



A H O

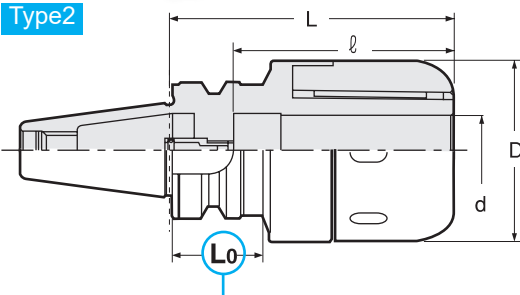
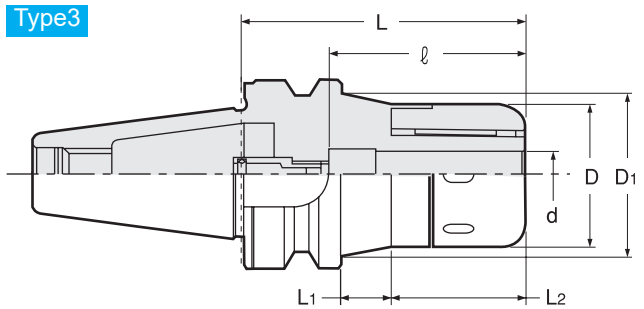
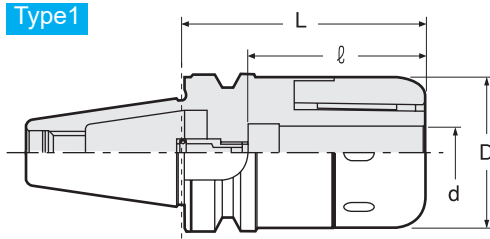
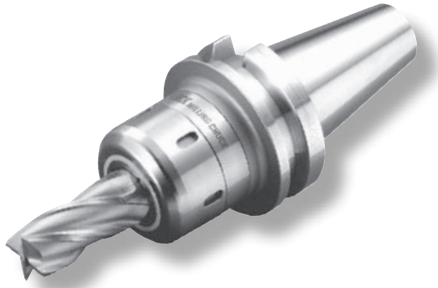
AHO TOOLING SYSTEM

CT·S

Super tite-lock Milling Chuck

※ AHO Retention Stud is required.

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



⚠ Caution

★ :Take caution against A.T.C. arm and tool magazine interference.

Caution

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	Type	d	D	D1	L	L1	L2	ℓ	L0	kg	Stopper Bolt	Spanner
3860 ※ 0010000	NBT-AHO30 or WBT-AHO30 -CT16S -75 * 1	1	16	45	-	75	-	-	55	-	0.9	unable	HS- 1 -16
3860 ※ 0020000	-90	1	16	45	-	90	-	-	70	-	1.0	unable	HS- 1 -16
3860 ※ 0030000	NBT-AHO30 or WBT-AHO30 -CT20S -75 * 4	2	20	52	-	75	-	-	55	★ 27	1.0	unable	HS- 2 -20
3860 ※ 0040000	-90 * 3	2	20	52	-	90	-	-	70	42	1.1	unable	HS- 2 -20
3860 ※ 0050000	-105	2	20	52	-	105	-	-	80	57	1.3	unable	HS- 2 -20
3860 ※ 0060000	NBT-AHO30 or WBT-AHO30 -CT25S -90 * 1	2	25	61	-	90	-	-	70	★ 31	1.4	unable	HS-2.5 -25
3860 ※ 0070000	-105	2	25	61	-	105	-	-	80	44	1.6	unable	HS-2.5 -25
3860 ※ 0440000	NBT-AHO30 or WBT-AHO30 -CT32S -90	2	32	68	-	90	-	-	68	★ 30	1.6	unable	HS- 3 -32
3860 ※ 0080000	NBT-AHO40 or WBT-AHO40 -CT16S -75	1	16	45	-	75	-	-	60	-	1.3	unable	HS- 1 -16
3860 ※ 0090000	-90	1	16	45	-	90	-	-	65	-	1.4	unable	HS- 1 -16
3860 ※ 0100000	NBT-AHO40 or WBT-AHO40 -CT20S -75 * 1	1	20	52	-	75	-	-	60	-	1.4	unable	HS- 2 -20
3860 ※ 0110000	-90	1	20	52	-	90	-	-	75	-	1.6	unable	HS- 2 -20
3860 ※ 0120000	-105	1	20	52	-	105	-	-	80	-	1.8	unable	HS- 2 -20
3860 ※ 0130000	-120	1	20	52	-	120	-	-	80	-	2.1	BL20- ※※	HS- 2 -20
3860 ※ 0140000	NBT-AHO40 or WBT-AHO40 -CT25S -90	1	25	61	-	90	-	-	75	-	1.8	unable	HS-2.5 -25
3860 ※ 0150000	-105	1	25	61	-	105	-	-	80	-	2.2	unable	HS-2.5 -25
3860 ※ 0160000	-120	1	25	61	-	120	-	-	80	-	2.5	BL20- ※※	HS-2.5 -25
3860 ※ 0170000	-135	1	25	61	-	135	-	-	80	-	2.8	BL20- ※※	HS-2.5 -25
3860 ※ 0180000	NBT-AHO40 or WBT-AHO40 -CT32S -90 * 2	2	32	73	-	90	-	-	75	★ 31	2.2	unable	HS- 3 -32
3860 ※ 0190000	-105 * 2	2	32	73	-	105	-	-	85	46	2.5	unable	HS- 3 -32
3860 ※ 0200000	-120 * 2	2	32	73	-	120	-	-	90	61	2.8	unable	HS- 3 -32
3860 ※ 0210000	-135	2	32	73	-	135	-	-	105	76	3.1	BL20- ※※	HS- 3 -32

Metric Sizes

Unit : Metric




Code	Model	Type	d	D	D1	L	L1	L2	ℓ	L0	kg	Stopper Bolt	Spanner
3860 ※ 0220000	NBT-AHO50 or WBT-AHO50 -CT16S -90	3	16	45	58	90	7	45	65	—	3.4	unusable	HS- 1 -16
3860 ※ 0230000		3	16	45	70	105	22	45	65	—	3.7	BL16- * *	
3860 ※ 0240000	NBT-AHO50 or WBT-AHO50 -CT20S -90 * 1	3	20	52	65	90	7	45	65	—	3.5	unusable	HS- 2 -20
3860 ※ 0250000		3	20	52	65	105	7	60	80	—	3.7	BL20- * *	
3860 ※ 0260000		3	20	52	70	120	24	58	80	—	4.1		
3860 ※ 0270000		3	20	52	73	135	39	58	80	—	4.5		
3860 ※ 0280000		NBT-AHO50 or WBT-AHO50 -CT25S -105	3	25	61	82	105	11	56	80	—		
3860 ※ 0290000	3		25	61	82	120	26	56	80	—	4.5	BL20- * *	
3860 ※ 0300000	3		25	61	83	135	41	56	80	—	5.0		
3860 ※ 0310000	3		25	61	86	165	71	56	80	—	6.0		
3860 ※ 0320000	NBT-AHO50 or WBT-AHO50 -CT32S -95 * 2		1	32	73	—	95	—	—	75	—		4.1
3860 ※ 0330000		1	32	73	—	105	—	—	85	—	4.3		
3860 ※ 0340000		3	32	73	87	120	26	56	100	—	4.9		
3860 ※ 0350000		3	32	73	88	135	41	56	105	—	5.5		
3860 ※ 0360000		3	32	73	87	150	56	56	110	—	6.0		
3860 ※ 0370000		3	32	73	86	165	71	56	120	—	6.5		
3860 ※ 0380000		NBT-AHO50 or WBT-AHO50 -CT42S -95 * 4	1	42	88	—	95	—	—	75	—	4.5	unusable
3860 ※ 0390000	1		42	88	—	105	—	—	85	—	4.9		
3860 ※ 0400000	1		42	88	—	120	—	—	100	—	5.5		
3860 ※ 0410000	1		42	88	—	135	—	—	105	—	6.1		
3860 ※ 0420000	1		42	88	—	150	—	—	110	—	6.8		
3860 ※ 0430000	1		42	88	—	165	—	—	120	—	7.4		

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

1. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of milling chucks on order.
2. Tolerance of cutting tool shank must be h7.
3. Straight collet MCA cannot be used.

Accessories

Models with * 1 - * 4 cannot be used with some accessories due to short ℓ length.

	Straight Collet 		Morse Taper Adapter 		Jacobs Adapter 	
	MC (P.066)	MCA (P.067)	MA (P.068)	MAB (P.068)	JA (P.069)	JAB (P.069)
* 1	Yes	No	No	No	No	No
* 2	Yes	No	No	Yes	No	Yes
* 3	Yes	No	Yes	No	Yes	No
* 4	No	No	No	No	No	No

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

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO30 - CT 16 S - 75
AHO Shank size I.D. (d) Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

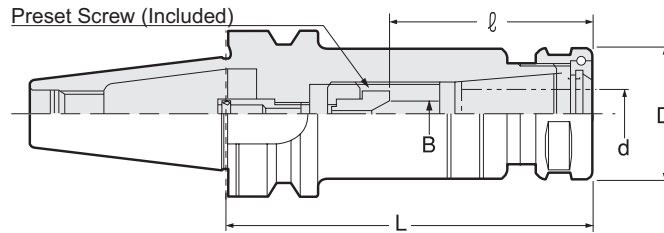
WBT-AHO30 - CT 16 S - 75
AHO Shank size I.D. (d) Projection length (L)

Spanner

P. 069



- Suitable for drilling, reaming and finish endmilling.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric




Code	Model	d	L	ℓ	B	D	Nut	kg	Collet	Spanner
3830 ※ 0640000	NBT-AHO30 or WBT-AHO30 -HDC07A -45	0.5 ~ 7.0	45	26	—	23	HDP-07A		FDC-07	S-0
3830 ※ 0650000	-60	0.5 ~ 7.0	60	22 ~ 23	0 ~ 4	23	HDP-07A			
3830 ※ 0660000	-75	0.5 ~ 7.0	75	22 ~ 38	0 ~ 4	23	HDP-07A	0.5		
3830 ※ 0670000	-90	0.5 ~ 7.0	90	22 ~ 45	0 ~ 4	23	HDP-07A	0.5		
3830 ※ 0680000	-105	0.5 ~ 7.0	105	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0690000	NBT-AHO30 or WBT-AHO30 -HDC09A -60	2.5 ~ 9.0	60	40	—	26	HDP-09		FDC-09	S-1L
3830 ※ 0700000	-75	2.5 ~ 9.0	75	27 ~ 40	0 ~ 4	26	HDP-09	0.5		
3830 ※ 0710000	-90	2.5 ~ 9.0	90	27 ~ 50	0 ~ 4	26	HDP-09	0.6		
3830 ※ 0720000	-105	2.5 ~ 9.0	105	27 ~ 57	0 ~ 4	26	HDP-09	0.6		
3830 ※ 0850000	-120	2.5 ~ 9.0	120	27 ~ 57	0 ~ 4	26	HDP-09	0.7		
3830 ※ 0730000	NBT-AHO30 or WBT-AHO30 -HDC12A -60	2.5 ~ 12.0	60	40	—	32	HDP-12	0.5	FDC-12	S-3L
3830 ※ 0740000	-75	2.5 ~ 12.0	75	33 ~ 40	0 ~ 5	32	HDP-12	0.6		
3830 ※ 0750000	-90	2.5 ~ 12.0	90	33 ~ 55	0 ~ 5	32	HDP-12	0.7		
3830 ※ 0760000	-105	2.5 ~ 12.0	105	33 ~ 65	0 ~ 5	32	HDP-12	0.7		
3830 ※ 0860000	-120	2.5 ~ 12.0	120	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0770000	NBT-AHO30 or WBT-AHO30 -HDC16A -75	3.5 ~ 16.0	75	38 ~ 41	0 ~ 6	36	HDP-16		FDC-16	S-4L
3830 ※ 0780000	-90	3.5 ~ 16.0	90	38 ~ 50	0 ~ 6	36	HDP-16	0.7		
3830 ※ 0790000	-105	3.5 ~ 16.0	105	38 ~ 65	0 ~ 6	36	HDP-16	0.8		
3830 ※ 0800000	-120	3.5 ~ 16.0	120	38 ~ 80	0 ~ 6	36	HDP-16	0.9		
3830 ※ 0820000	NBT-AHO30 or WBT-AHO30 -HDC22A -75	3.5 ~ 22.0	75	56	—	46	HDP-22	0.7	FDC-22	S-5L
3830 ※ 0830000	-90	3.5 ~ 22.0	90	47 ~ 54	0 ~ 8	46	HDP-22	0.9		
3830 ※ 0840000	-105	3.5 ~ 22.0	105	47 ~ 69	0 ~ 8	46	HDP-22	1.0		
3830 ※ 0880000	-120	3.5 ~ 22.0	120	47 ~ 75	0 ~ 8	46	HDP-22	1.2		
3830 ※ 0870000	NBT-AHO40 or WBT-AHO40 -HDC07A -75	0.5 ~ 7.0	75	22 ~ 35	0 ~ 4	23	HDP-07A	0.9	FDC-07	S-0
3830 ※ 0010000	-90	0.5 ~ 7.0	90	22 ~ 45	0 ~ 4	23	HDP-07A	0.9		
3830 ※ 0020000	-105	0.5 ~ 7.0	105	22 ~ 45	0 ~ 4	23	HDP-07A	0.9		
3830 ※ 0030000	-120	0.5 ~ 7.0	120	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0890000	-135	0.5 ~ 7.0	135	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0040000	NBT-AHO40 or WBT-AHO40 -HDC09A -90	2.5 ~ 9.0	90	27 ~ 55	0 ~ 4	26	HDP-09		FDC-09	S-1L
3830 ※ 0050000	-105	2.5 ~ 9.0	105	27 ~ 57	0 ~ 4	26	HDP-09	1.1		
3830 ※ 0060000	-120	2.5 ~ 9.0	120	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0070000	-135	2.5 ~ 9.0	135	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0080000	-165	2.5 ~ 9.0	165	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0090000	NBT-AHO40 or WBT-AHO40 -HDC12A -90	2.5 ~ 12.0	90	33 ~ 55	0 ~ 5	32	HDP-12	1.1	FDC-12	S-3L
3830 ※ 0100000	-105	2.5 ~ 12.0	105	33 ~ 69	0 ~ 5	32	HDP-12	1.2		
3830 ※ 0110000	-120	2.5 ~ 12.0	120	33 ~ 69	0 ~ 5	32	HDP-12	1.3		
3830 ※ 0120000	-135	2.5 ~ 12.0	135	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0130000	-165	2.5 ~ 12.0	165	33 ~ 69	0 ~ 5	32	HDP-12	1.5		
3830 ※ 0140000	-195	2.5 ~ 12.0	195	33 ~ 69	0 ~ 5	32	HDP-12			

