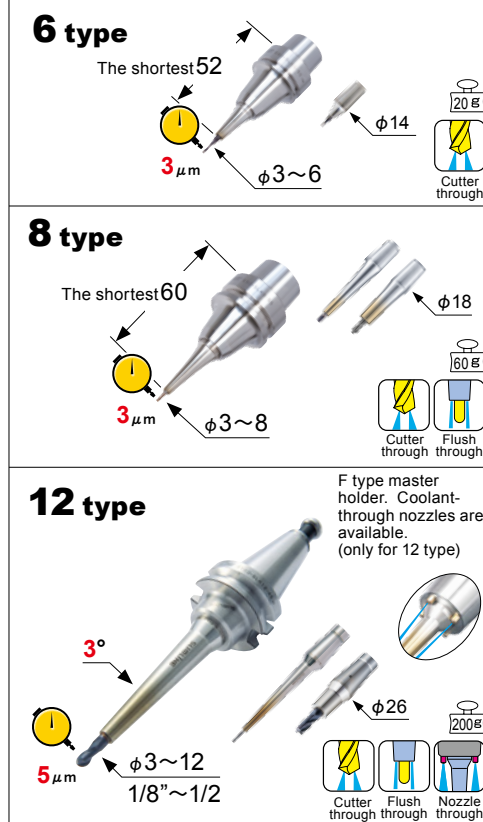
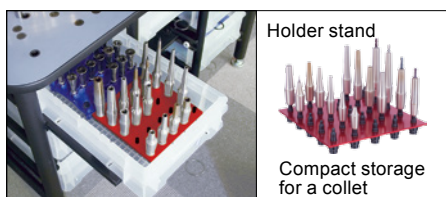
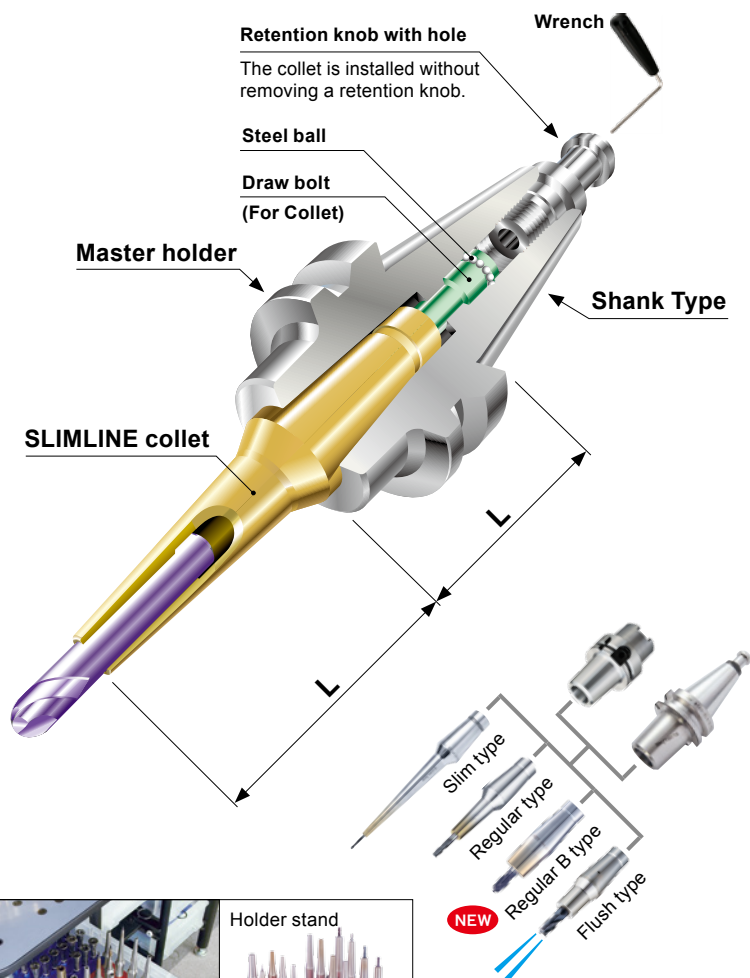


