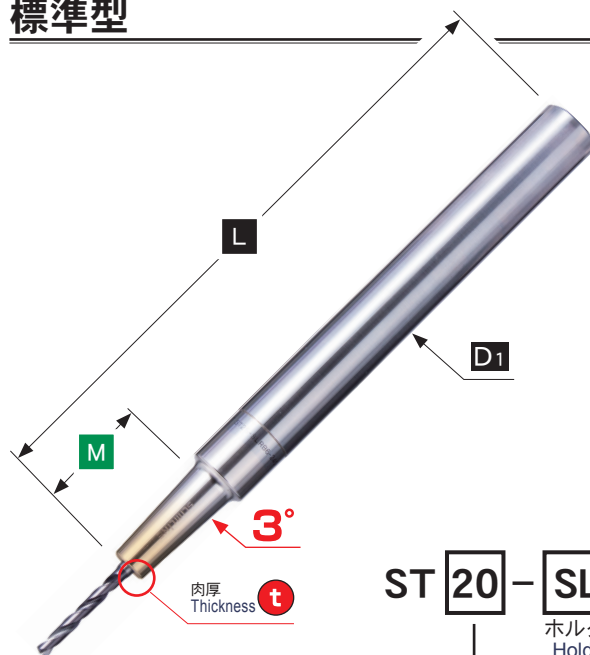


ストレートアーバ

STRAIGHT arbor

標準型

Standard type



ST 20 - SLRB 6 - 120 - M42

ホルダタイプ Holder type

D1	t	種類	L	M
ST10	1.5	φ 3 ~ 5 [4種類]	80	35
ST12		φ 6		
ST16	1.5 ~ 3 [4種類]	φ 3 ~ 8 [4種類]	90, 115, 140	22 ~ 70 [7種類]
ST20	1.5 ~ 5 [7種類]	φ 3 ~ 12 [6種類]	100 ~ 200 [5種類]	30 ~ 110 [10種類]
ST25	1.5 ~ 6 [9種類]	φ 3 ~ 16 [11種類]	120 ~ 320 [19種類]	35 ~ 185 [15種類]
ST32	2 ~ 8 [11種類]	φ 6 ~ 20 [6種類]	140 ~ 375	45 ~ 210 [11種類]
ST42	3 ~ 10 [7種類]	φ 10 ~ 25 [5種類]	170 ~ 445 [7種類]	42 ~ 157 [5種類]

[Unit : mm]

スリム型

SLIM type

SLSA
SLSB

t = 1.5 ~ 4.5mm

- ・ 深堀加工に最適な低干渉タイプ
- ・ ドリル加工にも最適
- ・ Less interference type, ideal for deep machining
- ・ Ideal for drilling

レギュラー型 REGULAR type

SLRA
SLRB

t = 2.25 ~ 10mm

- ・ スリム型に比べ剛性が高くビブりのない安定加工を実現!
- ・ When compared to the slim type, it has more rigidity and achieves stable machining without chattering.

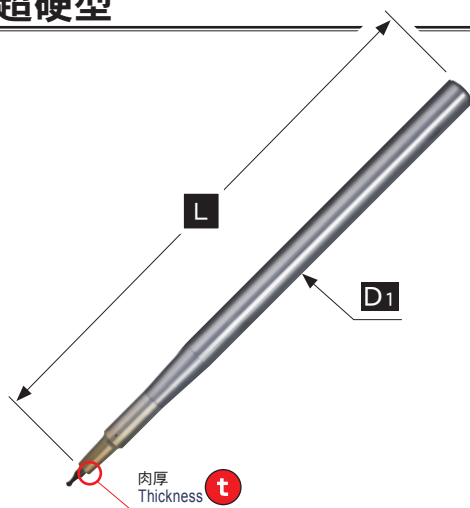
タイプ別肉厚 Categorized by wall thickness

φ	3	4	6	8	10	12	16	20	25
SLSA	1.5								
SLSB	2, 2.5, 3, 3.5, 4, 4.5								
SLRA	2.25	3							
SLRB	4, 5, 6, 7, 8, 9, 10								

[Unit : mm]

超硬型

Carbide type



ST 10C - SLSA 3 - 160

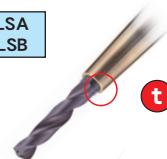
ホルダタイプ Holder type

D1	t	種類	L
ST10C	1.5	φ 3 4	160
ST12C	2	φ 6	175
ST16C	1.5, 2, 2.5	φ 3, 4, 6, 8	225, 280
ST20C	2, 2.5, 3	φ 6, 8, 10	270, 320
ST25C	2.5, 3	φ 8 10	360

