



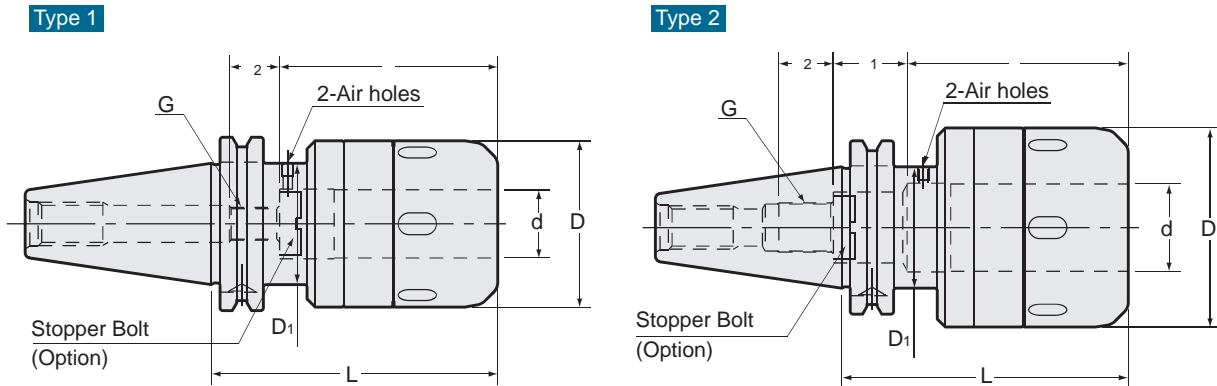
CAT

CAT TOOLING SYSTEM

CT·S

Super tite-lock Milling Chuck

- Slim design milling chuck. Specially designed slits enable heavy endmilling.



Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Inch Sizes

Unit : Inch

Code	Model	Type	d	D	D1	L	ℓ	ℓ1	ℓ2	G P=1.0	Kg	Spanner
01910010424090	CAT40 -CT0750S - 90	1	0.750	2.047	1.750	3.543	3.150	—	0.591	M12	1.7	HS-2-20
01910010424105	-105	1	0.750	2.047	1.750	4.134	3.150	—	0.591	M12	1.9	
01910010424120	-120	1	0.750	2.047	1.750	4.724	3.150	—	0.591	M12	2.1	
01910010432105	CAT40 -CT1000S -105	1	1.000	2.402	1.750	4.134	3.150	—	0.591	M12	2.2	HS-2.5-25
01910010432120	-120	1	1.000	2.402	1.750	4.724	3.150	—	0.591	M12	2.5	
01910010432135	-135	1	1.000	2.402	1.750	5.315	3.150	—	0.591	M12	2.8	
01910010440105	CAT40 -CT1250S -105	2	1.250	2.874	1.750	4.134	3.346	0.906	0.787	M18	2.5	HS-3-32
01910010440120	-120	2	1.250	2.874	1.750	4.724	3.346	0.906	0.787	M18	3.0	
01910010440135	-135	2	1.250	2.874	1.750	5.315	4.724	—	0.787	M18	3.4	
01910010524090	CAT50 -CT0750S -90	1	0.750	2.047	2.750	3.543	3.150	—	0.591	M12	3.7	HS-2-20
01910010524105	-105	1	0.750	2.047	2.750	4.134	3.150	—	0.591	M12	3.9	
01910010524135	-135	1	0.750	2.047	2.750	5.315	3.150	—	0.591	M12	4.3	
01910010532105	CAT50 -CT1000S -105	1	1.000	2.402	2.750	4.134	3.150	—	0.591	M12	4.2	HS-2.5-25
01910010532135	-135	1	1.000	2.402	2.750	5.315	3.150	—	0.591	M12	4.8	
01910010532165	-165	1	1.000	2.402	2.750	6.496	3.150	—	0.591	M12	5.3	
01910010540095	CAT50 -CT1250S -95	1	1.250	2.874	2.750	3.740	4.724	—	0.787	M18	4.2	HS-3-32
01910010540105	-105	1	1.250	2.874	2.750	4.134	4.724	—	0.787	M18	4.5	
01910010540120	-120	1	1.250	2.874	2.750	4.724	4.724	—	0.787	M18	4.9	
01910010540135	-135	1	1.250	2.874	2.750	5.315	4.724	—	0.787	M18	5.4	HS-3-32
01910010540150	-150	1	1.250	2.874	2.750	5.906	4.724	—	0.787	M18	0.0	
01910010540165	-165	1	1.250	2.874	2.750	6.496	4.724	—	0.787	M18	6.3	
01910010564105	CAT50 -CT2000S -105	1	2.000	4.134	2.750	4.134	3.937	—	0.787	M18	5.9	HS-4V
01910010564120	-120	1	2.000	4.134	2.750	4.724	3.937	—	0.787	M18	6.9	
01910010564135	-135	1	2.000	4.134	2.750	5.315	3.937	—	0.787	M18	7.8	
01910010564150	-150	1	2.000	4.134	2.750	5.906	3.937	—	0.787	M18	0.0	
01910010564165	-165	1	2.000	4.134	2.750	6.496	3.937	—	0.787	M18	9.7	

1. Use 2 pcs. of M4 × 5 (S) hex. screw to close air holes on the holder when internal coolant is used.

2. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of milling chucks on order.

3. Tolerance of cutting tool shank must be h7.

Ordering Example

CAT40 - CT 0750 S - 90

Shank size

I.D. (d)

Projection
length (L)

Metric Sizes

Unit : Inch

Code	Model	Type	d (mm)	D	D1	L	ℓ	ℓ1	ℓ2	G P=1.0	Kg	Spanner
01910000416090	CAT40 -CT16S -90	1	16	1.772	1.750	3.543	2.559	—	0.787	M10	1.5	HS-1-16
01910000420090	CAT40 -CT20S -90	1	20	2.047	1.750	3.543	3.150	—	0.591	M12	1.7	HS-2-20
01910000420105	-105	1	20	2.047	1.750	4.134	3.150	—	0.591	M12	1.9	
01910000420120	-120	1	20	2.047	1.750	4.724	3.150	—	0.591	M12	2.1	
01910000425105	CAT40 -CT25S -105	1	25	2.402	1.750	4.134	3.150	—	0.591	M12	2.2	HS-2.5-25
01910000425120	-120	1	25	2.402	1.750	4.724	3.150	—	0.591	M12	2.5	
01910000425135	-135	1	25	2.402	1.750	5.315	3.150	—	0.591	M12	2.8	
01910000432105	CAT40 -CT32S -105	2	32	2.874	1.750	4.134	3.346	0.906	0.787	M18	2.5	HS-3-32
01910000432120	-120	2	32	2.874	1.750	4.724	3.346	0.906	0.787	M18	3.0	
01910000432135	-135	2	32	2.874	1.750	5.315	4.724	—	0.787	M18	3.4	
01910000516090	CAT50 -CT16S -90	1	16	1.772	2.750	3.543	2.559	—	0.787	M10	-	HS-1-16
01910000516105	-105	1	16	1.772	2.750	4.134	2.559	—	0.787	M10	3.7	
01910000520090	CAT50 -CT20S -90	1	20	2.047	2.750	3.543	3.150	—	0.591	M12	-	HS-2-20
01910000520105	-105	1	20	2.047	2.750	4.134	3.150	—	0.591	M12	3.9	
01910000520135	-135	1	20	2.047	2.750	5.315	3.150	—	0.591	M12	4.3	
01910000525105	CAT50 -CT25S -105	1	25	2.402	2.750	4.134	3.150	—	0.591	M12	4.2	HS-2.5-25
01910000525135	-135	1	25	2.402	2.750	5.315	3.150	—	0.591	M12	4.8	
01910000525165	-165	1	25	2.402	2.750	6.496	3.150	—	0.591	M12	5.3	
01910000532095	CAT50 -CT32S -95	1	32	2.874	2.750	3.740	4.724	—	0.787	M18	4.2	HS-3-32
01910000532105	-105	1	32	2.874	2.750	4.134	4.724	—	0.787	M18	4.5	
01910000532120	-120	1	32	2.874	2.750	4.724	4.724	—	0.787	M18	4.9	
01910000532135	-135	1	32	2.874	2.750	5.315	4.724	—	0.787	M18	5.4	
01910000532150	-150	1	32	2.874	2.750	5.906	4.724	—	0.787	M18	5.8	
01910000532165	-165	1	32	2.874	2.750	6.496	4.724	—	0.787	M18	6.3	
01910000542105	CAT50 -CT42S -105	1	42	3.465	2.750	4.134	4.724	—	0.787	M18	5.0	
01910000542120	-120	1	42	3.465	2.750	4.724	4.724	—	0.787	M18	5.6	
01910000542135	-135	1	42	3.465	2.750	5.315	4.724	—	0.787	M18	6.3	
01910000542150	-150	1	42	3.465	2.750	5.906	4.724	—	0.787	M18	6.9	
01910000542165	-165	1	42	3.465	2.750	6.496	4.724	—	0.787	M18	7.6	

1. Use 2 pcs. of M4 x 5 (S) hex. screw to close air holes on the holder when internal coolant is used.

2. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of milling chucks on order.

3. Tolerance of cutting tool shank must be h7.

Ordering Example

CAT40 - CT 16 S - 90

Shank size

I.D. (d)


Projection
length (L)

Spanner

P. 069



Accessories

Stopper Bolt 
BL (P.068)

Straight Collet 
MC (P.066) | MCA (P.067)

Morse Taper Adapter 
MA (P.068) | MAB (P.068)

Jacobs Adapter 
JA (P.069) | JAB (P.069)

Min. chucking length

Without MC collet

I.D. of Milling Chuck	Min. chucking length
16, 20	40
25, 32, 42	50

With MC collet

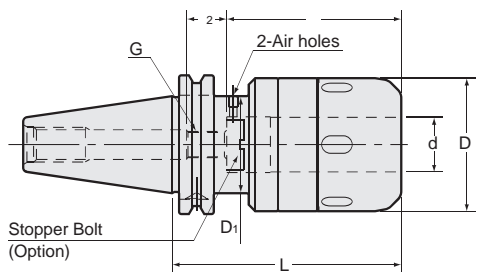
Collet I.D.	Min. chucking length	
	MC	MC-C, MC-OH
6, 8	30	30
10, 12	40	40
16, 20	45	45
25	50	50
32	50	60

CT·S·E

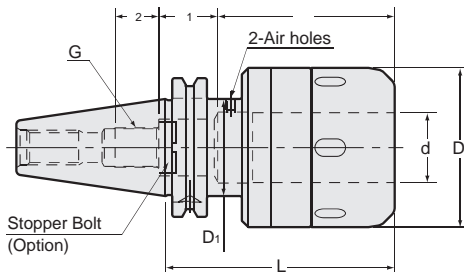
Super Tite-Lock Milling Chuck (High-Balanced Type)

● Slim design milling chuck. Specially designed slits enables heavy endmilling. (High balanced type)

Type 1



Type 2



Caution

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Inch Sizes

Unit : Inch

Code	Model	Type	d	D	D1	L	I	I1	I2	G P=1.0
1910 11424090	CAT40 -CT0750S -90E	1	0.750	2.047	1.750	3.543	3.150	—	0.591	M12
1910 11424105	-105E	1	0.750	2.047	1.750	4.134	3.150	—	0.591	M12
1910 11424120	-120E	1	0.750	2.047	1.750	4.724	3.150	—	0.591	M12
1910 11432105	CAT40 -CT1000S -105E	1	1.000	2.402	1.750	4.134	3.150	—	0.591	M12
1910 11432120	-120E	1	1.000	2.402	1.750	4.724	3.150	—	0.591	M12
1910 11432135	-135E	1	1.000	2.402	1.750	5.315	3.150	—	0.591	M12
1910 11440105	CAT40 -CT1250S -105E	2	1.250	2.874	1.750	4.134	3.346	0.906	0.787	M18
1910 11440120	-120E	2	1.250	2.874	1.750	4.724	3.346	0.906	0.787	M18
1910 11440135	-135E	2	1.250	2.874	1.750	5.315	4.724	—	0.787	M18
1910 11524090	CAT50 -CT0750S -90E	1	0.750	2.047	2.750	3.543	3.150	—	0.591	M12
1910 11524105	-105E	1	0.750	2.047	2.750	4.134	3.150	—	0.591	M12
1910 11524135	-135E	1	0.750	2.047	2.750	5.315	3.150	—	0.591	M12
1910 11532105	CAT50 -CT1000S -105E	1	1.000	2.402	2.750	4.134	3.150	—	0.591	M12
1910 11532135	-135E	1	1.000	2.402	2.750	5.315	3.150	—	0.591	M12
1910 11532165	-165E	1	1.000	2.402	2.750	6.496	3.150	—	0.591	M12
1910 11540095	CAT50 -CT1250S -95E	1	1.250	2.874	2.750	3.740	4.724	—	0.787	M18
1910 11540105	-105E	1	1.250	2.874	2.750	4.134	4.724	—	0.787	M18
1910 11540120	-120E	1	1.250	2.874	2.750	4.724	4.724	—	0.787	M18
1910 11540135	-135E	1	1.250	2.874	2.750	5.315	4.724	—	0.787	M18
1910 11540150	-150E	1	1.250	2.874	2.750	5.906	4.724	—	0.787	M18
1910 11540165	-165E	1	1.250	2.874	2.750	6.496	4.724	—	0.787	M18
1910 11564105	CAT50 -CT2000S -105E	1	2.000	4.134	2.750	4.134	3.937	—	0.787	M18
1910 11564120	-120E	1	2.000	4.134	2.750	4.724	3.937	—	0.787	M18
1910 11564135	-135E	1	2.000	4.134	2.750	5.315	3.937	—	0.787	M18
1910 11564150	-150E	1	2.000	4.134	2.750	5.906	3.937	—	0.787	M18
1910 11564165	-165E	1	2.000	4.134	2.750	6.496	3.937	—	0.787	M18

1. Use 2pcs. of M4 x 5 (S) hex. screw to close air holes on the holder when internal coolant is used.
2. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of milling chucks on order.
3. Tolerance of cutting tool shank must be h7.

Spanner

P. 069



Ordering Example

CAT40 - CT 0750 S - 90 E

Shank size

I.D. (d)

Projection length (L)

Accessories

Stopper Bolt BL (P.068)	Straight Collet MC (P.066) MCA (P.067)	Morse Taper Adapter MA (P.068) MAB (P.068)	Jacobs Adapter JA (P.069) JAB (P.069)
----------------------------	---------------------------------------------	-------------------------------------------------	--------------------------------------------

Min. chucking length

Direct Chucking (without MC Collet)

Model	Min. chucking length
CT0750S	40mm
CT1000S, CT1250S CT2000S	50mm

With MC Collet

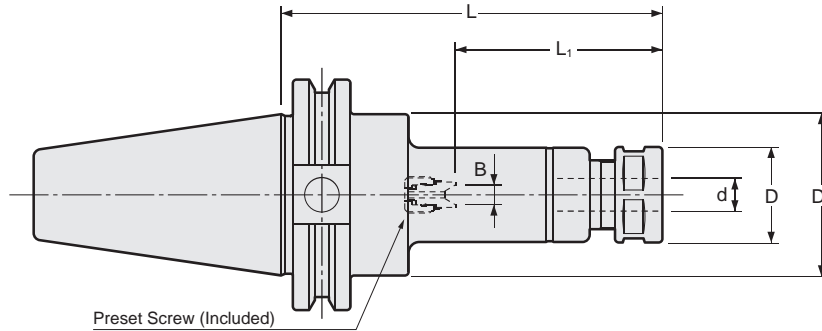
Collet I.D.	Min. chucking length	
	MC	MC-C, MC-OH
1/4, 5/16	30mm	30mm
3/8, 1/2	40mm	40mm
5/8, 3/4, 7/8	45mm	45mm
1	50mm	50mm
1-1/4	50mm	60mm
1-1/2	50mm	60mm

MEMO

HDC·A

High-Precision Collet Holder

- Suitable for drilling, reaming and finish endmilling.



Unit : Inch

Code	Model	d	L	L1	B	D	D1	kg	Preset Screw	Nut	Collet	Spanner
1990 10407075	CAT40 -HDC07A -75	0.020-0.276	2.953	0.866-1.654	0.0-0.157	0.906	1.750					
1990 10407090	-90	0.020-0.276	3.543	0.866-1.654	0.0-0.157	0.906	1.750		HDS-07	HDP-07A	FDC-07	S-0
1990 10407105	-105	0.020-0.276	4.134	0.866-1.654	0.0-0.157	0.906	1.750					
1990 10409090	CAT40 -HDC09A -90	0.098-0.354	3.543	1.063-2.126	0.0-0.157	1.024	1.750					
1990 10409105	-105	0.098-0.354	4.134	1.063-2.126	0.0-0.157	1.024	1.750		HDS-09	HDP-09	FDC-09	S-1L
1990 10409120	-120	0.098-0.354	4.724	1.063-2.126	0.0-0.157	1.024	1.750					
1990 10409135	-135	0.098-0.354	5.315	1.063-2.126	0.0-0.157	1.024	1.750					
1990 10409165	-165	0.098-0.354	6.496	1.063-2.126	0.0-0.157	1.024	1.750					
1990 10412090	CAT40 -HDC12A -90	0.098-0.472	3.543	1.339-2.598	0.0-0.236	1.260	1.750					
1990 10412105	-105	0.098-0.472	4.134	1.339-2.598	0.0-0.236	1.260	1.750		HDS-12	HDP-12	FDC-12	S-3L
1990 10412120	-120	0.098-0.472	4.724	1.339-2.598	0.0-0.236	1.260	1.750					
1990 10412135	-135	0.098-0.472	5.315	1.339-2.598	0.0-0.236	1.260	1.750					
1990 10412165	-165	0.098-0.472	6.496	1.339-2.598	0.0-0.236	1.260	1.750					
1990 10412195	-195	0.098-0.472	7.677	1.339-2.598	0.0-0.236	1.260	1.750					
1990 10416090	CAT40 -HDC16A -90	0.138-0.630	3.543	1.575-3.071	0.0-0.315	1.417	1.750					
1990 10416105	-105	0.138-0.630	4.134	1.575-3.071	0.0-0.315	1.417	1.750		HDS-16	HDP-16	FDC-16	S-4L
1990 10416120	-120	0.138-0.630	4.724	1.575-3.071	0.0-0.315	1.417	1.750					
1990 10416135	-135	0.138-0.630	5.315	1.575-3.071	0.0-0.315	1.417	1.750					
1990 10416165	-165	0.138-0.630	6.496	1.575-3.071	0.0-0.315	1.417	1.750					
1990 10416195	-195	0.138-0.630	7.677	1.575-3.071	0.0-0.315	1.417	1.750					
1990 10422105	CAT40 -HDC22A -105	0.138-0.866	4.134	1.929-3.898	0.0-0.394	1.811	1.750					
1990 10422120	-120	0.138-0.866	4.724	1.929-3.898	0.0-0.394	1.811	1.750		HDS-22	HDP-22	FDC-22	S-5L
1990 10422135	-135	0.138-0.866	5.315	1.929-3.898	0.0-0.394	1.811	1.750					
1990 10422165	-165	0.138-0.866	6.496	1.929-3.898	0.0-0.394	1.811	1.750					
1990 10422195	-195	0.138-0.866	7.677	1.929-3.898	0.0-0.394	1.811	1.750					
1990 10507090	CAT50 -HDC07A -90	0.020-0.276	3.543	0.866-1.654	0.0-0.157	0.906	2.750					
1990 10507105	-105	0.020-0.276	4.134	0.866-1.654	0.0-0.157	0.906	2.750		HDS-07	HDP-07A	FDC-07	S-0
1990 10507120	-120	0.020-0.276	4.724	0.866-1.654	0.0-0.157	0.906	2.750	3.2				
1990 10507135	-135	0.020-0.276	5.315	0.866-1.654	0.0-0.157	0.906	2.750	3.2				
1990 10507165	-165	0.020-0.276	6.496	0.866-1.654	0.0-0.157	0.906	2.750					
1990 10507195	-195	0.020-0.276	7.677	0.866-1.654	0.0-0.157	0.906	2.750					
1990 10509090	CAT50 -HDC09A -90	0.098-0.354	3.543	1.063-2.126	0.0-0.157	1.024	2.750					
1990 10509105	-105	0.098-0.354	4.134	1.063-2.126	0.0-0.157	1.024	2.750	3.2	HDS-09	HDP-09	FDC-09	S-1L
1990 10509120	-120	0.098-0.354	4.724	1.063-2.126	0.0-0.157	1.024	2.750	3.2				
1990 10509135	-135	0.098-0.354	5.315	1.063-2.126	0.0-0.157	1.024	2.750	3.3				
1990 10509165	-165	0.098-0.354	6.496	1.063-2.126	0.0-0.157	1.024	2.750					
1990 10509195	-195	0.098-0.354	7.677	1.063-2.126	0.0-0.157	1.024	2.750					
1990 10509225	-225	0.098-0.354	8.858	1.063-2.126	0.0-0.157	1.024	2.750					
1990 10509255	-255	0.098-0.354	10.039	1.063-2.126	0.0-0.157	1.024	2.750					

Code	Model	d	L	L1	B	D	D1	kg	Preset Screw	Nut	Collet	Spanner
1990 10512090	CAT50 -HDC12A -90	0.098-0.472	3.543	1.339-2.598	0.0-0.236	1.260	2.750	3.3	HDS-12	HDP-12	FDC-12	S-3L
1990 10512105	-105	0.098-0.472	4.134	1.339-2.598	0.0-0.236	1.260	2.750	3.3				
1990 10512120	-120	0.098-0.472	4.724	1.339-2.598	0.0-0.236	1.260	2.750	3.4				
1990 10512135	-135	0.098-0.472	5.315	1.339-2.598	0.0-0.236	1.260	2.750	3.4				
1990 10512165	-165	0.098-0.472	6.496	1.339-2.598	0.0-0.236	1.260	2.750					
1990 10512195	-195	0.098-0.472	7.677	1.339-2.598	0.0-0.236	1.260	2.750	3.7				
1990 10512225	-225	0.098-0.472	8.858	1.339-2.598	0.0-0.236	1.260	2.750					
1990 10512255	-255	0.098-0.472	10.039	1.339-2.598	0.0-0.236	1.260	2.750					
1990 10516090	CAT50 -HDC16A -90	0.138-0.630	3.543	1.575-3.071	0.0-0.315	1.417	2.750	3.3	HDS-16	HDP-16	FDC-16	S-4L
1990 10516105	-105	0.138-0.630	4.134	1.575-3.071	0.0-0.315	1.417	2.750	3.4				
1990 10516120	-120	0.138-0.630	4.724	1.575-3.071	0.0-0.315	1.417	2.750	3.5				
1990 10516135	-135	0.138-0.630	5.315	1.575-3.071	0.0-0.315	1.417	2.750	3.5				
1990 10516165	-165	0.138-0.630	6.496	1.575-3.071	0.0-0.315	1.417	2.750	3.7				
1990 10516195	-195	0.138-0.630	7.677	1.575-3.071	0.0-0.315	1.417	2.750	3.9				
1990 10516225	-225	0.138-0.630	8.858	1.575-3.071	0.0-0.315	1.417	2.750	4.1				
1990 10516255	-255	0.138-0.630	10.039	1.575-3.071	0.0-0.315	1.417	2.750	4.3				
1990 10522105	CAT50 -HDC22A -105	0.138-0.866	4.134	1.929-3.898	0.0-0.394	1.811	2.750	3.5	HDS-22	HDP-22	FDC-22	S-5L
1990 10522120	-120	0.138-0.866	4.724	1.929-3.898	0.0-0.394	1.811	2.750	3.7				
1990 10522135	-135	0.138-0.866	5.315	1.929-3.898	0.0-0.394	1.811	2.750	3.8				
1990 10522150	-150	0.138-0.866	5.906	1.929-3.898	0.0-0.394	1.811	2.750	4				
1990 10522165	-165	0.138-0.866	6.496	1.929-3.898	0.0-0.394	1.811	2.750	4.1				
1990 10522195	-195	0.138-0.866	7.677	1.929-3.898	0.0-0.394	1.811	2.750	4.4				
1990 10522225	-225	0.138-0.866	8.858	1.929-3.898	0.0-0.394	1.811	2.750					
1990 10522255	-255	0.138-0.866	10.039	1.929-3.898	0.0-0.394	1.811	2.750					

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing are sold separately. Standard preset screw is included.
2. Refer to P.092 for minimum tool insertion length in case of using our coolant collets (OH,C or MS).
3. L1 indicates dimension when using with a preset screw.
4. See P.499 for standard Tightening Torque.
5. Standard preset screw is included.

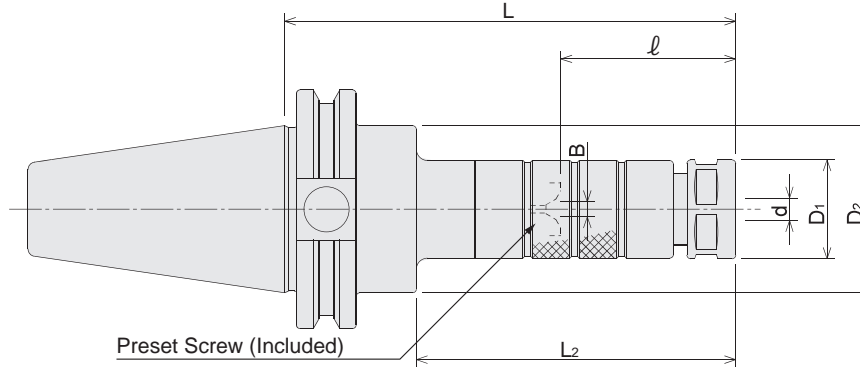
<p>Collet</p> <p>P.086 - 089</p> 	<p>Spanner</p> <p>P.095</p> 	<p>Preset screw</p> <p>P.094</p> 
-----------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Ordering Example

CAT40 - HDC 09 A - 105
 Shank size Max. collet I.D. Projection length (L)

Drill Holder With Easy Tool Length Adjustment

- Projection length of the cutting tool can be adjusted by simply turning circumference of the holder.



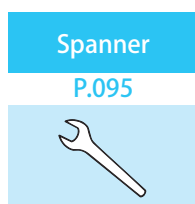
Unit : Inch

Code	Model	d (mm)	L	L ₂	ℓ	B (mm)	D ₁	D ₂	kg	Nut	Collet	Spanner
—	CAT40 -SDM07 -90 (*1)	0.5-7.0	3.543	2.165	1.142-1.535	0-4	0.906	1.750		HDP-07A	FDC-07	S-0
1870 00407105	-105	0.5-7.0	4.134	2.756	1.142-2.126	0-4	0.906	1.750	1.1	HDP-07A		
1870 00407120	-120	0.5-7.0	4.724	3.346	1.142-2.126	0-4	0.906	1.750	1.2	HDP-07A		
1870 00407135	-135	0.5-7.0	5.315	3.937	1.142-2.126	0-4	0.906	1.750	11.9	HDP-07A		
—	-150 (*1)	0.5-7.0	5.906	4.528	1.142-2.126	0-4	0.906	1.750		HDP-07A		
—	CAT40 -SDM09 -90 (*1)	2.5-9.0	3.543	2.165	1.102-1.496	0-4	1.024	1.750		HDP-09	FDC-09	S-1L
1870 00409105	-105	2.5-9.0	4.134	2.756	1.102-2.087	0-4	1.024	1.750	1.2	HDP-09		
1870 00409120	-120	2.5-9.0	4.724	3.346	1.102-2.087	0-4	1.024	1.750	1.2	HDP-09		
1870 00409135	-135	2.5-9.0	5.315	3.937	1.102-2.087	0-4	1.024	1.750	1.3	HDP-09		
—	-150 (*1)	2.5-9.0	5.906	4.528	1.102-2.087	0-4	1.024	1.750		HDP-09		
—	-180 (*1)	2.5-9.0	7.087	5.709	1.102-2.087	0-4	1.024	1.750		HDP-09		
1870 00412105	CAT40 -SDM12 -105	2.5-12.0	4.134	2.756	1.339-2.323	0-5	1.260	1.750	1.3	HDP-12	FDC-12	S-3L
1870 00412120	-120	2.5-12.0	4.724	3.346	1.339-2.323	0-5	1.260	1.750	1.3	HDP-12		
1870 00412135	-135	2.5-12.0	5.315	3.937	1.339-2.323	0-5	1.260	1.750	1.4	HDP-12		
—	-150 (*1)	2.5-12.0	5.906	4.528	1.339-2.323	0-5	1.260	1.750		HDP-12		
—	-180 (*1)	2.5-12.0	7.087	5.709	1.339-2.323	0-5	1.260	1.750		HDP-12		
1870 00416105	CAT40 -SDM16 -105	3.5-16.0	4.134	2.756	1.575-1.969	0-6	1.417	1.750	1.3	HDP-16	FDC-16	S-4L
1870 00416120	-120	3.5-16.0	4.724	3.346	1.575-2.559	0-6	1.417	1.750	1.4	HDP-16		
1870 00416135	-135	3.5-16.0	5.315	3.937	1.575-2.559	0-6	1.417	1.750	1.5	HDP-16		
—	-150 (*1)	3.5-16.0	5.906	4.528	1.575-2.559	0-6	1.417	1.750		HDP-16		
—	-180 (*1)	3.5-16.0	7.087	5.709	1.575-2.559	0-6	1.417	1.750		HDP-16		
1870 00422120	CAT40 -SDM22 -120	3.5-22.0	4.724	3.346	1.890-2.283	0-8	1.811	1.750	1.6	HDP-22	FDC-22	S-5L
1870 00422135	-135	3.5-22.0	5.315	3.937	1.890-2.874	0-8	1.811	1.750	1.7	HDP-22		
1870 00422150	-150	3.5-22.0	5.906	4.528	1.890-2.874	0-8	1.811	1.750	1.9	HDP-22		
—	-180 (*1)	3.5-22.0	7.087	5.709	1.890-2.874	0-8	1.811	1.750		HDP-22		
—	CAT50 -SDM07 -90 (*1)	0.5-7.0	3.543	2.165	1.142-1.535	0-4	0.906	2.750		HDP-07A		
1870 00507105	-105	0.5-7.0	4.134	2.756	1.142-2.126	0-4	0.906	2.750		HDP-07A	FDC-07	S-0
1870 00507120	-120	0.5-7.0	4.724	3.346	1.142-2.126	0-4	0.906	2.750		HDP-07A		
1870 00507135	-135	0.5-7.0	5.315	3.937	1.142-2.126	0-4	0.906	2.750		HDP-07A		
—	-150 (*1)	0.5-7.0	5.906	4.528	1.142-2.126	0-4	0.906	2.750		HDP-07A		
—	-165 (*1)	0.5-7.0	6.496	5.118	1.142-2.126	0-4	0.906	2.750		HDP-07A		