Unit : Metric

Code	Model	d	L	ℓ	B	D	Nut	kg	Collet	Spanner
3830 ※ 0150000	NBT-AHO40 or WBT-AHO40 -HDC16A -90	3.5 ~ 16.0	90	38 ~ 55	0 ~ 6	36	HDP-16		FDC-16	S-4L
3830 ※ 0160000	-105	3.5 ~ 16.0	105	38 ~ 70	0 ~ 6	36	HDP-16	1.2		
3830 ※ 0170000	-120	3.5 ~ 16.0	120	38 ~ 82	0 ~ 6	36	HDP-16	1.3		
3830 ※ 0180000	-135	3.5 ~ 16.0	135	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0190000	-165	3.5 ~ 16.0	165	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0200000	-195	3.5 ~ 16.0	195	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0210000	NBT-AHO40 or WBT-AHO40 -HDC22A -105	3.5 ~ 22.0	105	47 ~ 65	0 ~ 8	46	HDP-22	1.4	FDC-22	S-5L
3830 ※ 0220000	-120	3.5 ~ 22.0	120	47 ~ 80	0 ~ 8	46	HDP-22			
3830 ※ 0230000	-135	3.5 ~ 22.0	135	47 ~ 95	0 ~ 8	46	HDP-22			
3830 ※ 0240000	-165	3.5 ~ 22.0	165	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0250000	-195	3.5 ~ 22.0	195	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0260000	NBT-AHO50 or WBT-AHO50 -HDC07A -90	0.5 ~ 7.0	90	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0270000	-105	0.5 ~ 7.0	105	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0280000	-120	0.5 ~ 7.0	120	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0290000	-135	0.5 ~ 7.0	135	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0300000	-165	0.5 ~ 7.0	165	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0310000	-195	0.5 ~ 7.0	195	22 ~ 45	0 ~ 4	23	HDP-07A			
3830 ※ 0320000	NBT-AHO50 or WBT-AHO50 -HDC09A -90	2.5 ~ 9.0	90	27 ~ 47	0 ~ 4	26	HDP-09		FDC-09	S-1L
3830 ※ 0330000	-105	2.5 ~ 9.0	105	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0340000	-120	2.5 ~ 9.0	120	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0350000	-135	2.5 ~ 9.0	135	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0360000	-165	2.5 ~ 9.0	165	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0370000	-195	2.5 ~ 9.0	195	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0380000	-225	2.5 ~ 9.0	225	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0390000	-255	2.5 ~ 9.0	255	27 ~ 57	0 ~ 4	26	HDP-09			
3830 ※ 0400000	NBT-AHO50 or WBT-AHO50 -HDC12A -90	3.5 ~ 12.0	90	33 ~ 47	0 ~ 5	32	HDP-12	3.1	FDC-12	S-3L
3830 ※ 0410000	-105	3.5 ~ 12.0	105	33 ~ 62	0 ~ 5	32	HDP-12			
3830 ※ 0420000	-120	3.5 ~ 12.0	120	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0430000	-135	3.5 ~ 12.0	135	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0440000	-165	3.5 ~ 12.0	165	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0450000	-195	3.5 ~ 12.0	195	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0460000	-225	3.5 ~ 12.0	225	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0470000	-255	3.5 ~ 12.0	255	33 ~ 69	0 ~ 5	32	HDP-12			
3830 ※ 0480000	NBT-AHO50 or WBT-AHO50 -HDC16A -90	3.5 ~ 16.0	90	38 ~ 48	0 ~ 6	36	HDP-16		FDC-16	S-4L
3830 ※ 0490000	-105	3.5 ~ 16.0	105	38 ~ 63	0 ~ 6	36	HDP-16			
3830 ※ 0500000	-120	3.5 ~ 16.0	120	38 ~ 78	0 ~ 6	36	HDP-16			
3830 ※ 0510000	-135	3.5 ~ 16.0	135	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0520000	-165	3.5 ~ 16.0	165	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0530000	-195	3.5 ~ 16.0	195	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0540000	-225	3.5 ~ 16.0	225	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0550000	-255	3.5 ~ 16.0	255	38 ~ 82	0 ~ 6	36	HDP-16			
3830 ※ 0560000	NBT-AHO50 or WBT-AHO50 -HDC22A -105	3.5 ~ 22.0	105	47 ~ 67	0 ~ 8	46	HDP-22	3.4	FDC-22	S-5L
3830 ※ 0570000	-120	3.5 ~ 22.0	120	47 ~ 82	0 ~ 8	46	HDP-22			
3830 ※ 0580000	-135	3.5 ~ 22.0	135	47 ~ 97	0 ~ 8	46	HDP-22			
3830 ※ 0590000	-150	3.5 ~ 22.0	150	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0600000	-165	3.5 ~ 22.0	165	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0610000	-195	3.5 ~ 22.0	195	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0620000	-225	3.5 ~ 22.0	225	47 ~ 103	0 ~ 8	46	HDP-22			
3830 ※ 0630000	-255	3.5 ~ 22.0	255	47 ~ 103	0 ~ 8	46	HDP-22			

Please replace ※ in the code with 1 for NBT-AHO and 6 for WBT-AHO.

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

Collet	Spanner	Preset screw
P. 086 - 089	P. 95	P. 094
		

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO30 - HDC 12 A - 90
 Shank size Max. collet I.D. Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO30 - HDC 12 A - 90
 Shank size Max. collet I.D. Projection length (L)



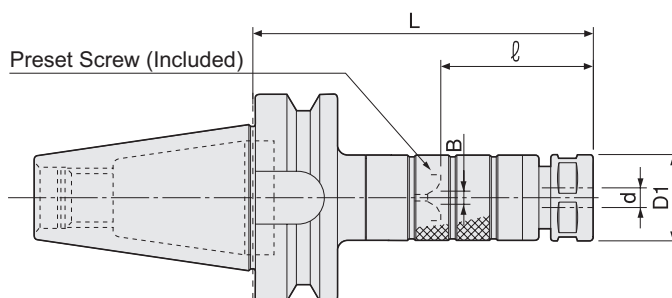
- BT
- CAT
- AHO**
- HSK-A/E/F/C
- HSK-T
- UTS
- Specialized Machine
- Related Equipment
- Bush & Chamfering Drill
- Milling Chuck
- Collet Holder
- "R"-Zero Holder
- Hydraulic Chuck
- Shrink Fit
- Tapping Chuck
- Arbors
- Function Holder
- Retention Stud

SDM

Drill Holder With Easy Tool Length Adjustment

※ AHO Retention Stud is required.

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric

Code	Model	d	L	ℓ	B	D1	Nut	Collet	Spanner
3750 ※ 0010000	NBT-AHO30 or WBT-AHO30 -SDM07 -75	0.5 ~ 7.0	75	29 ~ 39	0 ~ 4	23	HDP-07A	FDC-07	S-0
3750 ※ 0020000	-90	0.5 ~ 7.0	90	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0030000	-105	0.5 ~ 7.0	105	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0040000	-120	0.5 ~ 7.0	120	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0050000	-135	0.5 ~ 7.0	135	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0060000	-150	0.5 ~ 7.0	150	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0070000	NBT-AHO30 or WBT-AHO30 -SDM09 -90	2.5 ~ 9.0	90	28 ~ 38	0 ~ 4	26	HDP-09	FDC-09	S-1L
3750 ※ 0080000	-105	2.5 ~ 9.0	105	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0090000	-120	2.5 ~ 9.0	120	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0100000	-135	2.5 ~ 9.0	135	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0110000	-150	2.5 ~ 9.0	150	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0120000	-165	2.5 ~ 9.0	165	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0130000	NBT-AHO30 or WBT-AHO30 -SDM12 -90	2.5 ~ 12.0	90	34 ~ 44	0 ~ 5	32	HDP-12	FDC-12	S-3L
3750 ※ 0140000	-105	2.5 ~ 12.0	105	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0150000	-120	2.5 ~ 12.0	120	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0160000	-135	2.5 ~ 12.0	135	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0170000	-150	2.5 ~ 12.0	150	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0180000	-165	2.5 ~ 12.0	165	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0190000	NBT-AHO30 or WBT-AHO30 -SDM16 -105	3.5 ~ 16.0	105	40 ~ 50	0 ~ 6	36	HDP-16	FDC-16	S-4L
3750 ※ 0200000	-120	3.5 ~ 16.0	120	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0210000	-135	3.5 ~ 16.0	135	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0220000	-150	3.5 ~ 16.0	150	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0230000	-165	3.5 ~ 16.0	165	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0240000	NBT-AHO30 or WBT-AHO30 -SDM22 -105	3.5 ~ 22.0	105	48 ~ 58	0 ~ 8	46	HDP-22		
3750 ※ 0250000	-120	3.5 ~ 22.0	120	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0260000	-135	3.5 ~ 22.0	135	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0270000	-150	3.5 ~ 22.0	150	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0280000	-165	3.5 ~ 22.0	165	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0290000	NBT-AHO40 or WBT-AHO40 -SDM07 -90	0.5 ~ 7.0	90	29 ~ 39	0 ~ 4	23	HDP-07A	FDC-07	S-0
3750 ※ 0300000	-105	0.5 ~ 7.0	105	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0310000	-120	0.5 ~ 7.0	120	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0320000	-135	0.5 ~ 7.0	135	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0330000	-150	0.5 ~ 7.0	150	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0340000	NBT-AHO40 or WBT-AHO40 -SDM09 -90	2.5 ~ 9.0	90	28 ~ 38	0 ~ 4	26	HDP-09		
3750 ※ 0350000	-105	2.5 ~ 9.0	105	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0360000	-120	2.5 ~ 9.0	120	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0370000	-135	2.5 ~ 9.0	135	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0380000	-150	2.5 ~ 9.0	150	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0390000	-180	2.5 ~ 9.0	180	28 ~ 53	0 ~ 4	26	HDP-09		

Code	Model	d	L	ℓ	B	D1	Nut	Collet	Spanner
3750 ※ 0400000	NBT-AHO40 or WBT-AHO40 -SDM12 -90	2.5 ~ 12.0	90	34 ~ 44	0 ~ 5	32	HDP-12	FDC-12	S-3L
3750 ※ 0410000	-105	2.5 ~ 12.0	105	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0420000	-120	2.5 ~ 12.0	120	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0430000	-135	2.5 ~ 12.0	135	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0440000	-150	2.5 ~ 12.0	150	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0450000	-180	2.5 ~ 12.0	180	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0460000	NBT-AHO40 or WBT-AHO40 -SDM16 -105	3.5 ~ 16.0	105	40 ~ 50	0 ~ 6	36	HDP-16	FDC-16	S-4L
3750 ※ 0470000	-120	3.5 ~ 16.0	120	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0480000	-135	3.5 ~ 16.0	135	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0490000	-150	3.5 ~ 16.0	150	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0500000	-180	3.5 ~ 16.0	180	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0510000	NBT-AHO40 or WBT-AHO40 -SDM22 -120	3.5 ~ 22.0	120	48 ~ 58	0 ~ 8	46	HDP-22		
3750 ※ 0520000	-135	3.5 ~ 22.0	135	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0530000	-150	3.5 ~ 22.0	150	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0540000	-180	3.5 ~ 22.0	180	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0550000	NBT-AHO50 or WBT-AHO50 -SDM07 -90	0.5 ~ 7.0	90	29 ~ 39	0 ~ 4	23	HDP-07A	FDC-07	S-0
3750 ※ 0560000	-105	0.5 ~ 7.0	105	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0570000	-120	0.5 ~ 7.0	120	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0580000	-135	0.5 ~ 7.0	135	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0590000	-150	0.5 ~ 7.0	150	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0600000	-165	0.5 ~ 7.0	165	29 ~ 54	0 ~ 4	23	HDP-07A		
3750 ※ 0610000	NBT-AHO50 or WBT-AHO50 -SDM09 -90	2.5 ~ 9.0	90	28 ~ 38	0 ~ 4	26	HDP-09	FDC-09	S-1L
3750 ※ 0620000	-105	2.5 ~ 9.0	105	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0630000	-120	2.5 ~ 9.0	120	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0640000	-135	2.5 ~ 9.0	135	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0650000	-150	2.5 ~ 9.0	150	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0660000	-180	2.5 ~ 9.0	180	28 ~ 53	0 ~ 4	26	HDP-09		
3750 ※ 0670000	NBT-AHO50 or WBT-AHO50 -SDM12 -105	2.5 ~ 12.0	105	34 ~ 44	0 ~ 5	32	HDP-12	FDC-12	S-3L
3750 ※ 0680000	-120	2.5 ~ 12.0	120	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0690000	-135	2.5 ~ 12.0	135	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0700000	-150	2.5 ~ 12.0	150	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0710000	-180	2.5 ~ 12.0	180	34 ~ 59	0 ~ 5	32	HDP-12		
3750 ※ 0720000	NBT-AHO50 or WBT-AHO50 -SDM16 -105	3.5 ~ 16.0	105	40 ~ 50	0 ~ 6	36	HDP-16	FDC-16	S-4L
3750 ※ 0730000	-120	3.5 ~ 16.0	120	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0740000	-135	3.5 ~ 16.0	135	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0750000	-150	3.5 ~ 16.0	150	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0760000	-180	3.5 ~ 16.0	180	40 ~ 65	0 ~ 6	36	HDP-16		
3750 ※ 0770000	NBT-AHO50 or WBT-AHO50 -SDM22 -120	3.5 ~ 22.0	120	48 ~ 58	0 ~ 8	46	HDP-22	FDC-22	S-5L
3750 ※ 0780000	-135	3.5 ~ 22.0	135	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0790000	-150	3.5 ~ 22.0	150	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0800000	-180	3.5 ~ 22.0	180	48 ~ 73	0 ~ 8	46	HDP-22		
3750 ※ 0810000	-210	3.5 ~ 22.0	210	48 ~ 73	0 ~ 8	46	HDP-22		

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

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.

Collet

P. 086 - 089



Spanner

P. 095



Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - SDM 12 - 90
 Shank size Max. collet I.D. Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

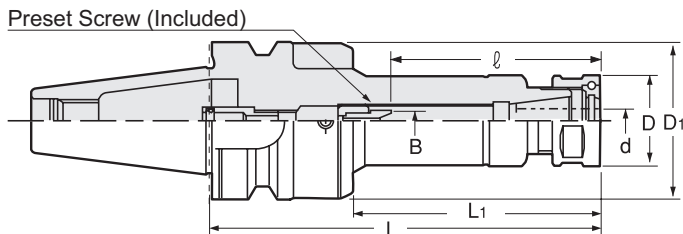
WBT-AHO40 - SDM 12 - 90
 Shank size Max. collet I.D. Projection length (L)

"R"Zero Holder

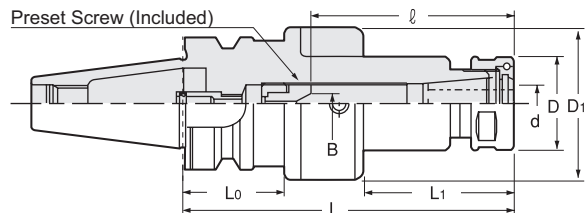
※ AHO Retention Stud is required.

