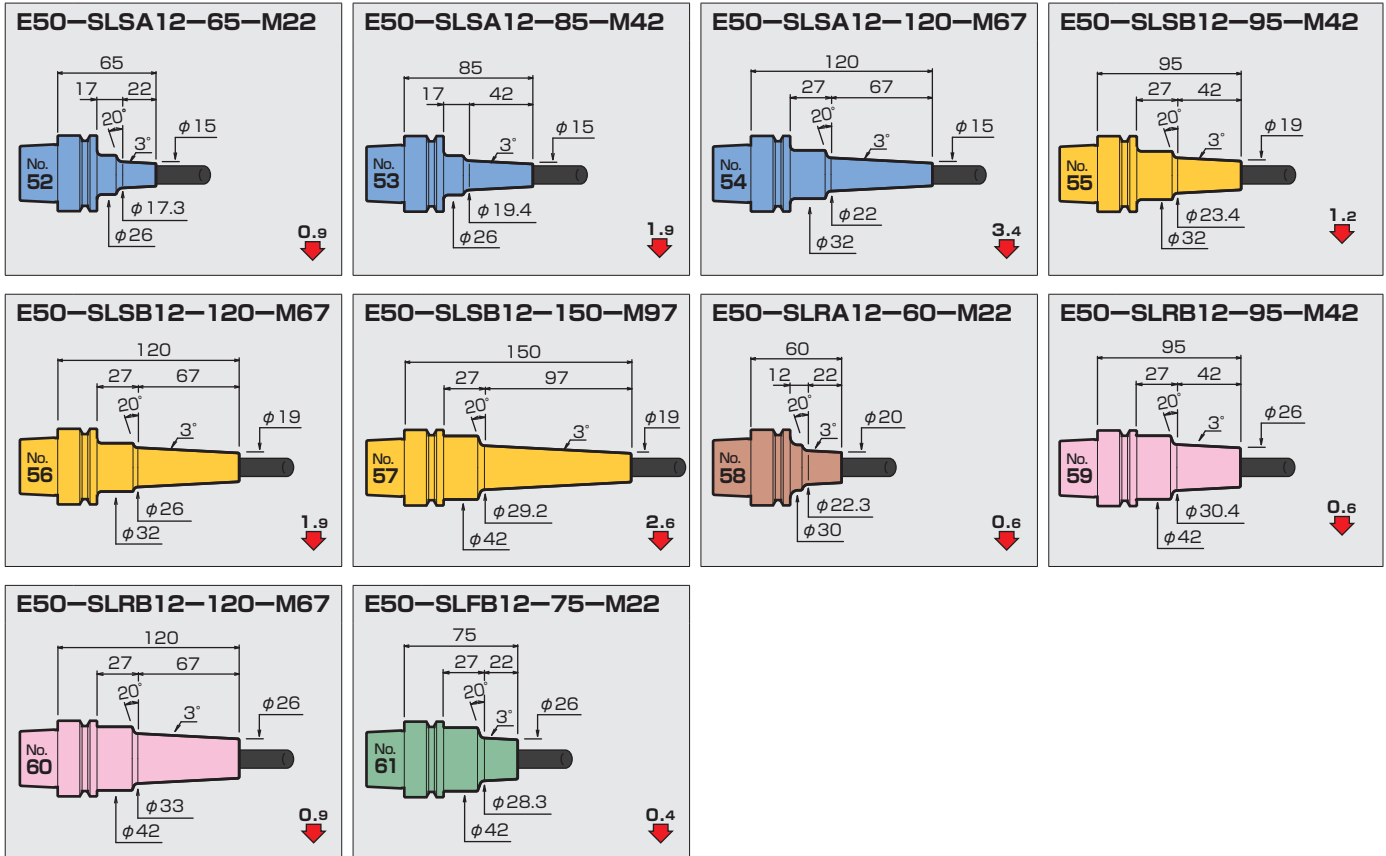
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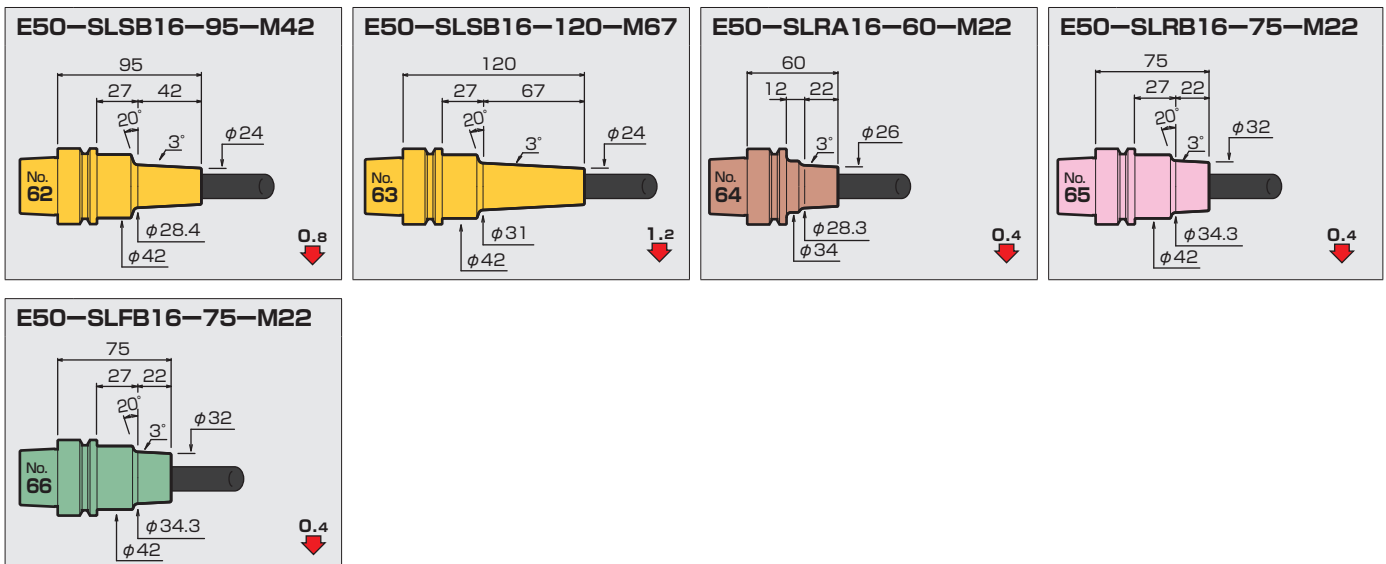
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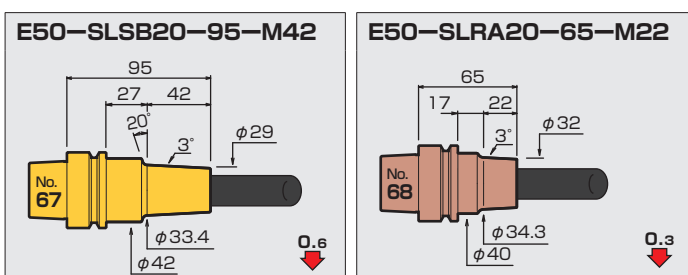
φ12