1. Collet and spanner are sold separately.
2. ℓ is the dimension between the cap end and the preset screw top end.
3. See P.499 for standard Tightening Torque.
4. (*1) : SEMI-STANDARD

Code	Model	d (mm)	L	L2	ℓ	B (mm)	D1	D2	kg	Nut	Collet	Spanner
—	CAT50 -SDM09 -90 (*1)	2.5-9.0	3.543	2.165	1.102-1.496	0-4	1.024	2.750		HDP-09	FDC-09	S-1L
1870 00509105	-105	2.5-9.0	4.134	2.756	1.102-2.087	0-4	1.024	2.750		HDP-09		
1870 00509120	-120	2.5-9.0	4.724	3.346	1.102-2.087	0-4	1.024	2.750		HDP-09		
1870 00509135	-135	2.5-9.0	5.315	3.937	1.102-2.087	0-4	1.024	2.750		HDP-09		
—	-150 (*1)	2.5-9.0	5.906	4.528	1.102-2.087	0-4	1.024	2.750		HDP-09		
—	-180 (*1)	2.5-9.0	7.087	5.709	1.102-2.087	0-4	1.024	2.750		HDP-09		
1870 00512105	CAT50 -SDM12 -105	2.5-12.0	4.134	2.756	1.339-1.732	0-5	1.260	2.750		HDP-12	FDC-12	S-3L
1870 00512120	-120	2.5-12.0	4.724	3.346	1.339-2.323	0-5	1.260	2.750		HDP-12		
1870 00512135	-135	2.5-12.0	5.315	3.937	1.339-2.323	0-5	1.260	2.750		HDP-12		
—	-150 (*1)	2.5-12.0	5.906	4.528	1.339-2.323	0-5	1.260	2.750		HDP-12		
—	-180 (*1)	2.5-12.0	7.087	5.709	1.339-2.323	0-5	1.260	2.750		HDP-12		
1870 00516105	CAT50 -SDM16 -105	3.5-16.0	4.134	2.756	1.575-1.969	0-6	1.417	2.750		HDP-16	FDC-16	S-4L
1870 00516120	-120	3.5-16.0	4.724	3.346	1.575-2.559	0-6	1.417	2.750		HDP-16		
1870 00516135	-135	3.5-16.0	5.315	3.937	1.575-2.559	0-6	1.417	2.750		HDP-16		
1870 00516150	-150	3.5-16.0	5.906	4.528	1.575-2.559	0-6	1.417	2.750		HDP-16		
—	-180 (*1)	3.5-16.0	7.087	5.709	1.575-2.559	0-6	1.417	2.750		HDP-16		
1870 00522120	CAT50 -SDM22 -120	3.5-22.0	4.724	3.346	1.890-2.283	0-8	1.811	2.750		HDP-22	FDC-22	S-5L
1870 00522135	-135	3.5-22.0	5.315	3.937	1.890-2.874	0-8	1.811	2.750		HDP-22		
1870 00522150	-150	3.5-22.0	5.906	4.528	1.890-2.874	0-8	1.811	2.750		HDP-22		
1870 00522180	-180	3.5-22.0	7.087	5.709	1.890-2.874	0-8	1.811	2.750		HDP-22		
—	-210 (*1)	3.5-22.0	8.268	6.89	1.890-2.874	0-8	1.811	2.750		HDP-22		

1. Collet and spanner are sold separately.
2. ℓ is the dimension between the cap end and the preset screw top end.
3. See P.499 for standard Tightening Torque.
4. (*1) : SEMI-STANDARD



Ordering Example

CAT40 - SDM 12 - 90
 Shank size Max. collet I.D. Projection length (L)

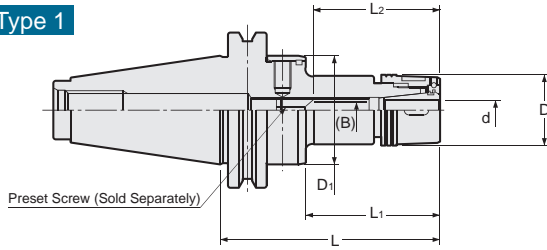
- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Milling Chuck
- Collet Holder
- "R" Zero Holder
- Hydraulic Chuck
- Shrink Fit
- Tapping Chuck
- Arbors
- Function Holder
- Retention Stud
- Tool Shank Dimensions

GDC·A

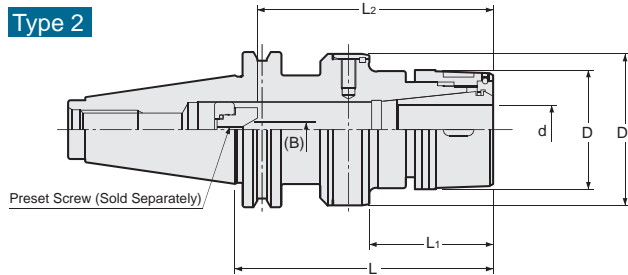
High-Precision Collet Holder (High-Balanced Type)

- Suitable for high speed rotation drilling, reaming, and finish endmilling.

Type 1



Type 2



Unit : Inch

Code	Model	Type	d	L	L1	(B)	L2	D	D1	kg	Preset Screw	Nut	Collet	Spanner
1970 00407090	CAT40 -GDC07A -90	1	0.020 -0.276	3.543	2.165	0.0 -0.157	0.866 -1.772	0.906	1.750	1.1	HDS-07	HDP-07A	FDC-07AA	S-0
1970 00407120	-120	1	0.020 -0.276	4.724	3.346	0.0 -0.157	0.866 -1.772	0.906	1.750					
1970 00409090	CAT40 -GDC09A -90	1	0.098 -0.354	3.543	2.165	0.0 -0.157	1.063 -2.244	1.142	1.750	1.2	HDS-09	GDP-09	FDC-09AA	FK-0025
1970 00409120	-120	1	0.098 -0.354	4.724	3.346	0.0 -0.157	1.063 -2.244	1.142	1.750	1.3				
1970 00412105	CAT40 -GDC12A -105	1	0.098 -0.472	4.134	2.756	0.0 -0.197	1.299 -2.677	1.339	1.750		HDS-12	GDP-12	FDC-12AA	FK-0030
1970 00412135	-135	1	0.098 -0.472	5.315	3.937	0.0 -0.197	1.299 -2.677	1.339	1.750					
1970 00416105	CAT40 -GDC16A -105	1	0.138 -0.630	4.134	2.756	0.0 -0.236	1.496 -3.189	1.496	1.750	1.4	HDS-16	GDP-16	FDC-16AA	FK-0034
1970 00416135	-135	1	0.138 -0.630	5.315	3.937	0.0 -0.236	1.496 -3.189	1.496	1.750					
1970 00422105	CAT40 -GDC22A -105	2	0.138 -0.866	4.134	1.969	0.0 -0.315	1.850 -4.055	1.929	2.441		HDS-22	GDP-22	FDC-22AA	FK-0045
1970 00422135	-135	2	0.138 -0.866	5.315	3.150	0.0 -0.315	1.850 -4.055	1.929	2.441					
1970 00507105	CAT50 -GDC07A -105	1	0.020 -0.276	4.134	2.756	0.0 -0.157	0.866 -1.772	0.906	2.750		HDS-07	HDP-07A	FDC-07AA	S-0
1970 00507135	-135	1	0.020 -0.276	5.315	3.937	0.0 -0.157	0.866 -1.772	0.906	2.750					
1970 00509105	CAT50 -GDC09A -105	1	0.098 -0.354	4.134	2.756	0.0 -0.157	1.063 -2.244	1.142	2.750		HDS-09	GDP-09	FDC-09AA	FK-0025
1970 00509135	-135	1	0.098 -0.354	5.315	3.937	0.0 -0.157	1.063 -2.244	1.142	2.750					
1970 00512105	CAT50 -GDC12A -105	1	0.098 -0.472	4.134	2.756	0.0 -0.197	1.299 -2.677	1.339	2.750		HDS-12	GDP-12	FDC-12AA	FK-0030
1970 00512135	-135	1	0.098 -0.472	5.315	3.937	0.0 -0.197	1.299 -2.677	1.339	2.750					
1970 00516105	CAT50 -GDC16A -105	1	0.138 -0.630	4.134	2.756	0.0 -0.236	1.496 -3.189	1.496	2.750		HDS-16	GDP-16	FDC-16AA	FK-0034
1970 00516135	-135	1	0.138 -0.630	5.315	3.937	0.0 -0.236	1.496 -3.189	1.496	2.750	3.5				
1970 00522105	CAT50 -GDC22A -105	1	0.138 -0.866	4.134	2.756	0.0 -0.315	1.850 -4.055	1.929	2.750		HDS-22	GDP-22	FDC-22AA	FK-0045
1970 00522135	-135	1	0.138 -0.866	5.315	3.937	0.0 -0.315	1.850 -4.055	1.929	2.750					

1. Collet, preset screw and spanner are sold separately.
2. Always use "AA" class collet.
3. Refer to P.92 for minimum tool insertion length in case of using our coolant collets (OH,C or MS).
4. L2 indicates dimension when using with a preset screw.
5. See P.499 for standard Tightening Torque.

Collet

P.086 - 089



Spanner

P.095



Preset screw

P.094



Ordering Example

CAT40 - GDC 09 A - 90

Shank size

Max. collet I.D.

Projection length (L)

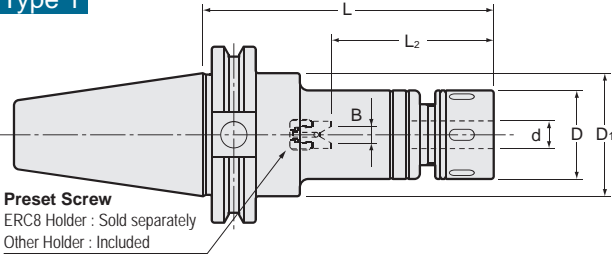
MEMO

ERC

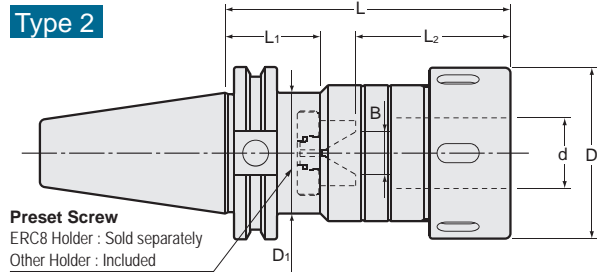
Collet Holder For Small Diameters

- For drilling in tight space.

Type 1



Type 2




Unit : Inch

Code	Model	Type	d	L	L1	B	L2	D	D1	kg	Preset Screw	Nut	Collet	Spanner	
1980 00408075	CAT40-ERC 8	-75	1	0.020-0.197	2.953	—	— (0-0.094)	1.299 (0.748-1.220)	0.472	1.750	1.0	—	ERP-8	ER8	S-8E
1980 00408105		-105	1	0.020-0.197	4.134	—	— (0-0.094)	1.299 (0.748-1.220)	0.472	1.750	1.1	—	ERP-8	ER8	S-8E
1980 00410075	CAT40-ERC11S	-75	1	0.020-0.276	2.953	—	0.0-0.157	0.866-1.654	0.630	1.750	1.1	HDS07A-ES11	ERP-11S	ER11	S-11E
1980 00410105		-105	1	0.020-0.276	4.134	—	0.0-0.157	0.866-1.654	0.630	1.750	1.1		HDP-07A		S-0
1980 00411075	CAT40-ERC11	-75	1	0.020-0.276	2.953	—	0.0-0.157	0.866-1.654	0.906	1.750	1.1	ES16	ERP-16	ER16	FK-0030
1980 00411090		-90	1	0.020-0.276	3.543	—	0.0-0.157	0.866-1.654	0.906	1.750	1.2				
1980 00411105		-105	1	0.020-0.276	4.134	—	0.0-0.157	0.866-1.654	0.906	1.750	1.2	ES16	ERP-16	ER16	FK-0030
1980 00416090	CAT40-ERC16	-90	1	0.020-0.394	3.543	—	0.0-0.197	1.299-2.126	1.260	1.750	1.3				
1980 00416105		-105	1	0.020-0.394	4.134	—	0.0-0.197	1.299-2.126	1.260	1.750	1.3	ES16	ERP-16	ER16	FK-0030
1980 00416120		-120	1	0.020-0.394	4.724	—	0.0-0.197	1.299-2.126	1.260	1.750	1.4				
1980 00416135		-135	1	0.020-0.394	5.315	—	0.0-0.197	1.299-2.126	1.260	1.750	1.5	ES16	ERP-16	ER16	FK-0030
1980 00416165		-165	1	0.020-0.394	6.496	—	0.0-0.197	1.299-2.126	1.260	1.750	1.5				
1980 00420090	CAT40-ERC20	-90	1	0.020-0.512	3.543	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3	HDS12A-ES20	ERP-20	ER20	FK-0034
1980 00420105		-105	1	0.020-0.512	4.134	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3				
1980 00420120		-120	1	0.020-0.512	4.724	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3	HDS12A-ES20	ERP-20	ER20	FK-0034
1980 00420135		-135	1	0.020-0.512	5.315	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3				
1980 00420165		-165	1	0.020-0.512	6.496	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3	HDS12A-ES20	ERP-20	ER20	FK-0034
1980 00420195		-195	1	0.020-0.512	7.677	—	0.0-0.236	1.496-2.638	1.378	1.750	1.3				
1980 00425090	CAT40-ERC25	-90	1	0.020-0.630	3.543	—	0.0-0.315	1.693-3.150	1.654	1.750	1.4	HDS16A-ES25	ERP-25	ER25	HS-1-16
1980 00425105		-105	1	0.020-0.630	4.134	—	0.0-0.315	1.693-3.150	1.654	1.750	1.5				
1980 00425120		-120	1	0.020-0.630	4.724	—	0.0-0.315	1.693-3.150	1.654	1.750	1.7	HDS16A-ES25	ERP-25	ER25	HS-1-16
1980 00425135		-135	1	0.020-0.630	5.315	—	0.0-0.315	1.693-3.150	1.654	1.750	1.5				
1980 00425165		-165	1	0.020-0.630	6.496	—	0.0-0.315	1.693-3.150	1.654	1.750	1.5	HDS16A-ES25	ERP-25	ER25	HS-1-16
1980 00425195		-195	1	0.020-0.630	7.677	—	0.0-0.315	1.693-3.150	1.654	1.750	1.5				
1980 00432105	CAT40-ERC32	-105	1	0.098-0.787	4.134	—	0.0-0.394	1.969-3.976	1.969	1.750	1.5	HDS22A-ES32	ERP-32	ER32	HS-2-20
1980 00432120		-120	1	0.098-0.787	4.724	—	0.0-0.394	1.969-3.976	1.969	1.750	1.6				
1980 00432135		-135	1	0.098-0.787	5.315	—	0.0-0.394	1.969-3.976	1.969	1.750	1.8	HDS22A-ES32	ERP-32	ER32	HS-2-20
1980 00432165		-165	1	0.098-0.787	6.496	—	0.0-0.394	1.969-3.976	1.969	1.750	2.1				
1980 00432195		-195	1	0.098-0.787	7.677	—	0.0-0.394	1.969-3.976	1.969	1.750	2.4	ES40	ERP-40	ER40	HS-2.5-25
1980 00440075	CAT40-ERC40	-75	2	0.118-1.024	2.953	1.380	—	3.386	2.480	1.750	1.2				
1980 00440105		-105	2	0.118-1.024	4.134	1.380	0.0 0.138-0.551	2.362-3.504	2.480	1.750	1.2	ES40	ERP-40	ER40	HS-2.5-25
1980 00440150		-150	2	0.118-1.024	5.906	1.380	0.0 0.138-0.551	2.362-3.898	2.480	1.750	1.2				
1980 00440165		-165	2	0.118-1.024	6.496	1.380	0.0 0.138-0.551	2.362-3.898	2.480	1.750	1.2	HDS07A-ES11	HDP-07A	ER11	S-0
1980 00511090	CAT50-ERC11	-90	1	0.020-0.276	3.543	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2				
1980 00511105		-105	1	0.020-0.276	4.134	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2	HDS07A-ES11	HDP-07A	ER11	S-0
1980 00511120		-120	1	0.020-0.276	4.724	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2				
1980 00511135		-135	1	0.020-0.276	5.315	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2	HDS07A-ES11	HDP-07A	ER11	S-0
1980 00511165		-165	1	0.020-0.276	6.496	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2				
1980 00511195		-195	1	0.020-0.276	7.677	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2	HDS07A-ES11	HDP-07A	ER11	S-0
1980 00511195		-195	1	0.020-0.276	7.677	—	0.0-0.157	0.866-1.654	0.906	2.750	3.2				

Code	Model	Type	d	L	L1	B	L2	D	D1	kg	Preset Screw	Nut	Collet	Spanner					
1980 00516090	CAT50-ERC16	-90	1	0.020-0.394	3.543	—	0.0-0.197	1.299-2.126	1.260	2.750	3.3	ES16	ERP-16	ER16	FK-0030				
1980 00516105		-105	1	0.020-0.394	4.134	—	0.0-0.197	1.299-2.126	1.260	2.750	3.3								
1980 00516120		-120	1	0.020-0.394	4.724	—	0.0-0.197	1.299-2.126	1.260	2.750									
1980 00516135		-135	1	0.020-0.394	5.315	—	0.0-0.197	1.299-2.126	1.260	2.750	3.5								
1980 00516165		-165	1	0.020-0.394	6.496	—	0.0-0.197	1.299-2.126	1.260	2.750									
1980 00516195		-195	1	0.020-0.394	7.677	—	0.0-0.197	1.299-2.126	1.260	2.750									
1980 00516225		-225	1	0.020-0.394	8.858	—	0.0-0.197	1.299-2.126	1.260	2.750									
1980 00516255		-255	1	0.020-0.394	10.039	—	0.0-0.197	1.299-2.126	1.260	2.750									
1980 00520090	CAT50-ERC20	-90	1	0.020-0.512	3.543	—	0.0-0.236	1.496-2.638	1.378	2.750						HDS12A-ES20	ERP-20	ER20	FK-0034
1980 00520105		-105	1	0.020-0.512	4.134	—	0.0-0.236	1.496-2.638	1.378	2.750	3.4								
1980 00520120		-120	1	0.020-0.512	4.724	—	0.0-0.236	1.496-2.638	1.378	2.750	3.4								
1980 00520135		-135	1	0.020-0.512	5.315	—	0.0-0.236	1.496-2.638	1.378	2.750	3.5								
1980 00520165		-165	1	0.020-0.512	6.496	—	0.0-0.236	1.496-2.638	1.378	2.750	3.7								
1980 00520195		-195	1	0.020-0.512	7.677	—	0.0-0.236	1.496-2.638	1.378	2.750									
1980 00520225		-225	1	0.020-0.512	8.858	—	0.0-0.236	1.496-2.638	1.378	2.750									
1980 00520255		-255	1	0.020-0.512	10.039	—	0.0-0.236	1.496-2.638	1.378	2.750									
1980 00525090	CAT50-ERC25	-90	1	0.020-0.630	3.543	—	0.0-0.315	1.693-3.150	1.654	2.750		HDS16A-ES25	ERP-25	ER25	HS-1-16				
1980 00525105		-105	1	0.020-0.630	4.134	—	0.0-0.315	1.693-3.150	1.654	2.750	3.5								
1980 00525120		-120	1	0.020-0.630	4.724	—	0.0-0.315	1.693-3.150	1.654	2.750	3.7								
1980 00525135		-135	1	0.020-0.630	5.315	—	0.0-0.315	1.693-3.150	1.654	2.750	3.8								
1980 00525165		-165	1	0.020-0.630	6.496	—	0.0-0.315	1.693-3.150	1.654	2.750	4								
1980 00525195		-195	1	0.020-0.630	7.677	—	0.0-0.315	1.693-3.150	1.654	2.750									
1980 00525225		-225	1	0.020-0.630	8.858	—	0.0-0.315	1.693-3.150	1.654	2.750									
1980 00525255		-255	1	0.020-0.630	10.039	—	0.0-0.315	1.693-3.150	1.654	2.750									
1980 00532105	CAT50-ERC32	-105	1	0.098-0.787	4.134	—	0.0-0.394	1.969-3.976	1.969	2.750	3.7					HDS22A-ES32	ERP-32	ER32	HS-2-20
1980 00532120		-120	1	0.098-0.787	4.724	—	0.0-0.394	1.969-3.976	1.969	2.750	3.8								
1980 00532135		-135	1	0.098-0.787	5.315	—	0.0-0.394	1.969-3.976	1.969	2.750	2								
1980 00532150		-150	1	0.098-0.787	5.906	—	0.0-0.394	1.969-3.976	1.969	2.750									
1980 00532165		-165	1	0.098-0.787	6.496	—	0.0-0.394	1.969-3.976	1.969	2.750									
1980 00532195		-195	1	0.098-0.787	7.677	—	0.0-0.394	1.969-3.976	1.969	2.750									
1980 00532225		-225	1	0.098-0.787	8.858	—	0.0-0.394	1.969-3.976	1.969	2.750									
1980 00532255		-255	1	0.098-0.787	10.039	—	0.0-0.394	1.969-3.976	1.969	2.750									
1980 00540075	CAT50-ERC40	-75	1	0.118-1.024	2.953	—	0.0 0.138-0.551	2.362-3.701	2.480	2.750		ES40	ERP-40	ER40	HS-2.5-25				
1980 00540105		-105	1	0.118-1.024	4.134	—	0.0 0.138-0.551	2.362-3.898	2.480	2.750	3.9								
1980 00540165		-165	1	0.118-1.024	6.496	—	0.0 0.138-0.551	2.362-3.898	2.480	2.750	5.1								
1980 00550105	CAT50-ERC50	-105	1	0.394-1.339	4.134	—	0.0 0.236-0.630	2.913-3.937	3.071	2.750		ES50	ERP-50	ER50	HS-4-42				

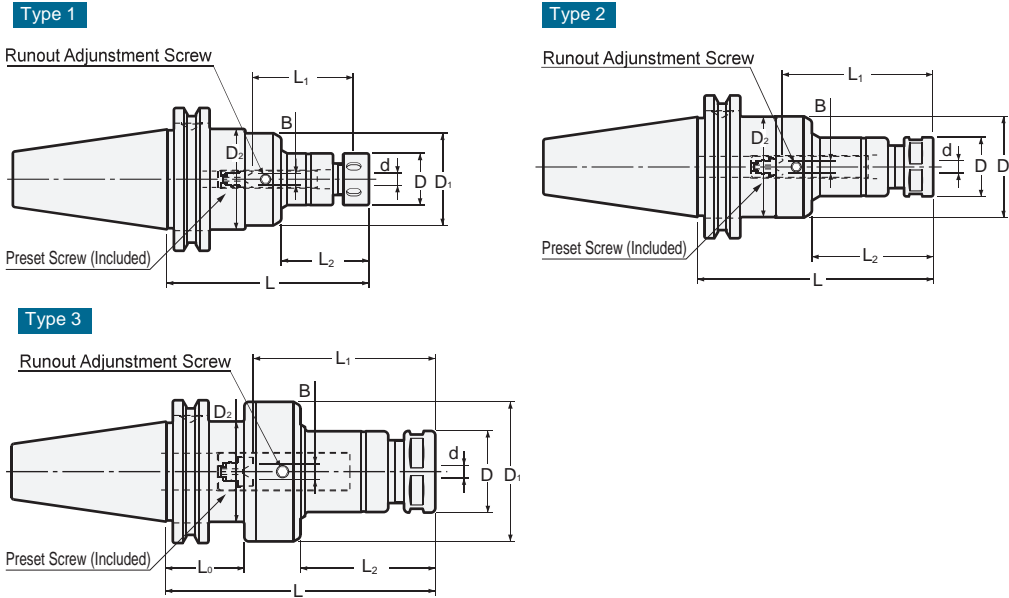
1. Collet and spanner are sold separately.
2. ES8, a preset screw for ERC8, is sold separately. ERC11S includes a standard preset screw HDS-07A-ES11.
3. " B " and " L2 " dimensions in brackets are for using ES8 preset screw.
4. Refer to P.092 for minimum tool insertion length in case of using our coolant collets.
5. See P.499 for standard Tightening Torque.

<p>Collet</p> <p>P. 090-091</p> 	<p>Spanner</p> <p>P. 095</p> 	<p>Preset screw</p> <p>P. 094</p> 	<p>Ordering Example</p> <p>CAT40 - ERC 8 - 105</p> <p>Shank size Max. Projection</p> <p> collet I.D. length (L)</p>
----------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

HDZ

"R"Zero Holder

- Runout accuracy of the cutting edge can be adjusted as closely as to zero.







Unit : Inch

Code	Model	Type	d	L	L1	L2	B	D	D1	L0	D2	kg	Preset Screw	Nut	Spanner	Collet	Hex. Wrench (Size)
1960 00407090	CAT40-HDZ07 -90	1	0.020-0.276	3.543	0.866-1.772	1.535	0.0-0.157	0.906	1.614	—	1.750		HDS-07	HDP-07A	S-0	FDC-07	L-3T (3mm)
1960 00407105	-105	1	0.020-0.276	4.134	0.866-1.772	2.126	0.0-0.157	0.906	1.614	—	1.750						
1960 00409090	CAT40-HDZ09 -90	2	0.098-0.354	3.543	1.063-2.244	1.535	0.0-0.157	1.024	1.772	—	1.750		HDS-09	HDP-09	S-1L	FDC-09	
1960 00409105	-105	2	0.098-0.354	4.134	1.063-2.244	2.126	0.0-0.157	1.024	1.772	—	1.750						
1960 00409120	-120	2	0.098-0.354	4.724	1.063-2.244	2.717	0.0-0.157	1.024	1.772	—	1.750						
1960 00409135	-135	2	0.098-0.354	5.315	1.063-2.244	3.307	0.0-0.157	1.024	1.772	—	1.750						
1960 00409165	-165	2	0.098-0.354	6.496	1.063-2.244	4.488	0.0-0.157	1.024	1.772	—	1.750						
1960 00412105	CAT40-HDZ12 -105	3	0.098-0.472	4.134	1.299-2.677	1.772	0.0-0.197	1.260	2.205	1.378	1.750		HDS-12	HDP-12	S-3L	FDC-12	L-4T (4mm)
1960 00412120	-120	3	0.098-0.472	4.724	1.299-2.677	2.362	0.0-0.197	1.260	2.205	1.378	1.750						
1960 00412135	-135	3	0.098-0.472	5.315	1.299-2.677	2.953	0.0-0.197	1.260	2.205	1.378	1.750						
1960 00412165	-165	3	0.098-0.472	6.496	1.299-2.677	4.134	0.0-0.197	1.260	2.205	1.378	1.750						
1960 00412195	-195	3	0.098-0.472	7.677	1.299-2.677	5.315	0.0-0.197	1.260	2.205	1.378	1.750						
1960 00416105	CAT40-HDZ16 -105	3	0.138-0.630	4.134	1.496-3.189	1.772	0.0-0.236	1.417	2.441	1.378	1.750		HDS-16	HDP-16	S-4L	FDC-16	L-5T (5mm)
1960 00416120	-120	3	0.138-0.630	4.724	1.496-3.189	2.362	0.0-0.236	1.417	2.441	1.378	1.750						
1960 00416135	-135	3	0.138-0.630	5.315	1.496-3.189	2.953	0.0-0.236	1.417	2.441	1.378	1.750						
1960 00416165	-165	3	0.138-0.630	6.496	1.496-3.189	4.134	0.0-0.236	1.417	2.441	1.378	1.750						
1960 00416195	-195	3	0.138-0.630	7.677	1.496-3.189	5.315	0.0-0.236	1.417	2.441	1.378	1.750						
1960 00422105	CAT40-HDZ22 -105	3	0.138-0.866	4.134	1.850-4.055	1.220	0.0-0.315	1.811	2.717	1.378	1.750		HDS-22	HDP-22	S-5L	FDC-22	L-3T (3mm)
1960 00422120	-120	3	0.138-0.866	4.724	1.850-4.055	1.811	0.0-0.315	1.811	2.717	1.378	1.750						
1960 00422135	-135	3	0.138-0.866	5.315	1.850-4.055	2.402	0.0-0.315	1.811	2.717	1.378	1.750						
1960 00422165	-165	3	0.138-0.866	6.496	1.850-4.055	3.583	0.0-0.315	1.811	2.717	1.378	1.750						
1960 00422195	-195	3	0.138-0.866	7.677	1.850-4.055	4.764	0.0-0.315	1.811	2.717	1.378	1.750						
1960 00507090	CAT50-HDZ07 -90	1	0.020-0.276	3.543	0.866-1.772	1.535	0.0-0.157	0.906	1.614	—	2.750		HDS-07	HDP-07A	S-0	FDC-07	L-3T (3mm)
1960 00507105	-105	1	0.020-0.276	4.134	0.866-1.772	2.126	0.0-0.157	0.906	1.614	—	2.750						
1960 00507120	-120	1	0.020-0.276	4.724	0.866-1.772	2.717	0.0-0.157	0.906	1.614	—	2.750	3.3					
1960 00507135	-135	1	0.020-0.276	5.315	0.866-1.772	3.307	0.0-0.157	0.906	1.614	—	2.750						
1960 00507165	-165	1	0.020-0.276	6.496	0.866-1.772	4.291	0.0-0.157	0.906	1.614	—	2.750						
1960 00507195	-195	1	0.020-0.276	7.677	0.866-1.772	5.669	0.0-0.157	0.906	1.614	—	2.750						
1960 00509090	CAT50-HDZ09 -90	1	0.098-0.354	3.543	1.063-2.244	1.378	0.0-0.157	1.024	1.772	—	2.750		HDS-09	HDP-09	S-1L	FDC-09	L-3T (3mm)
1960 00509105	-105	1	0.098-0.354	4.134	1.063-2.244	1.969	0.0-0.157	1.024	1.772	—	2.750	3.3					
1960 00509120	-120	1	0.098-0.354	4.724	1.063-2.244	2.559	0.0-0.157	1.024	1.772	—	2.750						
1960 00509135	-135	1	0.098-0.354	5.315	1.063-2.244	3.150	0.0-0.157	1.024	1.772	—	2.750	3.4					
1960 00509165	-165	1	0.098-0.354	6.496	1.063-2.244	4.331	0.0-0.157	1.024	1.772	—	2.750						
1960 00509195	-195	1	0.098-0.354	7.677	1.063-2.244	5.512	0.0-0.157	1.024	1.772	—	2.750						
1960 00509225	-225	1	0.098-0.354	8.858	1.063-2.244	6.693	0.0-0.157	1.024	1.772	—	2.750						
1960 00509255	-255	1	0.098-0.354	10.039	1.063-2.244	7.874	0.0-0.157	1.024	1.772	—	2.750						

Code	Model	Type	d	L	L1	L2	B	D	D1	L0	D2	kg	Preset Screw	Nut	Spanner	Collet	Hex. Wrench (Size)
1960 00512090	CAT50-HDZ12 - 90	1	0.098-0.472	3.543	1.299-2.677	1.378	0.0-0.197	1.260	2.205	—	2.750	3.5	HDS-12	HDP-12	S-3L	FDC-12	L-4T (4mm)
1960 00512105	-105	1	0.098-0.472	4.134	1.299-2.677	1.969	0.0-0.197	1.260	2.205	—	2.750						
1960 00512120	-120	1	0.098-0.472	4.724	1.299-2.677	2.559	0.0-0.197	1.260	2.205	—	2.750						
1960 00512135	-135	1	0.098-0.472	5.315	1.299-2.677	3.150	0.0-0.197	1.260	2.205	—	2.750						
1960 00512165	-165	1	0.098-0.472	6.496	1.299-2.677	4.331	0.0-0.197	1.260	2.205	—	2.750						
1960 00512195	-195	1	0.098-0.472	7.677	1.299-2.677	5.512	0.0-0.197	1.260	2.205	—	2.750						
1960 00512255	-255	1	0.098-0.472	10.039	1.299-2.677	7.874	0.0-0.197	1.260	2.205	—	2.750						
1960 00516090	CAT50-HDZ16 - 90	1	0.138-0.630	3.543	1.496-3.189	1.378	0.0-0.236	1.417	2.441	—	2.750	3.6	HDS-16	HDP-16	S-4L	FDC-16	L-4T (4mm)
1960 00516105	-105	1	0.138-0.630	4.134	1.496-3.189	1.969	0.0-0.236	1.417	2.441	—	2.750						
1960 00516120	-120	1	0.138-0.630	4.724	1.496-3.189	2.559	0.0-0.236	1.417	2.441	—	2.750						
1960 00516135	-135	1	0.138-0.630	5.315	1.496-3.189	3.150	0.0-0.236	1.417	2.441	—	2.750						
1960 00516165	-165	1	0.138-0.630	6.496	1.496-3.189	4.331	0.0-0.236	1.417	2.441	—	2.750						
1960 00516195	-195	1	0.138-0.630	7.677	1.496-3.189	5.512	0.0-0.236	1.417	2.441	—	2.750						
1960 00516255	-255	1	0.138-0.630	10.039	1.496-3.189	7.874	0.0-0.236	1.417	2.441	—	2.750						
1960 00522105	CAT50-HDZ22 -105	3	0.138-0.866	4.134	1.850-4.055	2.205	0.0-0.315	1.811	2.992	1.378	2.750	4.1	HDS-22	HDP-22	S-5L	FDC-22	L-5T (5mm)
1960 00522120	-120	3	0.138-0.866	4.724	1.850-4.055	2.795	0.0-0.315	1.811	2.992	1.378	2.750						
1960 00522135	-135	3	0.138-0.866	5.315	1.850-4.055	3.386	0.0-0.315	1.811	2.992	1.378	2.750						
1960 00522165	-165	3	0.138-0.866	6.496	1.850-4.055	3.976	0.0-0.315	1.811	2.992	1.378	2.750						
1960 00522195	-195	3	0.138-0.866	7.677	1.850-4.055	5.157	0.0-0.315	1.811	2.992	1.378	2.750						
1960 00522225	-225	3	0.138-0.866	8.858	1.850-4.055	6.339	0.0-0.315	1.811	2.992	1.378	2.750						
1960 00522255	-255	3	0.138-0.866	10.039	1.850-4.055	7.520	0.0-0.315	1.811	2.992	1.378	2.750						

- 1.Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing, and hex. wrench are sold separately. Standard preset screw is included.
- 2.Refer to P.092 for minimum tool insertion length in case of using our coolant collets (OH,C or MS).
- 3.L1 indicates dimension when using with a preset screw.
- 4.See P.499 for standard Tightening Torque.
- 5.Standard preset screw is included.