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

Type1



Type2



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 34.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric

Code	Model	Type	d	L	L1	ℓ	B	D1	D	L0	Nut	kg	Collet	Spanner
3840 ※ 0640000	NBT-AHO30 or WBT-AHO30 -HDZ07 -60	1	0.5 ~ 7.0	60	22	22 ~ 23	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0650000	-75	1	0.5 ~ 7.0	75	37	22 ~ 38	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0660000	-90	1	0.5 ~ 7.0	90	52	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0670000	-105	1	0.5 ~ 7.0	105	67	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0680000	NBT-AHO30 or WBT-AHO30 -HDZ09 -75	1	2.5 ~ 9.0	75	37	27 ~ 40	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0690000	-90	1	2.5 ~ 9.0	90	52	27 ~ 50	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0700000	-105	1	2.5 ~ 9.0	105	67	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0760000	-120	1	2.5 ~ 9.0	120	82	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0710000	NBT-AHO30 or WBT-AHO30 -HDZ12 -90	2	2.5 ~ 12.0	90	33	33 ~ 55	0 ~ 5	52	32	32	HDP-12		FDC-12	S-3L
3840 ※ 0720000	-105	2	2.5 ~ 12.0	105	48	33 ~ 65	0 ~ 5	52	32	32	HDP-12		FDC-12	S-3L
3840 ※ 0770000	-120	2	2.5 ~ 12.0	120	63	33 ~ 69	0 ~ 5	52	32	32	HDP-12		FDC-12	S-3L
3840 ※ 0730000	NBT-AHO30 or WBT-AHO30 -HDZ16 -90	2	3.5 ~ 16.0	90	33	38 ~ 50	0 ~ 6	56	36	32	HDP-16		FDC-16	S-4L
3840 ※ 0740000	-105	2	3.5 ~ 16.0	105	48	38 ~ 65	0 ~ 6	56	36	32	HDP-16		FDC-16	S-4L
3840 ※ 0750000	-120	2	3.5 ~ 16.0	120	63	38 ~ 80	0 ~ 6	56	36	32	HDP-16		FDC-16	S-4L
3840 ※ 0010000	NBT-AHO40 or WBT-AHO40 -HDZ07 -75	1	0.5 ~ 7.0	75	32	22 ~ 38	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0020000	-90	1	0.5 ~ 7.0	90	47	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0030000	-105	1	0.5 ~ 7.0	105	62	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0780000	-120	1	0.5 ~ 7.0	120	77	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0790000	-135	1	0.5 ~ 7.0	135	92	22 ~ 45	0 ~ 4	41	23	—	HDP-07A		FDC-07	S-0
3840 ※ 0040000	NBT-AHO40 or WBT-AHO40 -HDZ09 -90	1	2.5 ~ 9.0	90	47	27 ~ 55	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0050000	-105	1	2.5 ~ 9.0	105	62	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0060000	-120	1	2.5 ~ 9.0	120	77	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0070000	-135	1	2.5 ~ 9.0	135	92	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0080000	-165	1	2.5 ~ 9.0	165	122	27 ~ 57	0 ~ 4	45	26	—	HDP-09		FDC-09	S-1L
3840 ※ 0090000	NBT-AHO40 or WBT-AHO40 -HDZ12 -90	1	2.5 ~ 12.0	90	43	33 ~ 55	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0100000	-105	1	2.5 ~ 12.0	105	58	33 ~ 69	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0110000	-120	1	2.5 ~ 12.0	120	73	33 ~ 69	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0120000	-135	1	2.5 ~ 12.0	135	88	33 ~ 69	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0130000	-165	1	2.5 ~ 12.0	165	118	33 ~ 69	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0140000	-195	1	2.5 ~ 12.0	195	148	33 ~ 69	0 ~ 5	56	32	—	HDP-12		FDC-12	S-3L
3840 ※ 0150000	NBT-AHO40 or WBT-AHO40 -HDZ16 -90	1	3.5 ~ 16.0	90	43	38 ~ 55	0 ~ 6	62	36	—	HDP-16	1.4	FDC-16	S-4L
3840 ※ 0160000	-105	1	3.5 ~ 16.0	105	58	38 ~ 70	0 ~ 6	62	36	—	HDP-16		FDC-16	S-4L
3840 ※ 0170000	-120	1	3.5 ~ 16.0	120	73	38 ~ 82	0 ~ 6	62	36	—	HDP-16		FDC-16	S-4L
3840 ※ 0180000	-135	1	3.5 ~ 16.0	135	88	38 ~ 82	0 ~ 6	62	36	—	HDP-16		FDC-16	S-4L
3840 ※ 0190000	-165	1	3.5 ~ 16.0	165	118	38 ~ 82	0 ~ 6	62	36	—	HDP-16		FDC-16	S-4L
3840 ※ 0200000	-195	1	3.5 ~ 16.0	195	148	38 ~ 82	0 ~ 6	62	36	—	HDP-16		FDC-16	S-4L

Code	Model	Type	d	L	L1	ℓ	B	D1	D	L0	Nut	kg	Collet	Spanner		
3840 ※ 0210000	NBT-AHO40 or WBT-AHO40 -HDZ22	-105	2	3.5 ~ 22.0	105	31	47 ~ 65	0 ~ 8	69	46	45	HDP-22				
3840 ※ 0220000		-120	2	3.5 ~ 22.0	120	46	47 ~ 80	0 ~ 8	69	46	45	HDP-22	2.3	FDC-22	S-5L	
3840 ※ 0230000		-135	2	3.5 ~ 22.0	135	61	47 ~ 95	0 ~ 8	69	46	45	HDP-22				
3840 ※ 0240000		-165	2	3.5 ~ 22.0	165	91	47 ~ 103	0 ~ 8	69	46	45	HDP-22				
3840 ※ 0250000		-195	2	3.5 ~ 22.0	195	121	47 ~ 103	0 ~ 8	69	46	45	HDP-22				
3840 ※ 0260000	NBT-AHO50 or WBT-AHO50 -HDZ07	-90	1	0.5 ~ 7.0	90	36	22 ~ 45	0 ~ 4	41	23	—	HDP-07A				
3840 ※ 0270000		-105	1	0.5 ~ 7.0	105	51	22 ~ 45	0 ~ 4	41	23	—	HDP-07A	FDC-07	S-0		
3840 ※ 0280000		-120	1	0.5 ~ 7.0	120	66	22 ~ 45	0 ~ 4	41	23	—	HDP-07A				
3840 ※ 0290000		-135	1	0.5 ~ 7.0	135	81	22 ~ 45	0 ~ 4	41	23	—	HDP-07A				
3840 ※ 0300000		-165	1	0.5 ~ 7.0	165	111	22 ~ 45	0 ~ 4	41	23	—	HDP-07A				
3840 ※ 0310000		-195	1	0.5 ~ 7.0	195	141	22 ~ 45	0 ~ 4	41	23	—	HDP-07A				
3840 ※ 0320000	NBT-AHO50 or WBT-AHO50 -HDZ09	-90	1	2.5 ~ 9.0	90	36	27 ~ 50	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0330000		-105	1	2.5 ~ 9.0	105	51	27 ~ 57	0 ~ 4	45	26	—	HDP-09	FDC-09	S-1L		
3840 ※ 0340000		-120	1	2.5 ~ 9.0	120	66	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0350000		-135	1	2.5 ~ 9.0	135	81	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0360000		-165	1	2.5 ~ 9.0	165	111	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0370000		-195	1	2.5 ~ 9.0	195	141	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0380000		-225	1	2.5 ~ 9.0	225	171	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0390000		-255	1	2.5 ~ 9.0	255	201	27 ~ 57	0 ~ 4	45	26	—	HDP-09				
3840 ※ 0400000	NBT-AHO50 or WBT-AHO50 -HDZ12	-90	1	2.5 ~ 12.0	90	32	33 ~ 50	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0410000		-105	1	2.5 ~ 12.0	105	47	33 ~ 65	0 ~ 5	56	32	—	HDP-12			FDC-12	S-3L
3840 ※ 0420000		-120	1	2.5 ~ 12.0	120	62	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0430000		-135	1	2.5 ~ 12.0	135	77	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0440000		-165	1	2.5 ~ 12.0	165	107	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0450000		-195	1	2.5 ~ 12.0	195	137	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0460000		-225	1	2.5 ~ 12.0	225	167	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0470000		-255	1	2.5 ~ 12.0	255	197	33 ~ 69	0 ~ 5	56	32	—	HDP-12				
3840 ※ 0480000	NBT-AHO50 or WBT-AHO50 -HDZ16	-90	1	3.5 ~ 16.0	90	32	38 ~ 50	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0490000		-105	1	3.5 ~ 16.0	105	47	38 ~ 65	0 ~ 6	62	36	—	HDP-16	FDC-16	S-4L		
3840 ※ 0500000		-120	1	3.5 ~ 16.0	120	62	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0510000		-135	1	3.5 ~ 16.0	135	77	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0520000		-165	1	3.5 ~ 16.0	165	107	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0530000		-195	1	3.5 ~ 16.0	195	137	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0540000		-225	1	3.5 ~ 16.0	225	167	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0550000		-255	1	3.5 ~ 16.0	255	197	38 ~ 82	0 ~ 6	62	36	—	HDP-16				
3840 ※ 0560000	NBT-AHO50 or WBT-AHO50 -HDZ22	-105	1	3.5 ~ 22.0	105	43	47 ~ 67	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0570000		-120	1	3.5 ~ 22.0	120	58	47 ~ 82	0 ~ 8	76	46	—	HDP-22	FDC-22	S-5L		
3840 ※ 0580000		-135	1	3.5 ~ 22.0	135	73	47 ~ 97	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0590000		-150	1	3.5 ~ 22.0	150	88	47 ~ 103	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0600000		-165	1	3.5 ~ 22.0	165	103	47 ~ 103	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0610000		-195	1	3.5 ~ 22.0	195	133	47 ~ 103	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0620000		-225	1	3.5 ~ 22.0	225	163	47 ~ 103	0 ~ 8	76	46	—	HDP-22				
3840 ※ 0630000		-255	1	3.5 ~ 22.0	255	193	47 ~ 103	0 ~ 8	76	46	—	HDP-22				
												4.4				

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

1. Collet, spanner, hexagon head preset screw, preset screw for semi-dry processing, and adjustment 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. ℓ indicates dimension when using with a preset screw.
4. See P.499 for standard Tightening Torque.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - HDZ 12 - 90
Shank size Max. collet I.D. Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - HDZ 12 - 90
Shank size Max. collet I.D. Projection length (L)

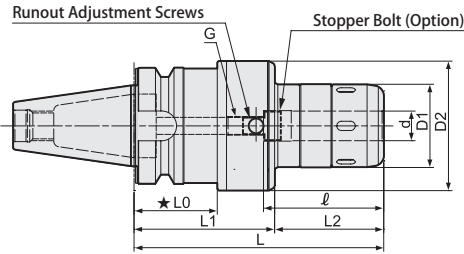
Collet	Spanner	Preset screw	Adjustment wrench
P. 086 - 089	P. 095	P. 094	P. 095

"R"Zero Holder for Large Diameter

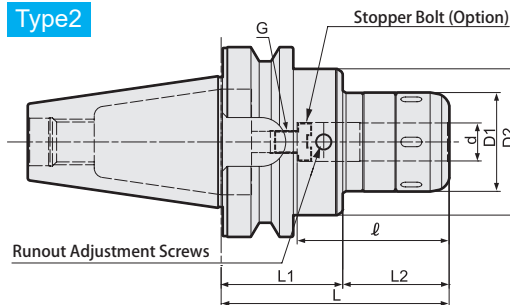
※ AHO Retention Stud is required.

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

Type1



Type2



⚠ Caution

- ★ :Take caution against A.T.C. arm and tool magazine interference.

Caution

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric


Code	Model	Type	d	L	L1	L2	D1	D2	L0	ℓ	$\frac{G}{P=1.0}$	Stopper Bolt	Spanner	Wrench
3730 ※ 1030000	NBT-AHO40 or WBT-AHO40 -CTZ25A -125	1	25	125	64	61	61	74	★ 38	80	12	BL20- ※※	HS-2.5-25	L-6L (Included)
3730 ※ 1040000	-150	1	25	150	74	76	61	74	48	80	12			
3730 ※ 1050000	NBT-AHO40 or WBT-AHO40 -CTZ32A -125 * 1	1	32	125	64	61	68	80	★ 35	95	18	unusable	HS-3-32	
3730 ※ 1060000	-150	1	32	150	74	76	68	80	45	120	18			
3730 ※ 1090000	NBT-AHO50 or WBT-AHO50 -CTZ25A -125	2	25	125	64	61	61	74	-	80	12	BL20- ※※	HS-2.5-25	
3730 ※ 1100000	-165	2	25	165	64	101	61	74	-	80	12			
3730 ※ 1110000	NBT-AHO50 or WBT-AHO50 -CTZ32A -125 * 2	2	32	125	64	61	68	80	-	105	-	unusable	HS-3-32	
3730 ※ 1120000	-165	2	32	165	64	101	68	80	-	120	18	BL32- ※※		
3730 ※ 0130000	NBT-AHO50 or WBT-AHO50 -CTZ42 -125 * 3	2	42	125	64	61	88	99	-	105	-	unusable	HS-4-42	
3730 ※ 0140000	-165 * 4	2	42	165	64	101	88	99	-	120	18	BL32- ※※		

Please replace ※ in the code with 1 for NBT-AHO and 6 for WBT-AHO.

1. When ordering, indicate number of spanners required. "No charge" spanners are limited to number of holders on order.
2. A wrench is included.
3. The model with " * 1 - * 4 " is not compatible with some accessories. For more information about the accessories, please refer below chart.

Accessories

Models with * 1 - * 3 cannot be used with some accessories due to short ℓ length.

	Stopper Bolt	Straight Collet		Morse Taper Adapter		Jacobs Adapter		Spanner P. 069
	BL (P.068)	MC (P.066)	MCA (P.067)	MA (P.068)	MAB (P.068)	JA (P.069)	JAB (P.069)	
* 1	No	Yes	No	No	Yes	No	Yes	
* 2	No	Yes	No	Yes	Yes	Yes	Yes	
* 3	No	Yes	No	No	No	No	No	
* 4	Yes	Yes	No	Yes	Yes	Yes	Yes	

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - CTZ 32 A - 125
 Shank size I.D. (d) Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - CTZ 32 A - 125
 Shank size I.D. (d) Projection length (L)

Min. chucking length

Direct Chucking (without MC Collet)

I.D. of Chuck	Min. chucking length
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

MEMO

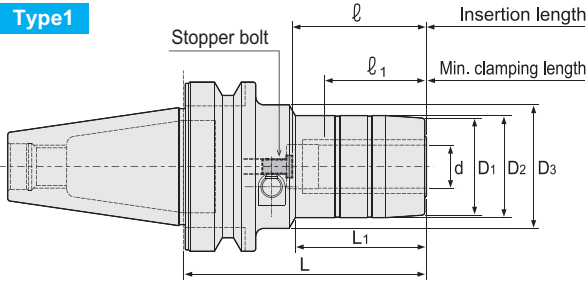
PHC-A

Power Hydro Chuck

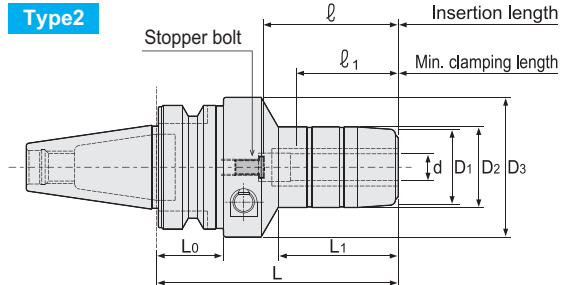
※ AHO Retention Stud is required.