φ16



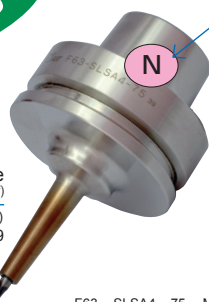
φ20



FIDIA
HS664RT
DIGMA
HSC800 / 5

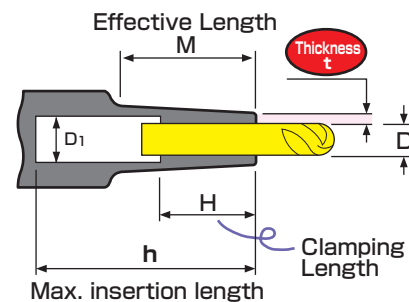
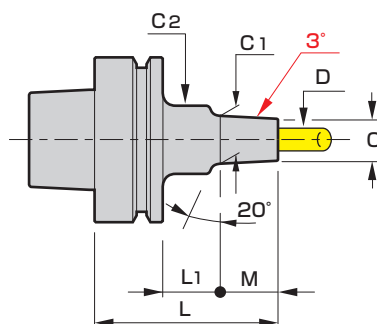
F63

Rigidity Value
($\mu\text{m/kgf}$)
(Reference) P.159



F63-SLSA4-75-M37

Balance Value
(g · mm)
(Reference) P.158



CODE	ϕD	ϕC	Thickness t	L	M	L_1	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
F63-SLSA 3- 75-M37	3	6	1.5	75	37	12	9.9	26	4	9	58	0.7	1.5	8.0	1
- 95-M42				95	42	27	10.4	25			73		1.8	9.3	2
-SLRA 3- 70-M22		7.5	2.25	70	22	22	9.8	26			53		1.7	2.8	3
- 95-M42				95	42	27	11.9	25			73		1.9	5.4	4
-SLFB 3- 75-M22		9.5		75	22		11.8				53			1.9	5
- 95-M42			3.25	95	42		13.9				73	0.8	2.0	3.3	6
-120-M67				120	67		16.5				98			5.4	7
F63-SLSA 4- 75-M37	4	7	1.5	75	37	12	10.9	26	5	12	58	0.7	1.5	6.2	8
- 95-M42				95	42	27	11.4	25			73		1.9	7.3	9
-SLRA 4- 70-M22		10	3	70	22	22	12.3	26			53		1.7	1.7	10
- 95-M42				95	42	27	14.4	25			73	0.8	1.9	3.1	11
-SLFB 4- 75-M22		12		75	22		14.3				53	0.7	2.0	1.4	12
- 95-M42			4	95	42		16.4				73	0.8		2.2	13
-120-M67				120	67		19				98		2.1	3.6	14
F63-SLSA 6- 75-M37	6	9	1.5	75	37	12	12.9	26	7	18	58	0.7	1.5	4.0	15
- 95-M42				95	42	27	13.4	25			73		1.9	4.9	16
-SLSB 6- 95-M42		10	2				14.4							3.9	17
-SLRA 6- 70-M22		12	3	70	22	22	14.3	26			53		1.7	1.3	18
- 95-M42				95	42	27	16.4	25			73	0.8	1.9	2.5	19
-SLFB 6- 75-M22		14	4	75	22		16.3	32			53		2.2	1.0	20
F63-SLSA 8- 95-M42	8	11	1.5	95	42	27	15.4	25	9	24	73	0.7	1.9	3.5	21
-SLSB 8- 95-M42		13	2.5				17.4	32				0.8	2.3	2.2	22
-SLRA 8- 70-M22		14	3	70	22	22	16.3	26	8.6		53	0.7	1.8	1.0	23
- 95-M42				95	42	27	18.4	25	9		73	0.8	1.9	2.1	24
-SLFB 8- 75-M22		18	5	75	22		20.3	32			53		2.2	0.7	25
F63-SLSA10- 95-M42	10	13	1.5	95	42	27	17.4	25	11	30	73	0.8	2.0	2.7	26
-SLSB10- 95-M42		16	3				20.4	32					2.3	1.5	27
-SLRA10- 70-M22				70	22	22	18.3	26	10.6		53	0.7	1.8	0.9	28
-SLFB10- 75-M22		22	6	75		27	24.3	32	16			0.8	2.3	0.6	29
F63-SLSA12- 95-M42	12	15	1.5	95	42	27	19.4	32	13	30	64	0.8	2.3	1.9	30
-SLSB12- 95-M42		19	3.5				23.4				73		2.4	1.1	31
-SLRA12- 70-M22		20	4	70	22	22	22.3	30	12.6		53		2.0	0.6	32
-SLFB12- 75-M22		26	7	75		27	28.3	42	21			0.9	3.0	0.4	33
F63-SLFB16- 75-M22	16	32	8	75	22	27	34.3	42	22.2	32	53	1.0	3.1	0.3	34
F63-SLFB20- 75-M22	20	38	9	75	22	27	40.3	50	20.6	40	53	1.1	3.6	0.3	35
F63-SLFB25- 75-M22	25	45	10	75	22	27	47.3	50	25.6	45	53	1.1	3.7	0.2	36