<p>Collet</p> <p>P. 086 - 089</p> 	<p>Spanner</p> <p>P. 095</p> 	<p>Preset screw</p> <p>P. 094</p> 	<p>Hex. wrench</p> <p>P. 095</p> 
------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

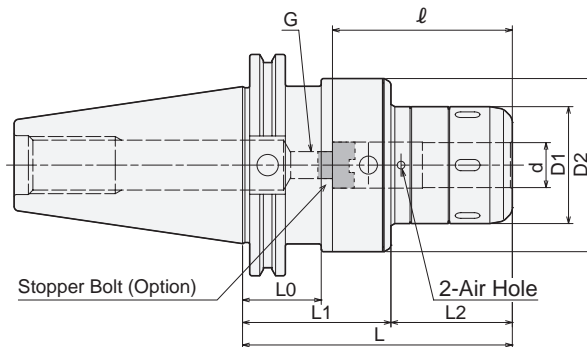
Ordering Example

CAT40 - HDZ 12 - 150
 Shank size Max. collet I.D. Projection length (L)

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Milling Chuck
- Collet Holder
- R- Zero Holder
- Hydraulic Chuck
- Shrink fit
- Tapping Chuck
- Arbors
- Function Holder
- Retention Stud
- Tool Shank Dimensions

"R"Zero Holder for Large Diameter

- Runout of the cutting edge can be adjusted as close as to zero. Suitable for large diameter reaming.

**Caution**

Please rotate the clamping ring counterclockwise more than 360 degrees after a cutting tool is removed.

Metric Sizes

Unit : Metric

Code	Model	Type	d	L	L1	L2	D1	D2	L0	ℓ	G P=1.0	Spanner	Hex. Wrench
1850 11432135	CAT40 -CTZ1000A -135	1	25.4	135	64	71	61	74	35	80	12	HS-2.5-25	L-6L (Included)
1850 11432150	-150	1	25.4	150	64	86	61	74	35	80	12		
1850 11440135	-CTZ1250A -135	1	31.75	135	64	71	68	80	35	120	18	HS-3-32	
1850 11440150	-150	1	31.75	150	64	86	68	80	35	120	18		
1850 11532135	CAT50 -CTZ1000A -135	1	25.4	135	64	71	61	74	35	80	12	HS-2.5-25	
1850 11532150	-150	1	25.4	150	64	86	61	74	35	80	12		
1850 11540135	-CTZ1250A -135	1	31.75	135	64	71	68	80	35	120	18	HS-3-32	
1850 11540150	-150	1	31.75	150	64	86	68	80	35	120	18		

1. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of holders on order.
2. A L-6L wrench is included.
3. All accessories including straight collets can be used with above holders.
4. Use 2pcs. of M4 × 5(S)hex. screw to close air holes on the holder when internal coolant is used.

Stopper Bolt BL (P.068)	Straight Collet MC (P.066) MCA (P.067)	Morse Taper Adapter MA (P.068) MAB (P.068)	Jacobs Adapter JA (P.069) JAB (P.069)
----------------------------	---------------------------------------------	-------------------------------------------------	--------------------------------------------

Ordering Example

CAT40 - CTZ 1000 A - 135

Shank size

I.D. (d)

Projection
length (L)

Spanner

P.069

**Min. chucking length****Direct Chucking (without MC Collet)**

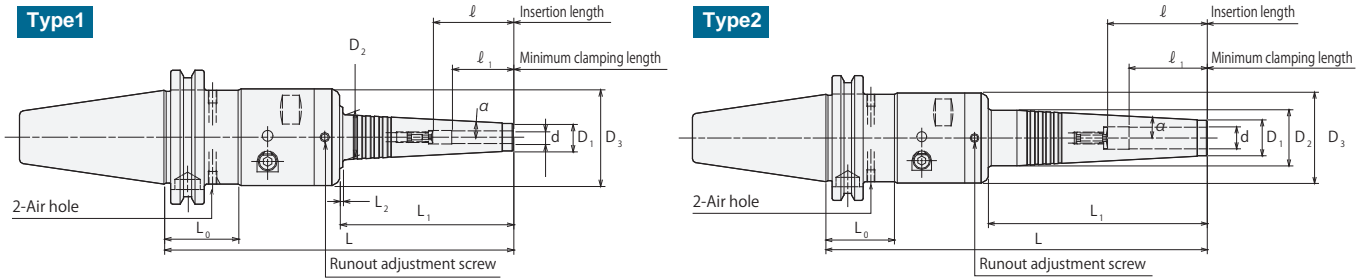
Model	Min. chucking length
CTZ1000A, CTZ1250A	50mm

With MC Collet

Collet I.D.	Min. chucking length	
	MC	MC-C, MC-OH
1/4, 5/16	30mm	30mm
3/8, 1/2	40mm	40mm
5/8, 3/4, 7/8	45mm	45mm
1	50mm	50mm

PHZ · S New

Slim Hydro "R" Zero Holder

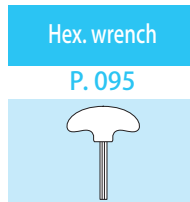


Metric Sizes Unit : Metric

Code	Model	Type	d	L	L1	L2	D1	D2	D3	L0	l	l 1	α	Hex. wrench for the actuating screw (Option)	Hex. wrench for runout adjustment screw (Option)
1810 00406150	CAT40 -PHZ06S -150	1	6	150	67	1.5	13	19.9	46	35.05	37	29	3°	L-4T	L-3T
1810 00406180	-180	1	6	180	97	1.5	13	23.1	46	35.05	37	29	3°		
1810 00407150	CAT40 -PHZ07S -150	1	7	150	67	1.5	14	20.9	46	35.05	37	29	3°		
1810 00407180	-180	1	7	180	97	1.5	14	24.1	46	35.05	37	29	3°		
1810 00408150	CAT40 -PHZ08S -150	1	8	150	67	1.5	15	21.9	46	35.05	50	29	3°		
1810 00408180	-180	1	8	180	97	1.5	15	25.1	46	35.05	50	29	3°		
1810 00409150	CAT40 -PHZ09S -150	1	9	150	67	1.5	16	22.9	46	35.05	50	40	3°		
1810 00409180	-180	1	9	180	97	1.5	16	26.1	46	35.05	50	40	3°		
1810 00410150	CAT40 -PHZ10S -150	1	10	150	67	1.5	17	23.9	46	35.05	50	40	3°		
1810 00410180	-180	1	10	180	97	1.5	17	27.1	46	35.05	50	40	3°		
1810 00411150	CAT40 -PHZ11S -150	1	11	150	67	1.5	18	24.9	46	35.05	50	40	3°		
1810 00411180	-180	1	11	180	97	—	18	28	46	35.05	50	40	3°		
1810 00412150	CAT40 -PHZ12S -150	1	12	150	67	1.5	19	25.9	46	35.05	70	40	3°		
1810 00412180	-180	2	12	180	97	—	19	28.2	46	35.05	70	40	3°		

1. Tool shank diameter tolerance must be within h6.
2. Do not leave the holder with actuating screw tightened when the chuck is empty.
3. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.

Tightening torque (Torque wrench : p.498)			
model	I.D. (d)		Tightening torque (Nm)
	mm	inch	
PHZ-S	06 ~ 12	—	9 ~ 10



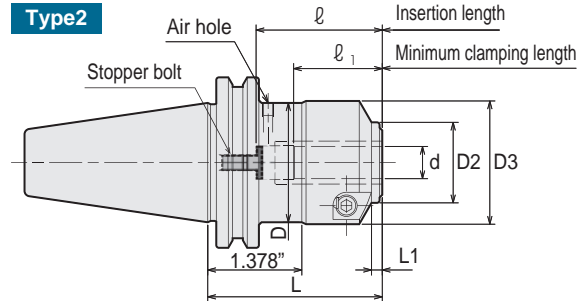
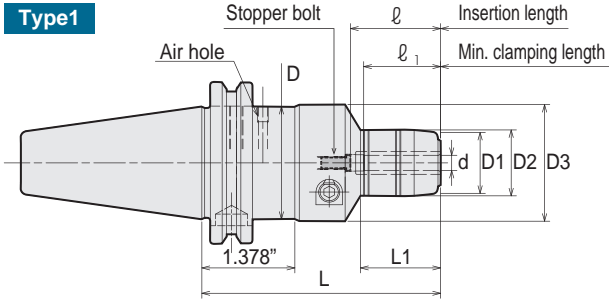
Ordering Example

CAT40 - PHZ 12 S - 150
 Shank size I.D. (d) Projection length (L)

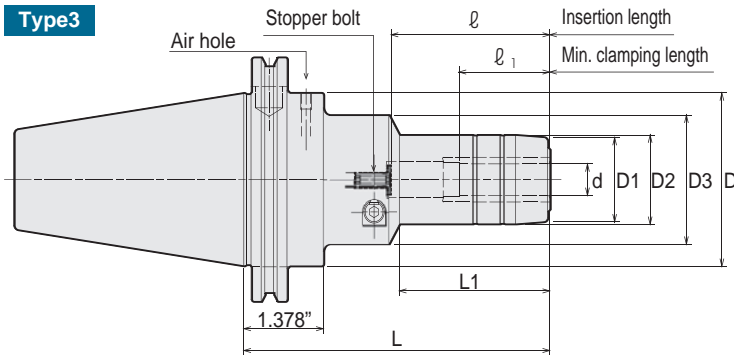
PHC-A

Power Hydro Chuck

- Hydro chuck with collet holder flexibility. Suitable for high precision cutting.



For PHC04A, the Stopper bolt is not included. Please order separately (Special item).



Inch Sizes

Unit : Inch

Code	Model	Type	d	L	L1	D	D1	D2	D3	l	l1	wrench (Option)
1860 11408065	CAT40 -PHC0250A -65	2	0.25	2.56	0.158	1.75	—	1.024	1.807	1.338	1.142	L-4T (4mm)
1860 11408090	-90	1	0.25	3.544	1.19	1.75	0.945	1.024	1.811	1.338	1.142	
1860 11408120	-120	1	0.25	4.725	1.623	1.75	0.945	1.024	1.811	1.771	1.142	
1860 11410065	CAT40 -PHC0312A -65	2	0.312	2.56	0.158	1.75	—	1.103	1.807	1.338	1.142	
1860 11410090	-90	1	0.312	3.544	1.213	1.75	1.024	1.103	1.811	1.338	1.142	
1860 11410120	-120	1	0.312	4.725	1.646	1.75	1.024	1.103	1.811	1.771	1.142	
1860 11412065	CAT40 -PHC0375A -65	2	0.375	2.56	0.158	1.75	—	1.182	1.807	1.771	1.3	
1860 11412105	-105	1	0.375	4.134	1.758	1.75	1.103	1.182	2.048	1.968	1.575	
1860 11412135	-135	1	0.375	5.315	2.546	1.75	1.103	1.182	2.048	2.755	1.575	
1860 11416065	CAT40 -PHC0500A -65	2	0.5	2.56	0.158	1.75	—	1.182	1.969	1.771	1.3	
1860 11416105	-105	1	0.5	4.134	1.826	1.75	1.339	1.418	2.048	1.968	1.575	
1860 11416135	-135	1	0.5	5.315	2.614	1.75	1.339	1.418	2.048	2.755	1.575	
1860 11420065	CAT40 -PHC0625A -65	2	0.625	2.56	0.158	1.75	—	1.182	1.969	1.771	1.3	
1860 11420105	-105	1	0.625	4.134	1.849	1.75	1.418	1.496	2.048	1.968	1.575	
1860 11420135	-135	1	0.625	5.315	2.637	1.75	1.418	1.496	2.048	2.755	1.575	
1860 11424105	CAT40 -PHC0750A -105	1	0.75	4.134	1.963	1.75	1.575	1.654	1.811	1.968	1.575	
1860 11424135	-135	1	0.75	5.315	2.75	1.75	1.575	1.654	1.811	2.755	1.575	
1860 11432120	CAT40 -PHC1000A -120	1	1	4.725	2.328	1.75	1.969	2.048	2.441	2.362	1.969	L-6T (6mm)
1860 11432150	-150	1	1	5.906	3.115	1.75	1.969	2.048	2.441	3.149	1.969	
1860 11440135	CAT40 -PHC1250A -135	1	1.25	5.315	—	1.75	2.363	2.441	2.441	2.952	2.56	
1860 11440165	-165	1	1.25	6.496	—	1.75	2.363	2.441	—	3.149	2.56	

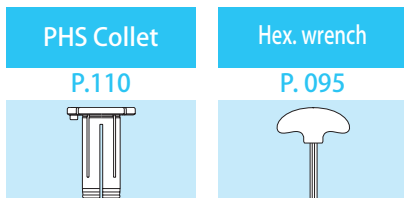
Inch Sizes Unit : Inch

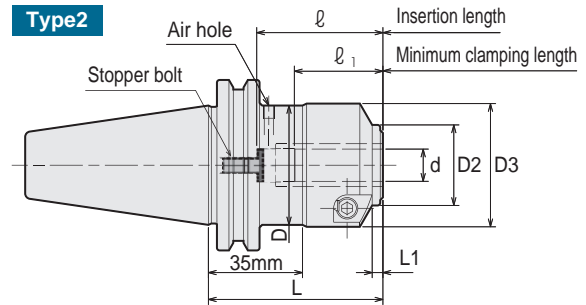
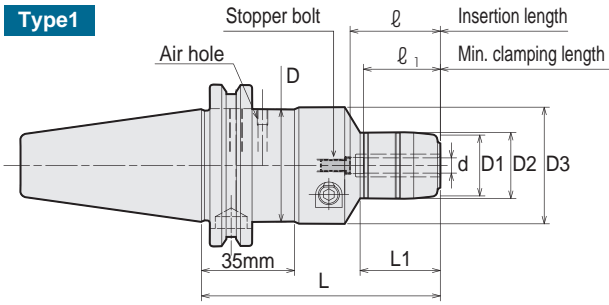
Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	wrench (Option)
—	CAT50 -PHC0250A -90	3	0.25	3.544	1.19	2.75	0.945	1.024	1.811	1.338	1.142	L-4T (4mm)
—	-120	3	0.25	4.725	1.623	2.75	0.945	1.024	1.811	1.771	1.142	
—	-150	3	0.25	5.906	1.623	2.75	0.945	1.024	1.811	1.771	1.142	
—	CAT50 -PHC0312A -90	3	0.312	3.544	1.213	2.75	1.024	1.103	1.811	1.338	1.142	
—	-120	3	0.312	4.725	1.646	2.75	1.024	1.103	1.811	1.771	1.142	
—	-150	3	0.312	5.906	1.646	2.75	1.024	1.103	1.811	1.771	1.142	
—	CAT50 -PHC0375A -105	3	0.375	4.134	1.758	2.75	1.103	1.182	2.048	1.968	1.575	
—	-135	3	0.375	5.315	2.546	2.75	1.103	1.182	2.048	2.755	1.575	
—	-165	3	0.375	6.496	2.546	2.75	1.103	1.182	2.048	2.755	1.575	
—	CAT50 -PHC0500A -105	3	0.5	4.134	1.826	2.75	1.339	1.418	2.048	1.968	1.575	
—	-135	3	0.5	5.315	2.614	2.75	1.339	1.418	2.048	2.755	1.575	
—	-165	3	0.5	6.496	2.614	2.75	1.339	1.418	2.048	2.755	1.575	
—	CAT50 -PHC0625A -105	3	0.625	4.134	1.849	2.75	1.418	1.496	2.048	1.968	1.575	
—	-135	3	0.625	5.315	2.637	2.75	1.418	1.496	2.048	2.755	1.575	
—	-165	3	0.625	6.496	2.637	2.75	1.418	1.496	2.048	2.755	1.575	
—	CAT50 -PHC0750A -105	3	0.75	4.134	1.963	2.75	1.575	1.654	1.811	1.968	1.575	
—	-135	3	0.75	5.315	2.75	2.75	1.575	1.654	1.811	2.755	1.575	
—	-165	3	0.75	6.496	2.75	2.75	1.575	1.654	1.811	2.755	1.575	
—	CAT50 -PHC1000A -120	3	1	4.725	2.328	2.75	1.969	2.048	2.441	2.362	1.969	L-6T (6mm)
—	-150	3	1	5.906	3.115	2.75	1.969	2.048	2.441	3.149	1.969	
—	-165	3	1	6.496	3.115	2.75	1.969	2.048	2.441	3.149	1.969	
—	CAT50 -PHC1250A -135	3	1.25	5.315	—	2.75	2.363	2.441	—	2.952	2.56	
—	-165	3	1.25	6.496	—	2.75	2.363	2.441	—	3.149	2.56	

- Cutting tool shank must be within tolerances specified below ;
 Shank diameter less than 6mm : Within h6 tolerance
 Shank diameter 6mm and over : Within h7 tolerance
 h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
- Do not leave the holder with actuating screw tightened when the chuck is empty.
- PHC0500A and PHC0750A have pin holes for collet with stopper pin on its body.
- Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
- For PHC04A, the stopper bolt is not included. Please order separately (Special item).
- For PHC04A, the length adjustment unit cannot be used.

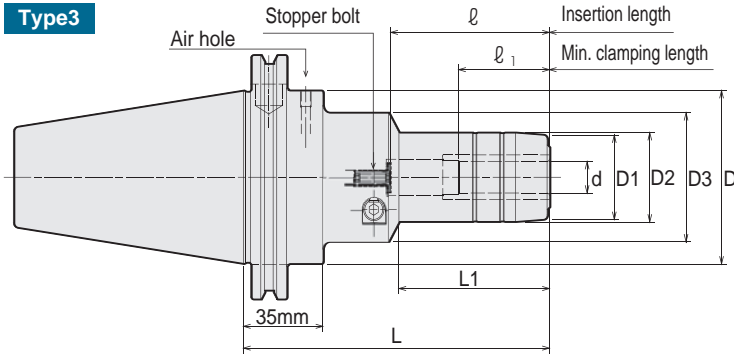
Tightening torque (Torque wrench : p.498)		
model	I.D. (d)	Tightening torque (Nm)
	inch	
PHC-A	0250 ~ 0312	11 ~ 12
PHC-A	0375 ~ 0750	7 ~ 8
PHC-A	1000, 1250	29 ~ 30

Ordering Example
CAT40 - PHC 0250 A - 120
 Shank size I.D. (d) Projection length (L)





For PHC04A, the Stopper bolt is not included. Please order separately (Special item).



Metric Sizes

Unit : Inch

Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	wrench (Option)
1860 01404080	CAT40 -PHC04A -80	1	4	80	25.1	—	25	46	—	29	24	L-4T (4mm)
1860 01406065	CAT40 -PHC06A -65	2	6	65	4	—	—	26	44.45	34	29	
1860 01406090	-90	1	6	90	30	44.45	24	26	46	34	29	
1860 01406120	-120	1	6	120	41	44.45	24	26	46	45	29	
1860 01407065	CAT40 -PHC07A -65	2	7	65	4	—	—	28	44.45	34	29	
1860 01407090	-90	1	7	90	30	44.45	26	28	46	34	29	
1860 01407120	-120	1	7	120	41	44.45	26	28	46	45	29	
1860 01408065	CAT40 -PHC08A -65	2	8	65	4	—	—	28	44.45	34	29	
1860 01408090	-90	1	8	90	30	44.45	26	28	46	34	29	
1860 01408120	-120	1	8	120	41	44.45	26	28	46	45	29	
1860 01409065	CAT40 -PHC09A -65	2	9	65	4	—	—	30	44.45	45	33	
1860 01409105	-105	1	9	105	44	44.45	28	30	52	50	40	
1860 01409135	-135	1	9	135	64	44.45	28	30	52	70	40	
1860 01410065	CAT40 -PHC10A -65	2	10	65	4	—	—	30	44.45	45	33	
1860 01410105	-105	1	10	105	44	44.45	28	30	52	50	40	
1860 01410135	-135	1	10	135	64	44.45	28	30	52	70	40	
1860 01411065	CAT40 -PHC11A -65	2	11	65	4	—	—	30	44.45	45	33	
1860 01411105	-105	1	11	105	45	44.45	30	32	52	50	40	
1860 01411135	-135	1	11	135	65	44.45	30	32	52	70	40	
1860 01412065	CAT40 -PHC12A -65	2	12	65	4	—	—	30	44.45	45	33	
1860 01412105	-105	1	12	105	45	44.45	30	32	52	50	40	
1860 01412135	-135	1	12	135	65	44.45	30	32	52	70	40	
1860 01413065	CAT40 -PHC13A -65	3	13	65	4	44.45	—	30	50	45	33	
1860 01413105	-105	1	13	105	46	44.45	34	36	52	50	40	
1860 01413135	-135	1	13	135	66	44.45	34	36	52	70	40	
1860 01414065	CAT40 -PHC14A -65	3	14	65	4	44.45	—	30	50	45	33	
1860 01414105	-105	1	14	105	46	44.45	34	36	52	50	40	
1860 01414135	-135	1	14	135	66	44.45	34	36	52	70	40	
1860 01415065	CAT40 -PHC15A -65	3	15	65	4	44.45	—	30	50	45	33	
1860 01415105	-105	1	15	105	46	44.45	36	38	52	50	40	
1860 01415135	-135	1	15	135	66	44.45	36	38	52	70	40	
1860 01416065	CAT40 -PHC16A -65	3	16	65	4	44.45	—	30	50	45	33	
1860 01416105	-105	1	16	105	46	44.45	36	38	52	50	40	
1860 01416135	-135	1	16	135	66	44.45	36	38	52	70	40	
1860 01420105	CAT40 -PHC20A -105	1	20	105	49	44.45	40	42	46	50	40	
1860 01420135	-135	1	20	135	69	44.45	40	42	46	70	40	
1860 01425120	CAT40 -PHC25A -120	1	25	120	59	44.45	50	52	62	60	50	
1860 01425150	-150	1	25	150	79	44.45	50	52	62	80	50	
1860 01432135	CAT40 -PHC32A -135	1	32	135	100	44.45	60	62	—	75	65	
1860 01432165	-165	1	32	165	130	44.45	60	62	—	80	65	

L-4T (4mm)

L-6T (6mm)

Metric Sizes

Unit : Inch

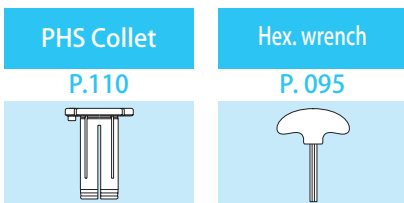
Code	Model	Type	d	L	L1	D	D1	D2	D3	ℓ	ℓ1	wrench (Option)
—	CAT50 -PHC06A -90	3	6	90	30	69.85	24	26	46	34	29	L-4T (4mm)
—	-120	3	6	120	41	69.85	24	26	46	45	29	
—	-150	3	6	150	41	69.85	24	26	46	45	29	
—	CAT50 -PHC07A -90	3	7	90	30	69.85	26	28	46	34	29	
—	-120	3	7	120	41	69.85	26	28	46	45	29	
—	-150	3	7	150	41	69.85	26	28	46	45	29	
—	CAT50 -PHC08A -90	3	8	90	30	69.85	26	28	46	34	29	
—	-120	3	8	120	41	69.85	26	28	46	45	29	
—	-150	3	8	150	41	69.85	26	28	46	45	29	
—	CAT50 -PHC09A -105	3	9	105	44	69.85	28	30	52	50	40	
—	-135	3	9	135	64	69.85	28	30	52	70	40	
—	-165	3	9	165	64	69.85	28	30	52	70	40	
—	CAT50 -PHC10A -105	3	10	105	44	69.85	28	30	52	50	40	
—	-135	3	10	135	64	69.85	28	30	52	70	40	
—	-165	3	10	165	64	69.85	28	30	52	70	40	
—	CAT50 -PHC11A -105	3	11	105	45	69.85	30	32	52	50	40	
—	-135	3	11	135	65	69.85	30	32	52	70	40	
—	-165	3	11	165	65	69.85	30	32	52	70	40	
—	CAT50 -PHC12A -105	3	12	105	45	69.85	30	32	52	50	40	
—	-135	3	12	135	65	69.85	30	32	52	70	40	
—	-165	3	12	165	65	69.85	30	32	52	70	40	
—	CAT50 -PHC13A -105	3	13	105	46	69.85	34	36	52	50	40	
—	-135	3	13	135	66	69.85	34	36	52	70	40	
—	-165	3	13	165	66	69.85	34	36	52	70	40	
—	CAT50 -PHC14A -105	3	14	105	46	69.85	34	36	52	50	40	
—	-135	3	14	135	66	69.85	34	36	52	70	40	
—	-165	3	14	165	66	69.85	34	36	52	70	40	
—	CAT50 -PHC15A -105	3	15	105	46	69.85	36	38	52	50	40	
—	-135	3	15	135	66	69.85	36	38	52	70	40	
—	-165	3	15	165	66	69.85	36	38	52	70	40	
—	CAT50 -PHC16A -105	3	16	105	46	69.85	36	38	52	50	40	
—	-135	3	16	135	66	69.85	36	38	52	70	40	
—	-165	3	16	165	66	69.85	36	38	52	70	40	
—	CAT50 -PHC20A -105	3	20	105	49	69.85	40	42	46	50	40	
—	-135	3	20	135	69	69.85	40	42	46	70	40	
—	-165	3	20	165	69	69.85	40	42	46	70	40	
—	CAT50 -PHC25A -120	3	25	120	59	69.85	50	52	62	64	50	
—	-150	3	25	150	79	69.85	50	52	62	80	50	
—	-165	3	25	165	79	69.85	50	52	62	80	50	
—	CAT50 -PHC32A -135	3	32	135	—	69.85	60	62	—	75	65	
—	-165	3	32	165	—	69.85	60	62	—	80	65	

1. Cutting tool shank must be within tolerances specified below ;
Shank diameter less than 6mm : Within h6 tolerance
Shank diameter 6mm and over : Within h7 tolerance
h6 or 0/-0.01 tolerance is recommended when newly making a cutting tool.
2. Do not leave the holder with actuating screw tightened when the chuck is empty.
3. PHC12A and PHC20A have pin holes for collet with stopper pin on its body.
4. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.
5. For PHC04A, the stopper bolt is not included. Please order separately (Special item).
6. For PHC04A, the length adjustment unit cannot be used.