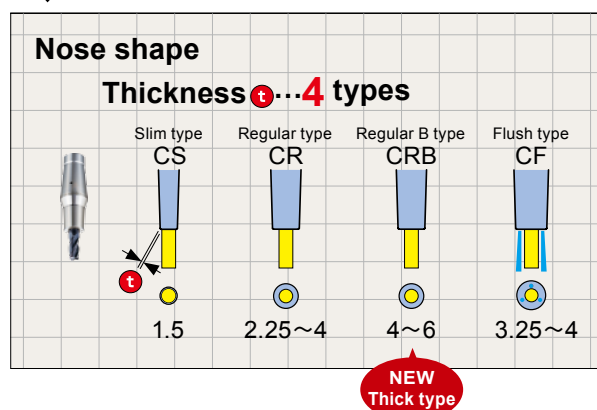
2 PIECE type



MASTER HOLDER
BT40 – SL K 12 – 45 F
 Shank Type SLIMLINE Type L Coolant-through

SLIMLINE COLLET
CS 12 – 3 – 110
 Collet type φD L

PAGE			Inch
214	6 type	BT30 HSK-A40, A50 HSK-E32, E40, E50	—
215	8 type	BT30, BT40 HSK-A40, A50, A63 HSK-E40, E50, F63	—
216	12 type	BT30, BT40, BT50 HSK-A50, A63, A100 HSK-E50, F63 CT40, CT50 DN40, DN50	○



Master holder 6 type



Fig. 1

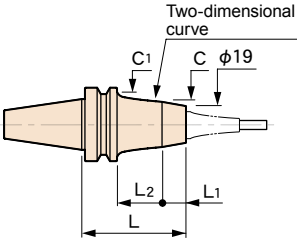
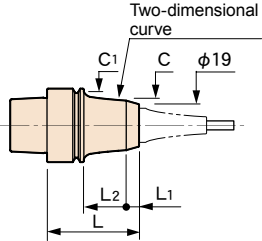


Fig. 2

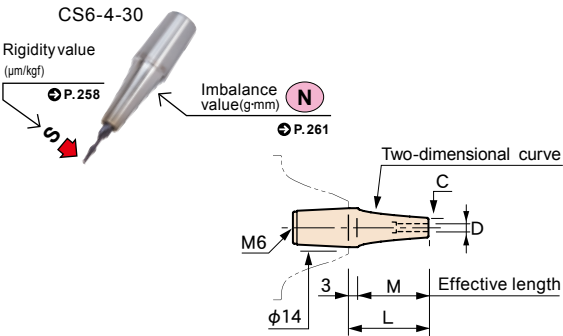


CODE	Fig.	L	L ₁	L ₂	φC	φC ₁		
BT30-SLK 6-35-MAS1	1	35	13	—	—	34	0.5	1.4
-MAS2								
-65-MAS1		65	15	28	25.1		0.6	2.2
-MAS2								
A40 -SLK 6-37	1	37	17	—	—	34	0.2	3
50		50	7	23	23.5		0.3	3.9
A50 -SLK 6-42	2	42	16	—	—	42	0.4	5.3
55		55	7	22	24.6		0.5	6.4
E32 -SLK 6-37	2	37	7	10	26	—	0.2	1.3
-50		50		23				2.2
E40 -SLK 6-37	2	37	17	—	—	34	0.3	1.7
-50		50	7	23	23.5			2.6
E50 -SLK 6-42	2	42	16	—	—	42	0.5	3.4
-55		55	7	22	24.6		0.6	4.4

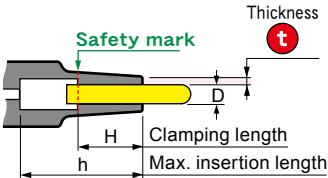
- Option**
 - SLIMLINE collet 6 type
 - Wrench.

■Std.Access.
 - Coolant duct (HSK-A)
 - Retention knob (BT30)→P.244
- Note**
 - A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify machine maker and model number. To replace the retention knob, please contact us.
- Caution**
 - If the SLIMLINE collet can't be removed from a master holder, follow the procedure on P.256.
 - HSK-E shank doesn't come with a coolant duct and cannot be attached. Consult us if you need it.