MAKINO

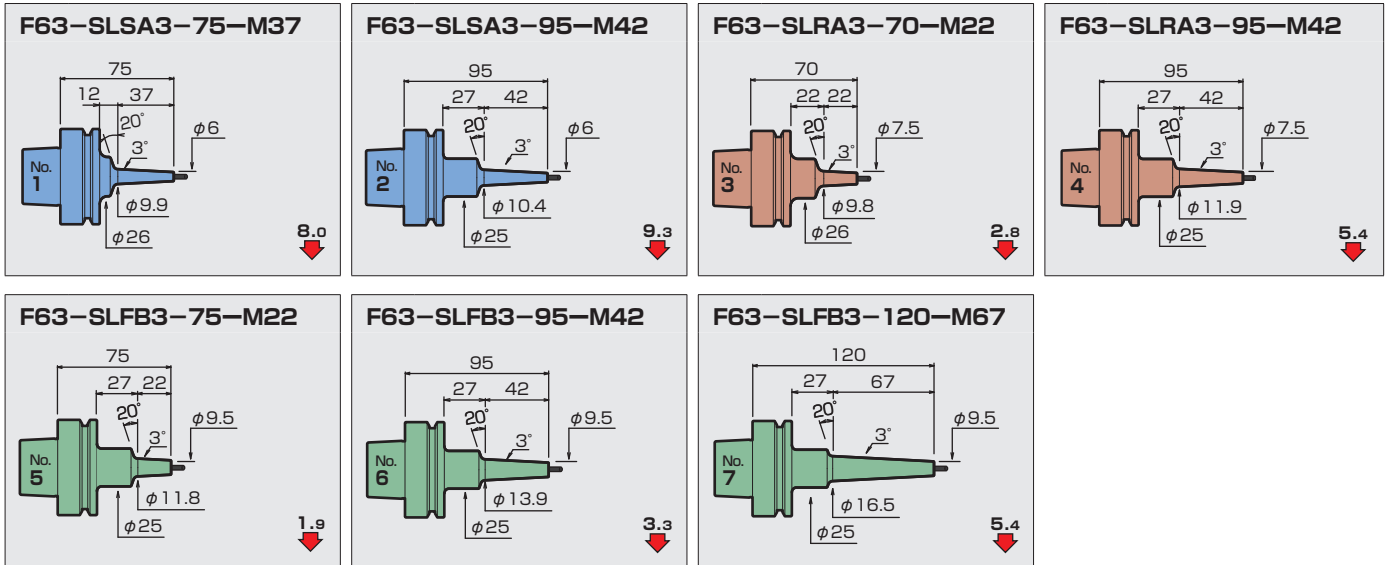
V33

MORI SEIKI

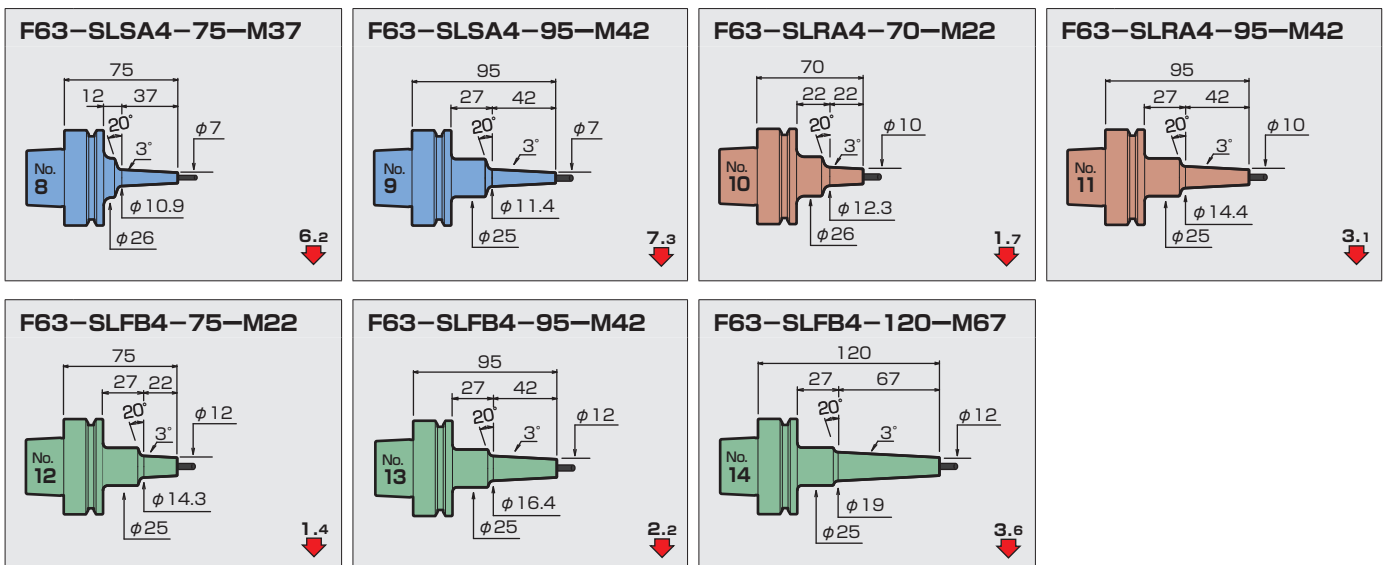
NV4000 DCG



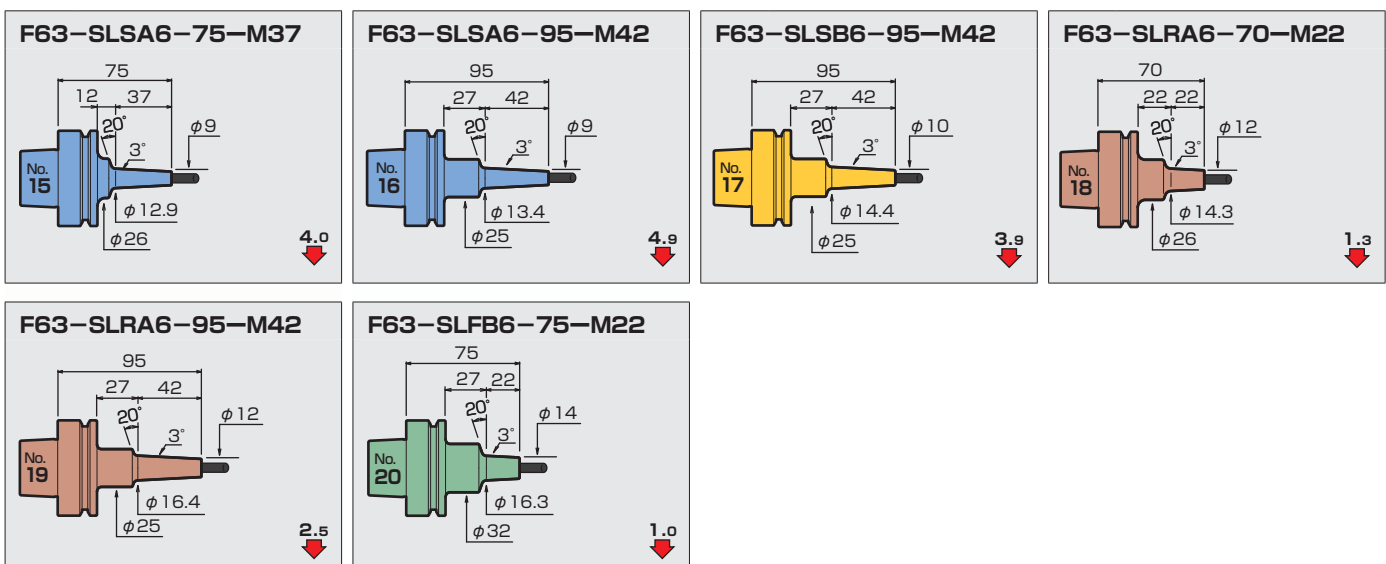
φ3



φ4

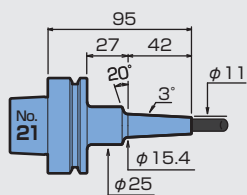


φ6

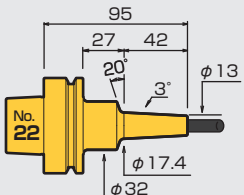


φ8

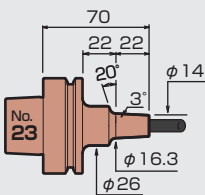
F63-SLSA8-95-M42



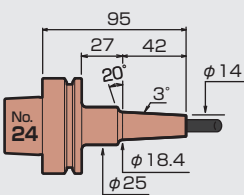
F63-SLSB8-95-M42



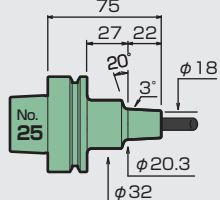
F63-SLRA8-70-M22



F63-SLRA8-95-M42

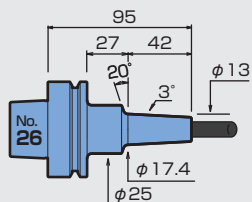


F63-SLFB8-75-M22

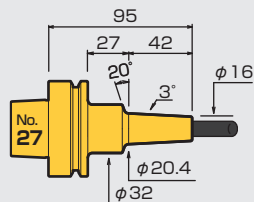


φ10

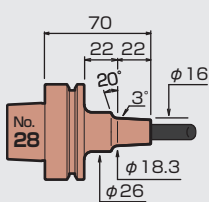
F63-SLSA10-95-M42



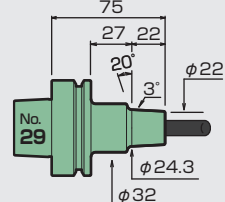
F63-SLSB10-95-M42



F63-SLRA10-70-M22

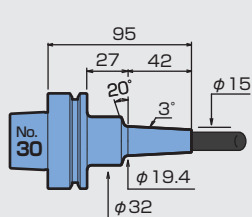


F63-SLFB10-75-M22

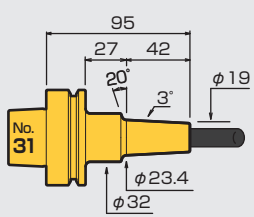


φ12

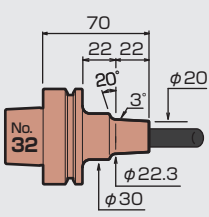
F63-SLSA12-95-M42



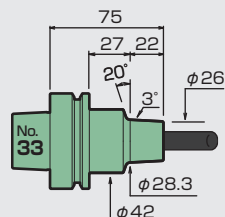
F63-SLSB12-95-M42



F63-SLRA12-70-M22

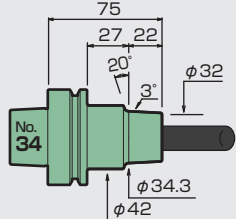


F63-SLFB12-75-M22