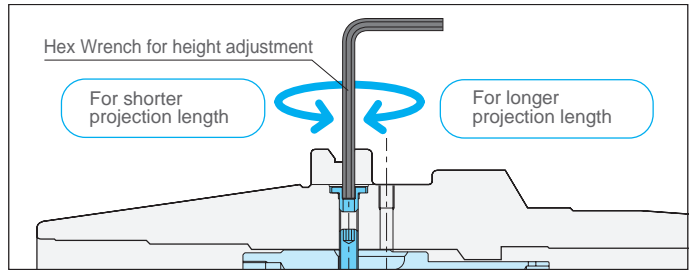
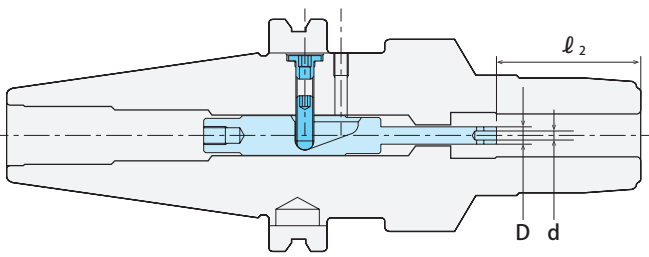
Tightening torque (Torque wrench : p.498)		
model	I.D. (d) mm	Tightening torque (Nm)
PHC-A	06 ~ 08	11 ~ 12
PHC-A	09 ~ 20	7 ~ 8
PHC-A	25, 32	29 ~ 30

Ordering Example

CAT40 - PHC 12 A - 135
 Shank size I.D. (d) Projection length (L)



Length adjustment unit



Inch Sizes

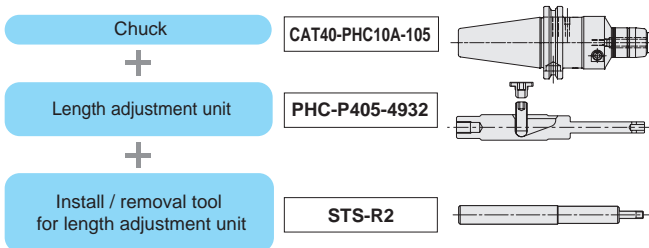
Unit : Metric

Code	Length adjustment unit	Matched chuck	Adjustment range l_2	Adjustable amount	Pin end I.D. d	Pin end O.D. D
3934 24045423	PHC-P404-5423	CAT40 -PHC0250A -90	29-34	5	2	3.8
3934 24047334	PHC-P404-7334	-120	29-39	10	2	3.8
3934 24047328	PHC-P404-7328	-120	35-45	10	2	3.8
3934 24045423	PHC-P404-5423	CAT40 -PHC0312A -90	29-34	5	2	3.8
3934 24047334	PHC-P404-7334	-120	29-39	10	2	3.8
3934 24047328	PHC-P404-7328	-120	35-45	10	2	3.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0375A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0500A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0625A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24054932	PHC-P405-4932	CAT40 -PHC0750A -105	40-50	10	2.5	4.8
3934 24055952	PHC-P405-5952	-135	40-50	10	2.5	4.8
3934 24054952	PHC-P405-4952	-135	50-60	10	2.5	4.8
3934 24054942	PHC-P405-4942	-135	60-70	10	2.5	4.8
3934 24055432	PHC-P405-5432	CAT40 -PHC1000A -120	50-60	10	2.5	4.8
3934 24056452	PHC-P405-6452	-150	50-60	10	2.5	4.8
3934 24055452	PHC-P405-5452	-150	60-70	10	2.5	4.8
3934 24055442	PHC-P405-5442	-150	70-80	10	2.5	4.8
3934 24055432	PHC-P405-5432	CAT40 -PHC1250A -135	65-75	10	2.5	4.8
3934 24056452	PHC-P405-6452	-165	65-75	10	2.5	4.8
3934 24055952	PHC-P405-5952	-165	70-80	10	2.5	4.8

Length adjustment unit can be used for chucks other than 45mm projection length.
 Length adjustment unit can be used with BT, CAT and SK shank chucks only.
 For PHC04A, the length adjustment unit cannot be used.

Ordering Example

CAT40-PHC10A-105 with adjustment range of 40-50mm
 (Adjustable amount-10mm).



Shank size	Hex wrench size for height adjustment	Install / removal tool for length adjustment unit
CAT40	2.5mm	STS-R2

Metric Sizes

Unit : Metric

Code	Length adjustment unit	Adjustment range t2	Matched chuck	Adjustable amount	Pin end I.D. d	Pin end O.D. D
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC06A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC07A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24045423	PHC-P404-5423	29-34	CAT40 -PHC08A -90	5	2	3.8
3934 24047334	PHC-P404-7334	29-39	-120	10	2	3.8
3934 24047328	PHC-P404-7328	35-45	-120	10	2	3.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC09A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC10A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC11A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC12A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC13A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC14A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC15A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC16A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24054932	PHC-P405-4932	40-50	CAT40 -PHC20A -105	10	2.5	4.8
3934 24055952	PHC-P405-5952	40-50	-135	10	2.5	4.8
3934 24054952	PHC-P405-4952	50-60	-135	10	2.5	4.8
3934 24054942	PHC-P405-4942	60-70	-135	10	2.5	4.8
3934 24055432	PHC-P405-5432	50-60	CAT40 -PHC25A -120	10	2.5	4.8
3934 24056452	PHC-P405-6452	50-60	-150	10	2.5	4.8
3934 24055452	PHC-P405-5452	60-70	-150	10	2.5	4.8
3934 24055442	PHC-P405-5442	70-80	-150	10	2.5	4.8
3934 24055432	PHC-P405-5432	65-75	CAT40 -PHC32A -135	10	2.5	4.8
3934 24056452	PHC-P405-6452	65-75	-165	10	2.5	4.8
3934 24055952	PHC-P405-5952	70-80	-165	10	2.5	4.8

Length adjustment unit can be used for chucks other than 45mm projection length.

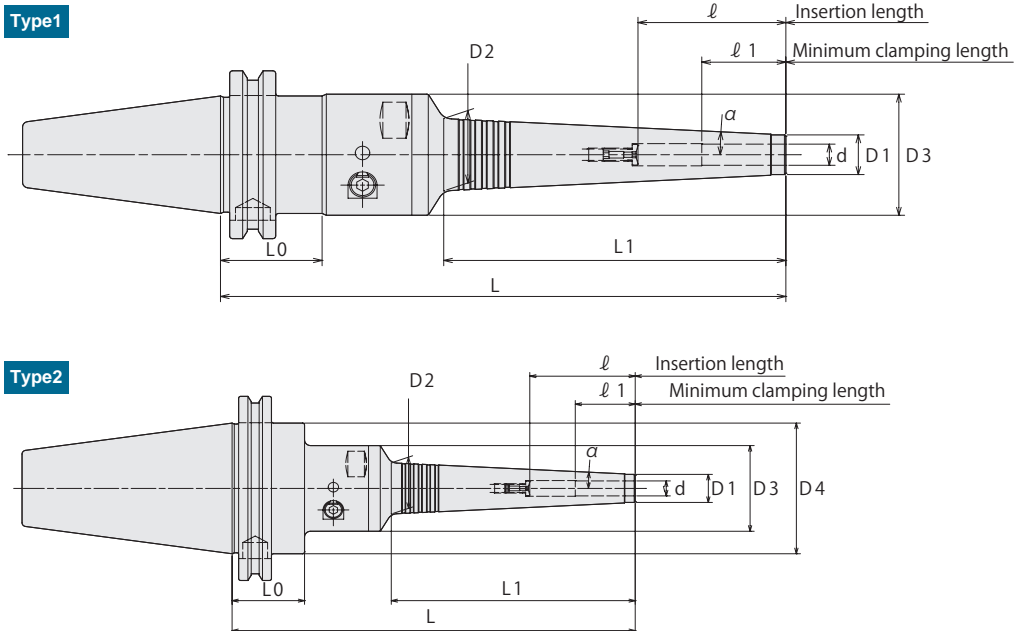
Length adjustment unit can be used with BT, CAT and SK shank chucks only.

For PHC04A, the length adjustment unit cannot be used.

PHC · S New

Slim Hydro Chuck

● Perfect choice for tight space applications, such as endmill finishing, drilling and reaming on 5-axis machines.



Inch Sizes Unit : Inch

Code	Model	Type	d	L	L1	D1	D2	D3	D4	L0	ℓ	ℓ1	α	Wrench (Option)
-	CAT40 -PHC0250S -150	1	0.250	5.906	2.795	0.512	0.807	1.811	—	1.380	1.457	1.142	3°	L-4T
-	-165	1	0.250	6.496	3.425	0.512	0.874	1.811	—	1.380	1.457	1.142		
-	-180	1	0.250	7.087	4.016	0.512	0.933	1.811	—	1.380	1.457	1.142		
-	-195	1	0.250	7.677	4.646	0.512	1.000	1.811	—	1.380	1.457	1.142		
-	CAT40 -PHC0312S -150	1	0.312	5.906	2.835	0.591	0.890	1.811	—	1.380	1.969	1.142		
-	-165	1	0.312	6.496	3.425	0.591	0.953	1.811	—	1.380	1.969	1.142		
-	-180	1	0.312	7.087	4.055	0.591	1.016	1.811	—	1.380	1.969	1.142		
-	-195	1	0.312	7.677	4.646	0.591	1.079	1.811	—	1.380	1.969	1.142		
-	CAT40 -PHC0375S -150	1	0.375	5.906	2.835	0.669	0.969	1.811	—	1.380	1.969	1.575		
-	-165	1	0.375	6.496	3.465	0.669	1.035	1.811	—	1.380	1.969	1.575		
-	-180	1	0.375	7.087	4.055	0.669	1.094	1.811	—	1.380	1.969	1.575		
-	-195	1	0.375	7.677	4.685	0.669	1.161	1.811	—	1.380	1.969	1.575		
-	CAT40 -PHC0500S -150	1	0.500	5.906	2.874	0.787	1.091	1.811	—	1.380	2.756	1.575		
-	-165	1	0.500	6.496	3.504	0.787	1.157	1.811	—	1.380	2.756	1.575		
-	-180	1	0.500	7.087	4.094	0.787	1.220	1.811	—	1.380	2.756	1.575		
-	-195	1	0.500	7.677	4.724	0.787	1.283	1.811	—	1.380	2.756	1.575		
-	CAT50 -PHC0250S -150	2	0.250	5.906	2.795	0.512	0.807	1.811	2.750	1.380	1.457	1.142		
-	-165	2	0.250	6.496	3.425	0.512	0.874	1.811	2.750	1.380	1.457	1.142		
-	-180	2	0.250	7.087	4.016	0.512	0.933	1.811	2.750	1.380	1.457	1.142		
-	-195	2	0.250	7.677	4.646	0.512	1.000	1.811	2.750	1.380	1.457	1.142		
-	CAT50 -PHC0312S -150	2	0.312	5.906	2.835	0.591	0.890	1.811	2.750	1.380	1.969	1.142		
-	-165	2	0.312	6.496	3.425	0.591	0.953	1.811	2.750	1.380	1.969	1.142		
-	-180	2	0.312	7.087	4.055	0.591	1.016	1.811	2.750	1.380	1.969	1.142		
-	-195	2	0.312	7.677	4.646	0.591	1.079	1.811	2.750	1.380	1.969	1.142		
-	CAT50 -PHC0375S -150	2	0.375	5.906	2.835	0.669	0.969	1.811	2.750	1.380	1.969	1.575		
-	-165	2	0.375	6.496	3.465	0.669	1.035	1.811	2.750	1.380	1.969	1.575		
-	-180	2	0.375	7.087	4.055	0.669	1.094	1.811	2.750	1.380	1.969	1.575		
-	-195	2	0.375	7.677	4.685	0.669	1.161	1.811	2.750	1.380	1.969	1.575		
-	CAT50 -PHC0500S -150	2	0.500	5.906	2.874	0.787	1.091	1.811	2.750	1.380	2.756	1.575		
-	-165	2	0.500	6.496	3.504	0.787	1.157	1.811	2.750	1.380	2.756	1.575		
-	-180	2	0.500	7.087	4.094	0.787	1.220	1.811	2.750	1.380	2.756	1.575		
-	-195	2	0.500	7.677	4.724	0.787	1.283	1.811	2.750	1.380	2.756	1.575		

1. Tool shank diameter tolerance must be within h6.
2. Do not leave the holder with actuating screw tightened when the chuck is empty.
3. Hex-head screws are necessary to plug air hole for center through coolant feed.
4. Item code with - is semi standard item.

Ordering Example

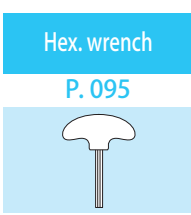
CAT40 - PHC 0250 S - 150
Shank size I.D. (d) Projection length (L)

Metric Sizes Unit : Metric

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ1	α	Wrench (Option)
1830 00406150	CAT40 -PHC06S -150	1	6	150	71	13	20.5	46	35.05	37	29	3°	L-4T
1830 00406165	-165	1	6	165	87	13	22.2	46	35.05	37	29		
1830 00406180	-180	1	6	180	102	13	23.7	46	35.05	37	29		
1830 00406195	-195	1	6	195	118	13	25.4	46	35.05	37	29		
1830 00407150	CAT40 -PHC07S -150	1	7	150	71	14	21.5	46	35.05	37	29		
1830 00407165	-165	1	7	165	87	14	23.2	46	35.05	37	29		
1830 00407180	-180	1	7	180	102	14	24.7	46	35.05	37	29		
1830 00407195	-195	1	7	195	118	14	26.4	46	35.05	37	29		
1830 00408150	CAT40 -PHC08S -150	1	8	150	72	15	22.6	46	35.05	50	29		
1830 00408165	-165	1	8	165	87	15	24.2	46	35.05	50	29		
1830 00408180	-180	1	8	180	103	15	25.8	46	35.05	50	29		
1830 00408195	-195	1	8	195	118	15	27.4	46	35.05	50	29		
1830 00409150	CAT40 -PHC09S -150	1	9	150	72	16	23.6	46	35.05	50	40		
1830 00409165	-165	1	9	165	87	16	25.2	46	35.05	50	40		
1830 00409180	-180	1	9	180	103	16	26.8	46	35.05	50	40		
1830 00409195	-195	1	9	195	118	16	28.4	46	35.05	50	40		
1830 00410150	CAT40 -PHC10S -150	1	10	150	72	17	24.6	46	35.05	50	40		
1830 00410165	-165	1	10	165	88	17	26.3	46	35.05	50	40		
1830 00410180	-180	1	10	180	103	17	27.8	46	35.05	50	40		
1830 00410195	-195	1	10	195	119	17	29.5	46	35.05	50	40		
1830 00411150	CAT40 -PHC11S -150	1	11	150	73	18	25.7	46	35.05	50	40		
1830 00411165	-165	1	11	165	88	18	27.3	46	35.05	50	40		
1830 00411180	-180	1	11	180	104	18	29.0	46	35.05	50	40		
1830 00411195	-195	1	11	195	119	18	30.5	46	35.05	50	40		
1830 00412150	CAT40 -PHC12S -150	1	12	150	73	19	26.7	46	35.05	70	40		
1830 00412165	-165	1	12	165	88	19	28.3	46	35.05	70	40		
1830 00412180	-180	1	12	180	104	19	30.0	46	35.05	70	40		
1830 00412195	-195	1	12	195	119	19	31.5	46	35.05	70	40		
1830 00416150	CAT40 -PHC16S -150	1	16	150	72	23	30.6	52.5	35.05	75	40		
1830 00416180	-180	1	16	180	103	23	33.8	52.5	35.05	80	40		
1830 00416195	-195	1	16	195	119	23	35.5	52.5	35.05	80	40		
1830 00420150	CAT40 -PHC20S -150	1	20	150	63	28	34.7	62	35.05	70	40		
1830 00420180	-180	1	20	180	93	28	37.8	62	35.05	100	40		
1830 00420195	-195	1	20	195	109	28	39.5	62	35.05	100	40		
1830 00425150	CAT40 -PHC25S -150	1	25	150	65	37	43.9	62	35.05	70	50		
1830 00425180	-180	1	25	180	96	37	47.1	62	35.05	100	50		
1830 00425195	-195	1	25	195	112	37	48.8	62	35.05	110	50		

1. Tool shank diameter tolerance must be within h6.
2. Do not leave the holder with actuating screw tightened when the chuck is empty.
3. Hex-head screws (included) are necessary to plug air hole for center through coolant feed.

Tightening torque (Torque wrench : p.498)			
model	I.D. (d)		Tightening torque (Nm)
	mm	inch	
PHC-S	06 ~ 12, 16	0250 ~ 0500	9 ~ 10
PHC-S	20 ~ 25	—	23 ~ 24

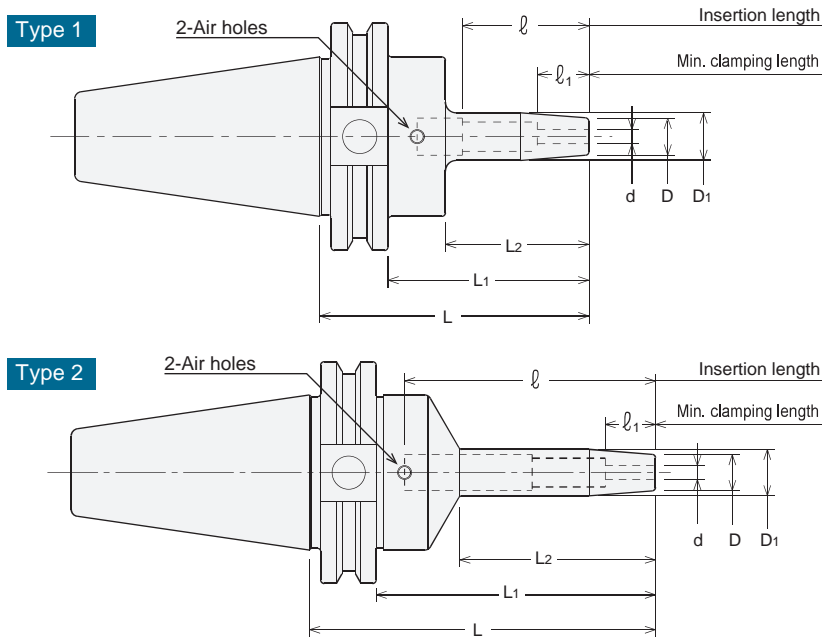


Ordering Example
CAT40 - PHC 12 S - 150
 Shank size I.D. (d) Projection length (L)

SRE

Shrink Fit (Small Diameter Type)

● Shrinkage method clamps a cutting tool firmly by heating and cooling the chuck. High precision and strong chucking force. (Small diameter type)



Metric Sizes Unit : Inch

Code	Model	Type	d (mm)	L	L1	L2	D	D1	D2	ℓ1	ℓ	kg
1940 51403060	CAT40 -SRE3A -60	1	3	2.362	1.612	0.982	0.453	0.571	1.750	0.512	1.024	1.0
1940 51403100	-100	1	3	3.937	3.187	2.557	0.453	0.650	1.750	0.512	2.598	
1940 51403120	-120	1	3	4.724	3.974	3.344	0.453	0.650	1.750	0.512	3.386	
1940 51403135	-135	1	3	5.315	4.565	3.504	0.453	0.650	1.750	0.512	3.976	
1940 51403160	-160	2	3	6.299	5.549	4.488	0.453	0.650	1.750	0.512	4.961	1.1
1940 51404060	CAT40 -SRE4A -60	1	4	2.362	1.612	0.982	0.453	0.571	1.750	0.630	1.024	1.0
1940 51404100	-100	1	4	3.937	3.187	2.557	0.453	0.650	1.750	0.630	2.598	
1940 51404120	-120	1	4	4.724	3.974	3.344	0.453	0.650	1.750	0.630	3.386	
1940 51404135	-135	1	4	5.315	4.565	3.504	0.453	0.650	1.750	0.630	3.976	
1940 51404160	-160	2	4	6.299	5.549	4.488	0.453	0.650	1.750	0.630	4.961	
1940 51405060	CAT40 -SRE5A -60	1	5	2.362	1.612	0.982	0.512	0.630	1.750	0.748	1.024	1.0
1940 51405100	-100	1	5	3.937	3.187	2.557	0.512	0.709	1.750	0.748	2.598	
1940 51405120	-120	1	5	4.724	3.974	3.344	0.512	0.709	1.750	0.748	3.386	
1940 51405135	-135	1	5	5.315	4.565	3.543	0.512	0.709	1.750	0.748	3.976	
1940 51405160	-160	2	5	6.299	5.549	4.528	0.512	0.709	1.750	0.748	4.961	
1940 51406060	CAT40 -SRE6A -60	1	6	2.362	1.612	0.982	0.512	0.630	1.750	1.063	1.024	1.0
1940 51406100	-100	1	6	3.937	3.187	2.557	0.512	0.709	1.750	1.063	2.598	1.1
1940 51406120	-120	1	6	4.724	3.974	3.344	0.512	0.709	1.750	1.063	3.386	
1940 51406135	-135	1	6	5.315	4.565	3.504	0.512	0.709	1.750	1.063	3.976	
1940 51406160	-160	2	6	6.299	5.549	4.488	0.512	0.709	1.750	1.063	4.961	
1940 51408060	CAT40 -SRE8A -60	1	8	2.362	1.612	0.982	0.512	0.630	1.750	1.063	1.024	1.0
1940 51408100	-100	1	8	3.937	3.187	2.557	0.512	0.709	1.750	1.063	2.598	
1940 51408120	-120	1	8	4.724	3.974	3.344	0.512	0.709	1.750	1.063	3.386	
1940 51408135	-135	1	8	5.315	4.565	3.504	0.512	0.709	1.750	1.063	3.976	
1940 51408160	-160	2	8	6.299	5.549	4.488	0.512	0.709	1.750	1.063	4.961	

1. Always use carbide shank tools with h6 tolerance.
2. Use 2pcs. of M4 × 5 (S) hex. screw (included) to close air holes on the chuck when internal coolant is used.
3. Center through coolant is not possible with SRE3A and SRE4A.

Heating device chart		
heating device	chuck	
	L1 ≤ 2.362"	L1 > 2.362"
ISG3400	Yes *	Yes
SRK-HA1, HB2	No	No

Ordering Example

CAT40 - SRE 6 A - 120
 Shank size I.D. (d) Projection length (L)

*Special induction coil is needed. Refer to P.500-501.

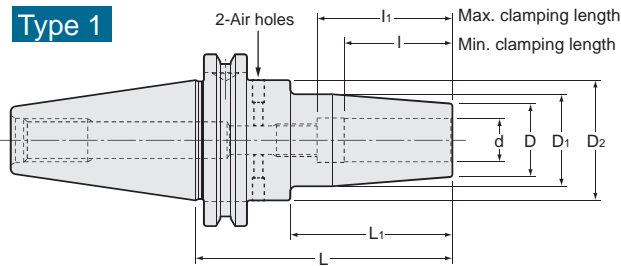
MEMO

SRD

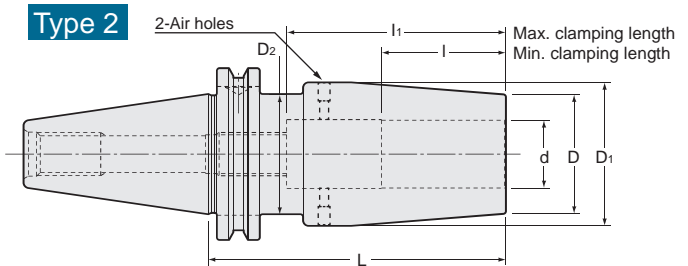
Shrink Fit (DIN Standard)

- Shrinkage method clamps a cutting tool firmly by heating and cooling the chuck. High precision and strong chucking force. (DIN Type)

Type 1



Type 2



Inch Sizes

Unit : Inch

Code	Model	Type	d	L	L1	D	D1	D2	I	I1	kg
1940 43408095	CAT40 -SRD0250A - 95	1	0.250	3.740	2.360	0.827	1.063	1.750	1.024	1.417	
1940 43408120	-120	1	0.250	4.724	3.344	0.827	1.063	1.750	1.024	1.417	1.3
1940 43408160	-160	1	0.250	6.299	4.919	0.827	1.063	1.750	1.024	1.417	
1940 43410095	CAT40 -SRD0312A - 95	1	0.312	3.740	2.360	0.827	1.063	1.750	1.024	1.969	
1940 43410120	-120	1	0.312	4.724	3.344	0.827	1.063	1.750	1.024	1.969	
1940 43410160	-160	1	0.312	6.299	4.919	0.827	1.063	1.750	1.024	1.969	
1940 43412095	CAT40 -SRD0375A - 95	1	0.375	3.740	2.360	0.945	1.260	1.750	1.260	1.969	1.3
1940 43412120	-120	1	0.375	4.724	3.344	0.945	1.260	1.750	1.260	1.969	
1940 43412160	-160	1	0.375	6.299	4.919	0.945	1.260	1.750	1.260	1.969	
1940 43416095	CAT40 -SRD0500A - 95	1	0.500	3.740	2.360	0.945	1.260	1.750	1.457	2.244	1.2
1940 43416120	-120	1	0.500	4.724	3.344	0.945	1.260	1.750	1.457	2.244	
1940 43416160	-160	1	0.500	6.299	4.919	0.945	1.260	1.750	1.457	2.244	1.6
1940 43420095	CAT40 -SRD0625A - 95	1	0.625	3.740	2.360	1.063	1.339	1.750	1.575	3.150	
1940 43420120	-120	1	0.625	4.724	3.344	1.063	1.339	1.750	1.575	3.150	
1940 43420160	-160	1	0.625	6.299	4.919	1.063	1.339	1.750	1.575	3.150	
1940 43424095	CAT40 -SRD0750A - 95	1	0.750	3.740	2.360	1.299	1.654	1.750	1.575	3.386	
1940 43424120	-120	1	0.750	4.724	3.344	1.299	1.654	1.750	1.575	3.937	
1940 43424160	-160	1	0.750	6.299	4.919	1.299	1.654	1.750	1.575	3.937	
1940 43428095	CAT40 -SRD0875A - 95	1	0.875	3.740	2.360	1.299	1.654	1.750	1.654	3.386	
1940 43428120	-120	1	0.875	4.724	3.344	1.299	1.654	1.750	1.654	3.937	
1940 43428160	-160	1	0.875	6.299	4.919	1.299	1.654	1.750	1.654	3.937	
1940 43432110	CAT40 -SRD1000A -110	2	1.000	4.331	—	1.732	2.087	1.750	1.890	3.780	1.8
1940 43432135	-135	2	1.000	5.315	—	1.732	2.087	1.750	1.890	3.937	
1940 43432160	-160	2	1.000	6.299	—	1.732	2.087	1.750	1.890	3.937	
1940 43440110	CAT40 -SRD1250A -110	2	1.250	4.331	—	1.732	2.087	1.750	1.890	3.780	
1940 43440135	-135	2	1.250	5.315	—	1.732	2.087	1.750	1.890	3.937	
1940 43440160	-160	2	1.250	6.299	—	1.732	2.087	1.750	1.890	3.937	
1940 43508095	CAT50 -SRD0250A - 95	1	0.250	3.740	2.360	0.827	1.063	2.750	1.024	1.417	
1940 43508120	-120	1	0.250	4.724	3.344	0.827	1.063	2.750	1.024	1.417	
1940 43508160	-160	1	0.250	6.299	4.919	0.827	1.063	2.750	1.024	1.417	
1940 43510095	CAT50 -SRD0312A - 95	1	0.312	3.740	2.360	0.827	1.063	2.750	1.024	1.969	
1940 43510120	-120	1	0.312	4.724	3.344	0.827	1.063	2.750	1.024	1.969	3.2
1940 43510160	-160	1	0.312	6.299	4.919	0.827	1.063	2.750	1.024	1.969	3.4
1940 43512095	CAT50 -SRD0375A - 95	1	0.375	3.740	2.360	0.945	1.260	2.750	1.260	1.969	
1940 43512120	-120	1	0.375	4.724	3.344	0.945	1.260	2.750	1.260	1.969	3.4
1940 43512160	-160	1	0.375	6.299	4.919	0.945	1.260	2.750	1.260	1.969	3.6
1940 43516095	CAT50 -SRD0500A - 95	1	0.500	3.740	2.360	0.945	1.260	2.750	1.457	2.244	
1940 43516120	-120	1	0.500	4.724	3.344	0.945	1.260	2.750	1.457	2.244	3.3
1940 43516160	-160	1	0.500	6.299	4.919	0.945	1.260	2.750	1.457	2.244	3.5
1940 43520095	CAT50 -SRD0625A - 95	1	0.625	3.740	2.360	1.063	1.339	2.750	1.575	3.150	
1940 43520120	-120	1	0.625	4.724	3.344	1.063	1.339	2.750	1.575	3.150	
1940 43520160	-160	1	0.625	6.299	4.919	1.063	1.339	2.750	1.575	3.150	3.6
1940 43524095	CAT50 -SRD0750A - 95	1	0.750	3.740	2.360	1.299	1.654	2.750	1.575	3.386	
1940 43524120	-120	1	0.750	4.724	3.344	1.299	1.654	2.750	1.575	3.937	3.6
1940 43524160	-160	1	0.750	6.299	4.919	1.299	1.654	2.750	1.575	3.937	3.9
1940 43528095	CAT50 -SRD0875A - 95	1	0.875	3.740	2.360	1.299	1.654	2.750	1.654	3.386	
1940 43528120	-120	1	0.875	4.724	3.344	1.299	1.654	2.750	1.654	3.937	
1940 43528160	-160	1	0.875	6.299	4.919	1.299	1.654	2.750	1.654	3.937	3.8
1940 43532105	CAT50 -SRD1000A -105	1	1.000	4.134	2.754	1.732	2.087	2.750	1.890	3.780	3.7
1940 43532120	-120	1	1.000	4.724	3.344	1.732	2.087	2.750	1.890	3.937	3.9
1940 43532160	-160	1	1.000	6.299	4.919	1.732	2.087	2.750	1.890	3.937	4.5
1940 43540105	CAT50 -SRD1250A -105	1	1.250	4.134	2.754	1.732	2.087	2.750	1.890	3.937	
1940 43540120	-120	1	1.250	4.724	3.344	1.732	2.087	2.750	1.890	3.937	3.6
1940 43540160	-160	1	1.250	6.299	4.919	1.732	2.087	2.750	1.890	3.937	4.2
1940 43548105	CAT50 -SRD1500A -105	1	1.500	4.134	2.754	1.732	2.087	2.750	1.890	3.937	
1940 43548120	-120	1	1.500	4.724	3.344	1.732	2.087	2.750	1.890	3.937	3.3
1940 43548160	-160	1	1.500	6.299	4.919	1.732	2.087	2.750	1.890	3.937	