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

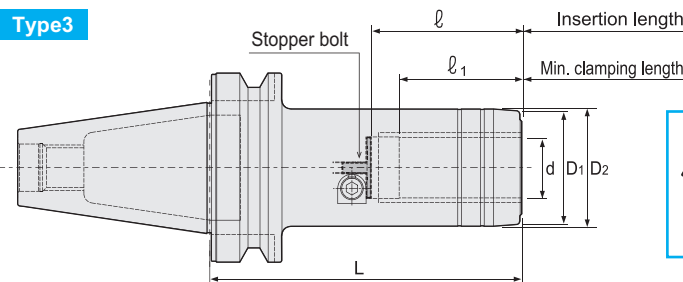
Type1



Type2



Type3



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	Type	d	L	L1	D1	D2	D3	L0	ℓ	ℓ₁	Kg	Wrench (Option)
3970 ※ 0010100	NBT-AHO30 or WBT-AHO30 -PHC06A-75	1	6	75	30	24	26	46	—	34	29	0.7	L-4T (4mm)
3970 ※ 0020100	NBT-AHO30 or WBT-AHO30 -PHC07A-75	1	7	75	30	26	28	46	—	34	29		
3970 ※ 0030100	NBT-AHO30 or WBT-AHO30 -PHC08A-75	1	8	75	30	26	28	46	—	34	29	0.7	
3970 ※ 0040100	NBT-AHO30 or WBT-AHO30 -PHC09A-105	2	9	105	44	28	30	52	40	50	40		
3970 ※ 0050100	NBT-AHO30 or WBT-AHO30 -PHC10A-105	2	10	105	44	28	30	52	40	50	40	1.0	
3970 ※ 0060100	NBT-AHO30 or WBT-AHO30 -PHC11A-105	2	11	105	45	30	32	52	40	50	40		
3970 ※ 0070100	NBT-AHO30 or WBT-AHO30 -PHC12A-105	2	12	105	45	30	32	52	40	50	40	1.1	
3970 ※ 0080100	NBT-AHO30 or WBT-AHO30 -PHC13A-105	2	13	105	46	34	36	52	40	50	40		
3970 ※ 0090100	NBT-AHO30 or WBT-AHO30 -PHC14A-105	2	14	105	46	34	36	52	40	50	40		
3970 ※ 0100100	NBT-AHO30 or WBT-AHO30 -PHC15A-105	2	15	105	46	36	38	52	40	50	40		
3970 ※ 0110100	NBT-AHO30 or WBT-AHO30 -PHC16A-105	2	16	105	46	36	38	52	40	50	40	1.1	
3970 ※ 0120100	NBT-AHO30 or WBT-AHO30 -PHC20A-90	1	20	90	49	40	42	46	—	50	40	0.9	
3970 ※ 0130100	-120	1	20	120	69	40	42	46	—	70	40	1.2	
3970 ※ 0140100	NBT-AHO40 or WBT-AHO40 -PHC06A-75	1	6	75	30	24	26	46	—	34	29	1.1	L-4T (4mm)
3970 ※ 0150100	-105	1	6	105	41	24	26	46	—	45	29	1.4	
3970 ※ 0160100	NBT-AHO40 or WBT-AHO40 -PHC07A-75	1	7	75	30	26	28	46	—	34	29	1.1	
3970 ※ 0170100	-105	1	7	105	41	26	28	46	—	45	29		
3970 ※ 0180100	NBT-AHO40 or WBT-AHO40 -PHC08A-75	1	8	75	30	26	28	46	—	34	29	1.1	
3970 ※ 0190100	-105	1	8	105	41	26	28	46	—	45	29	1.4	
3970 ※ 0200100	NBT-AHO40 or WBT-AHO40 -PHC09A-90	1	9	90	44	28	30	52	—	50	40		
3970 ※ 0210100	-120	1	9	120	64	28	30	52	—	70	40		
3970 ※ 0220100	NBT-AHO40 or WBT-AHO40 -PHC10A-90	1	10	90	44	28	30	52	—	50	40	1.2	
3970 ※ 0230100	-120	1	10	120	64	28	30	52	—	70	40	1.5	
3970 ※ 0240100	NBT-AHO40 or WBT-AHO40 -PHC11A-90	1	11	90	45	30	32	52	—	50	40		
3970 ※ 0250100	-120	1	11	120	65	30	32	52	—	70	40		
3970 ※ 0260100	NBT-AHO40 or WBT-AHO40 -PHC12A-90	1	12	90	45	30	32	52	—	50	40	1.3	
3970 ※ 0270100	-120	1	12	120	65	30	32	52	—	70	40	1.5	
3970 ※ 0280100	NBT-AHO40 or WBT-AHO40 -PHC13A-90	1	13	90	46	34	36	52	—	50	40		
3970 ※ 0290100	-120	1	13	120	66	34	36	52	—	70	40		
3970 ※ 0300100	NBT-AHO40 or WBT-AHO40 -PHC14A-90	1	14	90	46	34	36	52	—	50	40		
3970 ※ 0310100	-120	1	14	120	66	34	36	52	—	70	40		
3970 ※ 0320100	NBT-AHO40 or WBT-AHO40 -PHC15A-90	1	15	90	46	36	38	52	—	50	40		
3970 ※ 0330100	-120	1	15	120	66	36	38	52	—	70	40		
3970 ※ 0340100	NBT-AHO40 or WBT-AHO40 -PHC16A-90	1	16	90	46	36	38	52	—	50	40		
3970 ※ 0350100	-120	1	16	120	66	36	38	52	—	70	40	1.6	
3970 ※ 0360100	NBT-AHO40 or WBT-AHO40 -PHC20A-90	1	20	90	49	40	42	46	—	50	40	1.3	
3970 ※ 0370100	-120	1	20	120	69	40	42	46	—	70	40	1.6	

Metric Sizes														Unit : Metric	
Code	Model	Type	d	L	L1	D1	D2	D3	LO	ℓ	ℓ1	Kg	Wrench (Option)		
3970 ※ 0380100	NBT-AHO40 or WBT-AHO40 -PHC25A-105	1	25	105	59	50	52	62	—	60	50		L-6T (6mm)		
3970 ※ 0390100	-135	1	25	135	79	50	52	62	—	80	50	2.4			
3970 ※ 0400100	NBT-AHO40 or WBT-AHO40 -PHC32A-120	3	32	120	93	60	62	62	—	75	65	2.4			
3970 ※ 0410100	-150	3	32	150	123	60	62	62	—	80	65	3.1			
3970 ※ 0420100	NBT-AHO50 or WBT-AHO50 -PHC06A-90	1	6	90	30	24	26	46	—	34	29		L-4T (4mm)		
3970 ※ 0430100	-120	1	6	120	41	24	26	46	—	45	29				
3970 ※ 0440100	-150	1	6	150	41	24	26	46	—	45	29				
3970 ※ 0450100	NBT-AHO50 or WBT-AHO50 -PHC07A-90	1	7	90	30	26	28	46	—	34	29				
3970 ※ 0460100	-120	1	7	120	41	26	28	46	—	45	29				
3970 ※ 0470100	-150	1	7	150	41	26	28	46	—	45	29				
3970 ※ 0480100	NBT-AHO50 or WBT-AHO50 -PHC08A-90	1	8	90	30	26	28	46	—	34	29				
3970 ※ 0490100	-120	1	8	120	41	26	28	46	—	45	29				
3970 ※ 0500100	-150	1	8	150	41	26	28	46	—	45	29				
3970 ※ 0510100	NBT-AHO50 or WBT-AHO50 -PHC09A-105	1	9	105	44	28	30	52	—	50	40				
3970 ※ 0520100	-135	1	9	135	64	28	30	52	—	70	40				
3970 ※ 0530100	-165	1	9	165	64	28	30	52	—	70	40				
3970 ※ 0540100	NBT-AHO50 or WBT-AHO50 -PHC10A-105	1	10	105	44	28	30	52	—	50	40				
3970 ※ 0550100	-135	1	10	135	64	28	30	52	—	70	40				
3970 ※ 0560100	-165	1	10	165	64	28	30	52	—	70	40				
3970 ※ 0570100	NBT-AHO50 or WBT-AHO50 -PHC11A-105	1	11	105	45	30	32	52	—	50	40				
3970 ※ 0580100	-135	1	11	135	65	30	32	52	—	70	40				
3970 ※ 0590100	-165	1	11	165	65	30	32	52	—	70	40				
3970 ※ 0600100	NBT-AHO50 or WBT-AHO50 -PHC12A-105	1	12	105	45	30	32	52	—	50	40				
3970 ※ 0610100	-135	1	12	135	65	30	32	52	—	70	40				
3970 ※ 0620100	-165	1	12	165	65	30	32	52	—	70	40				
3970 ※ 0630100	NBT-AHO50 or WBT-AHO50 -PHC13A-105	1	13	105	46	34	36	52	—	50	40				
3970 ※ 0640100	-135	1	13	135	66	34	36	52	—	70	40				
3970 ※ 0650100	-165	1	13	165	66	34	36	52	—	70	40				
3970 ※ 0660100	NBT-AHO50 or WBT-AHO50 -PHC14A-105	1	14	105	46	34	36	52	—	50	40				
3970 ※ 0670100	-135	1	14	135	66	34	36	52	—	70	40				
3970 ※ 0680100	-165	1	14	165	66	34	36	52	—	70	40				
3970 ※ 0690100	NBT-AHO50 or WBT-AHO50 -PHC15A-105	1	15	105	46	36	38	52	—	50	40				
3970 ※ 0700100	-135	1	15	135	66	36	38	52	—	70	40				
3970 ※ 0710100	-165	1	15	165	66	36	38	52	—	70	40				
3970 ※ 0720100	NBT-AHO50 or WBT-AHO50 -PHC16A-105	1	16	105	46	36	38	52	—	50	40				
3970 ※ 0730100	-135	1	16	135	66	36	38	52	—	70	40				
3970 ※ 0740100	-165	1	16	165	66	36	38	52	—	70	40				
3970 ※ 0750100	NBT-AHO50 or WBT-AHO50 -PHC20A-105	1	20	105	49	40	42	46	—	50	40				
3970 ※ 0760100	-135	1	20	135	69	40	42	46	—	70	40				
3970 ※ 0770100	-165	1	20	165	69	40	42	46	—	70	40				
3970 ※ 0780100	NBT-AHO50 or WBT-AHO50 -PHC25A-120	1	25	120	59	50	52	62	—	64	50		L-6T (6mm)		
3970 ※ 0790100	-150	1	25	150	79	50	52	62	—	80	50				
3970 ※ 0800100	-165	1	25	165	79	50	52	62	—	80	50				
3970 ※ 0810100	NBT-AHO50 or WBT-AHO50 -PHC32A-135	3	32	135	—	60	62	—	—	75	65				
3970 ※ 0820100	-165	3	32	165	—	60	62	—	—	80	65				

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

1. Please use a cutting tool with a tolerance of less than h7. A tolerance of less than 0/-001 is recommended for new cutting tools.
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.

Ordering Example

Corresponding to our two-face contact BT spindle

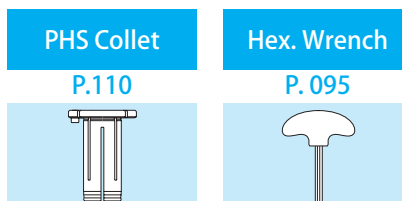
NBT-AHO50 - PHC 12 A - 105
 Shank size I.D. (d) Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO50 - PHC 12 A - 105
 Shank size I.D. (d) Projection length (L)

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

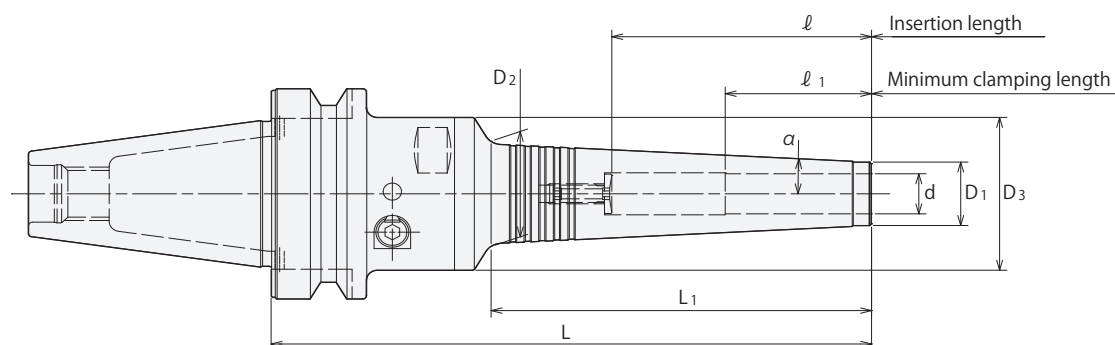


PHC · S New

Slim Hydro Chuck

※ AHO Retention Stud is required.

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	α	Kg	Wrench (Option)	
3720 ※ 0010000	NBT-AHO30 or WBT-AHO30 -PHC06S	-135	6	135	71	13	20.5	46	37	29	3°	0.9	L-4T
3720 ※ 0020000		-150	6	150	87	13	22.2	46	37	29	3°	0.9	
3720 ※ 0030000		-165	6	165	102	13	23.7	46	37	29	3°	1.0	
3720 ※ 0040000		-180	6	180	118	13	25.4	46	37	29	3°	1.0	
3720 ※ 0050000	NBT-AHO30 or WBT-AHO30 -PHC07S	-135	7	135	71	14	21.5	46	37	29	3°	0.9	
3720 ※ 0060000		-150	7	150	87	14	23.2	46	37	29	3°	1.0	
3720 ※ 0070000		-165	7	165	102	14	24.7	46	37	29	3°	1.0	
3720 ※ 0080000		-180	7	180	118	14	26.4	46	37	29	3°	1.1	
3720 ※ 0090000	NBT-AHO30 or WBT-AHO30 -PHC08S	-135	8	135	72	15	22.6	46	50	29	3°	0.9	
3720 ※ 0100000		-150	8	150	87	15	24.2	46	50	29	3°	1.0	
3720 ※ 0110000		-165	8	165	103	15	25.8	46	50	29	3°	1.0	
3720 ※ 0120000		-180	8	180	118	15	27.4	46	50	29	3°	1.1	
3720 ※ 0130000	NBT-AHO30 or WBT-AHO30 -PHC09S	-135	9	135	72	16	23.6	46	50	40	3°	0.9	L-4T
3720 ※ 0140000		-150	9	150	87	16	25.2	46	50	40	3°	1.0	
3720 ※ 0150000		-165	9	165	103	16	26.8	46	50	40	3°	1.0	
3720 ※ 0160000		-180	9	180	118	16	28.4	46	50	40	3°	1.1	
3720 ※ 0170000	NBT-AHO30 or WBT-AHO30 -PHC10S	-135	10	135	72	17	24.6	46	50	40	3°	0.9	
3720 ※ 0180000		-150	10	150	88	17	26.3	46	50	40	3°	1.0	
3720 ※ 0190000		-165	10	165	103	17	27.8	46	50	40	3°	1.1	
3720 ※ 0200000		-180	10	180	119	17	29.5	46	50	40	3°	1.1	
3720 ※ 0210000	NBT-AHO30 or WBT-AHO30 -PHC11S	-135	11	135	73	18	25.7	46	50	40	3°	1.0	
3720 ※ 0220000		-150	11	150	88	18	27.3	46	50	40	3°	1.0	
3720 ※ 0230000		-165	11	165	104	18	29.0	46	50	40	3°	1.1	
3720 ※ 0240000		-180	11	180	119	18	30.5	46	50	40	3°	1.2	
3720 ※ 0250000	NBT-AHO30 or WBT-AHO30 -PHC12S	-135	12	135	73	19	26.7	46	70	40	3°	1.0	
3720 ※ 0260000		-150	12	150	88	19	28.3	46	70	40	3°	1.0	
3720 ※ 0270000		-165	12	165	104	19	30.0	46	70	40	3°	1.1	
3720 ※ 0280000		-180	12	180	119	19	31.5	46	70	40	3°	1.2	
3720 ※ 0290000	NBT-AHO40 or WBT-AHO40 -PHC06S	-135	6	135	71	13	20.5	46	37	29	3°	1.3	L-4T
3720 ※ 0300000		-150	6	150	87	13	22.2	46	37	29	3°	1.4	
3720 ※ 0310000		-165	6	165	102	13	23.7	46	37	29	3°	1.4	
3720 ※ 0320000		-180	6	180	118	13	25.4	46	37	29	3°	1.4	
3720 ※ 0330000	NBT-AHO40 or WBT-AHO40 -PHC07S	-135	7	135	71	14	21.5	46	37	29	3°	1.3	
3720 ※ 0340000		-150	7	150	87	14	23.2	46	37	29	3°	1.4	
3720 ※ 0350000		-165	7	165	102	14	24.7	46	37	29	3°	1.4	
3720 ※ 0360000		-180	7	180	118	14	26.4	46	37	29	3°	1.5	
3720 ※ 0370000	NBT-AHO40 or WBT-AHO40 -PHC08S	-135	8	135	72	15	22.6	46	50	29	3°	1.3	
3720 ※ 0380000		-150	8	150	87	15	24.2	46	50	29	3°	1.4	
3720 ※ 0390000		-165	8	165	103	15	25.8	46	50	29	3°	1.4	
3720 ※ 0400000		-180	8	180	118	15	27.4	46	50	29	3°	1.5	
3720 ※ 0410000	NBT-AHO40 or WBT-AHO40 -PHC09S	-135	9	135	72	16	23.6	46	50	40	3°	1.3	
3720 ※ 0420000		-150	9	150	87	16	25.2	46	50	40	3°	1.4	
3720 ※ 0430000		-165	9	165	103	16	26.8	46	50	40	3°	1.5	
3720 ※ 0440000		-180	9	180	118	16	28.4	46	50	40	3°	1.5	