SLIMLINE collet 6 type

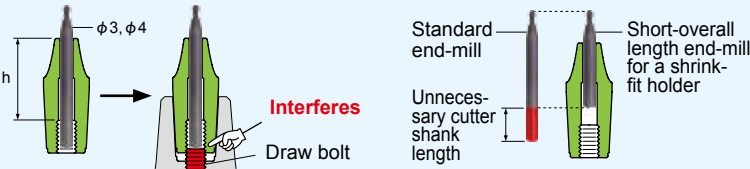


- Note**
 -  refers to the deflection value of an E32-SLK6-37 and the SLIMLINE collet 6 type combination. The values are comparable for any shank combination.
- Caution**
 - Setting cutters...Be sure to insert the tool beyond the safety mark.



CODE	φD	φC	Thickness 	L	M	H	 S			h
CS6-3-15	3	6	1.5	15	12	9	1.5	0.1	20	24
-30				30	27		3.2	0.2	30	39
-45				45	42		9	0.3	40	54
CR6-3-30	3	7.5	2.25	30	27	9	1.3	0.1	30	39
-45				45	42		6.2	0.3	40	54
CS6-4-15	4	7	1.5	15	12	12	1.2	0.1	30	24
-30				30	27		2.8	0.2		39
-45				45	42		7.9	0.4	40	54
CR6-4-30	4	10	3	30	27	12	1	0.1	30	39
-45				45	42		4.4	0.5	50	54
CS6-6-15	6	9	1.5	15	12	15	1	0.1	20	24
-30				30	27		2.4	0.3	30	35
-45				45	42		6.5	0.5	40	
CR6-6-30	6	12	3	30	27	15	0.8	0.2	20	35
-45				45	42		4	0.6		

- ⚠ Don't insert the cutter shank to the max. insertion length (h).**
- If the cutting tool shank face touches the bottom of the holder, the collet will not be installed properly and it may cause poor accuracy. Be sure to pay attention to this by using CS6 and CS8 with L = 15 and 25, because their "h" dimension is very short. We recommend you use the short overall length tool for SLIMLINE (6 type・8 type) because its insertion length is short.
- When cutting off a tool shank, please remove any burrs on the cutting surface of the tool shank carefully.



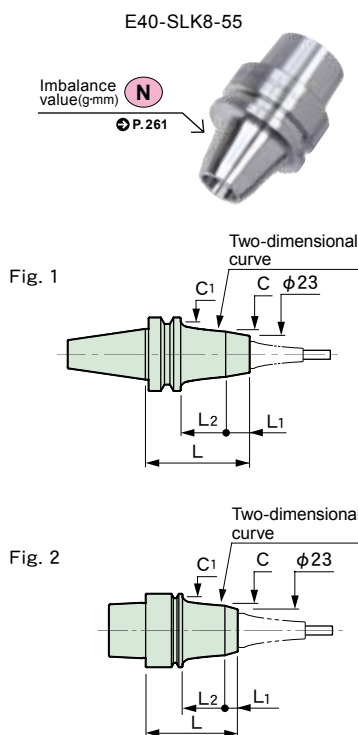
- Wrench (both for 6 and 8 type)**
- Used for clamping of master holders (type 6 & type 8) and SLIMLINE collet (type 6 & type 8).

	
TW-4	DW-14
CODE	
TW- 4	HSK-A, E, F, BT40
DW-14	BT30

- Holder stand**
- Ⓟ P.13



Master holder 8 type



CODE	Fig.	L	L ₁	L ₂	φC	φC ₁	Kg	(N)
BT30-SLK8-35-MAS1	1	35	13	—	—	34	0.4	1.5
-MAS2								
-65-MAS1		65	15	28	27.5		0.6	2.3
-MAS2								
BT40-SLK8-40	2	40	13	—	—	53	1	1.8
-70		70	15	28	31.2		1.2	2.5
A40-SLK8-50	2	50	7	23	27	34	0.3	2.5
-70		70	15	35	27.3		0.4	3.3
A50-SLK8-55	2	55	7	22	28.1	42	0.5	4
-75		75	15	34	28.7		0.6	4.8
A63-SLK8-55	2	55	7	22	29.5	53	0.8	5.7
-75		75	15	34	30.5		0.9	5.9
E40-SLK8-50	2	50	7	23	27	34	0.3	2.1
-70		70	15	35	27.3		0.4	2.9
E50-SLK8-55	2	55	7	22	28.1	42	0.6	2.7
-75		75	15	34	28.7		0.7	3.5
F63M-SLK8-55	2	55	7	22	29.5	53	0.8	4.4
-75		75	15	34	30.5		1	5.2

Option

- SLIMLINE collet 8 type
- Wrench

Std.Access.