1. Always use carbide shank tools with h6 tolerance.

2. Use 2pcs. of M4 x 5(S) hex. screw (included) to close air holes on the chuck when internal coolant is used.

Metric Sizes Unit : Inch

Code	Model	Type	d (mm)	L	L1	D	D1	D2	I	I1	kg
1940 41406095	CAT40 -SRD6A -95	1	6	3.740	2.360	0.827	1.063	1.750	1.024	1.417	
1940 41406120	-120	1	6	4.724	3.344	0.827	1.063	1.750	1.024	1.417	1.3
1940 41406160	-160	1	6	6.299	4.919	0.827	1.063	1.750	1.024	1.417	
1940 41408095	CAT40 -SRD8A -95	1	8	3.740	2.360	0.827	1.063	1.750	1.024	1.969	
1940 41408120	-120	1	8	4.724	3.344	0.827	1.063	1.750	1.024	1.969	
1940 41408160	-160	1	8	6.299	4.919	0.827	1.063	1.750	1.024	1.969	
1940 41410095	CAT40 -SRD10A -95	1	10	3.740	2.360	0.945	1.260	1.750	1.260	1.969	
1940 41410120	-120	1	10	4.724	3.344	0.945	1.260	1.750	1.260	1.969	1.4
1940 41410160	-160	1	10	6.299	4.919	0.945	1.260	1.750	1.260	1.969	
1940 41412095	CAT40 -SRD12A -95	1	12	3.740	2.360	0.945	1.260	1.750	1.457	2.756	
1940 41412120	-120	1	12	4.724	3.344	0.945	1.260	1.750	1.457	2.756	
1940 41412160	-160	1	12	6.299	4.919	0.945	1.260	1.750	1.457	2.756	
1940 41414095	CAT40 -SRD14A -95	1	14	3.740	2.360	1.063	1.339	1.750	1.457	2.756	
1940 41414120	-120	1	14	4.724	3.344	1.063	1.339	1.750	1.457	2.756	
1940 41414160	-160	1	14	6.299	4.919	1.063	1.339	1.750	1.457	2.756	
1940 41416095	CAT40 -SRD16A -95	1	16	3.740	2.360	1.063	1.339	1.750	1.575	3.150	
1940 41416120	-120	1	16	4.724	3.344	1.063	1.339	1.750	1.575	3.150	
1940 41416160	-160	1	16	6.299	4.919	1.063	1.339	1.750	1.575	3.150	
1940 41418095	CAT40 -SRD18A -95	1	18	3.740	2.360	1.299	1.654	1.750	1.575	3.150	1.4
1940 41418120	-120	1	18	4.724	3.344	1.299	1.654	1.750	1.575	3.150	
1940 41418160	-160	1	18	6.299	4.919	1.299	1.654	1.750	1.575	3.150	
1940 41420095	CAT40 -SRD20A -95	1	20	3.740	2.360	1.299	1.654	1.750	1.654	3.386	
1940 41420120	-120	1	20	4.724	3.344	1.299	1.654	1.750	1.654	3.937	
1940 41420160	-160	1	20	6.299	4.919	1.299	1.654	1.750	1.654	3.937	
1940 41425110	CAT40 -SRD25A -110	2	25	4.331	—	1.732	2.087	1.750	1.890	3.780	
1940 41425135	-135	2	25	5.315	—	1.732	2.087	1.750	1.890	3.937	
1940 41425160	-160	2	25	6.299	—	1.732	2.087	1.750	1.890	3.937	
1940 41432110	CAT40 -SRD32A -110	2	32	4.331	—	1.732	2.087	1.750	1.890	3.780	
1940 41432135	-135	2	32	5.315	—	1.732	2.087	1.750	1.890	3.937	
1940 41432160	-160	2	32	6.299	—	1.732	2.087	1.750	1.890	3.937	
1940 41506095	CAT50 -SRD6A -95	1	6	3.740	2.360	0.827	1.063	2.750	1.024	1.417	
1940 41506120	-120	1	6	4.724	3.344	0.827	1.063	2.750	1.024	1.417	
1940 41506160	-160	1	6	6.299	4.919	0.827	1.063	2.750	1.024	1.417	3.4
1940 41508095	CAT50 -SRD8A -95	1	8	3.740	2.360	0.827	1.063	2.750	1.024	1.969	
1940 41508120	-120	1	8	4.724	3.344	0.827	1.063	2.750	1.024	1.969	
1940 41508160	-160	1	8	6.299	4.919	0.827	1.063	2.750	1.024	1.969	3.4
1940 41510095	CAT50 -SRD10A -95	1	10	3.740	2.360	0.945	1.260	2.750	1.260	1.969	
1940 41510120	-120	1	10	4.724	3.344	0.945	1.260	2.750	1.260	1.969	3.4
1940 41510160	-160	1	10	6.299	4.919	0.945	1.260	2.750	1.260	1.969	3.6
1940 41512095	CAT50 -SRD12A -95	1	12	3.740	2.360	0.945	1.260	2.750	1.457	2.756	
1940 41512120	-120	1	12	4.724	3.344	0.945	1.260	2.750	1.457	2.756	3.3
1940 41512160	-160	1	12	6.299	4.919	0.945	1.260	2.750	1.457	2.756	3.6
1940 41514095	CAT50 -SRD14A -95	1	14	3.740	2.360	1.063	1.339	2.750	1.457	2.756	
1940 41514120	-120	1	14	4.724	3.344	1.063	1.339	2.750	1.457	2.756	
1940 41514160	-160	1	14	6.299	4.919	1.063	1.339	2.750	1.457	2.756	3.6
1940 41516095	CAT50 -SRD16A -95	1	16	3.740	2.360	1.063	1.339	2.750	1.575	3.150	3.3
1940 41516120	-120	1	16	4.724	3.344	1.063	1.339	2.750	1.575	3.150	
1940 41516160	-160	1	16	6.299	4.919	1.063	1.339	2.750	1.575	3.150	3.6
1940 41518095	CAT50 -SRD18A -95	1	18	3.740	2.360	1.299	1.654	2.750	1.575	3.150	
1940 41518120	-120	1	18	4.724	3.344	1.299	1.654	2.750	1.575	3.150	
1940 41518160	-160	1	18	6.299	4.919	1.299	1.654	2.750	1.575	3.150	3.9
1940 41520095	CAT50 -SRD20A -95	1	20	3.740	2.360	1.299	1.654	2.750	1.654	3.937	
1940 41520120	-120	1	20	4.724	3.344	1.299	1.654	2.750	1.654	3.937	3.6
1940 41520160	-160	1	20	6.299	4.919	1.299	1.654	2.750	1.654	3.937	3.9
1940 41525105	CAT50 -SRD25A -105	1	25	4.134	2.754	1.732	2.087	2.750	1.890	4.331	
1940 41525120	-120	1	25	4.724	3.344	1.732	2.087	2.750	1.890	4.331	
1940 41525160	-160	1	25	6.299	4.919	1.732	2.087	2.750	1.890	4.331	
1940 41532105	CAT50 -SRD32A -105	1	32	4.134	2.754	1.732	2.087	2.750	1.890	4.724	
1940 41532120	-120	1	32	4.724	3.344	1.732	2.087	2.750	1.890	4.724	3.6
1940 41532160	-160	1	32	6.299	4.919	1.732	2.087	2.750	1.890	4.724	4.2

1. Always use carbide shank tools with h6 tolerance.
2. Use 2pcs. of M4 x 5(S) hex. screw (included) to close air holes on the chuck when internal coolant is used.

Ordering Example
CAT40 - SRD 0250 A - 120
 Shank size I.D. (d) Projection length (L)

Ordering Example
CAT40 - SRD 6 A - 120
 Shank size I.D. (d) Projection length (L)

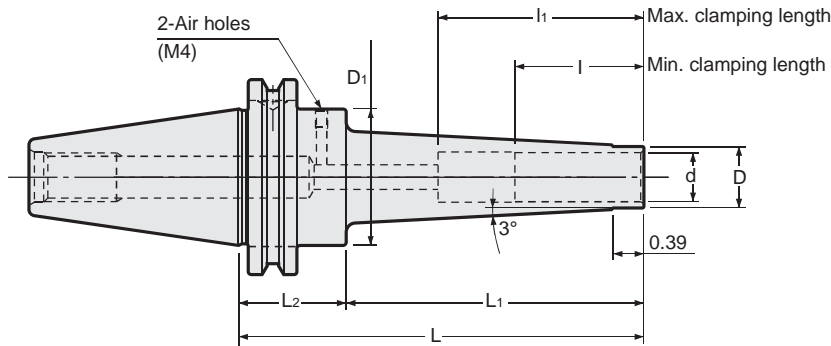
Heating device chart		
heating device	chuck	
	SRD6A, SRD8A SRD0250A, SRD0312A	SRD10A~SRD32A SRD0375A~SRD1500A
ISG3400	Yes	Yes
SRK-HA1, HB2	No	Yes



BT
 CAT
 AHO
 HSK-A/E/F/C
 HSK-T
 UTS
 Specialized Machine
 Related Equipment
 Bush & Chamfering Drill
 Milling Chuck
 Collet Holder
 "R" Zero Holder
 Hydraulic Chuck
 Sunk Fit
 Tapping Chuck
 Arbors
 Function Holder
 Retention Stud
 Tool Shank Dimensions

Shrink Fit (Slim Type)

- Shrinkage method clamps a cutting tool firmly by heating and cooling the chuck. High precision and strong chucking force. (Slim Type)



Inch Sizes

Unit : Inch

Code	Model	d	L	L1	L2	D	D1	I1	I	kg
1940 33408105	CAT40 -SRS0250A -105	0.250	4.134	2.756	1.378	0.354	1.750	1.417	1.024	1.1
1940 33408135	-135	0.250	5.315	3.937	1.378	0.354	1.750	1.417	1.024	1.1
1940 33410105	CAT40 -SRS0312A -105	0.312	4.134	2.756	1.378	0.433	1.750	1.969	1.024	1.1
1940 33410135	-135	0.312	5.315	3.937	1.378	0.433	1.750	1.969	1.024	
1940 33412105	CAT40 -SRS0375A -105	0.375	4.134	2.756	1.378	0.512	1.750	1.969	1.260	1.1
1940 33412135	-135	0.375	5.315	3.937	1.378	0.512	1.750	1.969	1.260	1.2
1940 33412165	-165	0.375	6.496	5.118	1.378	0.512	1.750	1.969	1.260	1.3
1940 33416105	CAT40 -SRS0500A -105	0.500	4.134	2.756	1.378	0.591	1.750	2.756	1.457	1.1
1940 33416135	-135	0.500	5.315	3.937	1.378	0.591	1.750	2.756	1.457	1.2
1940 33416165	-165	0.500	6.496	5.118	1.378	0.591	1.750	2.756	1.457	1.3
1940 33420105	CAT40 -SRS0625A -105	0.625	4.134	2.756	1.378	0.787	1.750	3.150	1.575	1.1
1940 33420135	-135	0.625	5.315	3.937	1.378	0.787	1.750	3.150	1.575	1.2
1940 33420165	-165	0.625	6.496	5.118	1.378	0.787	1.750	3.150	1.575	1.4
1940 33424105	CAT40 -SRS0750A -105	0.750	4.134	2.756	1.378	1.024	1.750	3.937	1.654	1.2
1940 33424135	-135	0.750	5.315	3.937	1.378	1.024	1.750	3.937	1.654	1.4
1940 33424165	-165	0.750	6.496	5.118	1.378	1.024	1.750	3.937	1.654	1.6
1940 33508105	CAT50 -SRS0250A -105	0.250	4.134	2.756	1.378	0.354	2.750	1.417	1.024	3
1940 33508135	-135	0.250	5.315	3.937	1.378	0.354	2.750	1.417	1.024	3
1940 33508165	-165	0.250	6.496	5.118	1.378	0.354	2.750	1.417	1.024	
1940 33510105	CAT50 -SRS0312A -105	0.312	4.134	2.756	1.378	0.433	2.750	1.969	1.024	
1940 33510135	-135	0.312	5.315	3.937	1.378	0.433	2.750	1.969	1.024	
1940 33510165	-165	0.312	6.496	5.118	1.378	0.433	2.750	1.969	1.024	
1940 33512105	CAT50 -SRS0375A -105	0.375	4.134	2.756	1.378	0.512	2.750	1.969	1.260	
1940 33512135	-135	0.375	5.315	3.937	1.378	0.512	2.750	1.969	1.260	
1940 33512165	-165	0.375	6.496	5.118	1.378	0.512	2.750	1.969	1.260	3.2
1940 33512195	-195	0.375	7.677	6.299	1.378	0.512	2.750	1.969	1.260	
1940 33516105	CAT50 -SRS0500A -105	0.500	4.134	2.756	1.378	0.591	2.750	2.756	1.457	3.1
1940 33516135	-135	0.500	5.315	3.937	1.378	0.591	2.750	2.756	1.457	3.1
1940 33516165	-165	0.500	6.496	5.118	1.378	0.591	2.750	2.756	1.457	3.3
1940 33516195	-195	0.500	7.677	6.299	1.378	0.591	2.750	2.756	1.457	3.4
1940 33520105	CAT50 -SRS0625A -105	0.625	4.134	2.756	1.378	0.787	2.750	3.150	1.575	
1940 33520135	-135	0.625	5.315	3.937	1.378	0.787	2.750	3.150	1.575	3.2
1940 33520165	-165	0.625	6.496	5.118	1.378	0.787	2.750	3.150	1.575	
1940 33520195	-195	0.625	7.677	6.299	1.378	0.787	2.750	3.150	1.575	
1940 33524105	CAT50 -SRS0750A -105	0.750	4.134	2.756	1.378	1.024	2.750	3.937	1.654	
1940 33524135	-135	0.750	5.315	3.937	1.378	1.024	2.750	3.937	1.654	
1940 33524165	-165	0.750	6.496	5.118	1.378	1.024	2.750	3.937	1.654	3.5
1940 33524195	-195	0.750	7.677	6.299	1.378	1.024	2.750	3.937	1.654	

1. Always use carbide shank tools with h6 tolerance.

2. Use 2pcs. of M4 × 5(S) hex. screw (included) to close air holes on the chuck when internal coolant is used.

Ordering Example

CAT40 - SRS 0250 A - 105

Shank size

I.D. (d)

Projection length (L)

Metric Sizes

Unit : Inch

Code	Model	d (mm)	L	L1	L2	D	D1	I1	I	kg
1940 31406105	CAT40 -SRS6A -105	6	4.134	2.756	1.378	0.354	1.750	1.417	1.024	1.0
1940 31406135	-135	6	5.315	3.937	1.378	0.354	1.750	1.417	1.024	
1940 31408105	CAT40 -SRS8A -105	8	4.134	2.756	1.378	0.433	1.750	1.969	1.024	1.1
1940 31408135	-135	8	5.315	3.937	1.378	0.433	1.750	1.969	1.024	
1940 31410105	CAT40 -SRS10A -105	10	4.134	2.756	1.378	0.512	1.750	1.969	1.260	1.1
1940 31410135	-135	10	5.315	3.937	1.378	0.512	1.750	1.969	1.260	
1940 31410165	-165	10	6.496	5.118	1.378	0.512	1.750	1.969	1.260	
1940 31412105	CAT40 -SRS12A -105	12	4.134	2.756	1.378	0.591	1.750	2.756	1.457	1.1
1940 31412135	-135	12	5.315	3.937	1.378	0.591	1.750	2.756	1.457	
1940 31412165	-165	12	6.496	5.118	1.378	0.591	1.750	2.756	1.457	1.3
1940 31416105	CAT40 -SRS16A -105	16	4.134	2.756	1.378	0.787	1.750	3.150	1.575	
1940 31416135	-135	16	5.315	3.937	1.378	0.787	1.750	3.150	1.575	
1940 31416165	-165	16	6.496	5.118	1.378	0.787	1.750	3.150	1.575	
1940 31420105	CAT40 -SRS20A -105	20	4.134	2.756	1.378	1.024	1.750	3.937	1.654	
1940 31420135	-135	20	5.315	3.937	1.378	1.024	1.750	3.937	1.654	
1940 31420165	-165	20	6.496	5.118	1.378	1.024	1.750	3.937	1.654	
1940 31506105	CAT50 -SRS6A -105	6	4.134	2.756	1.378	0.354	2.750	1.417	1.024	
1940 31506135	-135	6	5.315	3.937	1.378	0.354	2.750	1.417	1.024	
1940 31506165	-165	6	6.496	5.118	1.378	0.354	2.750	1.417	1.024	
1940 31508105	CAT50 -SRS8A -105	8	4.134	2.756	1.378	0.433	2.750	1.969	1.024	
1940 31508135	-135	8	5.315	3.937	1.378	0.433	2.750	1.969	1.024	
1940 31508165	-165	8	6.496	5.118	1.378	0.433	2.750	1.969	1.024	
1940 31510105	CAT50 -SRS10A -105	10	4.134	2.756	1.378	0.512	2.750	1.969	1.260	3.0
1940 31510135	-135	10	5.315	3.937	1.378	0.512	2.750	1.969	1.260	
1940 31510165	-165	10	6.496	5.118	1.378	0.512	2.750	1.969	1.260	
1940 31510195	-195	10	7.677	6.299	1.378	0.512	2.750	1.969	1.260	3.3
1940 31512105	CAT50 -SRS12A -105	12	4.134	2.756	1.378	0.591	2.750	2.756	1.457	
1940 31512135	-135	12	5.315	3.937	1.378	0.591	2.750	2.756	1.457	3.1
1940 31512165	-165	12	6.496	5.118	1.378	0.591	2.750	2.756	1.457	
1940 31512195	-195	12	7.677	6.299	1.378	0.591	2.750	2.756	1.457	3.4
1940 31516105	CAT50 -SRS16A -105	16	4.134	2.756	1.378	0.787	2.750	3.150	1.575	
1940 31516135	-135	16	5.315	3.937	1.378	0.787	2.750	3.150	1.575	
1940 31516165	-165	16	6.496	5.118	1.378	0.787	2.750	3.150	1.575	3.4
1940 31516195	-195	16	7.677	6.299	1.378	0.787	2.750	3.150	1.575	
1940 31520105	CAT50 -SRS20A -105	20	4.134	2.756	1.378	1.024	2.750	3.937	1.654	
1940 31520135	-135	20	5.315	3.937	1.378	1.024	2.750	3.937	1.654	
1940 31520165	-165	20	6.496	5.118	1.378	1.024	2.750	3.937	1.654	
1940 31520195	-195	20	7.677	6.299	1.378	1.024	2.750	3.937	1.654	

1. Always use carbide shank tools with h6 tolerance.

2. Use 2pcs. of M4 x 5(S) hex. screw (included) to close air holes on the chuck when internal coolant is used.

Heating device chart

heating device	chuck	
	SRS0250A, SRS0312A SRS6A, SRS8A	SRS0375A~SRS0750A SRS10A~SRS20A
ISG3400	Yes	Yes
SRK-HA1, HB2	No	Yes

Ordering Example

CAT40 - SRS 12 A - 105

Shank size

I.D. (d)

Projection
length (L)

BT

CAT

AHO

HSK-A/E/F/C

HSK-T

UTS

Specialized
MachineRelated
EquipmentBush &
Chamfering
Drill

Milling Chuck

Collet Holder

"R" Zero Holder

Hydraulic Chuck

Shank Fit

Tapping Chuck

Arbors

Function Holder

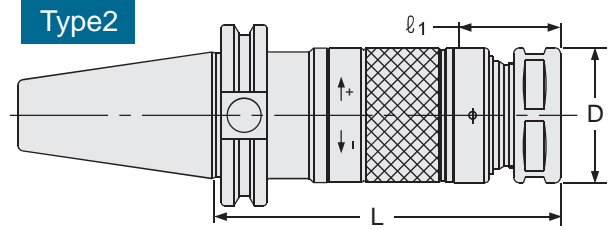
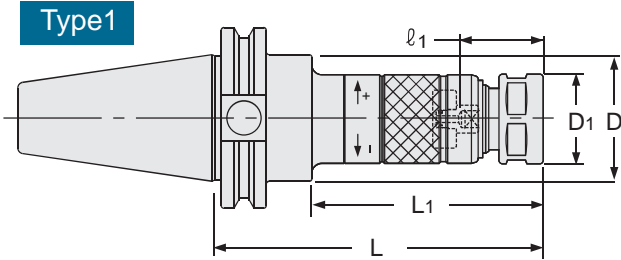
Retention Stud

Tool Shank
Dimensions

STM

Synchronous Tap Holder With Easy Tool Length Adjustment

- Projection length of the cutting tool can be adjusted by simply turning circumference of the holder.



⚠ For capable tap sizes, please refer to P.462-464 chart.

(NOTE) Nut O.D. of STM8 is 0.748".

STM Holder + Collet + STS Driver

Unit : Inch

Code	Model	Type	Tap Size	L	L1	D	D1	kg	Nut	Collet	Preset Driver	Spanner
1880 00400090	CAT40 -STM8 -90 *	1		3.543	2.126	1.752	0.827					
1880 00400105	-105	1	Old JIS Taps	4.134	2.717	1.752	0.827	1.1				
1880 00400120	-120	1	M4-8 U No8-5/16	4.724	3.307	1.752	0.827	1.2	KDP-1414	FDC-07	STS-8	Flat 17mm width
1880 00400135	-135	1	OSG Synchro Taps	5.315	4.291	1.752	0.827	1.2				
1880 00400150	-150	1	M4-6	5.906	4.882	1.752	0.827					
1880 10400090	CAT40 -STM12 -90 *	1		3.543	2.126	1.752	1.024	1.2				
1880 10400105	-105	1	Old JIS Taps	4.134	2.717	1.752	1.024	1.2				
1880 10400120	-120	1	M4-12 U No8-7/16	4.724	3.307	1.752	1.024	1.2	HTP-09	FSC-09	STS-12	S-1L
1880 10400135	-135	1	PT1/8	5.315	4.291	1.752	1.024	1.3				
1880 10400150	-150	1	OSG Synchro Taps	5.906	4.882	1.752	1.024					
1880 10400180	-180	1	M4-10	7.087	6.063	1.752	1.024					
1880 30400105	CAT40 -STM18 -105	1		4.134	2.717	1.752	1.417	1.3				
1880 30400120	-120	1	Old JIS Taps	4.724	3.307	1.752	1.417	1.4				
1880 30400135	-135	1	M14-18 U1/2-3/4	5.315	4.291	1.752	1.417	1.5	HTP-16	FSC-16	STS-18	S-4L
1880 30400150	-150	1	PT1/4-3/8	5.906	4.882	1.752	1.417					
1880 30400180	-180	1	OSG Synchro Taps	7.087	6.063	1.752	1.417					
1880 40400120	CAT40 -STM30 -120	2		4.724	—	1.811	—	1.6				
1880 40400135	-135	2	Old JIS Taps	5.315	—	1.811	—	1.8	HTP-22	FSC-22	STS-30	S-5L
1880 40400150	-150	2	M20-30 U7/8-1-1/8	5.906	—	1.811	—	1.9				
1880 40400180	-180	2	PT1/2-3/4	7.087	—	1.811	—					
1880 00500090	CAT50 -STM8 -90 *	1		3.543	2.126	2.752	0.827					
1880 00500105	-105	1	Old JIS Taps	4.134	2.717	2.752	0.827	3.1				
1880 00500120	-120	1	M4-8 U No8-5/16	4.724	3.307	2.752	0.827	3.1	KDP-1414	FDC-07	STS-8	Flat 17mm width
1880 00500135	-135	1	OSG Synchro Taps	5.315	4.291	2.752	0.827	3.2				
1880 00500150	-150	1	M4-6	5.906	4.882	2.752	0.827					
1880 00500165	-165	1		6.496	5.472	2.752	0.827					
1880 10500090	CAT50 -STM12 -90 *	1		3.543	2.126	2.752	1.024					
1880 10500105	-105	1	Old JIS Taps	4.134	2.717	2.752	1.024	3.2				
1880 10500120	-120	1	M4-12 U No8-7/16	4.724	3.307	2.752	1.024	3.2	HTP-09	FSC-09	STS-12	S-1L
1880 10500135	-135	1	PT1/8	5.315	4.291	2.752	1.024	3.3				
1880 10500150	-150	1	OSG Synchro Taps	5.906	4.882	2.752	1.024					
1880 10500180	-180	1	M4-10	7.087	6.063	2.752	1.024	3.4				
1880 30500105	CAT50 -STM18 -105	1		4.134	2.717	2.752	1.417	3.3				
1880 30500120	-120	1	Old JIS Taps	4.724	3.307	2.752	1.417	3.4				
1880 30500135	-135	1	M14-18 U1/2-3/4	5.315	4.291	2.752	1.417	3.5	HTP-16	FSC-16	STS-18	S-4L
1880 30500150	-150	1	PT1/4-3/8	5.906	4.882	2.752	1.417					
1880 30500180	-180	1	OSG Synchro Taps	7.087	6.063	2.752	1.417	3.8				
1880 40500120	CAT50 -STM30 -120	1		4.724	3.307	2.752	1.811	3.5				
1880 40500135	-135	1	Old JIS Taps	5.315	4.291	2.752	1.811	3.7	HTP-22	FSC-22	STS-30	S-5L
1880 40500150	-150	1	M20-30 U7/8-1-1/8	5.906	4.882	2.752	1.811	3.9				
1880 40500180	-180	1	PT1/2-3/4	7.087	6.063	2.752	1.811					
1880 40500210	-210	1	OSG Synchro Taps	8.268	7.244	2.752	1.811					

1. Collet, spanner and preset driver are sold separately.
2. Please see next page for L_1 dimension.
3. Tap holes smaller than M4 can be made by STM8. Collets to be used are as follows.
M1-M2.6: FDC-03007- ※※ M3-M3.5: FDC-04007- ※※
Tap drive will not be used for the above usages.

Ordering Example

CAT40 - STM 8 - 90
Shank size Holder size Projection length (L)

Ø1 Dimension for STM

Old JIS Taps (Unit : Inch)

Without center-through coolant			With center-through coolant (STM12 ~ 30)		
Tap Size	ℓ1	ℓ1(*)	Tap Size	ℓ1	ℓ1(*)
M4 ~ 6 U No.8 ~ 1/4	0.82 ~ 1.37	0.82 ~ 1.02	M4 ~ 6 U No.8 ~ 1/4	0.94 ~ 1.37	0.94 ~ 1.02
M7 ~ 12 U 5/16 ~ U7/16 PT1/8	0.90 ~ 1.45	0.90 ~ 1.10	M7 ~ 10 U 5/16 ~ 3/8	0.98 ~ 1.45	0.98 ~ 1.10
M13 ~ 15 U 1/2 ~ 5/8 PT1/4	1.10 ~ 1.65	—	M11 ~ 12 U 7/16 PT 1/8	1.02 ~ 1.45	1.02 ~ 1.10
M16 ~ 17	1.25 ~ 1.77	—	U1/2	1.25 ~ 1.65	—
M18 ~ 27 U 3/4 ~ U1 PT3/8 ~ 5/8	1.29 ~ 1.85	—	M13 ~ 15 U9/16	1.29 ~ 1.65	—
M30 U1-1/8 PT3/4	1.49 ~ 2.04	—	U5/8 PT1/4	1.33 ~ 1.65	—
With center-through coolant (STM8)			M16	1.37 ~ 1.81	—
Tap Size	ℓ1	ℓ1(*)	M18 U 3/4 PT3/8	1.41 ~ 1.85	—
M4 ~ 6 U No.8 ~ 1/4	0.98 ~ 1.37	0.98 ~ 1.02	M20 ~ 21 PT1/2	1.57 ~ 1.85	—
M7 ~ 8 U5/16	1.02 ~ 1.45	1.02 ~ 1.10	M22 U 7/8	1.61 ~ 1.85	—
			M23	1.65 ~ 1.85	—
			M24 ~ 25 PT5/8	1.69 ~ 1.85	—
			M26 ~ 27 U1	1.73 ~ 1.85	—
			M28	1.77 ~ 2.04	—
			M30 PT3/4	1.81 ~ 2.04	—
			U 1-1/8	1.88 ~ 2.04	—

OSG Synchro Taps (Unit : Inch)

Without center-through coolant		
Tap Size	ℓ1	ℓ1(*)
M4 ~ 6	0.82 ~ 1.37	0.82 ~ 1.02
M8 ~ 10	0.90 ~ 1.45	0.90 ~ 1.10
M12 ~ 14	1.10 ~ 1.65	—
M16 ~ 27	1.29 ~ 1.85	—

With center-through coolant (STM8)		
Tap Size	ℓ1	ℓ1(*)
M4 ~ 6	0.98 ~ 1.37	0.98 ~ 1.02

With center-through coolant (STM12 ~ 30)		
Tap Size	ℓ1	ℓ1(*)
M4 ~ 6	0.94 ~ 1.37	0.94 ~ 1.02
M8 ~ 10	1.02 ~ 1.45	1.02 ~ 1.10
M12	1.29 ~ 1.65	—
M14	1.33 ~ 1.65	—
M16 ~ 20	1.57 ~ 1.81	—
M22 ~ 27	1.73 ~ 1.85	—

YAMAWA X Series (Unit : Inch)

Without center-through coolant		
Tap Size	ℓ1	ℓ1(*)
M6 M8	0.90 ~ 1.45	0.90 ~ 1.10
M10 M12	1.10 ~ 1.65	—

With center-through coolant (STM8)		
Tap Size	ℓ1	ℓ1(*)
M6	1.02 ~ 1.45	1.02 ~ 1.10

With center-through coolant (STM12 ~ 30)		
Tap Size	ℓ1	ℓ1(*)
M6	0.98 ~ 1.45	0.98 ~ 1.10
M8	1.02 ~ 1.45	1.02 ~ 1.10
M10	1.29 ~ 1.65	—
M12	1.33 ~ 1.65	—

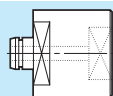
Collet

P. 226



Preset driver

P. 224-225



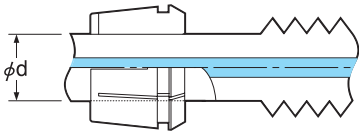
Tap size reference chart (collet, preset driver)

FDC-07 or FSC - collet

preset driver & tool for changing driver

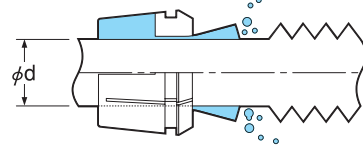
OH Type

● OH type collet should be used for center-through coolant feeding and external coolant feeding.

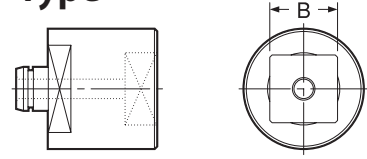


C Type

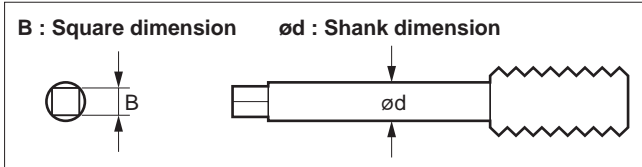
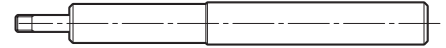
● when "collet-through" coolant feeding is needed.



STS Type



STS-R Type



※ Please select OH type for non-coolant use.