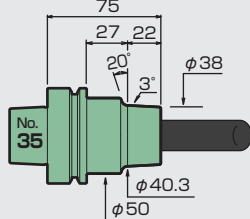
φ16

F63-SLFB16-75-M22



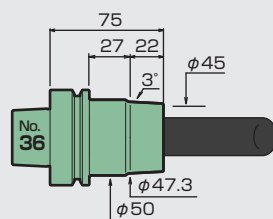
φ20

F63-SLFB20-75-M22

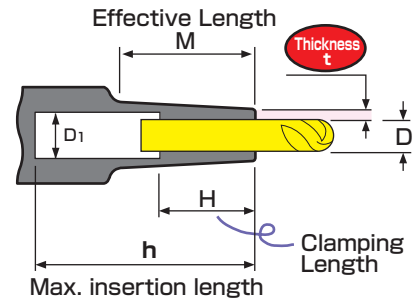
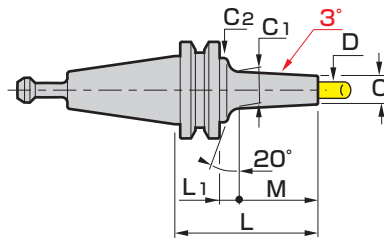
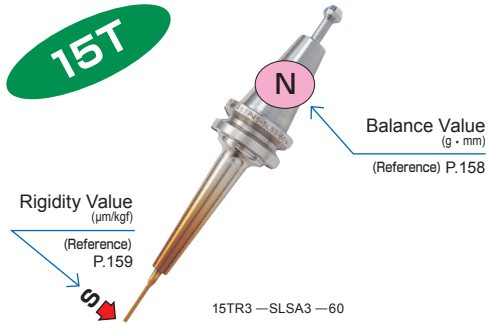


φ25

F63-SLFB25-75-M22



15T

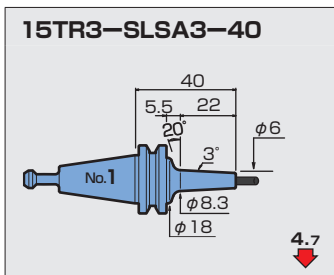


CODE	φD	φC	Thickness t	L	M	L ₁	φC ₁	φC ₂	φD ₁	H	h	Kg	N	S	Scale model
15TR3—SLSA 3—40	3	6	1.5	40	22	5.5	8.3	18	4	9	46	0.1	0.3	4.7	1
—60				60	42		10.4				66			9.3	2
15TR3—SLSA3.175—40	3.175	6.175	1.5	40	22	5.5	8.5	18	4	9	46	0.1	0.3	4.4	3
—60				60	42		10.6				66			8.8	4
15TR3—SLSA 4—40	4	7	1.5	40	22	5.5	9.3	18	5	12	46	0.1	0.3	3.6	5
—60				60	42		11.4				66			7.3	6
15TR3—SLSA 5—40	5	8	1.5	40	22	5.5	10.3	18	6	15	46	0.1	0.3	2.9	7
—60				60	42		12.4				66			5.9	8
15TR3—SLSA 6—60	6	9	1.5	60	42	5.5	13.4	18	7	18	66	0.1	0.4	4.9	9
—SLRA 6—35		12	3	35	19.6		14.1				46		0.2	1.2	10
15TR3—SLRA 8—35	8	14	3	35	19.6	2.9	16.1	—	8.6	20	51	0.1	0.3	0.9	11
15TR3—SLRA10—35	10	16	3	35	19.6	2.9	18.1	—	10.6	20	51	0.1	0.4	0.8	12