- Coolant duct (HSK-A)
- Retention knob (BT30)→p.244

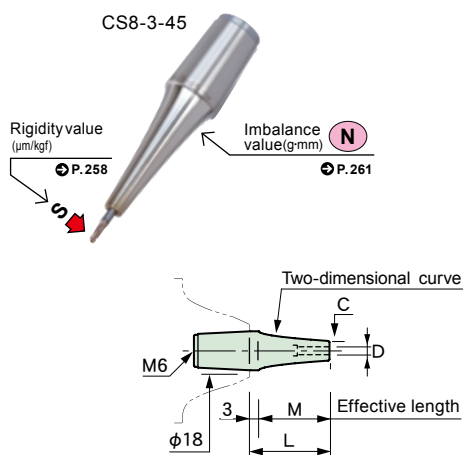
Note

- A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify machine maker and model number. To replace the retention knob, please contact us.

Caution

- If the SLIMLINE collet can't be removed from a master holder, follow the procedure on p.256.
- HSK-E shank doesn't come with a coolant duct and cannot be attached. Consult us if you need it.

SLIMLINE collet 8 type

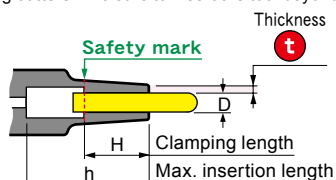


Note

- **(S)** refers to the deflection value of an E40-SLK8-50 and SLIMLINE collet type 8 combination. The values are comparable for any shank combination.

Caution

- Setting cutters...Be sure to insert the tool beyond the safety mark.



CODE	φD	φC	t	L	M	H	S	(N)	g	h
CS8-3-25	3	6	1.5	25	22	9	2.1	0.2	60	37.5
-45				45	42		4.8	0.4	70	57.5
-65				65	62		10.3	0.6	80	77.5
CR8-3-45	3	7.5	2.25	45	42	9	3.6	0.5	70	57.5
-65				65	62		7.4	0.7	90	77.5
CF8-3-45				45	42		2.8	0.5	80	57.5
-65	3	9.5	3.25	65	62	9	5.3	0.8	100	77.5
CS8-4-25				25	22	12	1.8	0.3	60	37.5
-45				45	42		4.4	0.5	70	57.5
-65				65	62		9.2	0.6	80	77.5
CR8-4-45	4	10	3	45	42	12	2.7	0.6	80	57.5
-65				65	62		5.3	0.8	100	77.5
CF8-4-45				45	42		2.3	0.7	90	57.5
-65	4	12	4	65	62	12	4.2	0.9	110	77.5
CS8-6-25				25	22	15	1.5	0.3	60	35
-45				45	42		3.7	0.6	80	
-65				65	62		7.6	0.8	90	
CR8-6-45	6	12	3	45	42	15	2.5	0.7	90	35
-65				65	62		4.8	1	110	
CF8-6-45				45	42		2.1	0.8	100	35
-65	6	14	4	65	62	15	3.9	1.1	120	
CS8-8-25				25	22	20	1.4	0.4	60	37
-45				45	42		3.3	0.7	70	49
CR8-8-45	8	14	3	45	42	20	2.4	0.8	90	49
CF8-8-45				45	42		2.1	1.1	110	49



Master holder 12 type

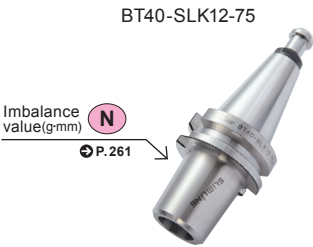


Fig. 1

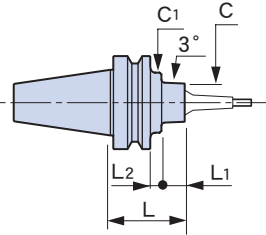


Fig. 2

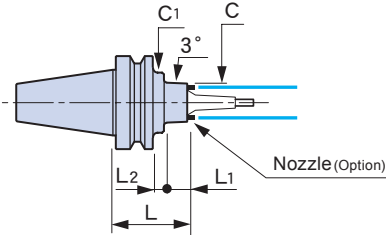


Fig. 3

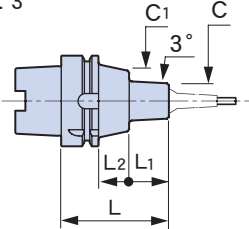
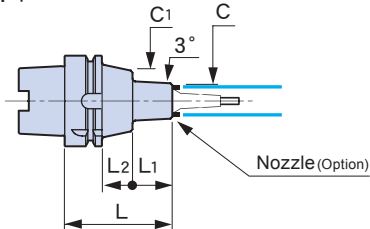
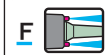