Holder Model	Tap Size (ANSI)	ød (inch)	ød (mm)	Collet Model (OH or C)	B (inch)	B (mm)	Preset Driver
STM8	#0-6	0.141	3.5814	FDC-03607**	0.110	2.794	STS8-□ 2.8
	#8	0.168	4.2672	FDC-04307**	0.131	3.3274	STS8-□ 3.4
	#10	0.194	4.9276	FDC-05007**	0.152	3.8608	STS8-□ 4.0
	#12	0.22	5.588	FDC-05607**	0.165	4.191	STS8-□ 4.2
	1/4	0.255	6.477	FDC-06507**	0.191	4.8514	STS8-□ 5.0
STM12	#0-6	0.141	3.5814	FSC-09-3.6**	0.110	2.794	STS12-□ 2.8
	#8	0.168	4.2672	FSC-09-4.3**	0.131	3.3274	STS12-□ 3.4
	#10	0.194	4.9276	FSC-09-5.0**	0.152	3.8608	STS12-□ 4.0
	#12	0.22	5.588	FSC-09-5.6**	0.165	4.191	STS12-□ 4.2
	1/4	0.255	6.477	FSC-09-6.5**	0.191	4.8514	STS12-□ 5.0
	1/8SPT	0.313	7.9502	FSC-09-8.0**	0.234	5.9436	STS12-□ 6.0
	5/16	0.318	8.0772	FSC-09-8.1**	0.238	6.0452	STS12-□ 6.1
	7/16	0.323	8.2042	FSC-09-8.3**	0.242	6.1468	STS12-□ 6.2
STM18	1/2	0.367	9.3218	FSC-16-9.4**	0.275	6.985	STS18-□ 7.0
	3/8	0.381	9.6774	FSC-16-9.7**	0.286	7.2644	STS18-□ 7.3
	9/16	0.429	10.8966	FSC-16-10.9**	0.322	8.1788	STS18-□ 8.2
	1/8LPT	0.437	11.0998	FSC-16-11.1**	0.328	8.3312	STS18-□ 8.4
	5/8	0.48	12.192	FSC-16-12.2**	0.360	9.144	STS18-□ 9.2
	11/16	0.542	13.7668	FSC-16-13.8**	0.406	10.3124	STS18-□ 10.4
	1/4PT	0.562	14.2748	FSC-16-14.3**	0.421	10.6934	STS18-□ 10.7
STM30	3/4	0.59	14.986	FSC-22-15.0**	0.442	11.2268	STS30-□ 11.3
	13/16	0.652	16.5608	FSC-22-16.6**	0.489	12.4206	STS30-□ 12.5
	7/8	0.697	17.7038	FSC-22-17.8**	0.523	13.2842	STS30-□ 13.3
	3/8PT	0.7	17.78	FSC-22-17.8**	0.531	13.4874	STS30-□ 13.5
	1	0.8	20.32	FSC-22-20.4**	0.600	15.24	STS30-□ 15.3

For DIN and ISO, please refer to P.463-464.

Ordering Example

FSC - 22 - 20.4 - OH

Collet size

Collet I.D. (d)

OH: for tool with coolant hole
C: for collet through

Combination of accessories									
Tap holder	Collet	Preset driver		Nut		Tool changing driver		Spanner	
Model	Model	Model	Code	Model	Code	Model	Code	Model	Code
STM8	FDC-07	STS8	3914 0100**03	KDP-1414	0070 01001407	STS-R0	3914 00000006	Flat 17mm width	
STM12	FSC-09	STS12	3914 1100**03	HTP-09	1314 00000009	STS-R1	3914 10000006	S-1L	0803 00000011
STM18	FSC-16	STS18	3914 310**03	HTP-16	1314 00000016	STS-R2	3914 30000006	S-4L	0803 00000014
STM30	FSC-22	STS30	3914 410**03	HTP-22	1314 00000022	STS-R2	3914 30000006	S-5L	0803 00000015

Tap size reference chart (collet, preset driver)

FDC-07 or FSC - collet

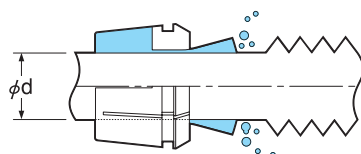
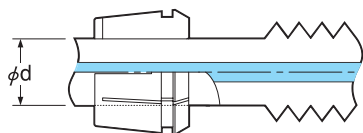
preset driver & tool for changing driver

OH Type

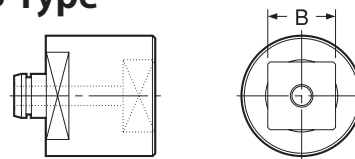
● OH type collet should be used for center-through coolant feeding and external coolant feeding.

C Type

● when "collet-through" coolant feeding is needed.



STS Type



STS-R Type



※ Please select OH type for non-coolant use.

Holder Model	Tap Size					ød	Collet Model (OH or C)	B	Preset Driver	Tool for Changing Driver
	Old JIS Taps			OSG Synchro-Taps	YAMAWA X Series					
Metric Thread	Unified Thread	Pipe Taper Thread								
STM8	M4-M4.5	UNo.8				5.0	FDC-05007-**	4.0	STS8-□4.0	STS-R0
	M5-M5.5	UNo.10~12				5.5	FDC-05507-**	4.5	STS8-□4.5	STS-R0
	M6	U1/4		M4-M6		6.0	FDC-06007-**	4.5	STS8-□4.5	STS-R0
					M6	6.0	FDC-06007-**	4.9	STS8-□4.9	STS-R0
		U5/16				6.1	FDC-06107-**	5.0	STS8-□5.0	STS-R0
	M7-8				6.2	FDC-06207-**	5.0	STS8-□5.0	STS-R0	
STM12	M4-M4.5	UNo.8				5.0	FSC-09-5.0-**	4.0	STS12-□4.0	STS-R1
	M5-M5.5	UNo.10~12				5.5	FSC-09-5.5-**	4.5	STS12-□4.5	STS-R1
	M6	U1/4		M4-M6		6.0	FSC-09-6.0-**	4.5	STS12-□4.5	STS-R1
					M6	6.0	FSC-09-6.0-**	4.9	STS12-□4.9	STS-R1
		U5/16				6.1	FSC-09-6.1-**	5.0	STS12-□5.0	STS-R1
	M7-8					6.2	FSC-09-6.2-**	5.0	STS12-□5.0	STS-R1
	M9-M10	U3/8				7.0	FSC-09-7.0-**	5.5	STS12-□5.5	STS-R1
	M11	U7/16	PT1/16~1/8	M8-M10	M8	8.0	FSC-09-8.0-**	6.2	STS12-□6.2	STS-R1
M12					8.0	FSC-09-8.0-**	6.0	STS12-□6.0	STS-R1	
					8.5	FSC-09-8.5-**	6.5	STS12-□6.5	STS-R1	
STM18	M13	U1/2				9.0	FSC-16-9.0-**	7.0	STS18-□7.0	STS-R2
						9.5	FSC-16-9.5-**	7.0	STS18-□7.0	STS-R2
				M12	M10	10.0	FSC-16-10.0-**	8.0	STS18-□8.0	STS-R2
	M14-15	U9/16				10.5	FSC-16-10.5-**	8.0	STS18-□8.0	STS-R2
			PT1/4			11.0	FSC-16-11.0-**	9.0	STS18-□9.0	STS-R2
		U5/8		M14	M12	12.0	FSC-16-12.0-**	9.0	STS18-□9.0	STS-R2
	M16					12.5	FSC-16-12.5-**	10.0	STS18-□10.0	STS-R2
	M17					13.0	FSC-16-13.0-**	10.0	STS18-□10.0	STS-R2
M18-M19	U3/4	PT3/8			14.0	FSC-16-14.0-**	11.0	STS18-□11.0	STS-R2	
STM30	M20					15.0	FSC-22-15.0-**	12.0	STS30-□12.0	STS-R2
	M21			M16-M20		16.0	FSC-22-16.0-**	12.0	STS30-□12.0	STS-R2
	M22	U7/8				17.0	FSC-22-17.0-**	13.0	STS30-□13.0	STS-R2
	M23		PT1/2			18.0	FSC-22-18.0-**	14.0	STS30-□14.0	STS-R2
	M24-M25		PT5/8			19.0	FSC-22-19.0-**	15.0	STS30-□15.0	STS-R2
	M26-M27	U1		M22-M27		20.0	FSC-22-20.0-**	15.0	STS30-□15.0	STS-R2
	M28					21.0	FSC-22-21.0-**	17.0	STS30-□17.0	STS-R2
		U1-1/8				22.0	FSC-22-22.0-**	17.0	STS30-□17.0	STS-R2
M30		PT3/4			23.0	FSC-22-23.0-**	17.0	STS30-□17.0	STS-R2	

Ordering Example

FSC - 22 - 20.0 - OH

Collet size
Collet I.D. (d)

OH: for tool with coolant hole
C: for collet through

Combination of accessories

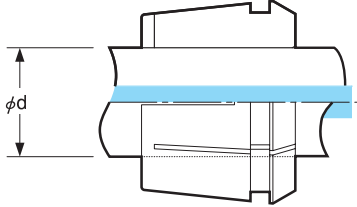
Tap holder	Collet	Preset driver		Nut		Tool changing driver		Spanner	
Model	Model	Model	Code	Model	Code	Model	Code	Model	Code
STM8	FDC-07	STS8	3914 0100**03	KDP-1414	0070 01001407	STS-R0	3914 00000006	Flat 17mm width	
STM12	FSC-09	STS12	3914 1100**03	HTP-09	1314 00000009	STS-R1	3914 10000006	S-1L	0803 00000011
STM18	FSC-16	STS18	3914 310**03	HTP-16	1314 00000016	STS-R2	3914 30000006	S-4L	0803 00000014
STM30	FSC-22	STS30	3914 410**03	HTP-22	1314 00000022	STS-R2	3914 30000006	S-5L	0803 00000015

FSC

Collet For Tapper

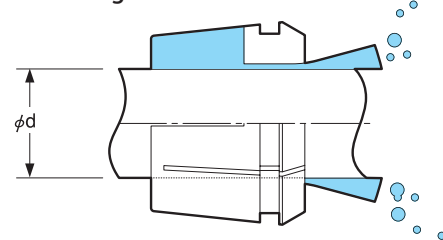
FSC-OH

For tool with coolant hole



FSC-C

For Collet through



Tool Shank Dia.	Size	Code	
			ϕd (inch)
ϕ 0.141	ϕ 3.6	FSC-09-3.6-OH	—
ϕ 0.168	ϕ 4.3	FSC-09-4.3-OH	1334 00104309
ϕ 0.194	ϕ 5.0	FSC-09-5.0-OH	1334 00105009
ϕ 0.220	ϕ 5.6	FSC-09-5.6-OH	1334 00105609
ϕ 0.216	ϕ 5.5	FSC-09-5.5-OH	1334 00105509
ϕ 0.236	ϕ 6.0	FSC-09-6.0-OH	1334 00106009
ϕ 0.240	ϕ 6.1	FSC-09-6.1-OH	1334 00106109
ϕ 0.244	ϕ 6.2	FSC-09-6.2-OH	1334 00106209
ϕ 0.255	ϕ 6.5	FSC-09-6.5-OH	1334 00106509
ϕ 0.275	ϕ 7.0	FSC-09-7.0-OH	1334 00107009
ϕ 0.314	ϕ 8.0	FSC-09-8.0-OH	1334 00108009
ϕ 0.313	ϕ 8.0	FSC-09-8.0-OH	1334 00108009
ϕ 0.318	ϕ 8.1	FSC-09-8.1-OH	1334 00108109
ϕ 0.323	ϕ 8.3	FSC-09-8.3-OH	1334 00108309
ϕ 0.334	ϕ 8.5	FSC-09-8.5-OH	1334 00108509
ϕ 0.354	ϕ 9.0	FSC-16-9.0-OH	1334 00109016
ϕ 0.367	ϕ 9.4	FSC-16-9.4-OH	1334 00109416
ϕ 0.374	ϕ 9.5	FSC-16-9.5-OH	1334 00109516
ϕ 0.381	ϕ 9.7	FSC-16-9.7-OH	1334 00109716
ϕ 0.393	ϕ 10.0	FSC-16-10.0-OH	1334 00110016
ϕ 0.413	ϕ 10.5	FSC-16-10.5-OH	1334 00110516
ϕ 0.429	ϕ 10.9	FSC-16-10.9-OH	1334 00110916
ϕ 0.433	ϕ 11.0	FSC-16-11.0-OH	1334 00111016
ϕ 0.437	ϕ 11.1	FSC-16-11.1-OH	1334 00111116
ϕ 0.472	ϕ 12.0	FSC-16-12.0-OH	1334 00112016
ϕ 0.480	ϕ 12.2	FSC-16-12.2-OH	1334 00112216
ϕ 0.492	ϕ 12.5	FSC-16-12.5-OH	1334 00112516
ϕ 0.511	ϕ 13.0	FSC-16-13.0-OH	1334 00113016
ϕ 0.542	ϕ 13.8	FSC-16-13.8-OH	1334 00113816
ϕ 0.551	ϕ 14.0	FSC-16-14.0-OH	1334 00114016
ϕ 0.562	ϕ 14.3	FSC-16-14.3-OH	1334 00114316
ϕ 0.590	ϕ 15.0	FSC-22-15.0-OH	1334 00115022
ϕ 0.629	ϕ 16.0	FSC-22-16.0-OH	1334 00116022
ϕ 0.652	ϕ 16.6	FSC-22-16.6-OH	1334 00116622
ϕ 0.669	ϕ 17.0	FSC-22-17.0-OH	1334 00117022
ϕ 0.697	ϕ 17.8	FSC-22-17.8-OH	1334 00117822
ϕ 0.700	ϕ 17.8	FSC-22-17.8-OH	1334 00117822
ϕ 0.708	ϕ 18.0	FSC-22-18.0-OH	1334 00118022
ϕ 0.748	ϕ 19.0	FSC-22-19.0-OH	1334 00119022
ϕ 0.800	ϕ 20.4	FSC-22-20.4-OH	1334 00120422
ϕ 0.787	ϕ 20.0	FSC-22-20.0-OH	1334 00120022
ϕ 0.826	ϕ 21.0	FSC-22-21.0-OH	1334 00121022
ϕ 0.866	ϕ 22.0	FSC-22-22.0-OH	1334 00122022
ϕ 0.905	ϕ 23.0	FSC-22-23.0-OH	1334 00123022

Tool Shank Dia.	Size	Code	
			ϕd (inch)
ϕ 0.141	ϕ 3.6	FSC-09-3.6-C	—
ϕ 0.168	ϕ 4.3	FSC-09-4.3-C	1335 00104309
ϕ 0.194	ϕ 5.0	FSC-09-5.0-C	1335 00105009
ϕ 0.220	ϕ 5.6	FSC-09-5.6-C	1335 00105609
ϕ 0.216	ϕ 5.5	FSC-09-5.5-C	1335 00105509
ϕ 0.236	ϕ 6.0	FSC-09-6.0-C	1335 00106009
ϕ 0.240	ϕ 6.1	FSC-09-6.1-C	1335 00106109
ϕ 0.244	ϕ 6.2	FSC-09-6.2-C	1335 00106209
ϕ 0.255	ϕ 6.5	FSC-09-6.5-C	1335 00106509
ϕ 0.275	ϕ 7.0	FSC-09-7.0-C	1335 00107009
ϕ 0.314	ϕ 8.0	FSC-09-8.0-C	1335 00108009
ϕ 0.313	ϕ 8.0	FSC-09-8.0-C	1335 00108009
ϕ 0.318	ϕ 8.1	FSC-09-8.1-C	1335 00108109
ϕ 0.323	ϕ 8.3	FSC-09-8.3-C	1335 00108309
ϕ 0.334	ϕ 8.5	FSC-09-8.5-C	1335 00108509
ϕ 0.354	ϕ 9.0	FSC-16-9.0-C	1335 00109016
ϕ 0.367	ϕ 9.4	FSC-16-9.4-C	1335 00109416
ϕ 0.374	ϕ 9.5	FSC-16-9.5-C	1335 00109516
ϕ 0.381	ϕ 9.7	FSC-16-9.7-C	1335 00109716
ϕ 0.393	ϕ 10.0	FSC-16-10.0-C	1335 00110016
ϕ 0.413	ϕ 10.5	FSC-16-10.5-C	1335 00110516
ϕ 0.429	ϕ 10.9	FSC-16-10.9-C	1335 00110916
ϕ 0.433	ϕ 11.0	FSC-16-11.0-C	1335 00111016
ϕ 0.437	ϕ 11.1	FSC-16-11.1-C	1335 00111116
ϕ 0.472	ϕ 12.0	FSC-16-12.0-C	1335 00112016
ϕ 0.480	ϕ 12.2	FSC-16-12.2-C	1335 00112216
ϕ 0.492	ϕ 12.5	FSC-16-12.5-C	1335 00112516
ϕ 0.511	ϕ 13.0	FSC-16-13.0-C	1335 00113016
ϕ 0.542	ϕ 13.8	FSC-16-13.8-C	1335 00113816
ϕ 0.551	ϕ 14.0	FSC-16-14.0-C	1335 00114016
ϕ 0.562	ϕ 14.3	FSC-16-14.3-C	1335 00114316
ϕ 0.590	ϕ 15.0	FSC-22-15.0-C	1335 00115022
ϕ 0.629	ϕ 16.0	FSC-22-16.0-C	1335 00116022
ϕ 0.652	ϕ 16.6	FSC-22-16.6-C	1335 00116622
ϕ 0.669	ϕ 17.0	FSC-22-17.0-C	1335 00117022
ϕ 0.697	ϕ 17.8	FSC-22-17.8-C	1335 00117822
ϕ 0.700	ϕ 17.8	FSC-22-17.8-C	1335 00117822
ϕ 0.708	ϕ 18.0	FSC-22-18.0-C	1335 00118022
ϕ 0.748	ϕ 19.0	FSC-22-19.0-C	1335 00119022
ϕ 0.800	ϕ 20.4	FSC-22-20.4-C	1335 00120422
ϕ 0.787	ϕ 20.0	FSC-22-20.0-C	1335 00120022
ϕ 0.826	ϕ 21.0	FSC-22-21.0-C	1335 00121022
ϕ 0.866	ϕ 22.0	FSC-22-22.0-C	1335 00122022
ϕ 0.905	ϕ 23.0	FSC-22-23.0-C	1335 00123022

OH type shall be selected in case not utilizing coolant through from the machine spindle.

Ordering Example

FSC - 16 - 9.0 - OH
 16 Series Tool Shank Dia.

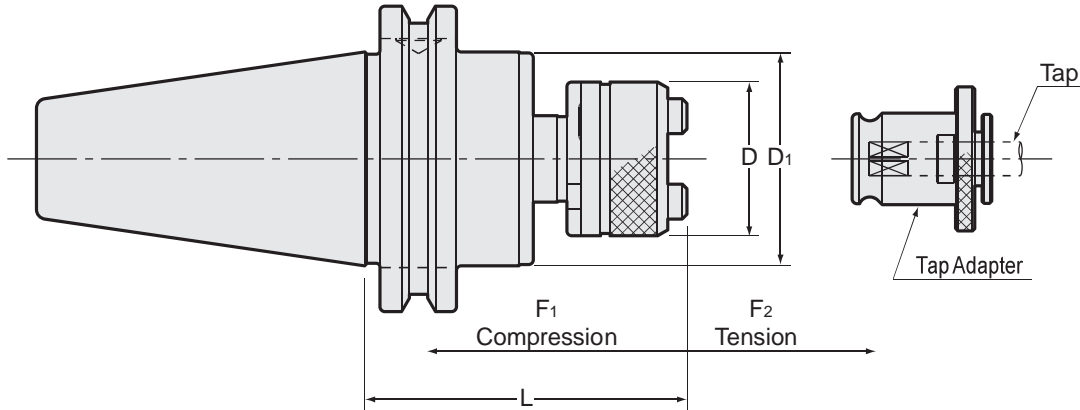
Ordering Example


FSC - 16 - 9.0 - C
 16 Series Tool Shank Dia.

TP1

Quick Change Tapping Chuck

- Strong compression allows use with rolled thread tap.



 For capable tap sizes, please refer to P.463-P.464 chart.

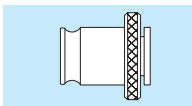
Unit : Inch

Code	Model	Tap Size	Adapter Size	D	D1	L	Axial compensation		kg
							F1	F2	
2030 00401062	CAT40 -TP1 -1 -62	#0-12, 1/4-1/2 M3-M12	1	1.260	1.750	2.441	0.236	0.709	1.0
2030 00402093	CAT40 -TP1 -2 -93	5/16-7/8 M8-M22	2	1.969	1.795	3.661	0.591	0.787	1.4
2030 00403179	CAT40 -TP1 -3 -179	13/16-1-3/8 M16-M38	3	2.835	2.441	7.047	0.787	0.787	
2030 00501071	CAT50 -TP1 -1 -71	#0-12, 1/4-1/2 M3-M12	1	1.260	2.750	2.795	0.236	0.709	3.2
2030 00502102	CAT50 -TP1 -2 -102	5/16-7/8 M8-M22	2	1.969	2.750	4.015	0.591	0.787	3.7
2030 00503142	CAT50 -TP1 -3 -142	13/16-1-3/8 M16-M38	3	2.835	2.750	5.708	0.787	0.787	4.5
2030 00504165	CAT50 -TP1 -4 -165	7/8-1-3/4 M22-M48	4	3.740	3.268	6.496	0.886	0.886	6.3

1. To prevent tap breakage, use tap adapter with safety torque device.
2. Tap adapter is sold separately.

Tap adapter

P.458



Ordering Example

CAT50 - TP1-2 - 93

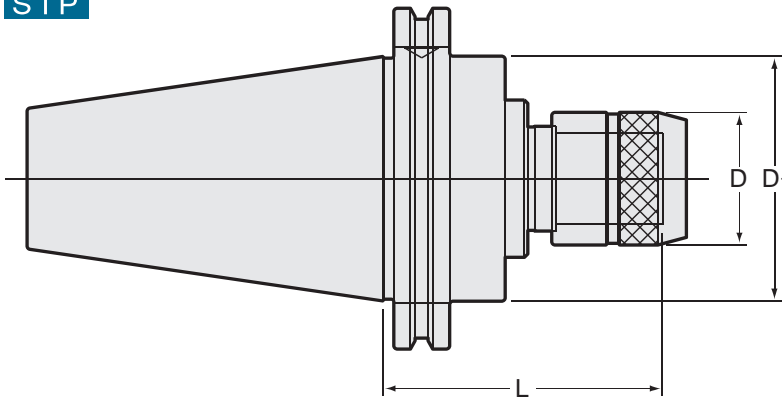
Shank size Adapter size Projection length(L)

STP

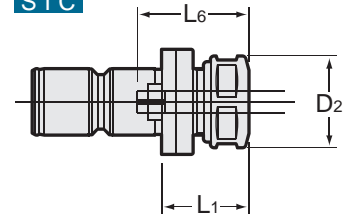
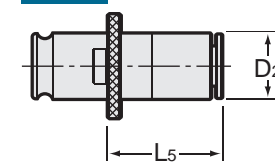
Synchro Tapping Chuck

- Quick-changeable tap adapter.
- For machines with rigid tapping cycles.
- Compatible with NT high precision FDC collets or Bilz (WE/WEN) quick change.
- Length adjustable adapters offer quick easy adjustments.
- Coolant-thru capable with the use of FDC-OH high precision coolant collets. (When STC1 is used)

STP



STC

WEN
or WE

Unit : Inch

Code	Model	L	D	D1	kg	Adapter Size	L5	D2	Tapping Capacity	Coolant Pressure
1950 00401075	CAT40 -STP1 -75	2.953	1.496	1.750	1.2	STC1- ***	1.024	1.024	M3 - M12 PT1/8	145psi (1MPa)
1950 00401095	-STP1 -95	3.740	1.496	1.750	1.4	WEN1B- ***	1.299	0.748	#8-12, 1/4, 5/16, 7/16, 1/8SS	
						WE1- ***	0.276	0.748		
1950 00402095	CAT40 -STP2 -95	3.740	2.165	1.850	1.6	STC2- ***	1.378	1.417	M8 - M20 PT1/8,PT1/4,PT3/8 1/4-3/4, 1/8SS, 1/8LS, 1/4P	72.5psi (0.5MPa)
1950 00402115	-STP2 -115	4.528	2.165	1.750	1.9	WEN2B- ***	2.323	1.181		
						WE2- ***	0.433	1.181		
1950 00501110	CAT50 -STP1 -110	4.331	1.496	2.750	3.5	STC1- ***	1.024	1.024	M3 - M12 PT1/8	145psi (1MPa)
						WEN1B- ***	1.299	0.748		
						WE1- ***	0.276	0.748		
1950 00502100	CAT50 -STP2 -100	3.937	2.165	2.750	3.6	STC2- ***	1.378	1.417	M8 - M20 PT1/8,PT1/4,PT3/8 1/4-3/4, 1/8SS, 1/8LS, 1/4P	72.5psi (0.5MPa)
1950 00502130	-STP2 -130	5.118	2.165	2.750	4.2	WEN2B- ***	2.323	1.181		
						WE2- ***	0.433	1.181		

Unit : Inch

L6			L6		
STC1	MIN	MAX	STC2	MIN	MAX
M3	0.945 (1.063)	1.142	M8	1.339 (1.496)	1.535
M4	1.024 (1.102)	1.220	M10	1.339 (1.496)	1.535
M5	1.220	1.378	M11	1.239 (1.496)	1.496
M6	1.220	1.378	M12	1.378 (1.535)	1.575
M8	1.260	1.457	M14	1.535	1.732
M10	1.260	1.457	M16	1.614	1.811
M11	1.260	1.457	M17	1.614	1.811
M12	1.299	1.457	M18	1.693	1.890
PT1/8	1.339	1.496	M20	1.693	1.890
			PT1/8	1.142	1.299
			PT1/4	1.142	1.220
			PT3/8	1.299	1.339

Model	Collet Type		Nut	Spanner
	Metric, Inch Thread	Pipe Tap		
STC1- ***	FDC-09	-	HDP-09B	S-1L
	-	ESC10	KDP-1916	
STC2- ***	FDC-16	-	HDP-16B	S-4L
	-	ESC16	KDP-2825	

STP Holder

Ordering Example

CAT40 - STP1 - 95

Shank size Adapter size L1

STC adapter

Ordering Example

STC1 - M10 - ANSI

Size Tap size ANSI,ISO,DIN,JIS

WEN•BILZ Tap Adapter

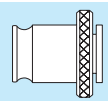
Ordering Example

WEN1B - M10 - ANSI

Size Tap size ANSI,ISO,DIN,JIS

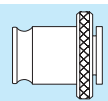
Tap adapter WE

P.458



Tap adapter WEN

P.460



Spanner

P.095

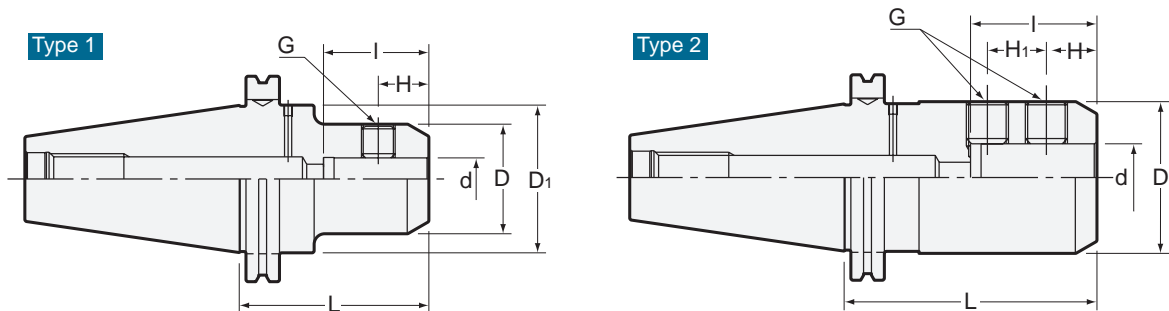


1. STC adapter includes a collet and nut. Spanner is sold separately.
2. When ordering STC Adapter, please specify the tap shank and drive square.
3. With FDC-OH or C collet (p.087-088) and STC Adapter, STP can be used for center-thru coolant.