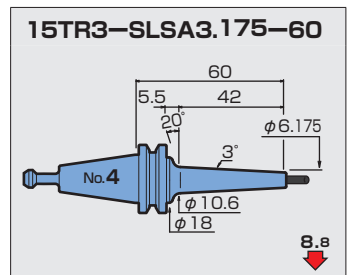
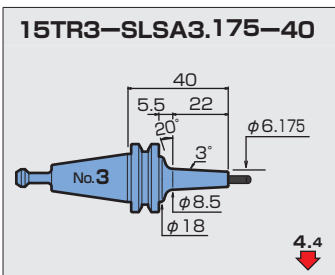
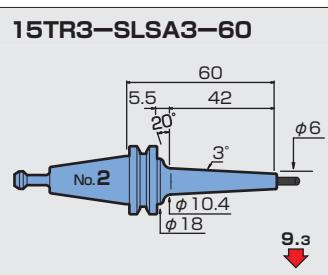
S=1:3

15T Scale Model

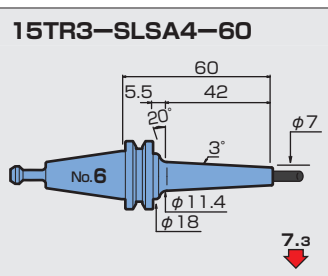
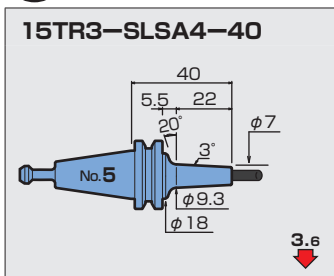
φ3



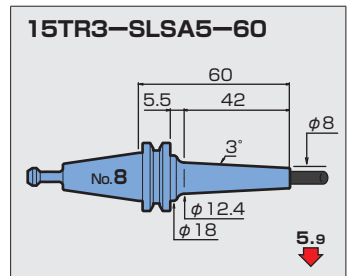
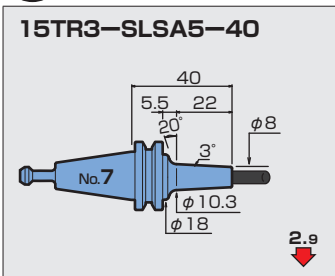
φ3.175



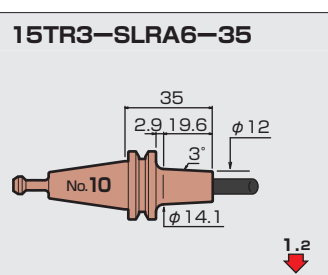
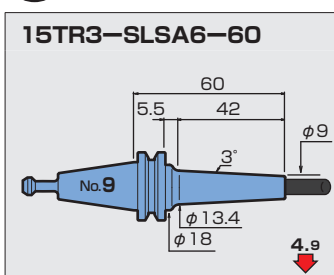
φ4



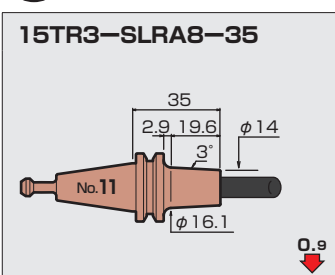
φ5



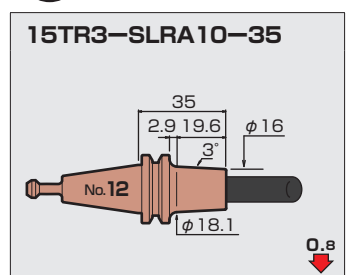
φ6



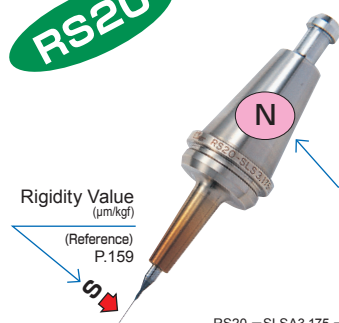
φ8



φ10



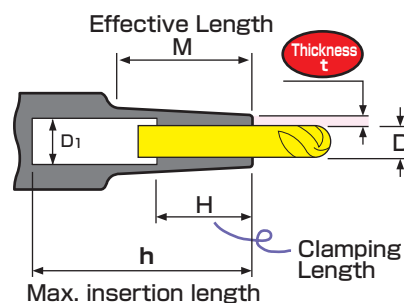
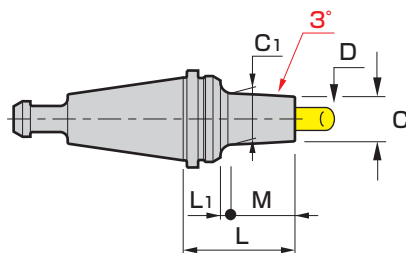
RS20



Rigidity Value
($\mu\text{m/kgf}$)
(Reference) P.159

Balance Value
(g · mm)
(Reference) P.158

RS20-SLSA3.175-35



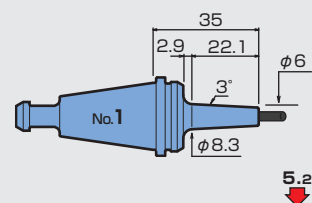
CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	ϕD_1	H	h	Kg	N	S	Scale model
RS20-SLSA 3-35	3	6	1.5	35	22.1	2.9	8.3	4	9	46	0.1	0.2	5.2	1
RS20-SLSA 3.175-35	3.175	6.175	1.5	35	22.1	2.9	8.5	4	9	46	0.1	0.2	4.9	2
RS20-SLSA 4-35	4	7	1.5	35	22.1	2.9	9.3	5	12	46	0.1	0.2	4.0	3
RS20-SLSA 5-35	5	8	1.5	35	22.1	2.9	10.3	6	15	46	0.1	0.2	3.2	4
RS20-SLRA 6-30	6	12	3	30	17.1	2.9	13.8	6.4	18	46	0.1	0.2	1.1	5
RS20-SLRA 8-30	8	14	3	30	17.2	2.8	15.8	8.6	20	51	0.1	0.3	0.9	6
RS20-SLRA10-30	10	16	3	30	17.6	2.4	17.9	10.6	20	51	0.1	0.4	0.7	7