[Unit : mm]

スリム型

SLIM type

SLSA
SLSB

t = 1.5 ~ 3mm

- ・ 深堀加工に最適な低干渉タイプ
- ・ Less interference type, ideal for deep machining

タイプ別肉厚 Categorized by wall thickness

φ	3	4	6	8	10
SLSA	1.5				
SLSB	2, 2.5, 3				

[Unit : mm]

スリムライン剛性値計算ソフト

p.117

簡単な条件設定で
最適なホルダを
リストアップします。

SLIMLINE
Rigidity
calculation software

By inputting a few simple conditions, the optimal holder will be selected for the user.



セーフティマーク

最低把持長を示す刻印を
しています。マークより深く
刃物を挿入してください。

Safety mark

Minimum insertion length is
marked on the holder. Insert a
cutting tool beyond this mark.



ホームメイド(標準型)

Use Customization

p.128

長期間 安全・高精度に
お使い頂く為に!

p.124

To ensure long-term safety
and high accuracy

標準型

Standard type



CADデータ
CAD date



外形図
Size Figure



ドリル加工に最適
Optimal for drilling



ST25-SLSA12-230-M110

Fig. 1

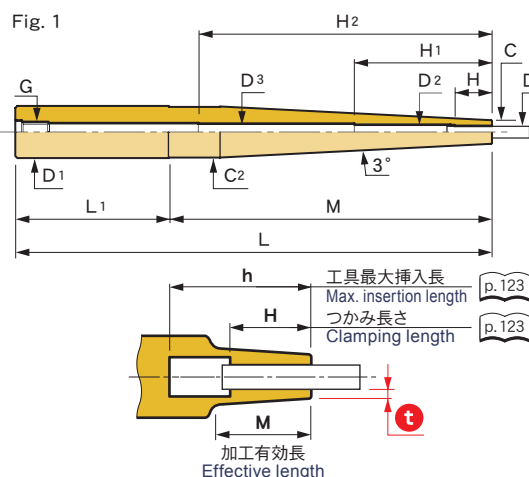
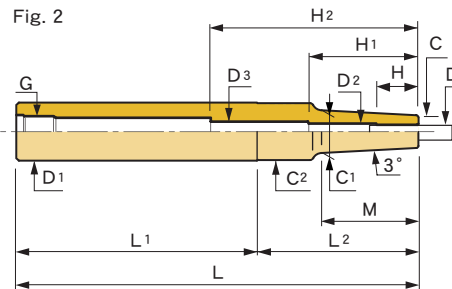


Fig. 2



HRD-01S 対応表

○: 対応 —: 不可

Comparability table for HRD-01S

○: Available —: Not available

[Unit : mm]