SLH

Side Lock Holder

● h6 I.D. tolerance



Inch Sizes

Unit : Inch

Code	Model	Type	dH6	D	L	I	H	H1	D1	G	kg
2040 30408065	CAT40 -SLH-0250 -65	1	0.250	0.790	2.559	3.000	0.437	—	1.750	1/4-28 × 1/4	1.1
2040 30408105	-105	1	0.250	0.790	4.134	3.000	0.437	—	1.750	1/4-28 × 1/4	1.1
2040 30410065	CAT40 -SLH-0313 -65	1	0.3125	0.870	2.559	3.000	0.437	—	1.750	5/16-24 × 1/4	1.1
2040 30410105	-105	1	0.3125	0.870	4.134	3.000	0.437	—	1.750	5/16-24 × 1/4	1.1
2040 30412065	CAT40 -SLH-0375 -65	1	0.375	1.000	2.559	3.000	0.710	—	1.750	3/8-24 × 5/16	1.1
2040 30412105	-105	1	0.375	1.000	4.134	3.000	0.710	—	1.750	3/8-24 × 5/16	1.1
2040 30414065	CAT40 -SLH-0438 -65	1	0.4375	1.380	2.559	3.000	0.710	—	1.750	7/16-20 × 3/8	1.2
2040 30414105	-105	1	0.4375	1.380	4.134	3.000	0.710	—	1.750	7/16-20 × 3/8	1.2
2040 30416065	CAT40 -SLH-0500 -65	1	0.500	1.380	2.559	3.000	0.710	—	1.750	7/16-20 × 3/8	1.2
2040 30416105	-105	1	0.500	1.380	4.134	3.000	0.710	—	1.750	7/16-20 × 3/8	1.4
2040 30420065	CAT40 -SLH-0625 -65	1	0.625	1.650	2.559	3.150	0.700	—	1.750	9/16-18 × 1/2	1.2
2040 30420105	-105	1	0.625	1.650	4.134	3.150	0.700	—	1.750	9/16-18 × 1/2	1.6
2040 30424065	CAT40 -SLH-0750 -65	1	0.750	1.750	2.559	3.976	0.740	—	1.750	5/8-18 × 1/2	1.2
2040 30424105	-105	1	0.750	1.750	4.134	3.976	0.740	—	1.750	5/8-18 × 1/2	1.2
2040 30428090	CAT40 -SLH-0875 -90	1	0.875	2.000	3.543	4.331	0.740	—	—	5/8-18 × 1/2	1.5
2040 30428135	-135	1	0.875	2.000	5.315	4.331	0.740	—	—	5/8-18 × 1/2	1.5
2040 30432090	CAT40 -SLH-1000 -90	1	1.000	2.360	3.543	4.843	0.860	—	—	3/4-16 × 11/16	1.8
2040 30432135	-135	1	1.000	2.360	5.315	4.843	0.860	—	—	3/4-16 × 11/16	1.8
2040 30440135	CAT40 -SLH-1250 -135	1	1.250	2.650	5.315	5.315	0.860	—	—	3/4-16 × 11/16	3.1
2040 30440165	-165	1	1.250	2.650	6.496	4.843	0.860	—	—	3/4-16 × 11/16	3.1
2040 30448135	CAT40 -SLH-1500 -135	1	1.500	2.990	5.315	5.315	1.181	—	—	3/4-16 × 11/16	3.6
2040 30448165	-165	1	1.500	2.990	6.496	4.843	1.181	—	—	3/4-16 × 11/16	3.6
2040 30508090	CAT50 -SLH-0250 -90	1	0.250	0.790	3.543	3.000	0.437	—	2.750	1/4-28 × 1/4	3.1
2040 30508135	-135	1	0.250	0.790	5.315	3.000	0.437	—	2.750	1/4-28 × 1/4	3.1
2040 30510090	CAT50 -SLH-0313 -90	1	0.3125	0.870	3.543	3.000	0.437	—	2.750	5/16-24 × 1/4	3.1
2040 30510135	-135	1	0.3125	0.870	5.315	3.000	0.437	—	2.750	5/16-24 × 1/4	3.1
2040 30512090	CAT50 -SLH-0375 -90	1	0.375	1.000	3.543	3.000	0.710	—	2.750	3/8-24 × 5/16	3.1
2040 30512135	-135	1	0.375	1.000	5.315	3.000	0.710	—	2.750	3/8-24 × 5/16	3.3
2040 30514090	CAT50 -SLH-0438 -90	1	0.4375	1.380	3.543	3.000	0.710	—	2.750	7/16-20 × 3/8	3.3
2040 30514135	-135	1	0.4375	1.380	5.315	3.000	0.710	—	2.750	7/16-20 × 3/8	3.3
2040 30516090	CAT50 -SLH-0500 -90	1	0.500	1.380	3.543	3.000	0.710	—	2.750	7/16-20 × 3/8	3.6
2040 30516135	-135	1	0.500	1.380	5.315	3.000	0.710	—	2.750	7/16-20 × 3/8	3.6
2040 30520090	CAT50 -SLH-0625 -90	1	0.625	1.650	3.543	3.150	0.700	—	2.750	9/16-18 × 1/2	3.5
2040 30520135	-135	1	0.625	1.650	5.315	3.150	0.700	—	2.750	9/16-18 × 1/2	3.5
2040 30524090	CAT50 -SLH-0750 -90	1	0.750	1.750	3.543	3.976	0.740	—	2.750	5/8-18 × 1/2	4.0
2040 30524135	-135	1	0.750	1.750	5.315	3.976	0.740	—	2.750	5/8-18 × 1/2	4.0
2040 30528090	CAT50 -SLH-0875 -90	1	0.875	2.000	3.543	4.331	0.740	—	2.750	5/8-18 × 1/2	4.1
2040 30528135	-135	1	0.875	2.000	5.315	4.331	0.740	—	2.750	5/8-18 × 1/2	4.1
2040 30532105	CAT50 -SLH-1000 -105	1	1.000	2.360	4.134	4.843	0.860	—	2.750	3/4-16 × 11/16	5.0
2040 30532150	-150	1	1.000	2.360	5.906	4.843	0.860	—	2.750	3/4-16 × 11/16	5.4
2040 30540105	CAT50 -SLH-1250 -105	1	1.250	2.650	4.134	4.843	0.860	—	2.750	3/4-16 × 11/16	4.2
2040 30540150	-150	1	1.250	2.650	5.906	4.843	0.860	—	2.750	3/4-16 × 11/16	4.4
2040 30548105	CAT50 -SLH-1500 -105	1	1.500	2.990	4.134	4.843	1.181	—	—	3/4-16 × 11/16	4.4
2040 30548150	-150	1	1.500	2.990	5.906	4.843	1.181	—	—	3/4-16 × 11/16	4.4
2040 30564135	CAT50 -SLH-2000 -135	2	2.000	3.740	5.315	4.843	1.260	1.500	—	1-12 × 7/8	6.3
2040 30564165	-165	2	2.000	3.740	6.496	4.843	1.260	1.500	—	1-12 × 7/8	6.3

Ordering Example

CAT40 - SLH - 0250 - 65

Shank size

I.D. (d)

Projection length (L)

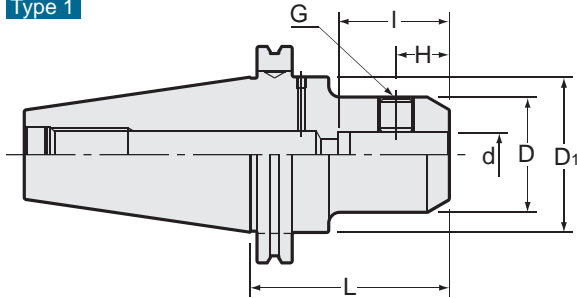
SL2

Side Lock Holder

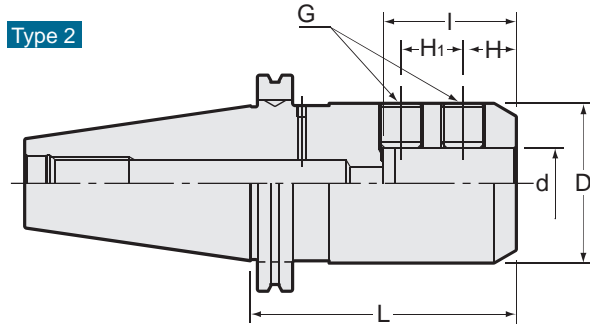
- For JIS straight shank endmill with flat.



Type 1



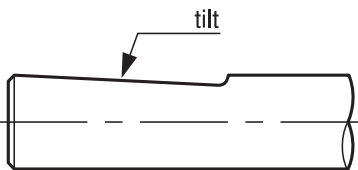
Type 2



Metric Sizes

Unit : Inch

Code	Model	Type	dH6 (mm)	D	D1	L	H	H1	I	G (mm)	kg
2040 20406075	CAT40 SL2 -6 -75	1	6	0.984	1.750	2.953	0.709	—	1.417	M 6	1.1
2040 20408075	CAT40 SL2 -8 -75	1	8	1.102	1.750	2.953	0.709	—	1.417	M 8	1.2
2040 20410075	CAT40 SL2 -10 -75	1	10	1.378	1.750	2.953	0.787	—	1.575	M10	1.3
2040 20412075	CAT40 SL2 -12 -75	1	12	1.654	1.750	2.953	0.886	—	1.772	M12	1.4
2040 20416075	CAT40 SL2 -16 -75	1	16	1.890	1.750	2.953	0.945	—	1.890	M14	1.5
2040 20420075	CAT40 SL2 -20 -75	1	20	2.047	1.750	2.953	0.984	—	1.969	M16	1.5
2040 20425090	CAT40 SL2 -25 -90	2	25	2.559	—	3.543	0.945	0.984	2.205	M18	2.1
2040 20432120	CAT40 SL2 -32 -120	2	32	2.835	—	4.724	0.945	1.102	2.362	M20	3.2
2040 20506090	CAT50 SL2 -6 -90	1	6	0.984	2.750	3.543	0.709	—	1.417	M 6	
2040 20508090	CAT50 SL2 -8 -90	1	8	1.102	2.750	3.543	0.709	—	1.417	M 8	
2040 20510090	CAT50 SL2 -10 -90	1	10	1.378	2.750	3.543	0.787	—	1.575	M10	
2040 20512090	CAT50 SL2 -12 -90	1	12	1.654	2.750	3.543	0.886	—	1.772	M12	
2040 20516090	CAT50 SL2 -16 -90	1	16	1.890	2.750	3.543	0.945	—	1.890	M14	
2040 20520090	CAT50 SL2 -20 -90	1	20	2.047	2.750	3.543	0.984	—	1.969	M16	3.7
2040 20525105	CAT50 SL2 -25 -105	2	25	2.559	—	4.134	0.945	0.984	2.205	M18	4.4
2040 20532120	CAT50 SL2 -32 -120	2	32	2.835	—	4.724	0.945	1.102	2.362	M20	5.1
2040 20540120	CAT50 SL2 -40 -120	2	40	3.150	—	4.724	1.181	1.260	2.756	M20	5.4
2040 20542120	CAT50 SL2 -42 -120	2	42	3.228	—	4.724	1.181	1.260	2.756	M20	5.5



Please contact NT if the cutting tool has tilted flat on the shank.
Special tool holder that matches to the tilted flat can be manufactured.

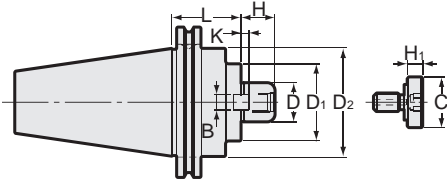
Ordering Example

CAT40 - SL2 - 6 - 75
 Shank size I.D. (d) Projection length (L)

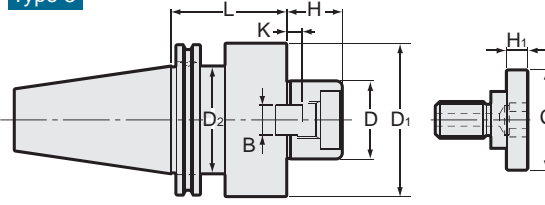
Face Mill Arbor

● For JIS B4113 face mill.

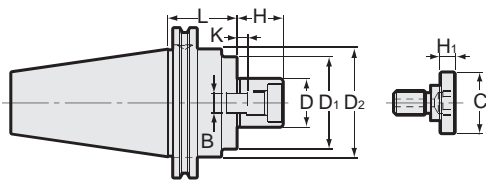
Type 1



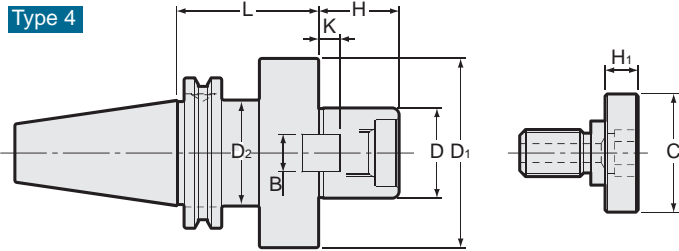
Type 3



Type 2



Type 4



Unit : Inch

Code	Model	Type	Dh6	L	D1	D2	H	B	K	C	H1	kg	Bolt
2050 00419045	CAT40 -FMA19.05 -45	1	0.750	1.772	1.772	1.750	0.630	0.315	0.138	0.874	0.354	1.3	MBA-M10
2050 00419060	-60	1	0.750	2.362	1.772	1.750	0.630	0.315	0.138	0.874	0.354	1.5	MBA-M10
2050 00419090	-90	1	0.750	3.543	1.772	1.750	0.630	0.315	0.138	0.874	0.354	1.8	MBA-M10
2050 00425045	CAT40 -FMA25.4 -45	3	1.000	1.772	1.969	1.750	0.866	0.374	0.197	1.299	0.394	1.4	MBA-M12
2050 00425090	-90	3	1.000	3.543	1.969	1.750	0.866	0.374	0.197	1.299	0.394	2.1	MBA-M12
2050 00431060	CAT40 -FMA31.75 -60	3	1.250	2.362	2.362	1.750	1.181	0.500	0.276	1.575	0.394	1.8	MBA-M16
2050 00431075	-75	3	1.250	2.953	2.362	1.750	1.181	0.500	0.276	1.575	0.394	2.1	MBA-M16
2050 00438060	CAT40 -FMA38.1 -60	4	1.500	2.362	3.150	1.750	1.339	0.626	0.354	1.969	0.551	2.5	MBA-M20
2050 00438090	-90	4	1.500	3.543	3.150	1.750	1.339	0.626	0.354	1.969	0.551	3.4	MBA-M20
2050 00525045	CAT50 -FMA25.4 -45	1	1.000	1.772	1.969	2.750	0.866	0.374	0.197	1.299	0.394	3.5	MBA-M12
2050 00525090	-90	1	1.000	3.543	1.969	2.750	0.866	0.374	0.197	1.299	0.394	4.2	MBA-M12
2050 00525150	-150	1	1.000	5.906	1.969	2.750	0.866	0.374	0.197	1.299	0.394	5.1	MBA-M12
2050 00531045	CAT50 -FMA31.75 -45	2	1.250	1.772	2.362	2.750	1.181	0.500	0.276	1.575	0.394	3.6	MBA-M16
2050 00531075	-75	2	1.250	2.953	2.362	2.750	1.181	0.500	0.276	1.575	0.394		MBA-M16
2050 00531105	-105	2	1.250	4.134	2.362	2.750	1.181	0.500	0.276	1.575	0.394		MBA-M16
2050 00538045	CAT50 -FMA38.1 -45	2	1.500	1.772	3.150	2.750	1.339	0.626	0.354	1.969	0.551	4.0	MBA-M20
2050 00538075	-75	2	1.500	2.953	3.150	2.750	1.339	0.626	0.354	1.969	0.551	5.2	MBA-M20
2050 00550075	-75	3	2.000	2.953	3.937	2.750	1.417	0.750	0.394	2.559	0.551	6.2	MBA-M24

Clamp bolt is included.

Ordering Example

CAT40 - FMA 19.05 - 45

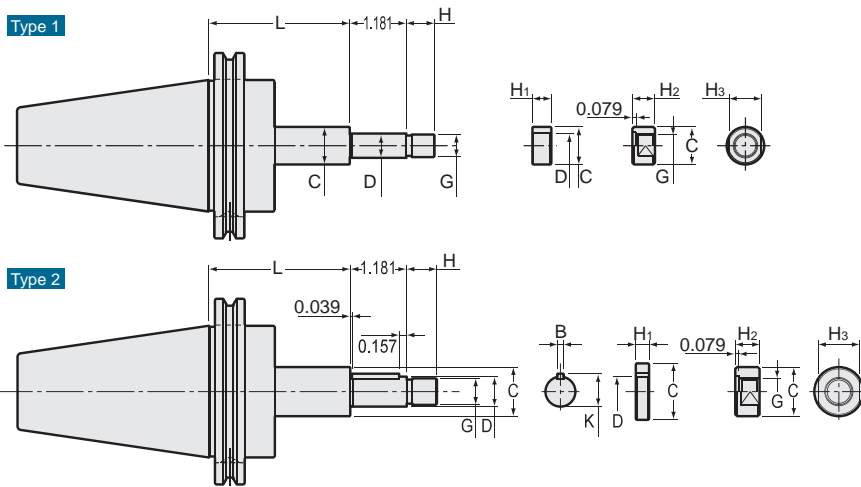
Shank size

D1

Projection length (L)

Side Cutter Arbor

- For JIS side cutter and metal saw.



Inch Sizes

Unit : Inch

Code	Model	Type	$\frac{D}{B10}$ $\frac{h}{6}$	L	C	G (mm)	H	B	K	H1	H2	H3
1900 01412060	CAT40 -SCA12.7 -60	1	0.500	2.362	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
1900 01412090	-90	1	0.500	3.543	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
1900 01415075	CAT40 -SCA15.875 -75	2	0.625	2.953	1.024	M14 × 1.5	0.630	0.125	0.686	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
1900 01415105	-105	2	0.625	4.134	1.024	M14 × 1.5	0.630	0.125	0.686	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
1900 01422075	CAT40 -SCA22.225 -75	2	0.875	2.953	1.339	M20 × 1.5	0.827	0.125	0.938	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
1900 01422105	-120	2	0.875	4.724	1.339	M20 × 1.5	0.827	0.125	0.938	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
1900 01425075	CAT40 -SCA25.4 -75	2	1.000	2.953	1.575	M24 × 2	0.984	0.250	1.094	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
1900 01425120	-120	2	1.000	4.724	1.575	M24 × 2	0.984	0.250	1.094	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
1900 01431090	CAT40 -SCA31.75 -90	2	1.250	3.543	1.811	M30 × 2	1.181	0.312	1.375	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
1900 01512075	CAT50 -SCA12.7 -75	1	0.500	2.953	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
1900 01512105	-105	1	0.500	4.134	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
1900 01515090	CAT50 -SCA15.875 -90	2	0.625	3.543	1.024	M14 × 1.5	0.630	0.125	0.686	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
1900 01515120	-120	2	0.625	4.724	1.024	M14 × 1.5	0.630	0.125	0.686	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
1900 01522090	CAT50 -SCA22.225 -90	2	0.875	3.543	1.339	M20 × 1.5	0.827	0.125	0.938	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
1900 01522135	-135	2	0.875	5.315	1.339	M20 × 1.5	0.827	0.125	0.938	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
1900 01525090	CAT50 -SCA25.4 -90	2	1.000	3.543	1.575	M24 × 2	0.984	0.250	1.094	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
1900 01525135	-135	2	1.000	5.315	1.575	M24 × 2	0.984	0.250	1.094	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
1900 01531090	CAT50 -SCA31.75 -90	2	1.250	3.543	1.811	M30 × 2	1.181	0.312	1.375	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
1900 01531135	-135	2	1.250	5.314	1.811	M30 × 2	1.181	0.312	1.375	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
1900 01538090	CAT50 -SCA38.1 -90	2	1.500	3.543	2.165	M36 × 3	1.417	0.375	1.656	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.220	1.811 (46mm)
1900 01538135	-135	2	1.500	5.315	2.165	M36 × 3	1.417	0.375	1.656	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.220	1.811 (46mm)

One clamp nut and spacers (size 0.118, 0.197, 0.276, 0.315, 0.394, 0.472 / one each) are included.

Ordering Example

CAT40 - SCA 12.7 - 60

Shank size

D1

Projection length (L)

Metric Sizes											Unit : Inch	
Code	Model	Type	D ($\frac{B10}{h6}$)	L	C	G (mm)	H	B	K	H1	H2	H3
01900000413060	CAT40 -SCA13 -60	1	13	2.362	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
01900000413090	-90	1	13	3.543	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
01900000416075	CAT40 -SCA16 -75	2	16	2.953	1.024	M14 × 1.5	0.630	0.157	0.677	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
01900000416105	-105	2	16	4.134	1.024	M14 × 1.5	0.630	0.157	0.677	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
01900000422075	CAT40 -SCA22 -75	2	22	2.953	1.339	M20 × 1.5	0.827	0.236	0.929	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
01900000422120	-120	2	22	4.724	1.339	M20 × 1.5	0.827	0.236	0.929	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
01900000427075	CAT40 -SCA27 -75	2	27	2.953	1.575	M24 × 2	0.984	0.276	1.142	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
01900000427120	-120	2	27	4.724	1.575	M24 × 2	0.984	0.276	1.142	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
01900000432090	CAT40 -SCA32 -90	2	32	3.543	1.811	M30 × 2	1.181	0.315	1.339	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
01900000513075	CAT50 -SCA13 -75	1	13	2.953	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
01900000513105	-105	1	13	4.134	0.787	M12 × 1.25	0.591	—	—	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.472	0.669 (17mm)
01900000516090	CAT50 -SCA16 -90	2	16	3.543	1.024	M14 × 1.5	0.630	0.157	0.677	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
01900000516120	-120	2	16	4.724	1.024	M14 × 1.5	0.630	0.157	0.677	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.512	0.866 (22mm)
01900000522090	CAT50 -SCA22 -90	2	22	3.543	1.339	M20 × 1.5	0.827	0.236	0.929	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
01900000522135	-135	2	22	5.315	1.339	M20 × 1.5	0.827	0.236	0.929	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.709	1.181 (30mm)
01900000527090	CAT50 -SCA27 -90	2	27	3.543	1.575	M24 × 2	0.984	0.276	1.142	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
01900000527135	-135	2	27	5.315	1.575	M24 × 2	0.984	0.276	1.142	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	0.827	1.260 (32mm)
01900000532090	CAT50 -SCA32 -90	2	32	3.543	1.811	M30 × 2	1.181	0.315	1.339	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
01900000532135	-135	2	32	5.314	1.811	M30 × 2	1.181	0.315	1.339	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.024	1.614 (41mm)
01900000540090	CAT50 -SCA40 -90	2	40	3.543	2.165	M36 × 3	1.417	0.394	1.673	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.220	1.811 (46mm)
01900000540135	-135	2	40	5.315	2.165	M36 × 3	1.417	0.394	1.673	0.118, 0.197, 0.276, 0.315, 0.394, 0.472	1.220	1.811 (46mm)

One clamp nut and spacers (size 0.118, 0.197, 0.276, 0.315, 0.394, 0.472 / one each) are included.

Ordering Example

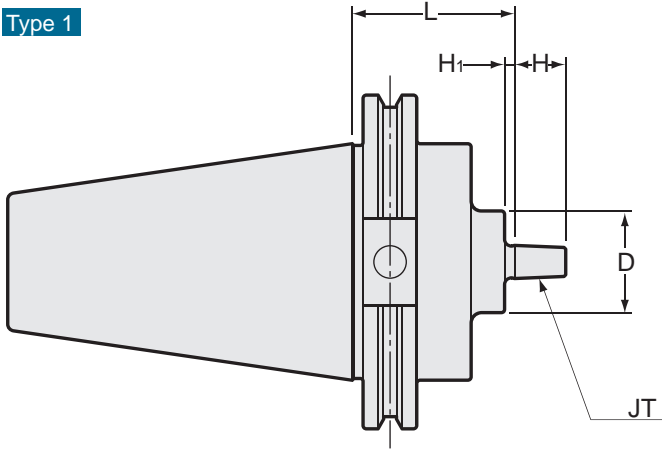
CAT40 - SCA 13 - 60
 Shank size D1 Projection length (L)

JTA

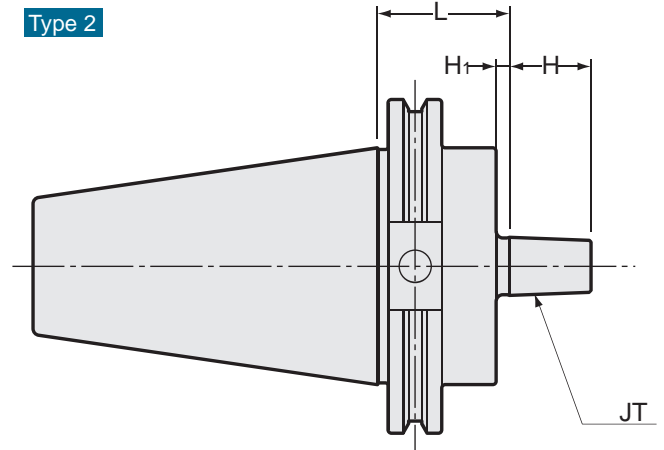
Jacobs Taper Arbor

- Arbor for Jacobs taper keyless chuck.

Type 1



Type 2



Unit : Inch

Code	Model	Type	JT	L	D	H	H1
1920 00402045	CAT40 -JTA 2 -45	1	2	1.772	1.181	0.787	0.157
1920 00433045	CAT40 -JTA33 -45	1	33	1.772	1.181	0.945	0.157
1920 00406045	CAT40 -JTA 6 -45	1	6	1.772	1.181	0.945	0.157
1920 00403045	CAT40 -JTA 3 -45	1	3	1.772	1.378	1.102	0.197
1920 00502045	CAT50 -JTA 2 -45	1	2	1.772	1.181	0.787	0.157
1920 00533045	CAT50 -JTA33 -45	1	33	1.772	1.181	0.945	0.157
1920 00506045	CAT50 -JTA 6 -45	1	6	1.772	1.181	0.945	0.157
1920 00503045	CAT50 -JTA 3 -45	2	3	1.772	—	1.102	0.276

Ordering Example

CAT40 - JTA2 - 45

Shank size

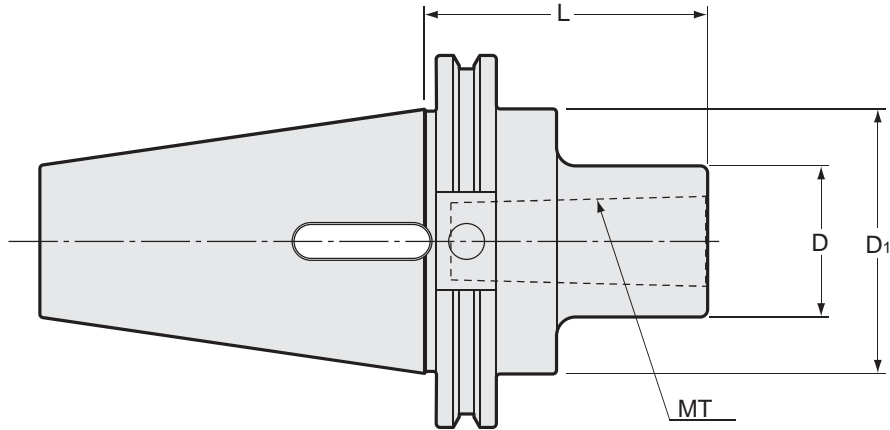
JT

Projection length (L)

- BT
- CAT
- AHO
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Milling Chuck
- Collet Holder
- "R" Zero Holder
- Hydraulic Chuck
- Shrink Fit
- Tapping Chuck
- Arbors
- Function Holder
- Retention Stud
- Tool Shank Dimensions

Morse Taper Holder

- For Morse taper shank with tang.



Unit : Inch

Code	Model	MT	L	D	D1	kg
1930 00401045	CAT40 MTA1 -45	1	1.770	1.000	1.750	
1930 00402060	CAT40 MTA2 -60	2	2.360	1.260	1.750	
1930 00403075	CAT40 MTA3 -75	3	3.000	1.570	1.750	
1930 00404090	CAT40 MTA4 -90	4	3.540	1.970	1.750	
1930 00502060	CAT50 MTA2 -60	2	2.360	1.260	2.750	3.1
1930 00503075	CAT50 MTA3 -75	3	3.000	1.570	2.750	3.2
1930 00504090	CAT50 MTA4 -90	4	3.540	1.970	2.750	3.3
1930 00505105	CAT50 MTA5 -105	5	4.130	2.760	2.750	

Ordering Example

CAT40 - MTA1 - 45

Shank size

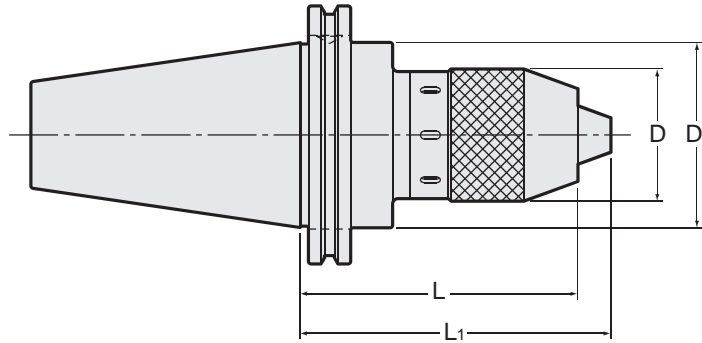
MT

Projection length (L)

KLD

Keyless Drill Chuck

- Integral shank design allows the use of a spanner wrench providing up to 4 times more gripping force than conventional Jacobs taper drill chucks.
- Integral shank design eliminates separation of the chuck from the arbor.
- Increased gripping force minimizes drill breakage after material penetration.
- Integral shank design provides improved accuracy.



Unit : Inch

Code	Model	Chucking Dia.	D	D1	L	L1	kg	Spanner
2060 00413105	CAT40 -KLD13 -105	0.020 - 0.512	1.969	1.750	4.134	4.606	1.8	FC13LC
2060 00465105	-KLD6.5 -105	0.020 - 0.256	1.339	1.750	4.134	4.606	1.4	FC6.5LC
2060 00565105	CAT50 -KLD6.5 -105	0.020 - 0.256	1.339	2.750	4.134	4.606		FC6.5LC
2060 00513105	-KLD13 -105	0.020 - 0.512	1.969	2.750	4.134	4.606	3.9	FC13LC
2060 00513165	-KLD13 -135	0.020 - 0.512	1.969	2.750	5.315	5.787		FC13LC

Spanner (option)

Model	Code
FC6.5LC	2685 00000065
FC13LC	2685 00000130

Ordering Example

CAT40 - KLD13 - 105

Shank size

Max. chucking
dia.