Code	Model	d	L	L1	D1	D2	D3	ℓ	ℓ 1	α	Kg	Wrench (Option)	
3720 ※ 0450000	NBT-AHO40 or WBT-AHO40 -PHC10S	-135	10	135	72	17	24.6	46	50	40	3°	1.4	L-4T
3720 ※ 0460000		-150	10	150	88	17	26.3	46	50	40	3°	1.4	
3720 ※ 0470000		-165	10	165	103	17	27.8	46	50	40	3°	1.5	
3720 ※ 0480000		-180	10	180	119	17	29.5	46	50	40	3°	1.5	
3720 ※ 0490000	NBT-AHO40 or WBT-AHO40 -PHC11S	-135	11	135	73	18	25.7	46	50	40	3°	1.4	
3720 ※ 0500000		-150	11	150	88	18	27.3	46	50	40	3°	1.4	
3720 ※ 0510000		-165	11	165	104	18	29.0	46	50	40	3°	1.5	
3720 ※ 0520000		-180	11	180	119	18	30.5	46	50	40	3°	1.6	
3720 ※ 0530000	NBT-AHO40 or WBT-AHO40 -PHC12S	-135	12	135	73	19	26.7	46	70	40	3°	1.4	
3720 ※ 0540000		-150	12	150	88	19	28.3	46	70	40	3°	1.4	
3720 ※ 0550000		-165	12	165	104	19	30.0	46	70	40	3°	1.5	
3720 ※ 0560000		-180	12	180	119	19	31.5	46	70	40	3°	1.6	
3720 ※ 0850000	NBT-AHO40 or WBT-AHO40 -PHC16S	-135	16	135	72	23	30.6	52.5	75	40	3°		
3720 ※ 0860000		-165	16	165	103	23	33.8	52.5	80	40	3°		
3720 ※ 0870000		-180	16	180	119	23	35.5	52.5	80	40	3°		
3720 ※ 0880000	NBT-AHO40 or WBT-AHO40 -PHC20S	-135	20	135	63	28	34.7	62	70	40	3°	L-6T	
3720 ※ 0890000		-165	20	165	93	28	37.8	62	100	40	3°		
3720 ※ 0900000		-180	20	180	109	28	39.5	62	100	40	3°		
3720 ※ 0910000	NBT-AHO40 or WBT-AHO40 -PHC25S	-135	25	135	65	37	43.9	62	70	50	3°		
3720 ※ 0920000		-165	25	165	96	37	47.1	62	100	50	3°		
3720 ※ 0930000		-180	25	180	112	37	48.8	62	110	50	3°		
3720 ※ 0570000	NBT-AHO50 or WBT-AHO50 -PHC06S	-150	6	150	71	13	20.5	46	37	29	3°	3.4	L-4T
3720 ※ 0580000		-165	6	165	87	13	22.2	46	37	29	3°	3.4	
3720 ※ 0590000		-180	6	180	102	13	23.7	46	37	29	3°	3.5	
3720 ※ 0600000		-195	6	195	118	13	25.4	46	37	29	3°	3.5	
3720 ※ 0610000	NBT-AHO50 or WBT-AHO50 -PHC07S	-150	7	150	71	14	21.5	46	37	29	3°	3.4	
3720 ※ 0620000		-165	7	165	87	14	23.2	46	37	29	3°	3.4	
3720 ※ 0630000		-180	7	180	102	14	24.7	46	37	29	3°	3.5	
3720 ※ 0640000		-195	7	195	118	14	26.4	46	37	29	3°	3.5	
3720 ※ 0650000	NBT-AHO50 or WBT-AHO50 -PHC08S	-150	8	150	72	15	22.6	46	50	29	3°	3.4	
3720 ※ 0660000		-165	8	165	87	15	24.2	46	50	29	3°	3.4	
3720 ※ 0670000		-180	8	180	103	15	25.8	46	50	29	3°	3.5	
3720 ※ 0680000		-195	8	195	118	15	27.4	46	50	29	3°	3.5	
3720 ※ 0690000	NBT-AHO50 or WBT-AHO50 -PHC09S	-150	9	150	72	16	23.6	46	50	40	3°	3.4	
3720 ※ 0700000		-165	9	165	87	16	25.2	46	50	40	3°	3.4	
3720 ※ 0710000		-180	9	180	103	16	26.8	46	50	40	3°	3.5	
3720 ※ 0720000		-195	9	195	118	16	28.4	46	50	40	3°	3.6	
3720 ※ 0730000	NBT-AHO50 or WBT-AHO50 -PHC10S	-150	10	150	72	17	24.6	46	50	40	3°	3.4	
3720 ※ 0740000		-165	10	165	88	17	26.3	46	50	40	3°	3.5	
3720 ※ 0750000		-180	10	180	103	17	27.8	46	50	40	3°	3.5	
3720 ※ 0760000		-195	10	195	119	17	29.5	46	50	40	3°	3.6	
3720 ※ 0770000	NBT-AHO50 or WBT-AHO50 -PHC11S	-150	11	150	73	18	25.7	46	50	40	3°	3.4	
3720 ※ 0780000		-165	11	165	88	18	27.3	46	50	40	3°	3.5	
3720 ※ 0790000		-180	11	180	104	18	29.0	46	50	40	3°	3.5	
3720 ※ 0800000		-195	11	195	119	18	30.5	46	50	40	3°	3.6	
3720 ※ 0810000	NBT-AHO50 or WBT-AHO50 -PHC12S	-150	12	150	73	19	26.7	46	70	40	3°	3.4	
3720 ※ 0820000		-165	12	165	88	19	28.3	46	70	40	3°	3.5	
3720 ※ 0830000		-180	12	180	104	19	30.0	46	70	40	3°	3.6	
3720 ※ 0840000		-195	12	195	119	19	31.5	46	70	40	3°	3.6	
3720 ※ 0940000	NBT-AHO50 or WBT-AHO50 -PHC16S	-150	16	150	72	23	30.6	52.5	75	40	3°		
3720 ※ 0950000		-180	16	180	103	23	33.8	52.5	80	40	3°		
3720 ※ 0960000		-195	16	195	119	23	35.5	52.5	80	40	3°		
3720 ※ 0970000	NBT-AHO50 or WBT-AHO50 -PHC20S	-150	20	150	63	28	34.7	62	70	40	3°	L-6T	
3720 ※ 0980000		-180	20	180	93	28	37.8	62	100	40	3°		
3720 ※ 0990000		-195	20	195	109	28	39.5	62	100	40	3°		
3720 ※ 1000000	NBT-AHO50 or WBT-AHO50 -PHC25S	-150	25	150	65	37	43.9	62	70	50	3°		
3720 ※ 1010000		-180	25	180	96	37	47.1	62	100	50	3°		
3720 ※ 1020000		-195	25	195	112	37	48.8	62	110	50	3°		

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

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.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO50 - PHC 12 S - 150
 Shank size I.D. (d) Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO50 - PHC 12 S - 150
 Shank size I.D. (d) Projection length (L)

Tightening torque (Torque wrench : p.498)

model	I.D. (d)	Tightening torque (Nm)
	mm	
PHC-S	06 ~ 12, 16	9 ~ 10
PHC-S	20 ~ 25	23 ~ 24

Hex. Wrench

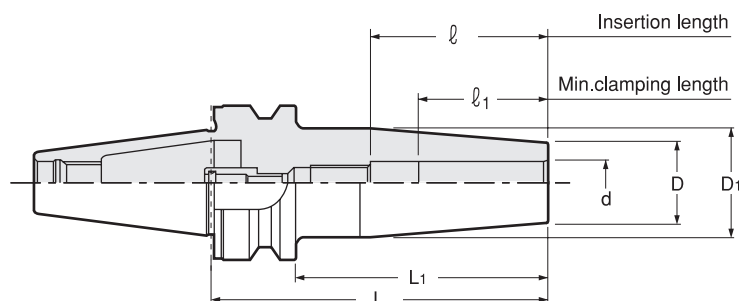
P. 095



Shrink Fit (DIN Standard)

※ AHO Retention Stud is required.

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	d	L	L1	D	D1	l1	l
3820 ※ 2010000	NBT-AHO30 or WBT-AHO30 -SRD6A -80	6	80	58	21	27	26	26 ~ 36
3820 ※ 2020000	-105	6	105	83	21	27	26	26 ~ 36
3820 ※ 2030000	-120	6	120	98	21	27	26	26 ~ 36
3820 ※ 2040000	NBT-AHO30 or WBT-AHO30 -SRD8A -80	8	80	58	21	27	26	26 ~ 36
3820 ※ 2050000	-105	8	105	83	21	27	26	26 ~ 50
3820 ※ 2060000	-120	8	120	98	21	27	26	26 ~ 50
3820 ※ 2070000	NBT-AHO30 or WBT-AHO30 -SRD10A -80	10	80	58	24	32	32	32 ~ 42
3820 ※ 2080000	-105	10	105	83	24	32	32	32 ~ 50
3820 ※ 2090000	-120	10	120	98	24	32	32	32 ~ 50
3820 ※ 2100000	NBT-AHO30 or WBT-AHO30 -SRD12A -90	12	90	68	24	32	37	37 ~ 47
3820 ※ 2110000	-105	12	105	83	24	32	37	37 ~ 60
3820 ※ 2120000	-120	12	120	98	24	32	37	37 ~ 70
3820 ※ 2130000	NBT-AHO30 or WBT-AHO30 -SRD14A -90	14	90	68	27	34	37	37 ~ 47
3820 ※ 2140000	-105	14	105	83	27	34	37	37 ~ 60
3820 ※ 2150000	-120	14	120	98	27	34	37	37 ~ 70
3820 ※ 2160000	NBT-AHO30 or WBT-AHO30 -SRD16A -90	16	90	68	27	34	40	40 ~ 50
3820 ※ 2170000	-105	16	105	83	27	34	40	40 ~ 60
3820 ※ 2180000	-120	16	120	98	27	34	40	40 ~ 70
3820 ※ 2190000	NBT-AHO40 or WBT-AHO40 -SRD6A -90	6	90	63	21	27	26	26 ~ 36
3820 ※ 2200000	-120	6	120	93	21	27	26	26 ~ 36
3820 ※ 2210000	-160	6	160	133	21	27	26	26 ~ 36
3820 ※ 2220000	NBT-AHO40 or WBT-AHO40 -SRD8A -90	8	90	63	21	27	26	26 ~ 50
3820 ※ 2230000	-120	8	120	93	21	27	26	26 ~ 50
3820 ※ 2240000	-160	8	160	133	21	27	26	26 ~ 50
3820 ※ 2250000	NBT-AHO40 or WBT-AHO40 -SRD10A -90	10	90	63	24	32	32	32 ~ 50
3820 ※ 2260000	-120	10	120	93	24	32	32	32 ~ 50
3820 ※ 2270000	-160	10	160	133	24	32	32	32 ~ 50
3820 ※ 2280000	NBT-AHO40 or WBT-AHO40 -SRD12A -90	12	90	63	24	32	37	37 ~ 55
3820 ※ 2290000	-120	12	120	93	24	32	37	37 ~ 70
3820 ※ 2300000	-160	12	160	133	24	32	37	37 ~ 70
3820 ※ 2310000	NBT-AHO40 or WBT-AHO40 -SRD14A -90	14	90	63	27	34	37	37 ~ 60
3820 ※ 2320000	-120	14	120	93	27	34	37	37 ~ 70
3820 ※ 2330000	-160	14	160	133	27	34	37	37 ~ 70
3820 ※ 2340000	NBT-AHO40 or WBT-AHO40 -SRD16A -90	16	90	63	27	34	40	40 ~ 60
3820 ※ 2350000	-120	16	120	93	27	34	40	40 ~ 70
3820 ※ 2360000	-160	16	160	133	27	34	40	40 ~ 80

Metric Sizes

Unit : Metric

Code	Model	d	L	L1	D	D1	ℓ1	ℓ
3820 ※ 2370000	NBT-AHO40 or WBT-AHO40 -SRD18A -105	18	105	78	33	42	40	40 ~ 60
3820 ※ 2380000	-120	18	120	93	33	42	40	40 ~ 70
3820 ※ 2390000	-160	18	160	133	33	42	40	40 ~ 80
3820 ※ 2400000	NBT-AHO40 or WBT-AHO40 -SRD20A -105	20	105	78	33	42	42	42 ~ 60
3820 ※ 2410000	-120	20	120	93	33	42	42	42 ~ 70
3820 ※ 2420000	-160	20	160	133	33	42	42	42 ~ 100
3820 ※ 2430000	NBT-AHO40 or WBT-AHO40 -SRD25A -105	25	105	78	44	53	48	48 ~ 60
3820 ※ 2440000	-120	25	120	93	44	53	48	48 ~ 70
3820 ※ 2450000	-160	25	160	133	44	53	48	48 ~ 105
3820 ※ 2460000	NBT-AHO40 or WBT-AHO40 -SRD32A -105	32	105	78	44	53	52	52 ~ 60
3820 ※ 2470000	-120	32	120	93	44	53	52	52 ~ 70
3820 ※ 2480000	-160	32	160	133	44	53	52	52 ~ 105
3820 ※ 2490000	NBT-AHO50 or WBT-AHO50 -SRD6A -100	6	100	62	21	27	26	26 ~ 36
3820 ※ 2500000	-120	6	120	82	21	27	26	26 ~ 50
3820 ※ 2510000	-160	6	160	122	21	27	26	37 ~ 55
3820 ※ 2520000	NBT-AHO50 or WBT-AHO50 -SRD8A -100	8	100	62	21	27	26	37 ~ 70
3820 ※ 2530000	-120	8	120	82	21	27	26	37 ~ 60
3820 ※ 2540000	-160	8	160	122	21	27	26	37 ~ 70
3820 ※ 2550000	NBT-AHO50 or WBT-AHO50 -SRD10A -100	10	100	62	24	32	32	37 ~ 70
3820 ※ 2560000	-120	10	120	82	24	32	32	32 ~ 50
3820 ※ 2570000	-160	10	160	122	24	32	32	32 ~ 50
3820 ※ 2580000	NBT-AHO50 or WBT-AHO50 -SRD12A -100	12	100	62	24	32	37	32 ~ 50
3820 ※ 2590000	-120	12	120	82	24	32	37	32 ~ 50
3820 ※ 2600000	-160	12	160	122	24	32	37	32 ~ 50
3820 ※ 2610000	NBT-AHO50 or WBT-AHO50 -SRD14A -100	14	100	62	27	34	37	32 ~ 50
3820 ※ 2620000	-120	14	120	82	27	34	37	32 ~ 50
3820 ※ 2630000	-160	14	160	122	27	34	37	32 ~ 50
3820 ※ 2640000	NBT-AHO50 or WBT-AHO50 -SRD16A -105	16	105	67	27	34	40	40 ~ 60
3820 ※ 2650000	-120	16	120	82	27	34	40	40 ~ 70
3820 ※ 2660000	-160	16	160	122	27	34	40	40 ~ 80
3820 ※ 2670000	NBT-AHO50 or WBT-AHO50 -SRD18A -105	18	105	67	33	42	40	40 ~ 60
3820 ※ 2680000	-120	18	120	82	33	42	40	40 ~ 70
3820 ※ 2690000	-160	18	160	122	33	42	40	40 ~ 80
3820 ※ 2700000	NBT-AHO50 or WBT-AHO50 -SRD20A -105	20	105	67	33	42	42	42 ~ 60
3820 ※ 2710000	-120	20	120	82	33	42	42	42 ~ 70
3820 ※ 2720000	-160	20	160	122	33	42	42	42 ~ 100
3820 ※ 2730000	NBT-AHO50 or WBT-AHO50 -SRD25A -110	25	110	72	44	53	48	48 ~ 65
3820 ※ 2740000	-135	25	135	97	44	53	48	48 ~ 85
3820 ※ 2750000	-160	25	160	122	44	53	48	48 ~ 110
3820 ※ 2760000	NBT-AHO50 or WBT-AHO50 -SRD32A -110	32	110	72	44	53	52	52 ~ 65
3820 ※ 2770000	-135	32	135	97	44	53	52	52 ~ 85
3820 ※ 2780000	-160	32	160	122	44	53	52	52 ~ 110

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Always use carbide shank tools with h6 tolerance.