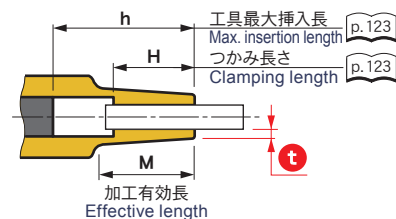
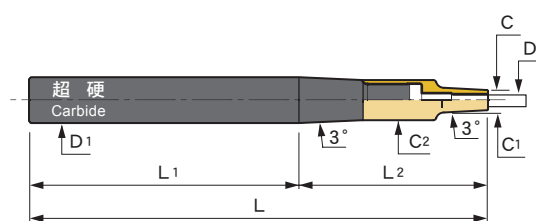
	CODE	Fig.	φD	φC	t	L	M	φD1	H	L1	L2	φC1	φC2	G	h	kg	φD2	φD3	H1	H2	
1	ST10-SLSA 3- 80-M 35	1	3	6	1.5	80	35	10	9	45	—	—	9.3	M 6	64	0.3	4	—	49.6	—	○
2	ST16-SLRA 3- 90-M 22	2		7.5	2.25	90	22	16		60	30	9.8	15.5	M10	62	0.9			33.7		○
3	-SLSA 3-115-M 42			6	1.5	115	42				55	10.4			87				53.7		○
4	-SLRA 3-115-M 42			7.5	2.25					65	50	11.9				0.1					○
5	-SLSA 3-140-M 67			6	1.5	140	67			60	80	13			112		6	54.4	84.3		○
6	-SLRA 3-140-M 67			7.5	2.25					65	75	14.5									○
7	ST20-SLRA 3-175-M 97					175	97	20		70	105	17.7	19.5		147			53.4	109.3		○
8	-SLSA 3-200-M 97			6	1.5	200				90	110	16.2			172	0.3		54.4	104.3		○
9	ST25-SLSA 3-245-M 97					245		25		120	125		24.5		217	0.6	5	49.7	105.3		○
10	-SLRA 3-245-M 97			7.5	2.25							17.7						47.5	99.5		○
11	-SLSA 3-315-M195	1		6	1.5	315	195			—	—				287	0.7		49.7	112.1		○
12	-SLRA 3-315-M 67	2		7.5	2.25		67			220	95	14.5				0.9			75.3		○
13	ST10-SLSA3.175-80-M35	1	3.175	6.175	1.5	80	35	10	10	45	—	—	9.3	M 6	64	0.3	4	—	49.6	—	○
14	ST10-SLSA 4- 80-M 35	1	4	7	1.5	80	35	10	12	45	—	—	9.5	M 6	64	0.3	5	—	50	—	○
15	ST16-SLRA 4- 90-M 22	2		10	3	90	22	16		60	30	12.3	15.5	M10	62	0.9			34		○
16	-SLSA 4-115-M 42			7	1.5	115	42				55	11.4			87	0.1			64		○
17	-SLRA 4-115-M 42			10	3					65	50	14.4							54		○
18	-140-M 60	1				140	60			80	—	—			112			T			○
19	ST16-SLSA 4-140-M 67	2		7	1.5		67			60	80	14					6	64.7	84.3		○
20	ST20-SLRA 4-175-M 95	1		10	3	175	95	20		80	—	—	19.5		147	0.3		53.7	99.3		○
21	-SLSA 4-200-M 97	2		7	1.5	200	97			90	110	17.2			172		7	39.4	104.5		○
22	ST25-SLSA 4-245-M 97					245		25		120	125		24.5		217	0.6	6	49.7	105.6		○
23	-SLRA 4-245-M 97			10	3							20.2						50.5	100.5		○
24	-315-M 67					315	67			220	95	17			287	0.9			70.5		○
25	-SLSA 4-315-M195	1		7	1.5		195			120	—	—				0.7		49.7	112.4		○
26	ST10-SLSA 5- 80-M 35	1	5	8	1.5	80	35	10	15	45	—	—	9.5	M 6	70	0.3	—	—	—	—	○
27	ST20-SLSA 5-200-M110					200	110	20		90			19.2	M10	182		6		69.3		○
28	ST25-SLSA 5-290-M 97	2				290	97	25		180	110	18.2	24.5		272	0.8		7	69.7	114.5	○
29	ST12-SLSA 6- 80-M 35	1	6	9	1.5	80	35	12	18	45	—	—	11.5	M 8	52	0.4	—	—	—	—	○
30	ST16-SLSA 6-115-M 42	2				115	42	16		60	55	13.4	15.5	M10	87	0.1	7		84.5		○
31	-SLSB 6-115-M 42			10	2					65	50	14.4							54.5		○
32	ST20-SLRB 6-120-M 42			14	4	120		20		70		18.4	19.5		92	0.2					○
33	ST16-SLSB 6-140-M 60	1		10	2	140	60	16		80	—	—	15.5		112	0.1			64.5		○
34	-SLSA 6-140-M 70			9	1.5		70			70									74.5		○
35	ST20-SLSA 6-175-M105					175	105	20					19.5		147	0.3			109.5		○
36	-SLSB 6-175-M 95			10	2		95			80									99.5		○
37	-SLRB 6-175-M 60			14	4		60			115									64.5		○
38	ST25-SLSB 6-205-M127	2		10	2	205	127	25		70	135	23.3	24.5		177	0.5			104.5		○
39	-SLSA 6-230-M 97			9	1.5	230	97			120	110	19.2			202				94.5		○
40	-SLRB 6-240-M 42			14	4	240	42			170	70	18.4	24.5		212	0.7	11	50.8	160		○
41	ST32-SLSB 6-255-M157			10	2	255	157	32		70	185	26.5	31.5	M16	227	0.8		8	49.7	107.4	○
42	ST25-SLSA 6-305-M185	1		9	1.5	305	185	25		120	—	—	24.5	M10	277				91.7	166.1	○
43	ST32-SLRB 6-345-M 67	2		14	4	345	67	32		250	95	21	31.5	M16	317	1.6			50.5	73.5	○
44	-SLSB 6-375-M157			10	2	375	157			190	185	26.5			347	1.4			49.7	107.4	○