Projection
length (L)

BT

CAT

AHO

HSK-A/E/F/C

HSK-T

UTS

Specialized

Machine

Related

Equipment

Bush &

Chamfering

Drill

Milling Chuck

Collet Holder

"R"-Zero Holder

Hydraulic Chuck

Shrink Fit

Tapping Chuck

Arbors

Function Holder

Retention Stud

Tool Shank

Dimensions

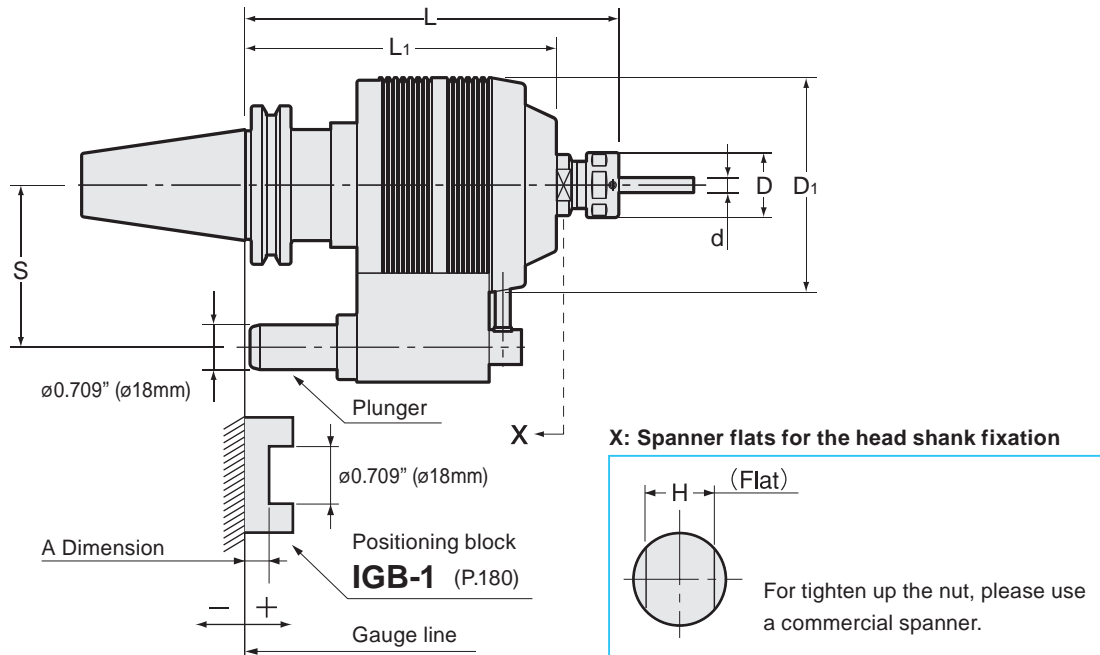
HP-H

High-speed type

30,000min⁻¹

Hyper Spindle (Speed In creaser)

- Enables high speed cutting operation by multiplying the machine spindle speed at the cutting edge. (Max30000min⁻¹)



Unit : Inch

Code	Model	d	L	L1	D	D1	S	H	Gear ratio	MAX rpm	kg	Nut
2070 1 ※ 407150	CAT40 -HP07H -150 -※	0.020 - 0.276	5.906	4.921	0.906	3.386	2.559 (65mm)	0.630 (16mm)	5:1	30,000	3.3	HDP-07A
2070 1 ※ 407180	-180 -※	0.020 - 0.276	7.087	4.921	0.906	3.386	2.559 (65mm)	0.630 (16mm)	5:1	30,000		HDP-07A
2070 1 ※ 409150	CAT40 -HP09H -150 -※	0.098 - 0.354	5.906	4.921	1.024	3.386	2.559 (65mm)	0.827 (21mm)	5:1	30,000		HDP-09
2070 1 ※ 409180	-180 -※	0.098 - 0.354	7.087	4.921	1.024	3.386	2.559 (65mm)	0.827 (21mm)	5:1	30,000		HDP-09
2070 1 ※ 412165	CAT40 -HP12H -165 -※	0.098 - 0.472	6.496	4.921	1.260	3.386	2.559 (65mm)	0.827 (21mm)	5:1	30,000		HDP-12
2070 1 ※ 412180	-180 -※	0.098 - 0.472	7.087	4.921	1.260	3.386	2.559 (65mm)	0.827 (21mm)	5:1	30,000		HDP-12
2070 1 ※ 507150	CAT50 -HP07H -150 -※	0.020 - 0.276	5.906	4.921	0.906	3.386	3.150 (80mm)	0.630 (16mm)	5:1	30,000		HDP-07A
2070 1 ※ 507180	-180 -※	0.020 - 0.276	7.087	4.921	0.906	3.386	3.150 (80mm)	0.630 (16mm)	5:1	30,000		HDP-07A
2070 1 ※ 509150	CAT50 -HP09H -150 -※	0.098 - 0.354	5.906	4.921	1.024	3.386	3.150 (80mm)	0.827 (21mm)	5:1	30,000		HDP-09
2070 1 ※ 509180	-180 -※	0.098 - 0.354	7.087	4.921	1.024	3.386	3.150 (80mm)	0.827 (21mm)	5:1	30,000		HDP-09
2070 1 ※ 512165	CAT50 -HP12H -165 -※	0.098 - 0.472	6.496	4.921	1.260	3.386	3.150 (80mm)	0.827 (21mm)	5:1	30,000		HDP-12
2070 1 ※ 512180	-180 -※	0.098 - 0.472	7.087	4.921	1.260	3.386	3.150 (80mm)	0.827 (21mm)	5:1	30,000		HDP-12

Collet	Spanner	Plunger No.					
		No.1	No.2	No.3	No.4	No.5	
P.086-089	P.095	All Type	A +0.594 ~ +0.945	A +0.240 ~ +0.591	A -0.114 ~ +0.236	A -0.469 ~ -0.118	A -0.823 ~ -0.472

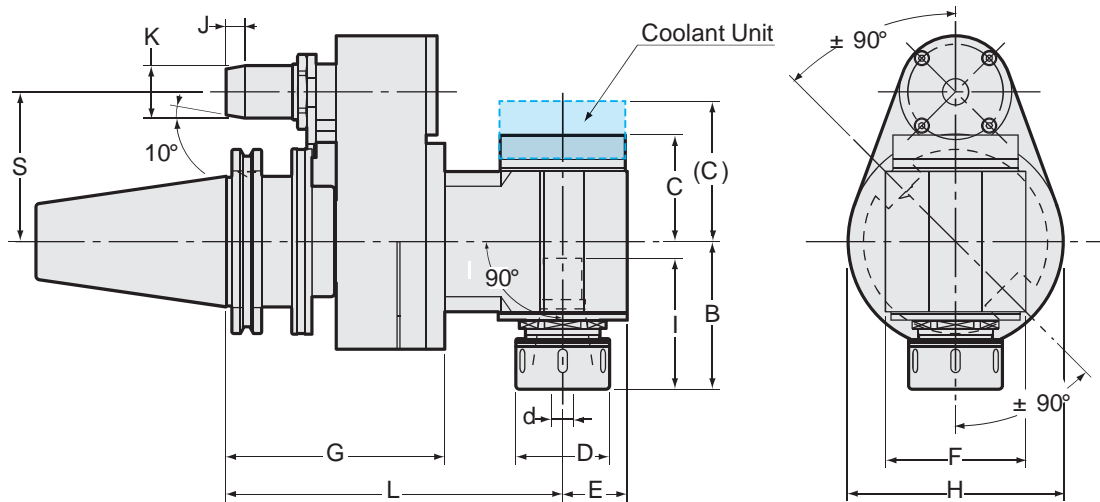
1. When ordering, please specify the plunger number (No.1~No.5).
2. Plunger is adjustable. Please refer to a chart on the right.
3. Collet and spanner are sold separately.
4. Use AA class collet only.

Ordering Example

CAT40 - HP 07 H - 150 - 1
 Shank size Max. collet I.D. Projection length (L) Plunger No.

Angle Heads (ER Collet Type)

90° Fixed Type



※ Requires a positioning block. Please refer to P.179-180.

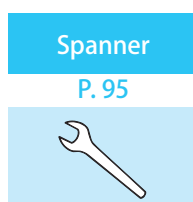
Unit : Inch

Code	Model	d	L	G	E	D	F	H	C (C)	B	I	J	K	S
2090 241166 ※※	CAT40 -AHE1190 -165 -65- ※※	0.020 -0.276	6.496	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241196 ※※	-195 -65- ※※	0.020 -0.276	7.677	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241126 ※※	-225 -65- ※※	0.020 -0.276	8.858	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241156 ※※	-255 -65- ※※	0.020 -0.276	10.039	5.315	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241186 ※※	-285 -65- ※※	0.020 -0.276	11.220	5.315	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241666 ※※	CAT40 -AHE1690 -165 -65- ※※	0.020 -0.394	6.496	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241696 ※※	-195 -65- ※※	0.020 -0.394	7.677	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241626 ※※	-225 -65- ※※	0.020 -0.394	8.858	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 241656 ※※	-255 -65- ※※	0.020 -0.394	10.039	5.315	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242066 ※※	CAT40 -AHE2090 -165 -65- ※※	0.020 -0.512	6.496	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242096 ※※	-195 -65- ※※	0.020 -0.512	7.677	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242026 ※※	-225 -65- ※※	0.020 -0.512	8.858	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242566 ※※	CAT40 -AHE2590 -165 -65- ※※	0.020 -0.630	6.496	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242596 ※※	-195 -65- ※※	0.020 -0.630	7.677	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)
2090 242526 ※※	-225 -65- ※※	0.020 -0.630	8.858	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.315	0.772 (19.6mm)	2.559 (65mm)

Code	Model	d	L	G	E	D	F	H	C (C)	B	I	J	K	S
2090 251168 ※※	CAT50 -AHE1190 -165 -80- ※※	0.020 -0.276	6.496	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.394	1.102 (28mm)	3.150 (80mm)
2090 251198 ※※	-195 -80- ※※	0.020 -0.276	7.677	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.394	1.102 (28mm)	3.150 (80mm)
2090 251128 ※※	-225 -80- ※※	0.020 -0.276	8.858	4.646	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.394	1.102 (28mm)	3.150 (80mm)
2090 251158 ※※	-255 -80- ※※	0.020 -0.276	10.039	5.315	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.394	1.102 (28mm)	3.150 (80mm)
2090 251188 ※※	-285 -80- ※※	0.020 -0.276	11.220	5.315	0.669	0.906	2.008	3.543	1.299 (1.830)	1.693	1.575	0.394	1.102 (28mm)	3.150 (80mm)
2090 251668 ※※	CAT50 -AHE1690 -165 -80- ※※	0.020 -0.394	6.496	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.394	1.102 (28mm)	3.150 (80mm)
2090 251698 ※※	-195 -80- ※※	0.020 -0.394	7.677	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.394	1.102 (28mm)	3.150 (80mm)
2090 251628 ※※	-225 -80- ※※	0.020 -0.394	8.858	4.646	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.394	1.102 (28mm)	3.150 (80mm)
2090 251658 ※※	-255 -80- ※※	0.020 -0.394	10.039	5.315	0.866	1.260	2.283	3.543	1.752 (2.303)	2.441	2.559	0.394	1.102 (28mm)	3.150 (80mm)
2090 252068 ※※	CAT50 -AHE2090 -165 -80- ※※	0.020 -0.512	6.496	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 252098 ※※	-195 -80- ※※	0.020 -0.512	7.677	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 252028 ※※	-225 -80- ※※	0.020 -0.512	8.858	4.646	1.102	1.378	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 252568 ※※	CAT50 -AHE2590 -165 -80- ※※	0.020 -0.630	6.496	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 252598 ※※	-195 -80- ※※	0.020 -0.630	7.677	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 252528 ※※	-225 -80- ※※	0.020 -0.630	8.858	4.646	1.102	1.654	2.638	3.543	2.008 (2.539)	2.717	2.717	0.394	1.102 (28mm)	3.150 (80mm)
2090 253288 ※※	CAT50 -AHE3290 -180 -80- ※※	0.098 -0.787	7.087	4.606	1.358	1.969	2.953	4.528	2.244 (2.776)	3.110	2.953	0.394	1.102 (28mm)	3.150 (80mm)
2090 253218 ※※	-210 -80- ※※	0.098 -0.787	8.268	4.606	1.358	1.969	2.953	4.528	2.244 (2.776)	3.110	2.953	0.394	1.102 (28mm)	3.150 (80mm)
2090 253248 ※※	-240 -80- ※※	0.098 -0.787	9.449	4.606	1.358	1.969	2.953	4.528	2.244 (2.776)	3.110	2.953	0.394	1.102 (28mm)	3.150 (80mm)
2090 254098 ※※	CAT50 -AHE4090 -195 -80- ※※	0.118 -1.024	7.677	4.606	1.772	2.480	3.543	4.528	2.874 (3.406)	3.740	3.937	0.394	1.102 (28mm)	3.150 (80mm)
2090 254091 ※※	-195 -110- ※※	0.118 -1.024	7.677	4.606	1.772	2.480	3.543	4.528	2.874 (3.406)	3.740	3.937	0.394	1.102 (28mm)	4.331 (110mm)

- ※ is for A dimension. Please refer to P. 179.
- When ordering, please specify plunger size ("A" dimension).
- Center-thru coolant types are produced upon request.
- Plunger is fixed (non-adjustable)
- Collet and spanner are sold separately.

Size	Collet	Nut	Spanner
AHE1190	ER11	HDP-07A	S-0
AHE1690	ER16	ERP-16	FK0030
AHE2090	ER20	ERP-20	FK0034
AHE2590	ER25	ERP-25	HS-1-16
AHE3290	ER32	ERP-32	HS-2-20
AHE4090	ER40	ERP-40	HS-2.5-25



Ordering Example

CAT40 - AH 11 90 - 165 - 65 - 06

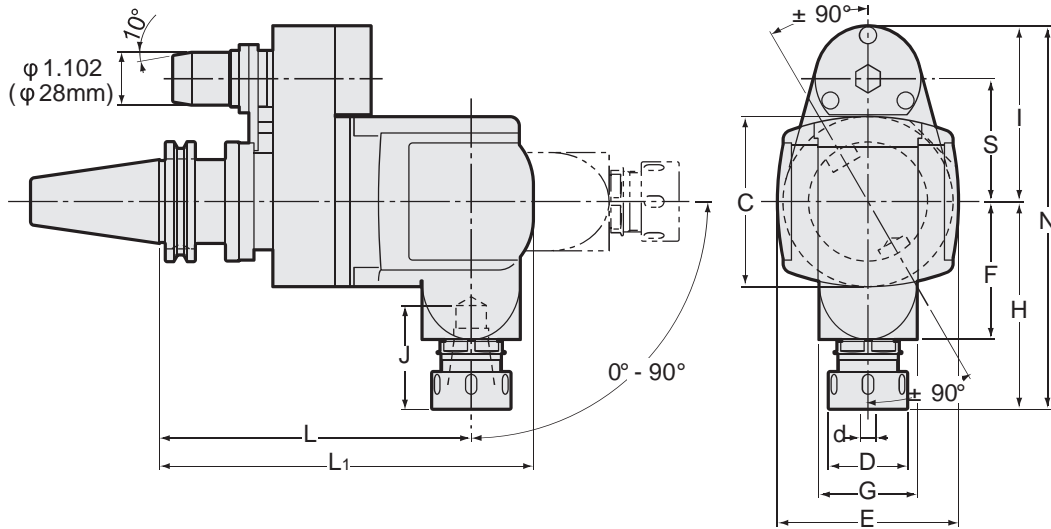
Shank size Max. Angle Projection S Dimension
collet I.D. collet I.D. length (L) A

AHSE, AHLE

0-90° (Flexible Type)

Angle Heads (ER Collet Type)

0 - 90° Flexible Type



※ Requires a positioning block. Please refer to P.179-180.

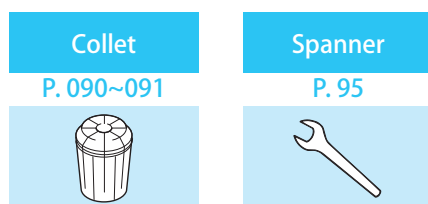
Unit : Inch

Code	Model	d	L	L1	D	C	E	F	G	H	J	I	N	S
2084 041166 ※※	CAT40 -AHSE11 -165 -65- ※※	0.020 -0.276	6.496	7.795	0.906	3.543	3.780	2.874	2.047	3.937	2.559	3.661	7.598	2.559 (65mm)
2084 041666 ※※	CAT40 -AHSE16 -165 -65- ※※	0.020 -0.394	6.496	7.795	1.260	3.543	3.780	2.874	2.047	4.331	2.559	3.661	7.992	2.559 (65mm)
2084 042066 ※※	CAT40 -AHSE20 -165 -65- ※※	0.020 -0.512	6.496	7.795	1.378	3.543	3.780	2.874	2.047	4.331	2.165	3.661	7.992	2.559 (65mm)
2084 042566 ※※	CAT40 -AHSE25 -165 -65- ※※	0.020 -0.630	6.496	7.795	1.654	3.543	3.780	2.874	2.047	4.331	2.165	3.661	7.992	2.559 (65mm)
2084 051168 ※※	CAT50 -AHSE11 -165 -80- ※※	0.020 -0.276	6.496	7.795	0.906	3.543	3.780	2.874	2.047	3.937	2.559	4.252	8.189	3.150 (80mm)
2084 051668 ※※	CAT50 -AHSE16 -165 -80- ※※	0.020 -0.394	6.496	7.795	1.260	3.543	3.780	2.874	2.047	4.331	2.559	4.252	8.583	3.150 (80mm)
2084 052068 ※※	CAT50 -AHSE20 -165 -80- ※※	0.020 -0.512	6.496	7.795	1.378	3.543	3.780	2.874	2.047	4.331	2.165	4.252	8.583	3.150 (80mm)
2084 052568 ※※	CAT50 -AHSE25 -165 -80- ※※	0.020 -0.630	6.496	7.795	1.654	3.543	3.780	2.874	2.047	4.331	2.165	4.252	8.583	3.150 (80mm)
2084 051161 ※※	CAT50 -AHSE11 -165 -110- ※※	0.020 -0.276	6.496	7.795	0.906	3.543	3.780	2.874	2.047	3.937	2.559	5.433	9.370	4.331 (110mm)
2084 051661 ※※	CAT50 -AHSE16 -165 -110- ※※	0.020 -0.394	6.496	7.795	1.260	3.543	3.780	2.874	2.047	4.331	2.559	5.433	9.764	4.331 (110mm)
2084 052061 ※※	CAT50 -AHSE20 -165 -110- ※※	0.020 -0.512	6.496	7.795	1.378	3.543	3.780	2.874	2.047	4.331	2.165	5.433	9.764	4.331 (110mm)
2084 052561 ※※	CAT50 -AHSE25 -165 -110- ※※	0.020 -0.630	6.496	7.795	1.654	3.543	3.780	2.874	2.047	4.331	2.165	5.433	9.764	4.331 (110mm)

Code	Model	d	L	L1	D	C	E	F	G	H	J	I	N	S
2084 152068 ※※	CAT50 -AHLE20 -165 -80- ※※	0.020 -0.512	6.496	8.071	1.378	4.331	4.646	3.071	2.598	4.724	2.953	4.252	8.976	3.150 (80mm)
2084 152568 ※※	CAT50 -AHLE25 -165 -80- ※※	0.020 -0.630	6.496	8.071	1.654	4.331	4.646	3.071	2.598	4.724	2.953	4.252	8.976	3.150 (80mm)
2084 153268 ※※	CAT50 -AHLE32 -165 -80- ※※	0.098 -0.787	6.496	8.071	1.969	4.331	4.646	3.071	2.598	4.724	2.953	4.252	8.976	3.150 (80mm)
2084 152061 ※※	CAT50 -AHLE20 -165 -110- ※※	0.020 -0.512	6.496	8.071	1.378	4.331	4.646	3.071	2.598	4.724	2.953	5.433	10.157	4.331 (110mm)
2084 152561 ※※	CAT50 -AHLE25 -165 -110- ※※	0.020 -0.630	6.496	8.071	1.654	4.331	4.646	3.071	2.598	4.724	2.953	5.433	10.157	4.331 (110mm)
2084 153261 ※※	CAT50 -AHLE32 -165 -110- ※※	0.098 -0.787	6.496	8.071	1.969	4.331	4.646	3.071	2.598	4.724	2.953	5.433	10.157	4.331 (110mm)

Size	Collet	Nut	Spanner
AHSE11	ER11	HDP-07A	S-0
AHSE16	ER16	ERP-16	FK0030
AHSE20	ER20	ERP-20	FK0034
AHSE25	ER25	ERP-25	HS-1-16
AHLE20	ER20	ERP-20	FK0034
AHLE25	ER25	ERP-25	HS-1-16
AHLE32	ER32	ERP-32	HS-2-20

- ※ is for A dimension. Please refer to P. 179.
- When ordering, please specify plunger size ("A" dimension).
- Center-thru coolant types are produced upon request.
- Plunger is fixed (non-adjustable)
- Collet and spanner are sold separately.



Ordering Example

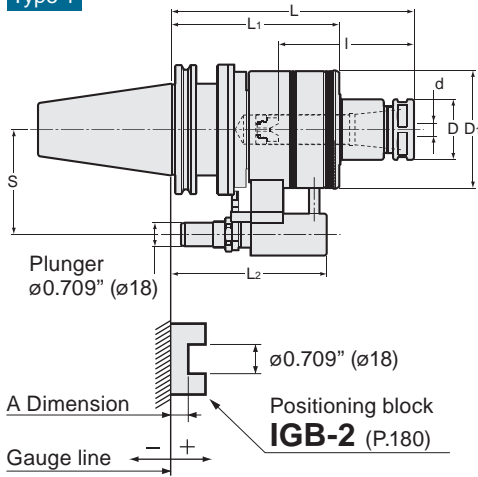
CAT40 - AHSE 11 - 165 - 65 - 06

Shank size Max. collet I.D. Projection length (L) S Dimension A

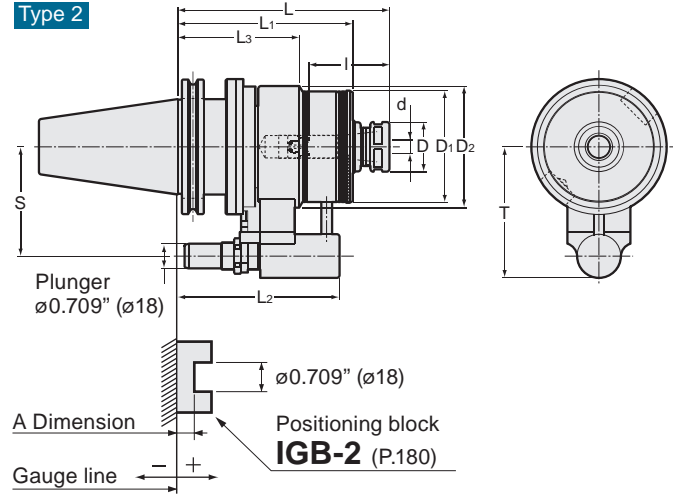
HDC·A-CS

Collet type Coolant Inducer

Type 1



Type 2






Unit:Inch

Code	Model	Type	d	L	B	I	L1	L2	L3	D	D1	D2	T	S	MAX _{min} ⁻¹	Max. Coolant	Seal Unit
1890 8416150 ※	CAT40 -HDC16A -150CS- ※	2	0.236 -0.630	5.910	0.0 -0.236	1.496 -2.559	5.079	4.704	3.543	1.417	3.228	3.504	3.189	2.559 (65mm)	6,000	2MPa	CS-2
1890 8422165 ※	CAT40 -HDC22A -165CS- ※	1	0.236 -0.866	6.500	0.0 -0.315	1.860 -4.055	5.079	4.704	—	1.811	3.543	—	3.189	2.559 (65mm)	5,000	2MPa	CS-3
1890 8516155 ※	CAT50 -HDC16A -155CS- ※	2	0.236 -1.630	6.100	0.0 -0.236	1.496 -2.559	5.039	4.665	3.504	1.417	3.228	3.504	3.780	3.150 (80mm)	6,000	2MPa	CS-2
1890 8522185 ※	CAT50 -HDC22A -185CS- ※	1	0.236 -0.866	7.280	0.0 -0.315	1.860 -4.055	5.039	4.665	—	1.811	3.543	—	3.780	3.150 (80mm)	5,000	2MPa	CS-3

Type	Plunger No.					
	No.1	No.2	No.3	No.4	No.5	
CAT40	HDC-A	A	A	A	A	
		+1.299" ~ +0.909" (+33mm ~ +23.1mm)	+0.906" ~ +0.516" (+23mm ~ +13.1mm)	+0.512" ~ +0.122" (+13mm ~ +3.1mm)	+0.118" ~ -0.272" (+3mm ~ -6.9mm)	-0.276" ~ -0.665" (-7mm ~ -16.9mm)
CAT50	HDC-A	A	A	A	A	
		+1.417" ~ +1.027" (+36mm ~ +26.1mm)	+1.023" ~ +0.633" (+26mm ~ +16.1mm)	+0.629" ~ +0.240" (+16mm ~ +6.1mm)	+0.236" ~ -0.153" (+6mm ~ -3.9mm)	-0.157" ~ -0.547" (-4mm ~ -13.9mm)

Model	Nut	Collet	Spanner
HDC16A	HDP-16	FDC-16-OH,-C	S-4L
HDC22A	HDC-22	FDC-22-OH,-C	S-5L

Seal unit	Collet	Spanner
P. 178	P. 087-088	P. 095
		

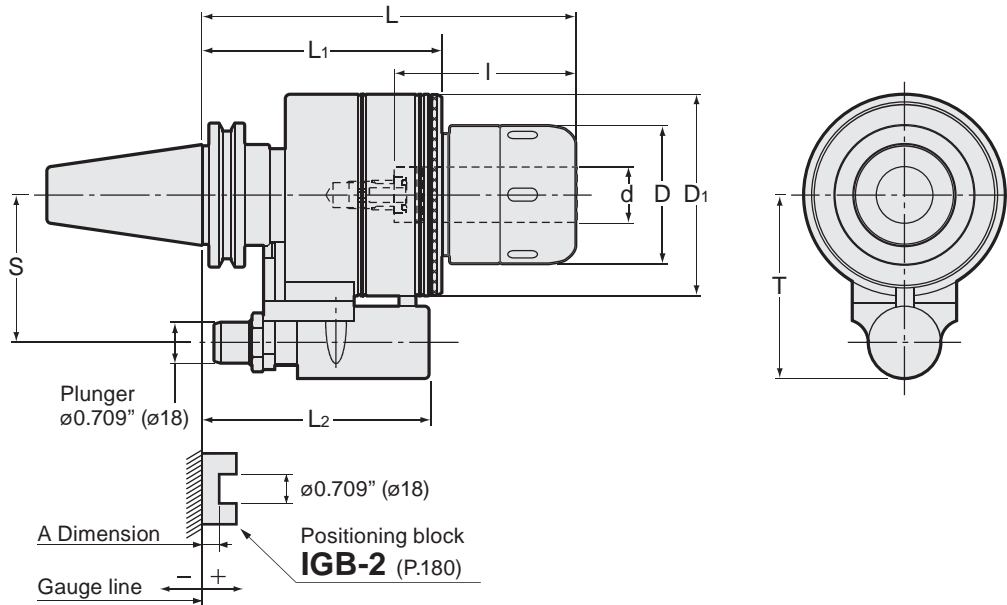
- Coolant collet and spanner are sold separately.
- When ordering, please specify the plunger number(No.1~No.5).
- Plunger is adjustable. Please refer to a chart on the right.
- Refer to P. 092 for minimum tool insertion length in case of using our coolant collets (OH,C).
- Ø1 dimensions in brackets are for using preset screw.
- Seal unit can be replaced by customer.

Ordering Example

CAT40 - HDC 07 A - 165 CS - 1
 Shank size Max. collet I.D. Projection length (L) Plunger No.

CT·S-CS

Super Tite-Lock Milling Chuck type Coolant Inducer



Inch Sizes

Unit : Inch

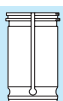
Code	Model			d	L	B	L1	L2	D	D1	D2	T	S	MAX min ⁻¹	Max. Coolant	Seal Unit	kg	Spanner
1890 2424195 ※	CAT40	-CT0750S	-195CS-	0.750	7.677	2.756	4.923	4.549	2.047	3.543	3.504	3.189	2.559 (65mm)	5,000	2MPa	CS-3		HS-2-20
1890 2440195 ※	CAT40	-CT1250S	-195CS-	1.250	7.677	3.150	5.039	4.587	2.874	3.937	-	3.189	2.559 (65mm)	4,000	2MPa	CS-4		HS-3-32
1890 2524200 ※	CAT50	-CT0750S	-200CS-	0.750	7.874	2.756	5.039	4.665	2.047	3.543	3.504	3.780	3.150 (80mm)	5,000	2MPa	CS-3		HS-2-20
1890 2540200 ※	CAT50	-CT1250S	-200CS-	1.250	7.874	3.150	5.118	4.665	2.874	3.937	-	3.780	3.150 (80mm)	4,000	2MPa	CS-4	10.2	HS-3-32

Type		Plunger				
		No.1	No.2	No.3	No.4	No.5
CAT40	CT	A	A	A	A	A
CAT50	CT	+0.909 ~ +1.299	+0.516 ~ +0.906	+0.122 ~ +0.512	-0.271 ~ +0.118	-0.665 ~ -0.276

- When ordering, please specify the plunger number(No.1~No.5).
- Plunger is adjustable. Please refer to a chart on the right.
- Please return your coolant holder to us through your dealer for seal unit replacement.
- When ordering, indicate number of spanners required. "No charge" spanners are limited to number of milling chucks on order.
- Accessories cannot be used except for MC-C and MC-OH.
- Tolerance of cutting tool shank must be h7.

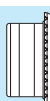
MC-OH.MC-C Collet

P. 66-67



Seal unit

P. 178



Spanner

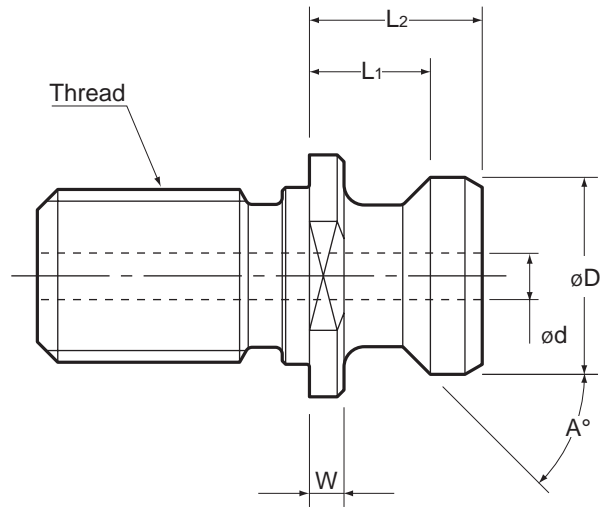
P. 069



Ordering Example

CAT40 - CT 0750 S - 195 CS - 1
 Shank size I.D. (d) Projection length (L) Plunger No.

Retention Studs CT Taper



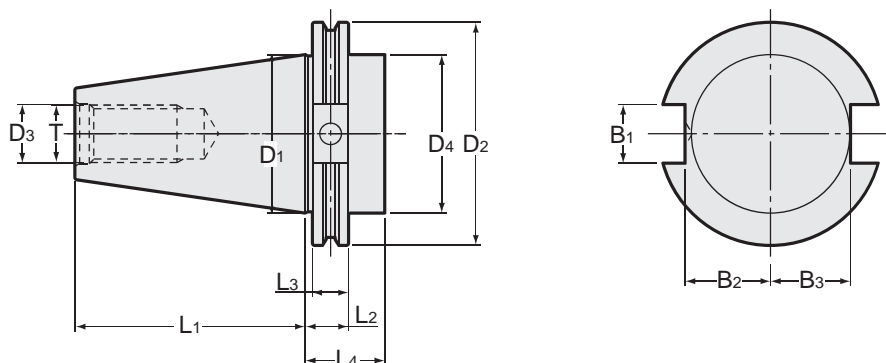
Unit : Inch

Model	D	L1	L2	Angle	W	Thread	d	Shank size	Description
PSC40-1	0.74	0.440	0.64	45°	0.12	5/8"-11	0.275	CAT40	ANSI Standard , With a coolant hole
PSC50-1	1.14	0.700	1.00	45°	0.20	1"-8	0.464	CAT50	ANSI Standard , With a coolant hole

Please check dimensions with your machine spindle specs.

CAT

Tool Shank Dimensions For CAT



Unit : Inch

Model	D1	D2	D3	D4	T	L1	L2	L3	L4	B1	B2	B3
CAT40	1.750	2.500	0.641	1.750	5/8"-11	2.687	0.750	0.625	1.38Min.	0.645	0.985	0.890
CAT50	2.750	3.875	1.031	2.750	1"-8	4.000	0.750	0.625	1.38Min.	1.020	1.485	1.390