Fig. 4



CODE	Fig.	L	φC	L ₁	L ₂	φC ₁		
BT30-SLK12- 35-MAS1	1	35	38	13	—	—	0.4	1
-MAS2								
BT40-SLK12- 45	1	45	38	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	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	175			6.4	14.8
-315		315		225	52		11	31.3
A50-SLK12- 75	3	75	38	49	—	—	0.8	4.8
A63-SLK12- 75	3	75	38	49	—	—	1	5
- 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	41.3
-105F	4		41				3.5	41.5
-135F		135		73			3.8	42.2
-225	3	225	38	163			5.4	36.3
-315		315		253			6.4	46.5
E50-SLK12- 75	3	75	38	49	—	—	0.8	2.9
F63M-SLK12- 75	3	75	38	49	—	—	1	3.4
DN40AD-SLK12- 45	1	45	38	13.8	12.1	45	1	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



CODE	Fig.	L	ϕ C	L1	L2	ϕ C1	lbs	N
CT40-SLK12- 45	1	1.77	1.61	1.02	—	1.75	2.4	2.4
- 45F	2						2.2	2.8
- 75	1	2.95	1.50	2.20			2.9	3.5
- 75F	2		1.61				3.1	3.9
-135F		5.31		4.56			4.6	6.8
CT50-SLK12- 75	1	2.95	1.50	1.57	.63	2.75	7.5	7.9
- 75F	2		1.61				7.7	8.3
-105F		4.13		2.76			8.6	11.3
-135F		5.31		3.94			9.5	14.4
-225	1	8.86	1.50	7.48			12.6	23
-315		12.40		8.86	2.79		17.6	28



Option

- SLIMLINE collet 12type
- Wrench (W-135)
- Nozzles (nozzle model: NOZ)
- Retention knob (BT40, 50/ CT/ DN)

Std. Access.

- Coolant duct, (HSK-A)
- Retention knob (BT30)

Note

- A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify machine maker and model number. To replace the retention knob, please contact us.

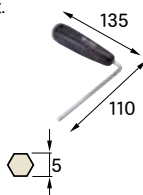
Caution

- If the SLIMLINE collet can't be removed from a master holder, follow the procedure on p.256.
- HSK-E and F shank don't come with a coolant duct and cannot be attached. Consult us if you need it.

Wrench

Required for clamping the master holder and SLIMLINE collet.

CODE
W-135

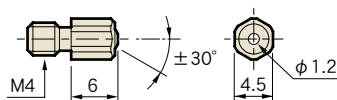


Note

- 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



Std. Access.

- Tightening wrench

Note

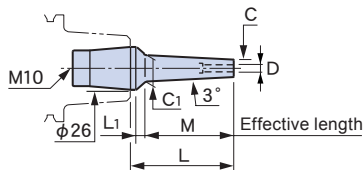
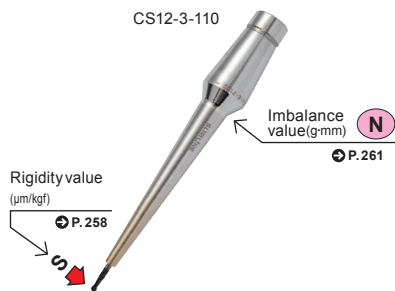
- Four nozzles are required on the flush type master holder.

Retention knob with hole

There is no need to remove a retention knob with 6mm coolant-through hole when tightening or loosening SLIMLINE collet.

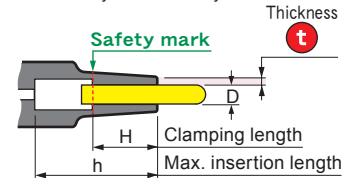


SLIMLINE collet 12 type



Note
 S refers to the deflection value of an BT40-SLK12-45 and the SLIMLINE collet 12 type combination. The values below are comparable for any shank combination.

