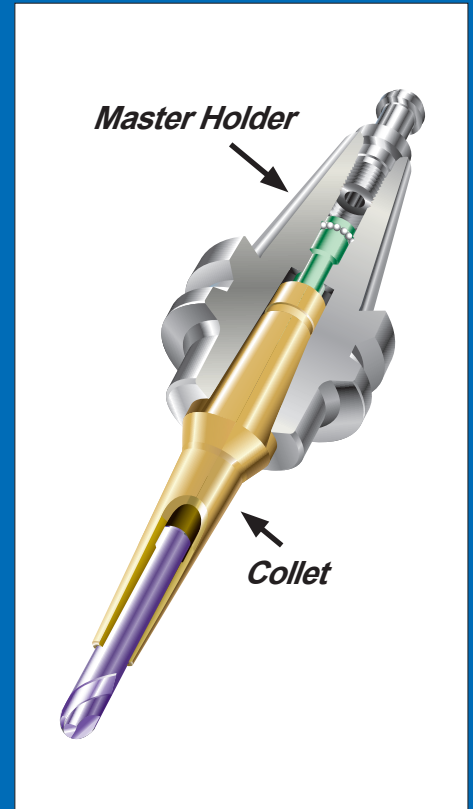


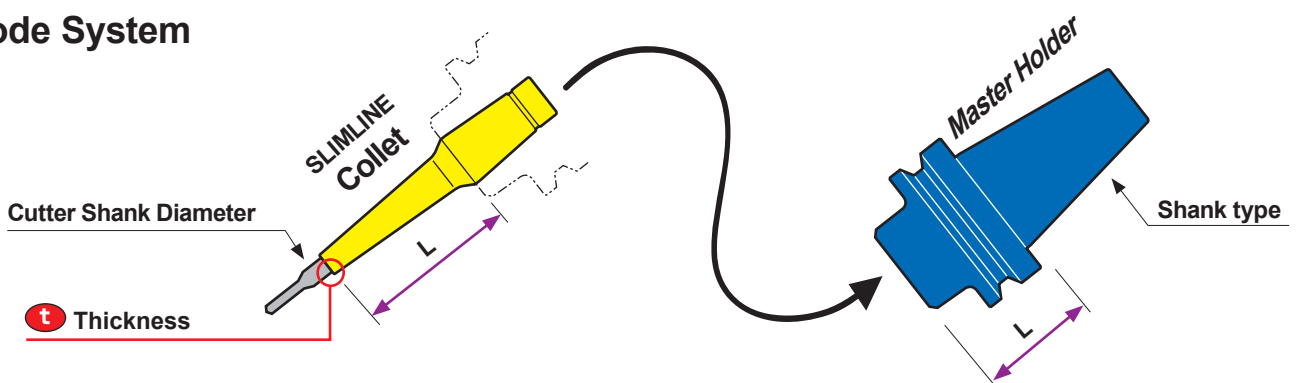
SHRINK-FIT HOLDER
SLIMLINE

Modular type

2 PIECE modular



Code System



Code System

Example 1: **CS 12 - 3 - 110**

- CS 12**: Collet type (CS), The size of collet internal bore (MAX φ12)
- 3**: Thickness (t)
- 110**: Length (L)

Example 2: **BT40 - SLK12 - 35 F**

- BT40**: Shank type
- SLK12**: Order No., The size of collet internal bore (MAX φ12)
- 35**: Length (L)
- F**: With nozzles for coolant through

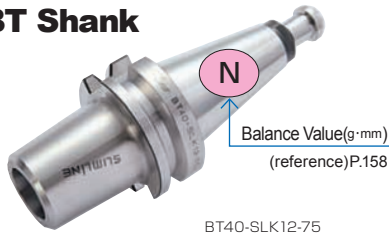
Collet type	Thickness (t)	Cutter Shank Diameter											Shank type						
		METRIC											INCH						
CS (Slim type)	1.5 (Constant)	3	3.175	4	5	6	7	8	9	10	11	12	1/8	3/16	1/4	5/16	3/8	1/2	
CR (Regular type)	2.25 ~ 4	3	4	6	8	10	12	1/8	3/16	1/4	5/16	3/8	1/2						
CF (Flush type)	3.25 ~ 4	3	4	6	8	10	12	1/8	3/16	1/4		3/8	1/2						

Shank type options:

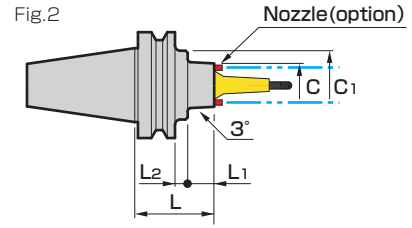
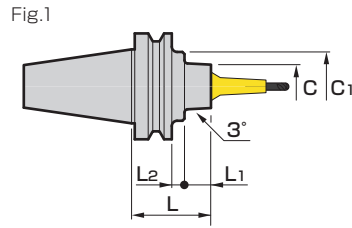
MAS	BT30 · BT40 · BT50
HSK	A50 · A63 · A100 / F63 / E50
DIN	DN40 · DN50
CAT.	CT40 · CT50

Master Holder

BT Shank



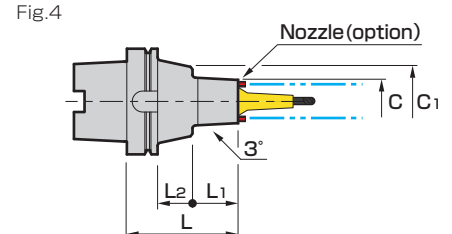
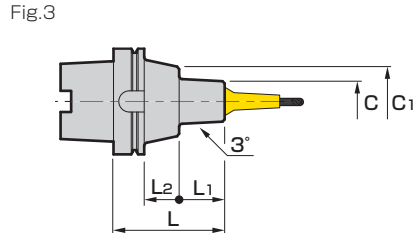
BT40-SLK12-75



HSK Shank



A63-SLK12-75F



CODE	Fig.	L	φC	L1	L2	φC1		N
BT30-SLK12- 35	1	35	38	13	-	-	0.4	1.0
BT40-SLK12- 45		45		18			1.1	1.4
- 45F	2		41					1.6
- 75	1	75	38	48			1.4	
- 75F	2		41					1.8
-135F		135		108			2.2	3.2
BT50-SLK12- 75	1	75	38	25	12	65	4.0	4.7
- 75F	2		41					4.9
-105F		105		55			4.4	5.3
-135F		135		85			4.7	5.7
-225	1	225	38	150	37		6.4	14.3
-315		315			127	90	11.0	31.3
A 50-SLK12- 75	3	75	38	49	-	-	0.8	9.6
A 63-SLK12- 75							1.0	5.0
- 75F	4		41				1.1	5.5
-135	3	135	38	109			1.7	8.5
-135F	4		41				1.9	8.6
A100-SLK12-105	3	105	38	43	33	65	3.4	20.7
-105F	4		41				3.5	20.8
-135F		135		73			3.8	21.1
-225	3	225	38	163		83	5.4	36.3
-315		315		150	136		6.4	46.5
E 50-SLK12- 75		75		49	-	-	0.8	2.9
F63M-SLK12- 75							1.0	3.4
DN40AD-SLK12- 45	1	45	38	13.8	12.1	45	1.0	4.6
- 45F	2		41	7.9	18			4.3
- 75	1	75	38	43.8	12.1		1.3	5.8
- 75F	2		41	55.9	-			5.5
DN50AD-SLK12- 75	1	75	38	40	15.9	70	3.4	12.6
- 75F	2						3.5	12.3
-135F		135	41	100			4.3	19.0
CAT. CT40-SLK12- 45	1	45 (1.77)	41 (1.61)	26 (1.02)	-	44.45 (1.75)	1.1 (2.4)	3.6
CT50-SLK12- 75		75 (2.95)	38 (1.50)	40 (1.57)	15.9 (.63)	70 (2.75)	3.3 (7.3)	8.0

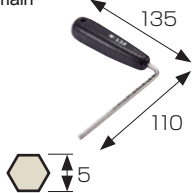
- Optional accessories • Slimline collet • Wrench • Nozzle • Retention knob (BT, DIN, CAT)
- Standard accessories • Coolant duct (HSK)
- Note • A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify whether a MAS-1 or MAS-2 retention knob is required.
- Caution • To fasten the BT30, use a commercially available 14 mm single-ended wrench.

Wrench

Required for clamping the main body and Slimline collet.

CODE

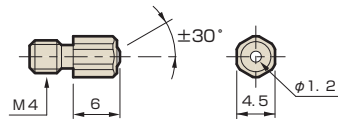
W-135



■ **NOTE** • To fasten the BT30, use a commercially available 14 mm single-ended wrench.

Nozzle(For F-type)

CODE	Q'ty
NOZ-M4-12	12
-60	60



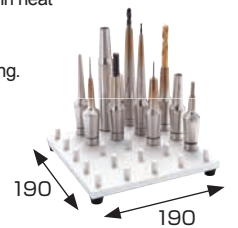
■ **NOTE** • Four nozzles are required for each master holder.