RS20 Scale Model

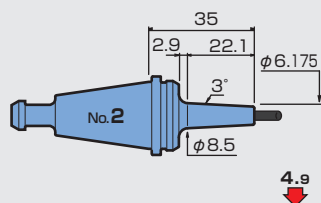
S=1:2.5

 $\phi 3$

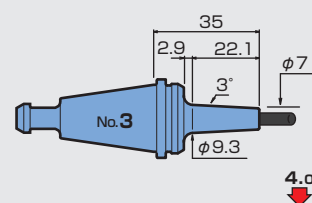
RS20-SLSA3-35

 $\phi 3.175$

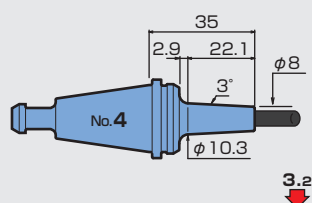
RS20-SLSA3.175-35

 $\phi 4$

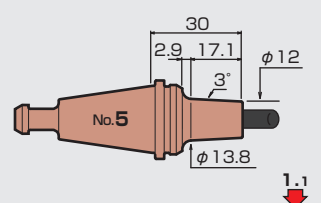
RS20-SLSA4-35

 $\phi 5$

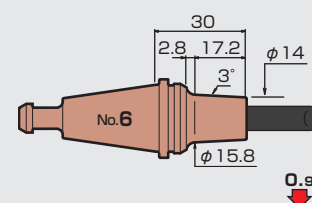
RS20-SLSA5-35

 $\phi 6$

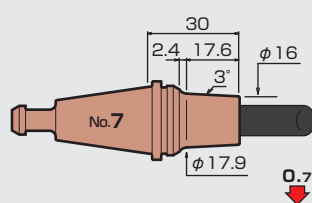
RS20-SLRA6-30

 $\phi 8$

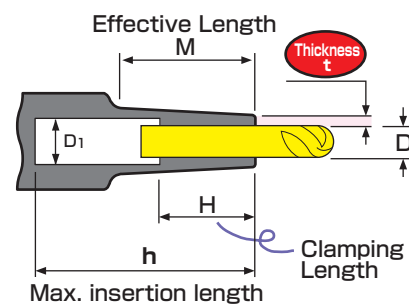
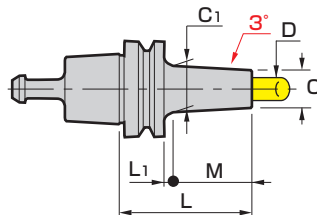
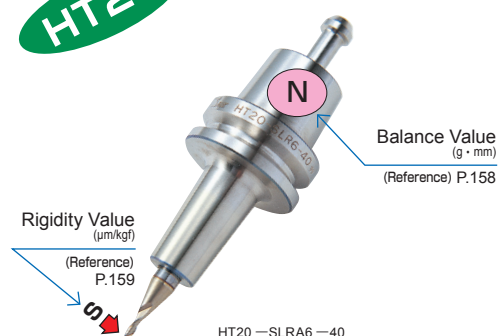
RS20-SLRA8-30

 $\phi 10$

RS20-SLRA10-30

ROKU-ROKU
MEGA III

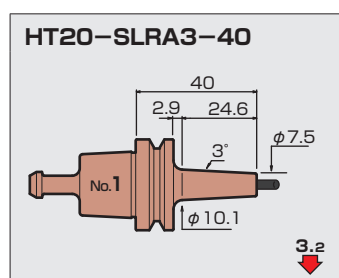
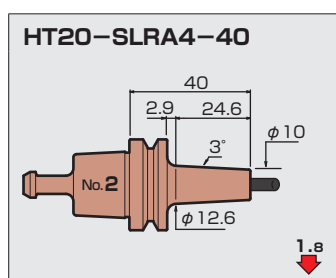
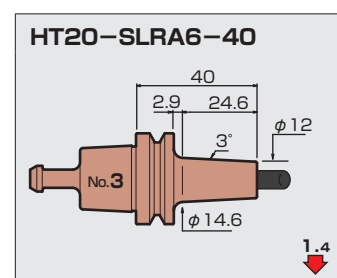
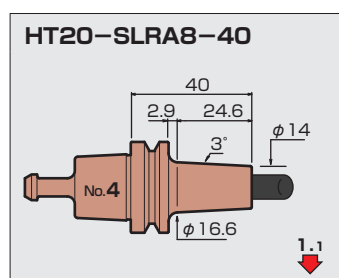
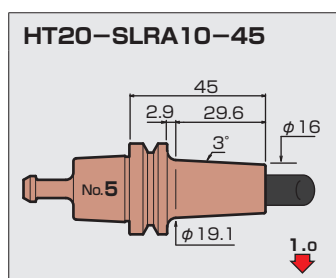
HT20



CODE	ϕD	ϕC	Thickness t	L	M	L_1	ϕC_1	ϕD_1	H	h	Kg	N	S	Scale model
HT20-SLRA 3-40	3	7.5	2.25	40	24.6	2.9	10.1	3.6	9	14	0.1	0.2	3.2	1
HT20-SLRA 4-40	4	10	3	40	24.6	2.9	12.6	4.6	12	20	0.1	0.2	1.8	2
HT20-SLRA 6-40	6	12	3	40	24.6	2.9	14.6	6.6	18	46	0.1	0.3	1.4	3
HT20-SLRA 8-40	8	14	3	40	24.6	2.9	16.6	8.6	24	46	0.1	0.3	1.1	4
HT20-SLRA10-45	10	16	3	45	29.6	2.9	19.1	10.6	30	51	0.1	0.4	1.0	5

S=1:2.5

HT20 Scale Model

 $\phi 3$  $\phi 4$  $\phi 6$  $\phi 8$  $\phi 10$ 

MATSUURA
LX-1 / LX-0 / LX-0 5-AX

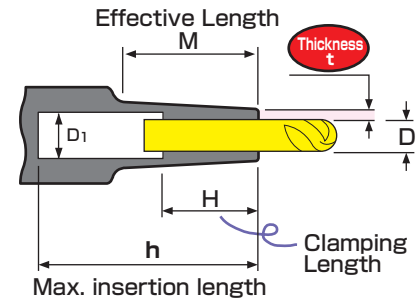
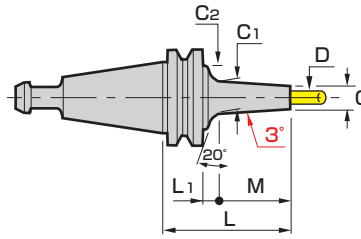


S20T

Rigidity Value
($\mu\text{m/kgf}$)
(Reference)
P.159

Balance Value
(g · mm)
(Reference) P.158

S20TR2—SLRA8—35

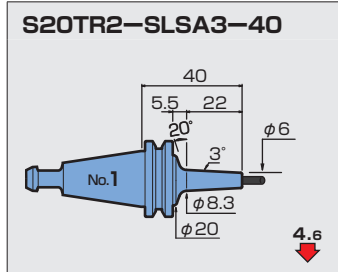


CODE	ϕD	ϕC	Thickness t	L	M	L_1	ϕC_1	ϕC_2	ϕD_1	H	h	Kg	N	S	Scale model
S20TR2—SLSA 3—40	3	6	1.5	40	22	5.5	8.3	20	4	9	46	0.1	0.4	4.6	1
—60				60	42		10.4				66			9.2	2
S20TR2—SLSA3.175—40	3.175	6.175	1.5	40	22	5.5	8.5	20	4	9	46	0.1	0.4	4.4	3
—60				60	42		10.6				66			8.8	4
S20TR2—SLSA 4—40	4	7	1.5	40	22	5.5	9.3	20	5	12	46	0.1	0.4	3.6	5
—60				60	42		11.4				66			7.2	6
S20TR2—SLSA 5—40	5	8	1.5	40	22	5.5	10.3	20	6	15	46	0.1	0.4	2.8	7
—60				60	42		12.4				66		0.5	5.8	8
S20TR2—SLSA 6—60	6	9	1.5	60	42	5.5	13.4	20	7	18	66	0.1	0.5	4.7	9
—SLRA 6—35		12	3	35	19.6	2.9	14.1	—	6.4		46		0.3	1.1	10
S20TR2—SLRA 8—35	8	14	3	35	19.6	2.9	16.1	—	8.6	20	51	0.1	0.4	0.9	11
S20TR2—SLRA10—35	10	16	3	35	19.6	2.9	18.1	—	10.6	20	51	0.1	0.5	0.8	12
S20TR2—SLRA12—45	12	20	4	45	32.5	—	23.4	—	12.6	30	51	0.2	0.6	0.8	13