Caution
 Setting cutters... Be sure to insert the tool beyond the safety mark.



CODE	φD	φC	t	L	M	L ₁	φC ₁	H	S	N	Kg lbs	h
CS12- 3- 35	3	6	1.5	35	22	9.5	8.4	10	4.8	0.5	0.2	60
- 55				55	42		10.5		9.5			80
- 80				80	67		13.1		15	0.7		105
-110				110	97		16.2		20.6	0.8		135
CR12- 3- 35	3	7.5	2.25	35	22	9.5	9.9	10	2.9	0.5	0.2	60
- 55				55	42		12		5.5			80
- 80				80	67		14.6		8.9	0.7		105
CF12- 3- 35	3	9.5	3.25	35	22	9.5	11.9	10	1.9	0.5	0.2	60
- 55				55	42		14		3.3	0.6		80
- 80				80	67		16.6		5.3	0.8		105
CS12-3.175- 35	3.175	6.175	1.5	35	22	9.5	8.5	10	4.6	0.5	0.2	60
- 55				55	42		10.6		9			80
- 80				80	67		13.2		14.3	0.7		105
-110				110	97		16.4		19.7	0.8		135
CS12-1/8- 35	1/8	.24	.059	1.38	.87	.37	.33	.39	4.4	0.5	0.35	2.56
- 55				2.17	1.65		.42		8.7	0.6	0.37	3.35
- 80				3.15	2.64		.52		14	0.7	0.42	4.33
-110				4.33	3.82		.64		19.3	0.9	0.49	5.51
CR12-1/8- 35	1/8	.36	.118	1.38	.87	.37	.45	.39	2	0.5	0.37	2.56
-55				2.17	1.65		.53		3.5	0.6	0.42	3.35
-80				3.15	2.64		.64		5.7	0.8	0.49	4.33
CF12-1/8- 35	1/8	.38	.128	1.38	.87	.37	.47	.39	1.8	0.6	0.40	2.56
-55				2.17	1.65		.55		3.1	0.7	0.42	3.35
-80				3.15	2.64		.66		5.1	0.9	0.49	4.33
CS12- 4- 35	4	7	1.5	35	22	9.5	9.4	12	3.8	0.5	0.2	60
- 55				55	42		11.5		7.5			80
- 80				80	67		14.1		11.9	0.7		105
-110				110	97		17.2		16.6	0.9		135
CR12- 4- 35	4	10	3	35	22	9.5	12.4	12	1.7	0.5	0.2	60
- 55				55	42		14.5		3.1	0.6		80
- 80				80	67		17.1		5.1	0.8		105
CF12- 4- 35	4	12	4	35	22	9.5	14.4	12	1.3	0.6	0.2	60
- 55				55	42		16.5		2.2	0.8		80
- 80				80	67		19.1		3.4	0.9		105
CS12-3/16- 35	3/16	.31	.059	1.38	.87	.37	.40	.59	3.1	0.6	0.35	2.56
- 55				2.17	1.65		.48		6.2	0.7	0.37	3.35
- 80				3.15	2.64		.58		10.3	0.8	0.42	4.33
-110				4.33	3.82		.71		14.2	1	0.53	5.51
CR12-3/16- 35	3/16	.42	.118	1.38	.87	.37	.51	.59	1.5	0.6	0.37	2.56
- 55				2.17	1.65		.60		2.7	0.7	0.42	3.35
- 80				3.15	2.64		.70		4.5	0.9	0.51	4.33