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

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - SRD 10 A - 105
 Shank size I.D. (d) Projection length (L)

Ordering Example

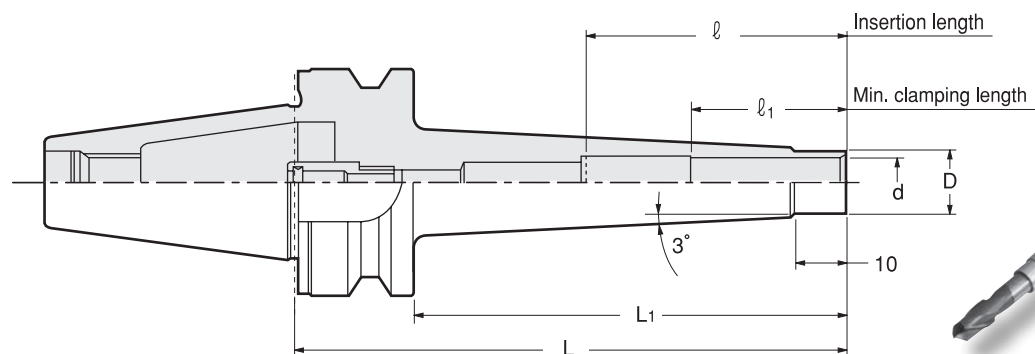
Corresponding to BT two-face contact spindle

WBT-AHO40 - SRD 10 A - 105
 Shank size I.D. (d) Projection length (L)

Shrink Fit (Slim Type)

※ AHO Retention Stud is required.

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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	d	L	L1	D	l1	l
3820 ※ 1370000	NBT-AHO30 or WBT-AHO30 -SRS6A -105	6	105	83	9	26	26 ~ 36
3820 ※ 1380000	-135	6	135	113	9	26	26 ~ 36
3820 ※ 1390000	NBT-AHO30 or WBT-AHO30 -SRS8A -105	8	105	83	11	26	26 ~ 50
3820 ※ 1400000	-135	8	135	113	11	26	26 ~ 50
3820 ※ 1410000	NBT-AHO30 or WBT-AHO30 -SRS10A -105	10	105	83	13	32	32 ~ 50
3820 ※ 1420000	-135	10	135	113	13	32	32 ~ 50
3820 ※ 1430000	NBT-AHO30 or WBT-AHO30 -SRS12A -105	12	105	83	15	37	37 ~ 70
3820 ※ 1440000	-135	12	135	113	15	37	37 ~ 70
3820 ※ 1450000	NBT-AHO30 or WBT-AHO30 -SRS16A -105	16	105	83	20	40	40 ~ 80
3820 ※ 1460000	-135	16	135	113	20	40	40 ~ 80
3820 ※ 1010000	NBT-AHO40 or WBT-AHO40 -SRS6A -105	6	105	78	9	26	26 ~ 36
3820 ※ 1020000	-135	6	135	108	9	26	26 ~ 36
3820 ※ 1030000	NBT-AHO40 or WBT-AHO40 -SRS8A -105	8	105	78	11	26	26 ~ 50
3820 ※ 1040000	-135	8	135	108	11	26	26 ~ 50
3820 ※ 1050000	NBT-AHO40 or WBT-AHO40 -SRS10A -105	10	105	78	13	32	32 ~ 50
3820 ※ 1060000	-135	10	135	108	13	32	32 ~ 50
3820 ※ 1070000	-165	10	165	138	13	32	32 ~ 50
3820 ※ 1080000	NBT-AHO40 or WBT-AHO40 -SRS12A -105	12	105	78	15	37	37 ~ 70
3820 ※ 1090000	-135	12	135	108	15	37	37 ~ 70
3820 ※ 1100000	-165	12	165	138	15	37	37 ~ 70
3820 ※ 1110000	NBT-AHO40 or WBT-AHO40 -SRS16A -105	16	105	78	20	40	40 ~ 80
3820 ※ 1120000	-135	16	135	108	20	40	40 ~ 80
3820 ※ 1130000	-165	16	165	138	20	40	40 ~ 80
3820 ※ 1140000	NBT-AHO40 or WBT-AHO40 -SRS20A -105	20	105	78	26	42	42 ~ 85
3820 ※ 1150000	-135	20	135	108	26	42	42 ~ 100
3820 ※ 1160000	-165	20	165	138	26	42	42 ~ 100
3820 ※ 1170000	NBT-AHO50 or WBT-AHO50 -SRS6A -105	6	105	67	9	26	26 ~ 36
3820 ※ 1180000	-135	6	135	97	9	26	26 ~ 36
3820 ※ 1190000	NBT-AHO50 or WBT-AHO50 -SRS8A -105	8	105	67	11	26	26 ~ 50
3820 ※ 1200000	-135	8	135	97	11	26	26 ~ 50
3820 ※ 1210000	NBT-AHO50 or WBT-AHO50 -SRS10A -105	10	105	67	13	32	32 ~ 50
3820 ※ 1220000	-135	10	135	97	13	32	32 ~ 50
3820 ※ 1230000	-165	10	165	127	13	32	32 ~ 50
3820 ※ 1240000	-195	10	195	157	13	32	32 ~ 50
3820 ※ 1250000	NBT-AHO50 or WBT-AHO50 -SRS12A -105	12	105	67	15	37	37 ~ 70
3820 ※ 1260000	-135	12	135	97	15	37	37 ~ 70
3820 ※ 1270000	-165	12	165	127	15	37	37 ~ 70
3820 ※ 1280000	-195	12	195	157	15	37	37 ~ 70

Metric Sizes

Unit : Metric

Code	Model	d	L	L1	D	ℓ1	ℓ
3820 ※ 1290000	NBT-AHO50 or WBT-AHO50 -SRS16A -105	16	105	67	20	40	40 ~ 80
3820 ※ 1300000	-135	16	135	97	20	40	40 ~ 80
3820 ※ 1310000	-165	16	165	127	20	40	40 ~ 80
3820 ※ 1320000	-195	16	195	157	20	40	40 ~ 80
3820 ※ 1330000	NBT-AHO50 or WBT-AHO50 -SRS20A -105	20	105	67	26	42	42 ~ 85
3820 ※ 1340000	-135	20	135	97	26	42	42 ~ 100
3820 ※ 1350000	-165	20	165	127	26	42	42 ~ 100
3820 ※ 1360000	-195	20	195	157	26	42	42 ~ 100

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Always use carbide shank tools with h6 tolerance.

Heating device chart

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

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - SRS 12 A - 105
 Shank size I.D. (d) Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - SRS 12 A - 105
 Shank size I.D. (d) Projection length (L)

Synchronous Tap Holder With Easy Tool Length Adjustment

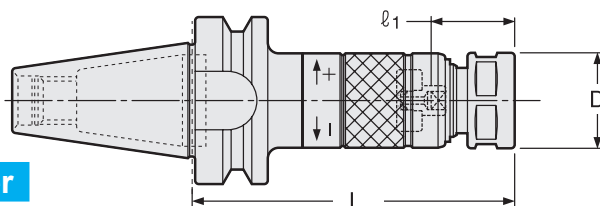
※ AHO Retention Stud is required.

- 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 19mm.



STM Holder + **Collet** + **STS Driver**



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric

Code	Model	Tap Size	L	D	Nut	Collet	Preset Driver	Spanner	
3740 ※ 0010000	NBT-AHO30 or WBT-AHO30 -STM8 -75 ※	Old JIS Taps M4 ~ 8 U No8 ~ 5/16	75	21	KDP-1414	FDC-07	STS-8	Flat 17mm width	
3740 ※ 0020000			90	21	KDP-1414				
3740 ※ 0030000			105	21	KDP-1414				
3740 ※ 0040000			120	21	KDP-1414				
3740 ※ 0050000			135	21	KDP-1414				
3740 ※ 0060000	-150	150	21	KDP-1414					
3740 ※ 0070000	NBT-AHO30 or WBT-AHO30 -STM12-75 ※	Old JIS Taps M4 ~ 12 U No8 ~ 7/16 PT1/8	75	26	HTP-09	FSC-09	STS-12	S-1L	
3740 ※ 0080000			90	26	HTP-09				
3740 ※ 0090000			105	26	HTP-09				
3740 ※ 0100000			120	26	HTP-09				
3740 ※ 0110000			135	26	HTP-09				
3740 ※ 0120000	-135	150	26	HTP-09					
3740 ※ 0130000	-165	165	26	HTP-09					
3740 ※ 0140000	NBT-AHO30 or WBT-AHO30 -STM18-90	Old JIS Taps M14 ~ 18 U1/2 ~ 3/4 PT1/4 ~ 3/8	90	36	HTP-16	FSC-16	STS-18	S-4L	
3740 ※ 0150000			105	36	HTP-16				
3740 ※ 0160000			120	36	HTP-16				
3740 ※ 0170000			135	36	HTP-16				
3740 ※ 0180000			150	36	HTP-16				
3740 ※ 0190000	-165	165	36	HTP-16					
3740 ※ 0200000	NBT-AHO30 or WBT-AHO30 -STM30-105	Old JIS Taps M20 ~ 30 U7/8 ~ 1-1/8 PT1/2 ~ 3/4	105	46	HTP-22	FSC-22	STS-30	S-5L	
3740 ※ 0210000			120	46	HTP-22				
3740 ※ 0220000			135	46	HTP-22				
3740 ※ 0230000			150	46	HTP-22				
3740 ※ 0240000			-165	165	46				HTP-22
3740 ※ 0250000	NBT-AHO40 or WBT-AHO40 -STM8 -90	Old JIS Taps M4 ~ 8 U No8 ~ 5/16	90	21	KDP-1414	FDC-07	STS-8	Flat 17mm width	
3740 ※ 0260000			105	21	KDP-1414				
3740 ※ 0270000			120	21	KDP-1414				
3740 ※ 0280000			135	21	KDP-1414				
3740 ※ 0290000			150	21	KDP-1414				
3740 ※ 0300000	NBT-AHO40 or WBT-AHO40 -STM12-90	Old JIS Taps M4 ~ 12 U No8 ~ 7/16 PT1/8	90	26	HTP-09	FSC-09	STS-12	S-1L	
3740 ※ 0310000			105	26	HTP-09				
3740 ※ 0320000			120	26	HTP-09				
3740 ※ 0330000			135	26	HTP-09				
3740 ※ 0340000			150	26	HTP-09				
3740 ※ 0350000	-180	180	26	HTP-09					
3740 ※ 0360000	NBT-AHO40 or WBT-AHO40 -STM18-105	Old JIS Taps M14 ~ 18 U1/2 ~ 3/4 PT1/4 ~ 3/8	105	36	HTP-16	FSC-16	STS-18	S-4L	
3740 ※ 0370000			120	36	HTP-16				
3740 ※ 0380000			135	36	HTP-16				
3740 ※ 0390000			150	36	HTP-16				
3740 ※ 0400000			-180	180	36				HTP-16
3740 ※ 0410000	NBT-AHO40 or WBT-AHO40 -STM30-120	Old JIS Taps M20 ~ 30 U7/8 ~ 1-1/8 PT1/2 ~ 3/4	120	46	HTP-22	FSC-22	STS-30	S-5L	
3740 ※ 0420000			135	46	HTP-22				
3740 ※ 0430000			150	46	HTP-22				
3740 ※ 0440000			-180	180	46				HTP-22
3740 ※ 0450000			NBT-AHO50 or WBT-AHO50 -STM8 -90 ※	Old JIS Taps M4 ~ 8 U No8 ~ 5/16	90				21
3740 ※ 0460000	105	21			KDP-1414				
3740 ※ 0470000	120	21			KDP-1414				
3740 ※ 0480000	135	21			KDP-1414				
3740 ※ 0490000	150	21			KDP-1414				
3740 ※ 0500000	-165	165	21	KDP-1414					
3740 ※ 0510000	NBT-AHO50 or WBT-AHO50 -STM12-90 ※	Old JIS Taps M4 ~ 12 U No8 ~ 7/16 PT1/8	90	26	HTP-09	FSC-09	STS-12	S-1L	
3740 ※ 0520000			105	26	HTP-09				
3740 ※ 0530000			120	26	HTP-09				
3740 ※ 0540000			135	26	HTP-09				
3740 ※ 0550000			150	26	HTP-09				
3740 ※ 0560000	-180	180	26	HTP-09					

Code	Model	Tap Size	L	D	Nut	Collet	Preset Driver	Spanner
3740 ※ 0570000	NBT-AHO50 or WBT-AHO50 -STM18-105	Old JIS Taps	105	36	HTP-16	FSC-16	STS-18	S-4L
3740 ※ 0580000		M14 ~ 18	120	36	HTP-16			
3740 ※ 0590000		U1/2 ~ 3/4 PT1/4 ~ 3/8	135	36	HTP-16			
3740 ※ 0600000		OSG Synchro Taps	150	36	HTP-16			
3740 ※ 0610000		M12 ~ 14	180	36	HTP-16			
3740 ※ 0620000	NBT-AHO50 or WBT-AHO50 -STM30-120	Old JIS Taps	120	46	HTP-22	FSC-22	STS-30	S-5L
3740 ※ 0630000		M20 ~ 30	135	46	HTP-22			
3740 ※ 0640000		U7/8 ~ 1-1/8 PT1/2 ~ 3/4	150	46	HTP-22			
3740 ※ 0650000		OSG Synchro Taps	180	46	HTP-22			
3740 ※ 0660000		M16 ~ 27	210	46	HTP-22			

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

1. Collet, spanner and preset driver are sold separately.
2. Please see below for ℓ1 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



Corresponding to our two-face contact BT spindle

NBT-AHO40	-	STM	18	-	120
Shank size		Holder size			Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40	-	STM	18	-	120
Shank size		Holder size			Projection length (L)

Collet	Preset driver
P.270	P.268-269
	

ℓ1 Dimension for STM

Old JIS Taps			
Without center-through coolant			With center-through coolant (STM12 ~ 30)
Tap Size	ℓ1	ℓ1(※)	ℓ1
M4 ~ 6	21 ~ 35	21 ~ 26	24 ~ 35
U No.8 ~ 1/4			24 ~ 26
M7 ~ 12	23 ~ 37	23 ~ 28	25 ~ 37
U 5/16 ~ U7/16			25 ~ 28
PT1/8			
M13 ~ 15	28 ~ 42	-	26 ~ 37
U 1/2 ~ 5/8			26 ~ 28
PT1/4			
M16 ~ 17	32 ~ 45	-	32 ~ 42
M18 ~ 27			-
U 3/4 ~ U1	33 ~ 47	-	33 ~ 42
PT3/8 ~ 5/8			-
M30	38 ~ 52	-	34 ~ 42
U1-1/8			-
PT3/4			-