Collet stand

This compact stand can keep a maximum of 25 collets in neat and proper order. Made from aluminum, assuring superior cooling.

CODE

SDK-01



Retention knob with hole

There is no need to remove a retention knob with .236" diameter coolant-thru hole when tightening or loosening Slimline taper adapters.

Coolant-thru hole



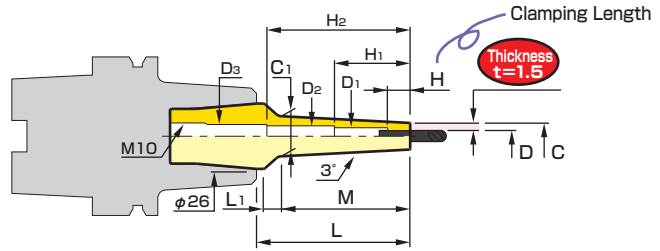
Metric

CS12 (Slim type)

Thickness = 1.5

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

Balance Value ($\text{g} \cdot \text{mm}$)
(reference) P.158



*The values below are given for the BT40-SLK12-45.
(The values below are comparable for any shank combination.)

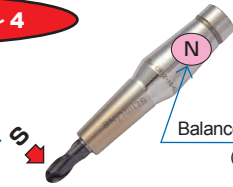
CODE	ϕD	ϕC	Thickness t	L	M	L1	$\phi C1$	H	S	N	Kg	Max. insertion length	$\phi D1$	$\phi D2$	$\phi D3$	H1	H2						
CS12- 3- 35	3	6	1.5	35	22	9.5	8.4	10	4.8	0.5	0.2	65	-	-	4	-	-						
- 55				55	42		10.5		9.5			85											
- 80				80	67		13.1		15.0			0.7						110	4	6	8.6	39.4	74.3
-110				110	97		16.2		20.6			0.8						140					104.3
CS12-3 .175 - 35	3.175	6.175	1.5	35	22	9.5	8.5	10	4.6	0.5	0.2	65	-	-	4	-	-						
- 55				55	42		10.6		9.0			85											
- 80				80	67		13.2		14.3			0.7						110	4	6	8.6	39.4	74.3
-110				110	97		16.4		19.7			0.8						140					104.3
CS12- 4- 35	4	7	1.5	35	22	9.5	9.4	12	3.8	0.5	0.2	65	-	-	5	-	-						
- 55				55	42		11.5		7.5			85											
- 80				80	67		14.1		11.9			0.7						110	5	7	8.6	39.4	74.6
-110				110	97		17.2		16.6			0.9						140					104.6
CS12- 5- 35	5	8	1.5	35	22	9.5	10.4	15	3.0	0.5	0.2	65	-	-	6	-	-						
- 55				55	42		12.5		6.0			0.6						85	6	8.6	49.3		
- 80				80	67		15.1		9.7			0.8						110					
-110				110	97		18.2		13.6			1.0						140					
CS12- 6- 35	6	9	1.5	35	22	9.5	11.4	18	2.4	0.5	0.2	65	-	-	7	-	-						
- 55				55	42		13.5		4.9			0.7						85	7	8.6	49.6		
- 80				80	67		16.1		8.0			0.8						110					
-110				110	97		19.2		11.4			1.0						140					
CS12- 7- 35	7	10	1.5	35	22	9.5	12.4	20	2.0	0.6	0.2	65	-	-	8.6	-	-						
- 55				55	42		14.5		4.1			0.7						85					
- 80				80	67		17.1		6.8			0.9						110					
-110				110	97		20.2		9.7			1.2						0.3	140				
CS12- 8- 35	8	11	1.5	35	22	9.5	13.4	25	1.6	0.6	0.2	65	-	-	8.6	-	-						
- 55				55	42		15.5		3.4			0.7						85					
- 80				80	67		18.1		5.6			0.9						110					
-110				110	97		21.2		8.2			1.2						0.3	140				
CS12- 9- 35	9	12	1.5	35	22	9.5	14.4	30	1.4	0.7	0.2	60	-	-	9.6	-	-						
- 55				55	42		16.5		2.9			0.9											
- 80				80	67		19.1		4.8			1.1											
-110				110	97		22.2		7.1			1.3						0.3					
CS12-10- 35	10	13	1.5	35	22	9.5	15.4	30	1.3	0.8	0.2	60	-	-	10.6	-	-						
- 55				55	42		17.5		2.5			0.9											
- 80				80	67		20.1		4.3			1.1											
-110				110	97		23.2		6.2			1.4						0.3					
CS12-11- 35	11	14	1.5	35	22	9.5	16.4	30	1.1	0.9	0.2	60	-	-	11.6	-	-						
- 55				55	42		18.5		2.3			1.0											
- 80				80	67		21.1		3.8			1.3											
-110				110	97		24.2		5.6			1.5						0.3					
CS12-12- 35	12	15	1.5	35	22	9.5	17.4	30	1.0	1.0	0.2	60	-	-	12.6	-	-						
- 55				55	42		19.5		2.1			1.1											
- 80				80	67		22.1		3.5			1.4											
-110				110	-		-		5.0			1.3						0.3					