CODE	φD	φC	t	L	M	L ₁	φC ₁	H	S	N	Kg lbs	h
CF12-3/16 - 35	3/16	.50	.157	1.38	.87	.37	.59	.59	1.2	0.7	0.40	2.56
 - 55				2.17	1.65		.68		1.9	0.8	0.46	3.35
- 80				3.15	2.64		.78		3.1	1	0.55	4.33
CS12- 5- 35	5	8	1.5	35	22	9.5	10.4	15	3	0.5	0.2	60
- 55				55	42		12.5		6	0.6		80
- 80				80	67		15.1		9.7	0.8		105
- 110				110	97		18.2		13.6	1		135
CS12- 6- 35	6	9	1.5	35	22	9.5	11.4	18	2.4	0.5	0.2	60
- 55				55	42		13.5		4.9	0.7		80
- 80				80	67		16.1		8	0.8		105
- 110				110	97		19.2		11.4	1		135
CR12- 6- 35	6	12	3	35	22	9.5	14.4	18	1.3	0.6	0.2	60
- 55				55	42		16.5		2.4	0.7		80
- 80				80	67		19.1		3.9	0.9		105
CRB12-6- 35	6	14	4	35	22	9.5	16.3	18	1.0	0.7	0.2	60
- 55				55	42		18.0		1.7	0.8		80
- 80				80	67		21.0		2.7	1.0	0.3	105
CF12- 6- 35	6	14	4	35	22	9.5	16.4	18	1	0.7	0.2	60
 - 55				55	42		18.5		1.7	0.9		80
- 80				80	67		21.1		2.7		0.3	105
CS12-1/4- 35	1/4	.37	.059	1.38	.87	.37	.46	.71	2.2	0.6	0.35	2.56
- 55				2.17	1.65		.54		4.5	0.7	0.40	3.35
- 80				3.15	2.64		.64		7.4	0.9	0.46	4.33
- 110				4.33	3.82		.77		10.5	1.1	0.57	5.51
CR12-1/4- 35	1/4	.49	.118	1.38	.87	.37	.58	.71	1.2	0.6	0.40	2.56
- 55				2.17	1.65		.66		2.2	0.8	0.44	3.35
- 80				3.15	2.64		.76		3.7	1	0.55	4.33
CF12-1/4- 35	1/4	.56	.157	1.38	.87	.37	.66	.71	1	0.8	0.42	2.56
 - 55				2.17	1.65		.74		1.9	0.9	0.49	3.35
- 80				3.15	2.64		.84		2.6	1.1	0.60	4.33
CS12- 7- 35	7	10	1.5	35	22	9.5	12.4	20	2	0.6	0.2	60
- 55				55	42		14.5		4.1	0.7		80
- 80				80	67		17.1		6.8	0.9		105
- 110				110	97		20.2		9.7	1.2	0.3	135
CS12-5/16- 35	5/16	.43	.059	1.38	.87	.37	.52	.98	1.6	0.6	0.37	2.56
- 55				2.17	1.65		.60		3.3	0.8	0.40	3.35
- 80				3.15	2.64		.71		5.6	1	0.49	4.33
- 110				4.33	3.82		.83		8.1	1.2	0.62	5.51
CR12-5/16- 35	5/16	.55	.118	1.38	.87	.37	.64	.98	1	0.7	0.40	2.56
- 55				2.17	1.65		.72		1.9	0.8	0.46	3.35
- 80				3.15	2.64		.83		3.1	1	0.57	4.33
CF12-5/16- 35	5/16	.55	.118	1.38	.87	.37	.64	.98	1	0.7	0.40	2.56
 - 55				2.17	1.65		.72		1.9	0.8	0.46	3.35
- 80				3.15	2.64		.83		3.1	1	0.57	4.33
CS12- 8- 35	8	11	1.5	35	22	9.5	13.4	25	1.6	0.6	0.2	60
- 55				55	42		15.5		3.4	0.7		80
- 80				80	67		18.1		5.6	0.9		105
- 110				110	97		21.2		8.2	1.2	0.3	135
CR12- 8- 35	8	14	3	35	22	9.5	16.4	25	1.1	0.6	0.2	60
- 55				55	42		18.5		1.9	0.8		80
- 80				80	67		21.1		3.1	1	0.3	105
CRB12- 8- 35	8	18	5	35	22	9.5	20.3	25	0.7	0.7	0.2	60
- 55				55	42		22.4		1.1	0.9		80
- 80				80	—		—		1.8		0.3	105
CF12- 8- 35	8	16	4	35	22	9.5	18.4	25	0.9	0.8	0.2	60
 - 55				55	42		20.5		1.4	1		80
- 80				80	67		23.1		2.3	1.2	0.3	105