OSG Synchro Taps			
Without center-through coolant			With center-through coolant (STM8)
Tap Size	ℓ1	ℓ1(※)	ℓ1
M4 ~ 6	21 ~ 35	21 ~ 26	25 ~ 35
M8 ~ 10	23 ~ 37	23 ~ 28	25 ~ 26
M12 ~ 14	28 ~ 42	-	26 ~ 37
M16 ~ 27	33 ~ 47	-	26 ~ 28

With center-through coolant (STM12 ~ 30)			
Tap Size	ℓ1	ℓ1(※)	ℓ1(※)
M4 ~ 6	24 ~ 35	24 ~ 26	24 ~ 26
M8 ~ 10	26 ~ 37	26 ~ 28	26 ~ 28
M12	33 ~ 42	-	-
M14	34 ~ 42	-	-
M16 ~ 20	40 ~ 46	-	-
M22 ~ 27	44 ~ 47	-	-

YAMAWA X Series			
Without center-through coolant			With center-through coolant (STM8)
Tap Size	ℓ1	ℓ1(※)	ℓ1
M6 M8	23 ~ 37	23 ~ 28	26 ~ 37
M10 M12	28 ~ 42	-	26 ~ 28

With center-through coolant (STM12 ~ 30)			
Tap Size	ℓ1	ℓ1(※)	ℓ1(※)
M6	25 ~ 37	25 ~ 28	25 ~ 28
M8	26 ~ 37	26 ~ 28	26 ~ 28
M10	33 ~ 42	-	-
M12	34 ~ 42	-	-

Tap size reference chart (collet, preset driver)

FDC-07 or FSC - collet

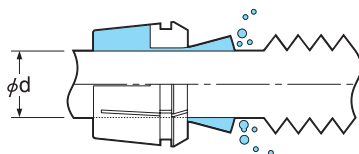
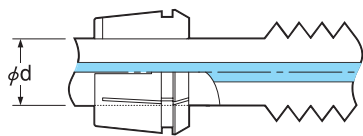
preset driver & tool for changing driver

OH Type

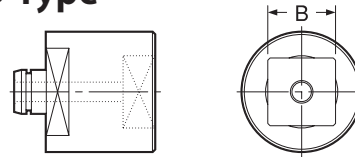
● OH type collet should be used for center-through coolant feeding and external coolant feeding.

C Type

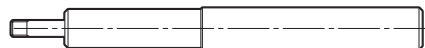
● when "collet-through" coolant feeding is needed.



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
	Metric Thread	Unified Thread	Pipe Taper Thread	OSG Synchro-Taps	YAMAWA X Series					
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
					M8	8.0	FSC-09-8.0-**	6.2	STS12-□6.2	STS-R1
		M11	U7/16	PT1/16~1/8	M8~M10	8.0	FSC-09-8.0-**	6.0	STS12-□6.0	STS-R1
		M12				8.5	FSC-09-8.5-**	6.5	STS12-□6.5	STS-R1
STM18		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	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
		M20				15.0	FSC-22-15.0-**	12.0	STS30-□12.0	STS-R2
STM30				M16~M20		16.0	FSC-22-16.0-**	12.0	STS30-□12.0	STS-R2
						17.0	FSC-22-17.0-**	13.0	STS30-□13.0	STS-R2
		M22	U7/8			18.0	FSC-22-18.0-**	14.0	STS30-□14.0	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
						22.0	FSC-22-22.0-**	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

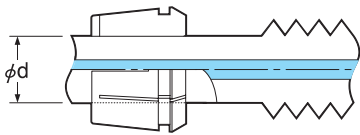
Tap size reference chart (collet, preset driver)

FDC-07 or FSC - collet

preset driver & tool for changing driver

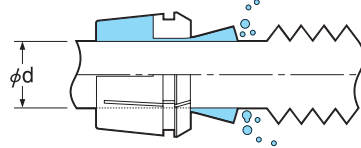
OH Type

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

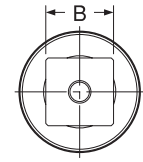
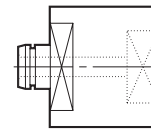


C Type

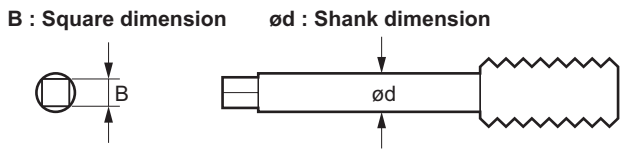
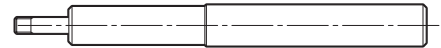
● when "collet-through" coolant feeding is needed.



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

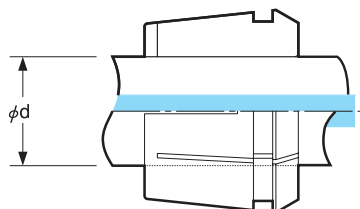
Combination of accessories

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

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

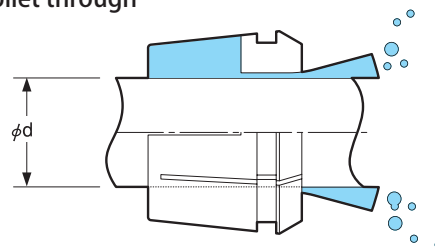
FSC-OH

For tool with coolant hole



FSC-C

For Collet through



Tool Shank Dia.		Size	Code
ϕd (inch)	ϕd (mm)		
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)	ϕd (mm)		
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

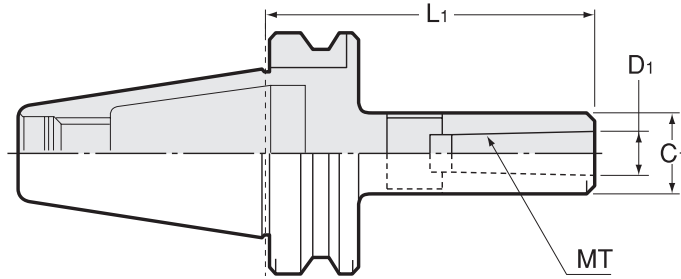
FSC - 16 - 9.0 - C
 16 Series Tool Shank Dia.

MEMO

Morse Taper Holder

※ AHO Retention Stud is required.

- For Morse taper shank with tang.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	MT	L1	D1	C1
3770 ※ 0010000	NBT-AHO30 or WBT-AHO30 -MTA1 -105	1	105	12.065	25
3770 ※ 0020000	NBT-AHO30 or WBT-AHO30 -MTA2 -120	2	120	17.780	32
3770 ※ 0030000	NBT-AHO30 or WBT-AHO30 -MTA3 -135	3	135	23.825	40
3770 ※ 0040000	NBT-AHO40 or WBT-AHO40 -MTA1 -120	1	120	12.065	25
3770 ※ 0050000	NBT-AHO40 or WBT-AHO40 -MTA2 -120	2	120	17.780	32
3770 ※ 0060000	NBT-AHO40 or WBT-AHO40 -MTA3 -135	3	135	23.825	40
3770 ※ 0070000	NBT-AHO40 or WBT-AHO40 -MTA4 -165	4	165	31.267	50
3770 ※ 0080000	NBT-AHO50 or WBT-AHO50 -MTA1 -120	1	120	12.065	25
3770 ※ 0090000	NBT-AHO50 or WBT-AHO50 -MTA2 -180	1	180	12.065	25
3770 ※ 0100000	NBT-AHO50 or WBT-AHO50 -MTA2 -135	2	135	17.780	32
3770 ※ 0110000	NBT-AHO50 or WBT-AHO50 -MTA2 -180	2	180	17.780	32
3770 ※ 0120000	NBT-AHO50 or WBT-AHO50 -MTA3 -150	3	150	23.825	40
3770 ※ 0130000	NBT-AHO50 or WBT-AHO50 -MTA3 -180	3	180	23.825	40
3770 ※ 0140000	NBT-AHO50 or WBT-AHO50 -MTA4 -180	4	180	31.267	50
3770 ※ 0150000	NBT-AHO50 or WBT-AHO50 -MTA5 -210	5	210	44.399	65

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - MTA1 - 120
 Shank size MT1 Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

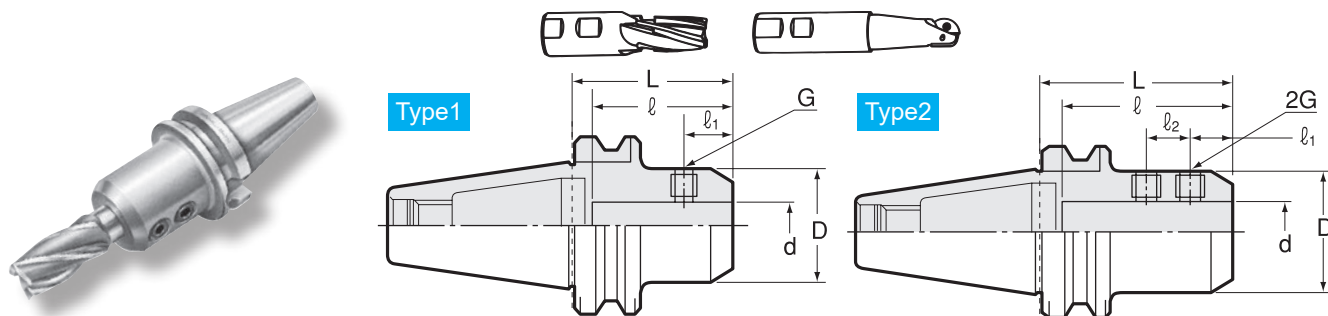
WBT-AHO40 - MTA1 - 120
 Shank size MT1 Projection length (L)

SL2

Side Lock Holder

※ AHO Retention Stud is required.

● For JIS straight shank endmill with flat.



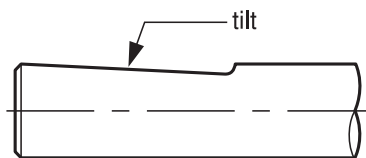
- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	Type	d (H6)	D	L	l ₁	l ₂	l	G
3760 ※ 0010000	NBT-AHO30 or WBT-AHO30 -SL2 -6 -60	1	6	25	60	18	—	36	M6
3760 ※ 0020000	-8 -60	1	8	28	60	18	—	36	M8
3760 ※ 0030000	-10 -60	1	10	35	60	20	—	40	M10
3760 ※ 0040000	-12 -75	1	12	42	75	22.5	—	45	M12
3760 ※ 0050000	-16 -90	1	16	48	90	24	—	48	M14
3760 ※ 0060000	-20 -90	1	20	52	90	25	—	50	M16
3760 ※ 0070000	NBT-AHO40 or WBT-AHO40 -SL2 -6 -75	1	6	25	75	18	—	36	M6
3760 ※ 0080000	-8 -75	1	8	28	75	18	—	36	M8
3760 ※ 0090000	-10 -75	1	10	35	75	20	—	40	M10
3760 ※ 0100000	-12 -75	1	12	42	75	22.5	—	45	M12
3760 ※ 0110000	-16 -75	1	16	48	75	24	—	48	M14
3760 ※ 0120000	-20 -75	1	20	52	75	25	—	50	M16
3760 ※ 0130000	-25 -90	2	25	65	90	24	25	56	M18
3760 ※ 0140000	-32 -120	2	32	72	120	24	28	60	M20
3760 ※ 0150000	NBT-AHO50 or WBT-AHO50 -SL2 -6 -90	1	6	25	90	18	—	36	M6
3760 ※ 0160000	-8 -90	1	8	28	90	18	—	36	M8
3760 ※ 0170000	-10 -90	1	10	35	90	20	—	40	M10
3760 ※ 0180000	-12 -90	1	12	42	90	22.5	—	45	M12
3760 ※ 0190000	-16 -90	1	16	48	90	24	—	48	M14
3760 ※ 0200000	-20 -90	1	20	52	90	25	—	50	M16
3760 ※ 0210000	-25 -105	2	25	65	105	24	25	56	M18
3760 ※ 0220000	-32 -120	2	32	72	120	24	28	60	M20
3760 ※ 0230000	-40 -120	2	40	80	120	30	32	70	M20
3760 ※ 0240000	-42 -120	2	42	82	120	30	32	70	M20

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.



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

Corresponding to our two-face contact BT spindle

NBT-AHO40 - SL2 - 6 - 75

Shank size

I.D.
(d) Projection
length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - SL2 - 6 - 75

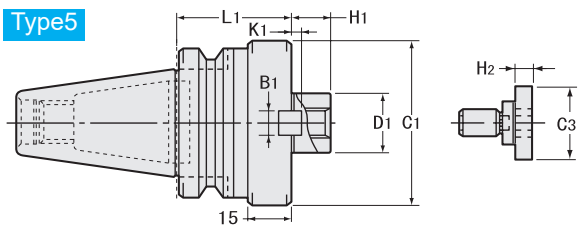
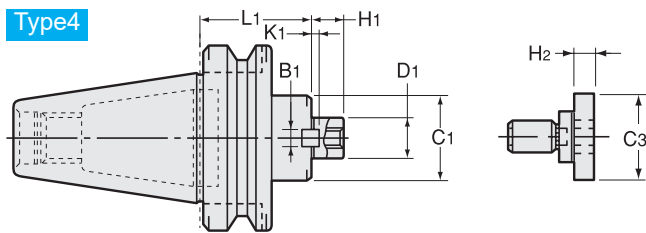
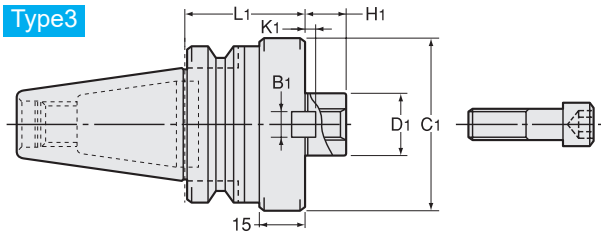
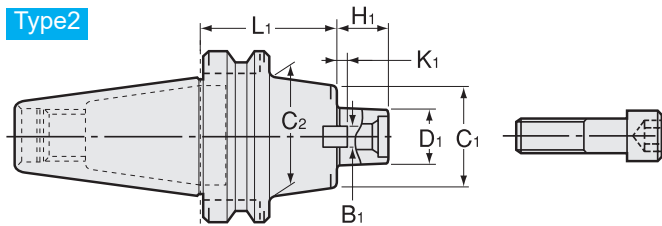
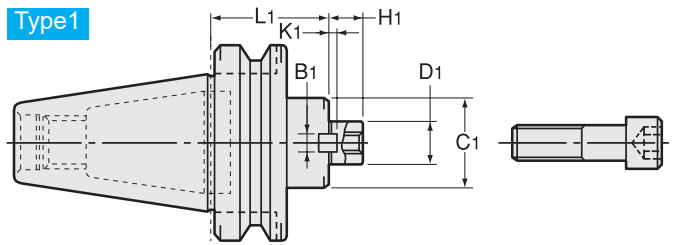
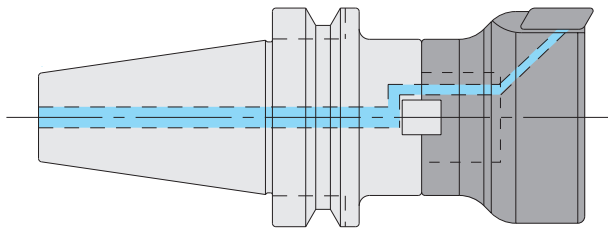
Shank size

I.D.
(d) Projection
length (L)

Face Mill Arbor (For Cutters With Oil Hole)

※ AHO Retention Stud is required.