CR12 (Regular type)

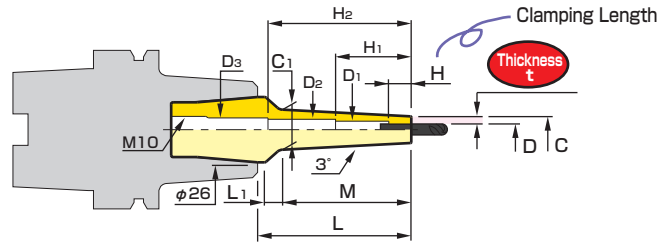
Metric

Thickness = 2.25 ~ 4

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



Balance Value($\text{g}\cdot\text{mm}$)
(reference) P.158



*The values below are given for the BT40-SLK12-45.
(The values below are comparable for any shank combination.)

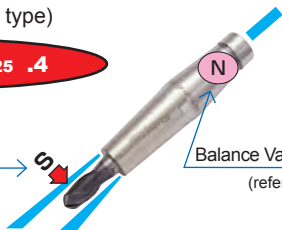
CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	H	S	N	Kg	Max. insertion length	ϕD_1	ϕD_2	ϕD_3	H ₁	H ₂				
CR12- 3-35	3	7.5	2.25	35	22	9.5	9.9	10	2.9	0.5	0.2	65	-	-	4	-	-				
				55	42		12		5.5			85									
				80	67		14.6		8.9			0.7						110	4	6	8.6
CR12- 4-35	4	10	3	35	22	9.5	12.4	12	1.7	0.5	0.2	65	-	-	5	-	-				
				55	42		14.5		3.1			0.6						85			
				80	67		17.1		5.1			0.8						110	5	7	8.6
CR12- 6-35	6	12	3	35	22	9.5	14.4	18	1.3	0.6	0.2	65	-	-	7	-	-				
				55	42		16.5		2.4			0.7						85	7	8.6	49.6
				80	67		19.1		3.9			0.9						110			
CR12- 8-35	8	14	3	35	22	9.5	16.4	25	1.1	0.6	0.2	65	-	-	8.6	-	-				
				55	42		18.5		1.9			0.8						85			
				80	67		21.1		3.1			1						110			
CR12-10-35	10	16	3	35	22	9.5	18.4	30	0.9	0.7	0.2	60	-	-	10.6	-	-				
				55	42		20.5		1.6			0.9									
				80	67		23.1		2.6			1.1						0.3			
CR12-12-35	12	20	4	35	22	9.5	22.4	30	0.7	0.9	0.2	60	-	-	12.6	-	-				
				55	42		24.5		1.1			1.1									
				80	-		-		25.5			1.9						1	0.3		

CF12 (Flush type)

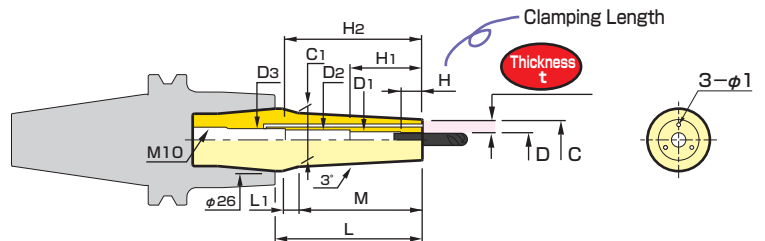
Metric

Thickness = 3.25 ~ 4

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



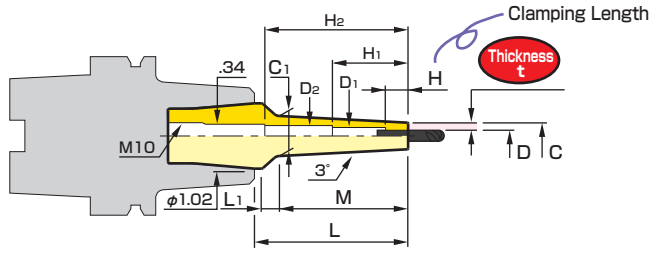
Balance Value($\text{g}\cdot\text{mm}$)
(reference) P.158



*The values below are given for the BT40-SLK12-45.
(The values below are comparable for any shank combination.)

CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	H	S	N	Kg	Max. insertion length	ϕD_1	ϕD_2	ϕD_3	H ₁	H ₂				
CF12- 3-35	3	9.5	3.25	35	22	9.5	11.9	10	1.9	0.5	0.2	65	-	-	4	-	-				
				55	42		14		3.3			0.6						85			
				80	67		16.6		5.3			0.8						110	4	6	8.6
CF12- 4-35	4	12	4	35	22	9.5	14.4	12	1.3	0.6	0.2	65	-	-	5	-	-				
				55	42		16.5		2.2			0.8						85			
				80	67		19.1		3.4			0.9						110	5	7	8.6
CF12- 6-35	6	14	4	35	22	9.5	16.4	18	1.0	0.7	0.2	65	-	-	7	-	-				
				55	42		18.5		1.7			0.9						85	7	8.6	49.6
				80	67		21.1		2.7									110			
CF12- 8-35	8	16	4	35	22	9.5	18.4	25	0.9	0.8	0.2	65	-	-	8.6	-	-				
				55	42		20.5		1.4			1						85			
				80	67		23.1		2.3			1.2						110			
CF12-10-35	10	18	4	35	22	9.5	20.4	30	0.7	0.9	0.2	60	-	-	10.6	-	-				
				55	42		22.5		1.1			1.1									
				80	-		-		1.9			1						0.3			
CF12-12-35	12	20	4	35	22	9.5	22.4	30	0.7	1	0.2	60	-	-	12.6	-	-				
				55	42		24.5		1.1			1.2									
				80	-		-		1.9			1.1						0.3			

Inch



*The values below are given for the CT40-SLK12-45.
(The values below are comparable for any shank combination.)

CODE	ϕD	ϕC	Thickness t	L	M	L ₁	ϕC_1	H	S	N	lbs	Max. insertion length	ϕD_1	ϕD_2	H ₁	H ₂	
CS12-1/ 8- 80	.1250	.24	.059	3.15	2.64	.37	.52	.38	14.0	0.7	0.40	4.33	.16	.24	1.57	2.95	
-110				4.33	3.82		.64		19.3	0.9	0.48	5.51					4.13
-3/16- 80	.1875	.31		3.15	2.64		.58	.58	10.3	0.8	0.41	4.33	.24	-	1.97	-	
-110				4.33	3.82		.71		14.2	1.0	0.51	5.51			2.76		
-1/ 4- 80	.2500	.37		3.15	2.64		.64	.70	7.4	0.9	0.44	4.33	.28		1.97		
-110				4.33	3.82		.77		10.5	1.1	0.56	5.51			2.76		
-5/16- 80	.3125	.43		3.15	2.64		.71	.98	5.6	1.0	0.47	4.33	-		-		
-110				4.33	3.82		.83		8.1	1.2	0.61	5.51					
-3/ 8- 80	.3750	.49		3.15	2.64		.77	1.18	4.4	1.0	0.50	2.36	.41		2.4		
-110				4.33	3.82		.89		6.4	1.3	0.66						
-1/ 2- 80	.5000	.62		3.15	2.64		-		3.1		0.55		.54				
-110				4.33	3.82		-		4.8	1.7	0.77						
CR12-1/ 8- 55	.1250	.36	.089	2.17	1.65	.37	.53	.38	3.5	0.6	0.41	3.35	.16	-	2.36	-	
-3/16- 55	.1875	.42					.60	.46	2.7	0.7	0.42		.24	1.97			
-1/ 4- 55	.2500	.49					.66	.70	2.2	0.8	0.44		.28				
-5/16- 55	.3125	.55					.72	.98	1.9		0.45		-	-			
-3/ 8- 55	.3750	.61					.78	1.18	1.6	0.9	0.47		2.36	.41	2.4		
-1/ 2- 35	.5000	.81					.91		0.6	1.0	0.40		.54				
- 55			.157	2.17	1.99	-		1.1	0.9	0.54							
CF12-1/ 8- 55	.1250	.38	.128	2.17	1.65	.14	.55	.39	3.1	0.7	0.42	3.35	.16	-	2.64	-	
-3/16- 55	.1875	.50					.68	.55	1.9	0.8	0.46		.24				
-1/ 4- 55	.2500	.56					.74	.71	1.6	0.9	0.47		.28	1.97			
-3/ 8- 55	.3750	.69					.86	1.18	1.3	1.1	0.51		.54	2.4			
-1/ 2- 55	.5000	.81							1.1	1.0	0.54		.52				
							.157	1.99	-	-							