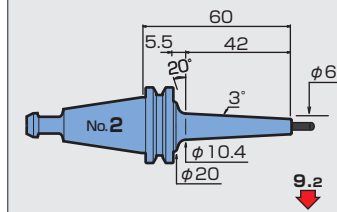
S20T Scale Model

S=1:3

$\phi 3$

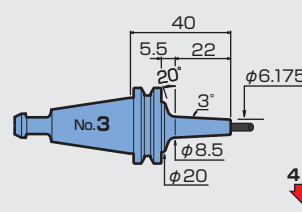


S20TR2—SLSA3—60

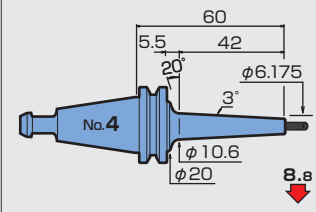


$\phi 3.175$

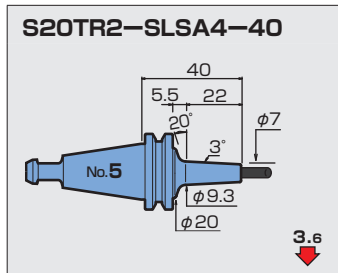
S20TR2—SLSA3.175—40



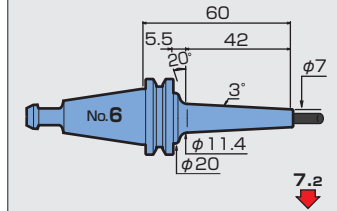
S20TR2—SLSA3.175—60



$\phi 4$

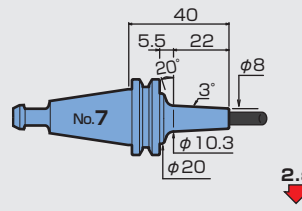


S20TR2—SLSA4—60

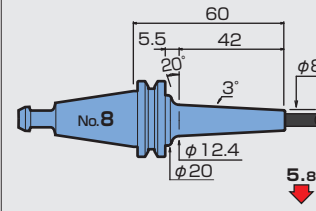


$\phi 5$

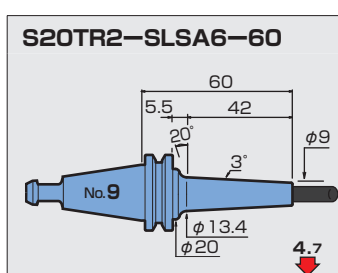
S20TR2—SLSA5—40



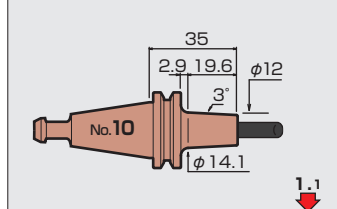
S20TR2—SLSA5—60



$\phi 6$

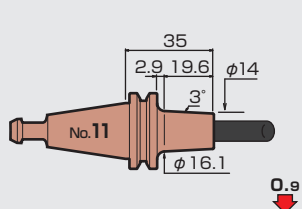


S20TR2—SLRA6—35



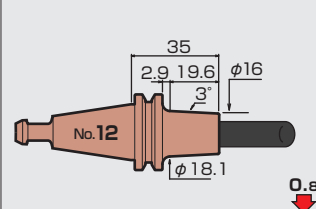
$\phi 8$

S20TR2—SLRA8—35



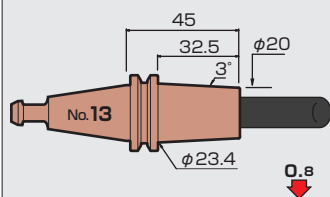
$\phi 10$

S20TR2—SLRA10—35



φ12

S20TR2-SLRA12-45



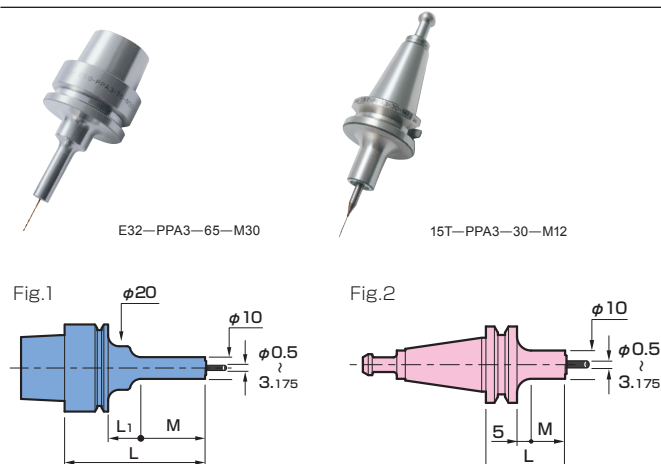
SUGINO
V9 / H7 / Xion- II



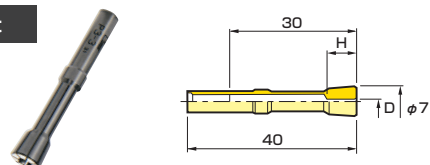
M/C Tool

The Holders Except for Slimline

Pin • Point chuck (PPA)

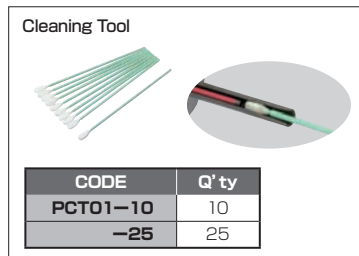
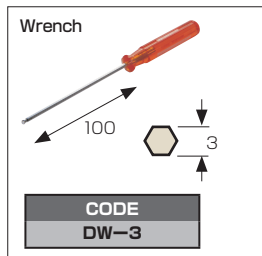