	CODE	Fig.	φD	φC	t	L	M	φD ₁	H	L ₁	L ₂	φC ₁	φC ₂	G	h	Kg	φD ₂	φD ₃	H ₁	H ₂	
45	ST25-SLSA 7-230-M 97	2	7	10	1.5	230	97	25	20	120	110	20.2	24.5	M10	212	0.5	8	—	69.8	—	○
46	-320-M 97					320				210					302	0.9	7.5		44.7		
47	ST20-SLRB 8-100-M 30	1	8	18	5	100	30	20	24	70	—	—	19.5	M10	72	0.2	—	—	—	—	○
48	ST16-SLSA 8-115-M 50			11	1.5	115	50	16		65			15.5		87	0.1					
49	ST20-SLSB 8-145-M 70			13	2.5	145	70	20		75			19.5		117	0.2					
50	ST25-SLRB 8-160-M 42	2		18	5	160	42	25		110	50	22.4	24.5		132	0.5					
51	ST20-SLSA 8-175-M 85	1		11	1.5	175	85	20		90	—	—	19.5		147	0.3					
52	ST25-SLSB 8-175-M 97	2		13	2.5		97	25		70	105	23.2	24.5			0.4					
53	-SLRB 8-210-M 90	1		18	5	210	90			120	—	—			182	0.6	9	11	71.4	150	
54	-SLSA 8-230-M 97	2		11	1.5	230	97				110	21.2			202		—	—	—	—	
55	-SLSB 8-260-M140	1		13	2.5	260	140				—	—			232	0.7	9	11	121.4	200	
56	-SLSA 8-280-M160			11	1.5	280	160								252				141.4	220	
57	ST32-SLRB 8-285-M 67	2		18	5	285	67	32		190	95	25	31.5	M16	257	1.3		14	75.8	185	
58	-SLSB 8-375-M157			13	2.5	375	157				185	29.5			347	1.5		12	94.1	166.4	
59	ST25-SLSA 9-230-M 97	2	9	12	1.5	230	97	25	30	120	110	22.2	24.5	M10	60	0.6	9.6	—	61	—	○
60	-320-M 97					320				210						0.9					
61	ST25-SLRB10-120-M 35	1		22	6	120	35	25	30	85	—	—	24.5	M10	60	0.4	10.6	—	61	—	○
62	ST20-SLSB10-120-M 50			16	3		50	20		70			19.5			0.2					
63	ST25-SLSB10-145-M 67	2				145	67	25			75	23	24.5			0.4					
64	ST20-SLSA10-145-M 70	1		13	1.5		70	20		75	—	—	19.5			0.2					
65	ST25-SLSB10-175-M105			16	3	175	105	25		70			24.5		154	0.5	11		155		
66	-SLRB10-210-M 90			22	6	210	90			120					149	0.7			150		
67	ST32-SLSB10-240-M170			16	3	240	170	32		70			31.5	M16	212	0.9		14	151.1	200	
68	ST25-SLSA10-255-M135			13	1.5	255	135	25		120			24.5	M10	194	0.7		—	195	—	
69	-SLSB10-275-M105			16	3	275	105			170						0.8					
70	ST32-SLRB10-285-M 67	2		22	6	285	67	32		190	95	29	31.5	M16	257	1.4		14	76.1	185	
71	-SLSA10-340-M210	1		13	1.5	340	210			130	—	—			312	1.3			191.1	270	
72	-SLSB10-360-M170			16	3	360	170			190					332	1.5			151.1	260	
73	ST42-SLSB10-445-M157	2				445	157	42		260	185	32.5	41.5	M24	417	2.7			97.1	165	—
74	ST25-SLSA11-230-M110	1	11	14	1.5	230	110	25	30	120	—	—	24.5	M10	60	0.6	11.6	—	61	—	○
75	-320-M110					320				210						0.9					
76	ST25-SLSB12-120-M 42	2	12	19	3.5	120	42	25	30	70	50	23.4	24.5	M10	60	0.3	12.6	—	61	—	○
77	ST20-SLSA12-120-M 50	1		15	1.5		50	20			—	—	19.5			0.2					
78	ST32-SLRB12-140-M 60			26	7	140	60	32		80			31.5	M16	112	0.7	13		109.5		—
79	ST25-SLSB12-150-M 80			19	3.5	150	80	25		70			24.5	M10	60	0.4		11	61	130	○
80	ST32-SLSB12-220-M150					220	150	32					31.5	M16	192	0.9		14	131.7	180	
81	ST25-SLSA12-230-M110			15	1.5	230	110	25		120			24.5	M10	60	0.6	12.6	11	61	—	
82	-SLSB12-250-M 80			19	3.5	250	80			170						0.8	13			170	
83	ST32-SLRB12-260-M 70			26	7	260	70	32		190			31.5	M16	232	1.3		14	51.7	160	—
84	-SLSA12-315-M185			15	1.5	315	185			130					287	1.2			166.7	245	○
85	-SLSB12-340-M150			19	3.5	340	150			190					312	1.5			131.7	240	
86	ST42-SLSB12-445-M157	2				445	157	42		260	185	35.5	41.5	M24	417	2.8	12.6		59.5	162.5	—
87	ST32-SLRB16-175-M 45	1	16	32	8	175	45	32	32	130	—	—	—	M16	80	0.8	16.6	—	81	—	
88	ST25-SLSB16-175-M 50			24	4		50	25		125				M10		0.5					
89	ST32-SLSB16-290-M100					290	100	32		190			31.5	M16		1.4	17	14		190	
90	ST42-SLRB16-355-M 67	2		32	8	355	67	42		260	95	39	41.5	M24	327	2.7		21	73.5	—	
91	-SLSB16-445-M157	1		24	4	445	157				—	40.5			417	3			165.8	424.5	
92	ST42-SLRB20-170-M 70	1	20	38	9	170	70	42	40	100	—	—	41.5	M24	142	1.3	21	21	109.5	154	
93	ST32-SLSB20-175-M 50			29	4.5	175	50	32		125			31.5	M16	80	0.8		—	81	—	
94	ST42-SLSB20-255-M155					255	155	42		100			41.5	M24	227	1.7		22	194.5		
95	-SLRB20-330-M 70			38	9	330	70			260					302	2.6		22.6	189.5	314	
96	-SLSB20-415-M155			29	4.5	415	155								387	2.9	21.6	22	69.5	135	
97	ST42-SLRB25-170-M 42	2	25	45	10	170	42	42	45	100	70	49.6	53	M24	120	1.5	26	22.6	121	154	
98	-250-M 42					250				180		49.4	50		80	2.1	25.6	22	81	—	