Feature	CODE	φD	φC	t	L	M	L ₁	φC ₁	H	S	N	Kg lbs	h
Shrink-fit Heater	CS12- 9- 35	9	12	1.5	35	22	9.5	14.4	30	1.4	0.7	0.2	60
	- 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		
Shrink-fit Heater	CS12-3/8- 35	3/8	.49	.059	1.38	.87	.37	.58	1.18	1.3	0.7	0.35	2.36
	- 55				2.17	1.65		.67		2.6	0.8	0.42	
	- 80				3.15	2.64		.77		4.4	1	0.51	
	-110				4.33	3.82		.89		.98	6.4	1.3	0.66
MONO 3° MONO CURVE	CR12-3/8-35	3/8	.61	.118	1.38	.87	.37	.70	1.18	0.9	0.7	0.40	2.36
	-55				2.17	1.65		.78		1.6	0.9	0.49	
	-80				3.15	2.64		.89		2.6	1.1	0.62	
	CF12-3/8-35	3/8	.69	.157	1.38	.87	.37	.78	1.18	0.8	0.9	0.42	2.36
	-55				2.17	1.65		.86		1.3	1.1	0.53	
	-80				3.15	2.64		.97		2	1.3	0.68	
MONO Series	CS12-10- 35	10	13	1.5	35	22	9.5	15.4	30	1.3	0.8	0.2	60
	- 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	
MONO Series	CR12-10- 35	10	16	3	35	22	9.5	18.4	30	0.9	0.7	0.2	60
	- 55				55	42		20.5		1.6	0.9		
	- 80				80	67		23.1		2.6	1.1	0.3	
2PIECE type	CRB12-10- 35	10	22	6	35	22	9.5	24.3	30	0.6	0.9	0.2	60
	- 55				55	—		25.5		0.9	—		
	- 80				80	—		—		1.5	1.1	0.4	
	CF12-10- 35	10	18	4	35	22	9.5	20.4	30	0.7	0.9	0.2	60
	- 55				55	42		22.5		1.1	1.1		
	- 80				80	—		—		1.9	1	0.3	
UNO	CS12-11- 35	11	14	1.5	35	22	9.5	16.4	30	1.1	0.9	0.2	60
	- 55				55	42		18.5		2.3	1		
	- 80				80	67		21.1		3.8	1.3		
	-110				110	97		24.2		5.6	1.5	0.3	
HYPER VERSION	CS12-12- 35	12	15	1.5	35	22	9.5	17.4	30	1	1	0.2	60
	- 55				55	42		19.5		2.1	1.1		
	- 80				80	67		22.1		3.5	1.4		
	-110				110	—		—		5	1.3	0.3	
Z	CR12-12- 35	12	20	4	35	22	9.5	22.4	30	0.7	0.9	0.2	60
	- 55				55	42		24.5		1.1	1.1		
	- 80				80	—		25.5		1.9	1	0.3	
	CF12-12- 35	12	20	4	35	22	9.5	22.4	30	0.7	1	0.2	60
	- 55				55	42		24.5		1.1	1.2		
	- 80				80	—		—		1.9	1.1	0.3	
STRAIGHT arbor	CS12-1/2- 35	1/2	.62	.059	1.38	.87	.37	.71	1.18	0.9	0.9	0.33	2.36
	- 55				2.17	1.65		.79		1.9	1.1	0.42	
	- 80				3.15	2.64		.89		3.1	1.3	0.55	
	-110				4.33	3.68		.50		4.8	1.7	0.77	
OTHERS	CR12-1/2 -35	1/2	.81	.157	1.38	.87	.37	.91	1.18	0.6	1	0.42	2.36
	-55				2.17	1.99		—		1.1	0.9	0.55	
	-80				3.15	1.80		1.20		1.8	2.2	0.75	
	CF12-1/2 -35	1/2	.81	.157	1.38	.87	.37	.91	1.18	0.6	1.1	0.40	2.36
	-55				2.17	1.99		—		1.1	1	0.55	
	-80				3.15	1.80		1.20		1.8	2.3	0.75	

Holder stand

Stands for SLIMLINE COLLETS, STRAIGHT arbor and compact holders (HSK-E25, E32).
Selectable from four colors. Convenient to make arrangements by color-coding, etc.

CODE	Colors	Front face	Back face	Storage capacity
SDKT-RE	Red	SLIMLINE collet STRAIGHT arbor	Small shank holders (HSK-E25/E32)	25 pieces each
-BL	Blue			
-GR	Green			
-GD	Gold			



Size: 190×190[mm]



Front face



Back face