P collet



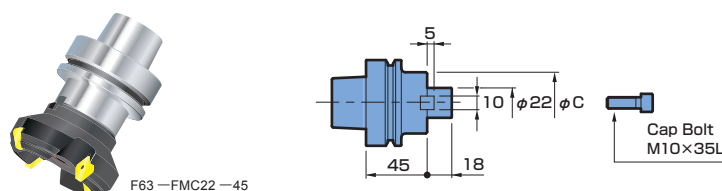
CODE		φD	H	Cutter Insertion Length
Precision Collet	Standard Collet			
P3-0.6-P	P3-0.6	0.5 ~ 0.6	6.9	6.9 ~ 30
-0.8-P	-0.8	0.6 ~ 0.8		
-1 -P	-1	0.8 ~ 1	7	7 ~ 30
-1.5-P	-1.5	1 ~ 1.5	7.2	7.2 ~ 30
-2 -P	-2	1.5 ~ 2	7.3	7.3 ~ 30
-2.5-P	-2.5	2 ~ 2.5	7.4	7.4 ~ 30
-3 -P	-3	2.5 ~ 3	7.6	7.6 ~ 30
-3.175-P	-3.175	2.7 ~ 3.175		

CODE	Fig.	L	M	L1	Kg
E32 -PPA3- 65-M30	1	65	30	15	0.2
E40 -PPA3- 65-M30					0.3
- 90-M45		90	45	25	
E50 -PPA3- 75-M30		75	30	19	0.5
- 90-M30		90		34	
- 90-M45			45	19	
F63M-PPA3- 75-M30		75	30		0.7
- 90-M30		90		34	
-M45	2		45	19	
-120-M60		120	60	34	
-M90			90		
15T -PPA3- 30-M12		30	12.5		0.1
- 45-M27		45	27.5		
S20T-PPA3- 30-M12		30	12.5		
- 45-M27		45	27.5		



■Option ●P collet ●Wrench ●Cleaning tool

Face Mill Arbor (FMC)



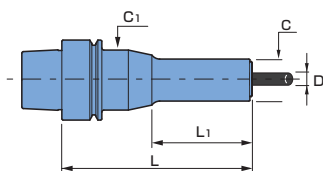
CODE	Cutter dia	C	Kg
E50-FMC22-45	50, 63	42	0.7
F63-FMC22-45		45	1.0

■Standard Accessories ●Cap Bolt ●Stopper Key
■Note ●The cap bolt may differ depending upon the shape of the cutter.

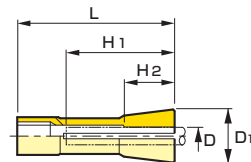
DETa-1 Collet Holder B type (DTB)



E32-DTB7-65K



DETa-1 Collet

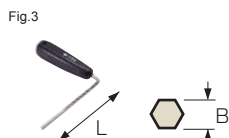


CODE	ϕD	L	ϕC	L ₁	Kg
E32 -DTB 7- 65K (※)	1 ~ 7	65	21	33	0.2
E40 -DTB 7- 95		95		50	0.4
12-110	2.5 ~ 13	110	30	90	0.5
E50 -DTB 7-100	1 ~ 7	100	21	50	0.6
-DTB12-115	2.5 ~ 13	115	30	89	0.8
F63M-DTB 7-100	1 ~ 7	100	21	50	0.9
12-120	2.5 ~ 13	120	30	70	1.1

Option •DETa-1 Collet •Wrench
Caution •※ = Collapsibility of collet cannot use.
 The holding diameter applies only to the reference diameter of collet.

CODE		ϕD	Collapsibility	ϕD_1	L	H ₁	H ₂
Precision Collet	Standard Collet						
D 7- 1.5-P	D 7- 1.5	1 ~ 1.5	0.5	17	50	36	7
- 2 -P	- 2	1.5 ~ 2					10
- 2.5-P	- 2.5	2 ~ 2.5					12
- 3 -P	- 3	2.5 ~ 3					14
- 4 -P	- 4	3 ~ 4					16
- 5 -P	- 5	4 ~ 5					
- 6 -P	- 6	5 ~ 6					
- 7 -P	- 7	6 ~ 7					
D12- 4 -P	D12- 4	2.5 ~ 4	1.5	26	70	50	16
- 6 -P	- 6	4 ~ 6	2				20
- 8 -P	- 8	6 ~ 8					22
-10 -P	-10	8 ~ 10					
-12 -P	-12	10 ~ 12					
-13 -P	-13	11 ~ 13					

Wrench



CODE	HOLDER CODE	Fig.	L	B
TW-4	E32 -DTB7	1	100	4
-5	E40 -DTB7/12	2	153	5
	E50 -DTB7/12			
W -135DR	F63M-DTB7/12	3	132.5	5

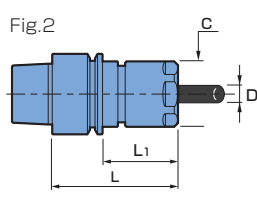
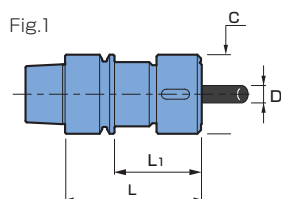
Collet Holder (CTH/CTS)



E32-CTH10-55



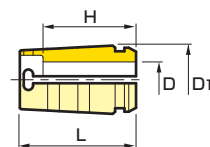
E32-CTS10-50



CODE	Fig.	ϕD	L	ϕC	L ₁	Kg
E32-CTH10-55	1	2.4 ~ 10	55	32	35	0.2
-CTS10-50 (※)	2		50	26	30	
E40-CTH10-55	1		55	32	35	0.4
E50-CTH10-60			60	36	34	0.7
-90			90		64	0.9
-CTH20-75		5.8 ~ 20	75	50	49	
F63-CTH10-60		2.4 ~ 10	60	36	34	0.9
-90			90		64	1.1
-CTH20-75		5.8 ~ 20	75	50	49	

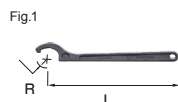
Option •Spring collet •Spanner
Caution •※ = Collapsibility of collet cannot use.
 The holding diameter applies only to the reference diameter of collet.

Spring Collet



CODE		ϕD	L	ϕD_1	H
Precision Collet	Standard Collet				
C10-D-P	C10-D	2.6 ~ 5 (0.2mm steps)	26	17.2	16
		5.2 ~ 5.8 (0.2mm steps)			18
		6 ~ 10 (0.2mm steps)			20
C20-D-P	C20-D	6 ~ 9.8 (0.2mm steps)	50	29.5	29
		10 ~ 15.8 (0.2mm steps)			33
		16 ~ 20 (0.2mm steps)			40

Wrench



CODE	Fig.	HOLDER CODE	L
FC-32	1	E32 - CTH10	120
-36		CTH10	208
-50		CTH20	281
RC-26	2	E32 - CTS10	240