ホルダスタンド
Holder stand

P.26





ST16C-SLSB8-225

[Unit : mm]

	CODE	φD	φC	t	L	M	φD1	H	L1	L2	φC1	φC2	h	kg
1	ST10C-SLSA 3-160	3	6	1.5	160	12	10	9	120	40	7.3	10	19	0.2
2	ST16C-SLSA 3-280				280		16		182	98				0.7
3	ST10C-SLSA 4-160	4	7	1.5	160	12	10	12	120	40	8.3	10	19	0.2
4	ST16C-SLSA 4-280				280		16		182	98				0.7
5	ST12C-SLSB 6-175	6	10	2	175	19.1	12	18	125	50	—	12	27	0.3
6	ST16C-SLSB 6-225				225	22	16		165	60	12.3	16	32	0.6
7	ST20C-SLSB 6-320				320		20		221	99				1.3
8	ST25C-SLSB 6-360				360		25		242	118		20	38	2.2
9	ST16C-SLSB 8-225	8	13	2.5	225	22	16	24	165	60	15.3	16	32	0.6
10	ST20C-SLSB 8-270				270		20		200	70		20	38	1.1
11	ST25C-SLSB 8-360				360		25		242	118				2.2
12	ST20C-SLSB 10-270	10	16	3	270	22	20	30	200	70	18.3	20	38	1.1
13	ST25C-SLSB 10-360				360		25		242	118				2.2

部品コード表

The parts code list

SET-CODE	超硬シャンク Carbide shank	ヘッド Head
ST10C-SLSA 3-160	ST10C- 7 -120	SH 7 -SLSA 3-40
-SLSA 4-160		-SLSA 4-40
ST12C-SLSB 6-175	ST12C- 9 -125	SH 9 -SLSB 6-50
ST16C-SLSA 3-280	ST16C- 7 -240	SH 7 -SLSA 3-40
-SLSA 4-280		-SLSA 4-40
-SLSB 6-225	ST16C-12.5-165	SH12.5-SLSB 6-60
-SLSB 8-225		-SLSB 8-60
ST20C-SLSB 6-320	ST20C-12.5-260	SH12.5-SLSB 6-60
-SLSB 8-270	ST20C-16 -200	SH16 -SLSB 8-70
-SLSB10-270		-SLSB10-70
ST25C-SLSB 6-360	ST25C-16 -290	SH16 -SLSB 6-70
-SLSB 8-360		-SLSB 8-70
-SLSB10-360		-SLSB10-70