- Coolant flows from the end face of centering location to cutter with oil hole.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	C2	H1	B1	K1	C3	H2	Clamp Bolt	Cutter dia. example
3810 ※ 3010000	NBT-AHO30 or WBT-AHO30 -FMH16 -45	1	16	45	34	—	17	8	5	—	—	M8	40 50
3810 ※ 3020000	-60	1	16	60	34	—	17	8	5	—	—		
3810 ※ 3030000	NBT-AHO30 or WBT-AHO30 -FMH22 -45	1	22	45	45	—	18	10	5.6	—	—	M10	50 63
3810 ※ 3040000	-60	1	22	60	45	—	18	10	5.6	—	—		
3810 ※ 3050000	NBT-AHO30 or WBT-AHO30 -FMH25.4-60	3	25.4	60	70	—	22	9.5	5	—	—	M12	80 100 125
3810 ※ 3060000	NBT-AHO40 or WBT-AHO40 -FMH16 -45	1	16	45	34	—	17	8	5	—	—		
3810 ※ 3070000	-60	1	16	60	34	—	17	8	5	—	—	M8	40 50
3810 ※ 3080000	-75	1	16	75	34	—	17	8	5	—	—		
3810 ※ 3090000	-90	2	16	90	34	40	17	8	5	—	—		
3810 ※ 3100000	NBT-AHO40 or WBT-AHO40 -FMH22 -45	1	22	45	45	—	18	10	5.6	—	—		
3810 ※ 3110000	-60	1	22	60	45	—	18	10	5.6	—	—	M10	50 63
3810 ※ 3120000	-75	1	22	75	45	—	18	10	5.6	—	—		
3810 ※ 3130000	-90	1	22	90	45	—	18	10	5.6	—	—		
3810 ※ 3140000	NBT-AHO40 or WBT-AHO40 -FMH25.4-60	3	25.4	60	70	—	22	9.5	5	—	—		
3810 ※ 3150000	-75	3	25.4	75	70	—	22	9.5	5	—	—	M12	80 100 125
3810 ※ 3160000	-90	3	25.4	90	70	—	22	9.5	5	—	—		

Metric Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	C2	H1	B1	K1	C3	H2	Clamp Bolt	Cutter dia. example
3810 ※ 3170000	NBT-AHO40 or WBT-AHO40 -FMH31.75-60	3	31.75	60	80	—	30	12.7	7	—	—	M16	80 100
3810 ※ 3180000	-75	3	31.75	75	80	—	30	12.7	7	—	—		
3810 ※ 3190000	-90	3	31.75	90	80	—	30	12.7	7	—	—		
3810 ※ 3200000	NBT-AHO40 or WBT-AHO40 -FMH38.1-60	5	38.1	60	90	—	34	15.9	9	50	14	MBAH-M20	125
3810 ※ 3210000	-75	5	38.1	75	90	—	34	15.9	9	50	14		
3810 ※ 3220000	-90	5	38.1	90	90	—	34	15.9	9	50	14		
3810 ※ 3230000	NBT-AHO50 or WBT-AHO50 -FMH16-45	1	16	45	34	—	17	8	5	—	—	M8	40 50
3810 ※ 3240000	-90	2	16	90	34	40	17	8	5	—	—		
3810 ※ 3250000	-150	2	16	150	34	40	17	8	5	—	—		
3810 ※ 3260000	-200	2	16	200	34	40	17	8	5	—	—		
3810 ※ 3270000	NBT-AHO50 or WBT-AHO50 -FMH22-45	1	22	45	45	—	18	10	5.6	—	—	M10	50 63
3810 ※ 3280000	-90	1	22	90	45	—	18	10	5.6	—	—		
3810 ※ 3290000	-150	1	22	150	45	—	18	10	5.6	—	—		
3810 ※ 3300000	-200	1	22	200	45	—	18	10	5.6	—	—		
3810 ※ 3310000	NBT-AHO50 or WBT-AHO50 -FMH25.4-45	1	25.4	45	70	—	22	9.5	5	—	—	M12	80 100 125
3810 ※ 3320000	-90	2	25.4	90	70	80	22	9.5	5	—	—		
3810 ※ 3330000	-150	2	25.4	150	70	80	22	9.5	5	—	—		
3810 ※ 3340000	-200	2	25.4	200	70	80	22	9.5	5	—	—		
3810 ※ 3350000	NBT-AHO50 or WBT-AHO50 -FMH31.75-45	1	31.75	45	80	—	30	12.7	7	—	—	M16	80 100
3810 ※ 3360000	-105	1	31.75	105	80	—	30	12.7	7	—	—		
3810 ※ 3370000	-150	1	31.75	150	80	—	30	12.7	7	—	—		
3810 ※ 3380000	-200	1	31.75	200	80	—	30	12.7	7	—	—		
3810 ※ 3390000	NBT-AHO50 or WBT-AHO50 -FMH38.1-45	4	38.1	45	90	—	34	15.9	9	50	14	MBAH-M20	125
3810 ※ 3400000	-75	4	38.1	75	90	—	34	15.9	9	50	14		
3810 ※ 3410000	-105	4	38.1	105	90	—	34	15.9	9	50	14		
3810 ※ 3420000	-150	4	38.1	150	90	—	34	15.9	9	50	14		
3810 ※ 3430000	NBT-AHO50 or WBT-AHO50 -FMH50.8-45	4	50.8	45	100	—	36	19.05	10	65	14	MBAH-M24	160
3810 ※ 3440000	-75	4	50.8	75	100	—	36	19.05	10	65	14		
3810 ※ 3450000	-105	4	50.8	105	100	—	36	19.05	10	65	14		
3810 ※ 3460000	-150	4	50.8	150	100	—	36	19.05	10	65	14		

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Clamp bolt is Included.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - FMH 25.4 - 60
 Shank size D1 Projection length (L)

Ordering Example

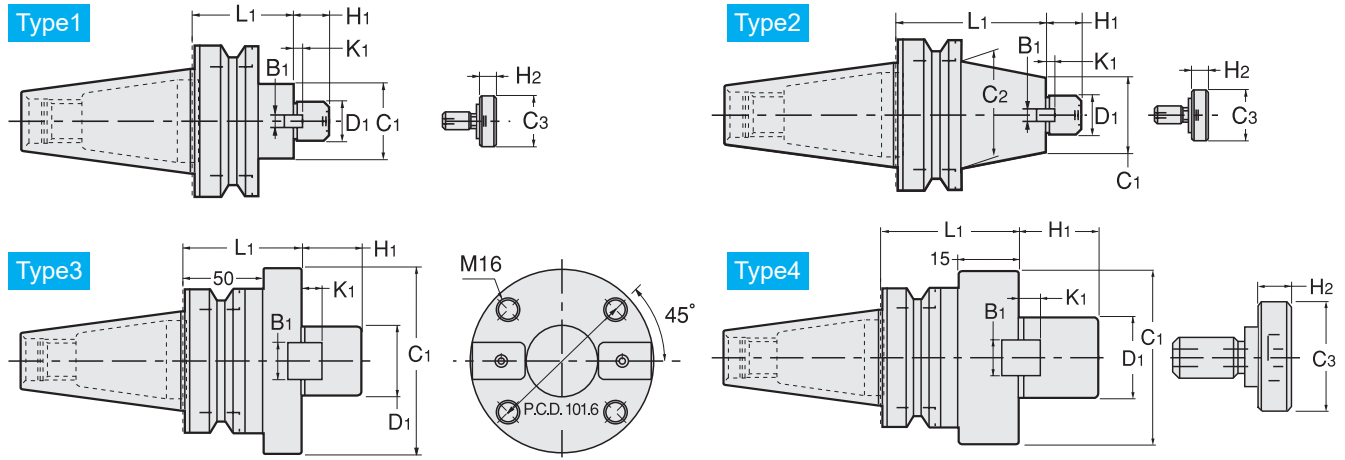
Corresponding to BT two-face contact spindle

WBT-AHO40 - FMH 25.4 - 60
 Shank size D1 Projection length (L)

Face Mill Arbor

※ AHO Retention Stud is required.

● For JIS B4113 face mill.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Metric Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	C2	H1	B1	K1	C3	H2	kg	Clamp Bolt	Cutter dia. example
3810 ※ 0350000	NBT-AHO30 or WBT-AHO30 -FMA22.225-45	1	22.225	45	42	—	18	8	4	—	—		M10	50
3810 ※ 0360000	-60	1	22.225	60	42	—	18	8	4	—	—	0.8		
3810 ※ 0260000	-FMA25.4-45	4	25.4	45	50	—	22	9.5	5	33	10	0.8	MBA-M12	76
3810 ※ 0250000	-60	4	25.4	60	50	—	22	9.5	5	33	10	1.0		
3810 ※ 0010000	NBT-AHO40 or WBT-AHO40 -FMA25.4-45	1	25.4	45	50	—	22	9.5	5	33	10		MBA-M12	76
3810 ※ 0370000	-60	1	25.4	60	50	—	22	9.5	5	33	10			
3810 ※ 0380000	-75	1	25.4	75	50	—	22	9.5	5	33	10			
3810 ※ 0020000	-90	1	25.4	90	50	—	22	9.5	5	33	10			
3810 ※ 0030000	-FMA31.75-45	1	31.75	45	60	—	30	12.7	7	40	10		MBA-M16	102
3810 ※ 0390000	-60	1	31.75	60	60	—	30	12.7	7	40	10			
3810 ※ 0040000	-75	1	31.75	75	60	—	30	12.7	7	40	10	2.1		
3810 ※ 0400000	-90	1	31.75	90	60	—	30	12.7	7	40	10			
3810 ※ 0050000	-FMA38.1-60	4	38.1	60	80	—	34	15.9	9	50	14		MBA-M20	127
3810 ※ 0410000	-75	4	38.1	75	80	—	34	15.9	9	50	14			
3810 ※ 0420000	-90	4	38.1	90	80	—	34	15.9	9	50	14			
3810 ※ 0060000	NBT-AHO50 or WBT-AHO50 -FMA25.4-45	1	25.4	45	50	—	22	9.5	5	33	10		MBA-M12	76
3810 ※ 0070000	-90	2	25.4	90	50	70	22	9.5	5	33	10			
3810 ※ 0080000	-150	2	25.4	150	50	70	22	9.5	5	33	10			
3810 ※ 0090000	-200	2	25.4	200	50	70	22	9.5	5	33	10	6.5		
3810 ※ 0430000	-250 *	2	25.4	250	50	70	22	9.5	5	33	10			
3810 ※ 0440000	-300 *	2	25.4	300	50	70	22	9.5	5	33	10			
3810 ※ 0100000	NBT-AHO50 or WBT-AHO50 -FMA31.75-45	1	31.75	45	60	—	30	12.7	7	40	10		MBA-M16	102
3810 ※ 0120000	-105	2	31.75	105	60	70	30	12.7	7	40	10	4.8		
3810 ※ 0130000	-150	2	31.75	150	60	70	30	12.7	7	40	10			
3810 ※ 0140000	-200	2	31.75	200	60	90	30	12.7	7	40	10	7.8		
3810 ※ 0150000	-250 *	2	31.75	250	60	90	30	12.7	7	40	10			
3810 ※ 0450000	-300 *	2	31.75	300	60	90	30	12.7	7	40	10	10.8		

Metric Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	C2	H1	B1	K1	C3	H2	kg	Clamp Bolt	Cutter dia. example
3810 ※ 0160000	NBT-AHO50 or WBT-AHO50 -FMA38.1 -45	1	38.1	45	80	—	34	15.9	9	50	14		MBA-M20	127
3810 ※ 0170000	-75	1	38.1	75	80	—	34	15.9	9	50	14			
3810 ※ 0180000	-105	1	38.1	105	80	—	34	15.9	9	50	14			
3810 ※ 0190000	-150	1	38.1	150	80	—	34	15.9	9	50	14			
3810 ※ 0200000	NBT-AHO50 or WBT-AHO50 -FMA50.8 -45	1	50.8	45	100	—	36	19.05	10	65	14		MBA-M24	152 178
3810 ※ 0210000	-75	1	50.8	75	100	—	36	19.05	10	65	14	5.8		
3810 ※ 0220000	-105	1	50.8	105	100	—	36	19.05	10	65	14			
3810 ※ 0230000	-150	1	50.8	150	100	—	36	19.05	10	65	14			
3810 ※ 0240000	-FMA47.625-75 *	3	47.625	75	128.57	—	38	25.4	12.5	—	—	6.9	M16	203

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Models with * are not center through coolant feed compliant.

Clamp bolt is Included.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - FMA 25.4 - 60

Shank size

D1

Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - FMA 25.4 - 60

Shank size

D1

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

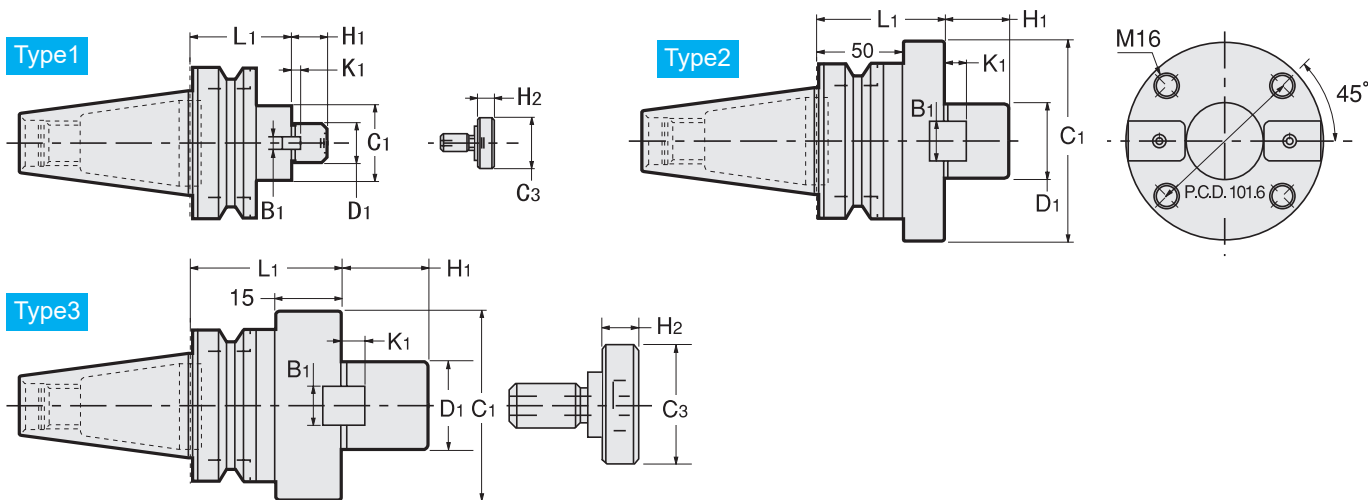
Shrink Fit

Tapping Chuck

Arbors

Function Holder

Retention Stud



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Inch Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	H1	B1	K1	C3	H2	Clamp Bolt	Cutter dia. example
3810 ※ 1130000	NBT-AHO30 or WBT-AHO30 -FMB25.4 -45	3	25.4	45	80	26	9.5	5	33	10	MBA-M12	80
3810 ※ 1140000	-60	3	25.4	60	80	26	9.5	5	33	10		
3810 ※ 1150000	NBT-AHO40 or WBT-AHO40 -FMB25.4 -60	3	25.4	60	80	26	9.5	5	33	10	MBA-M12	80
3810 ※ 1160000	-90	3	25.4	90	80	26	9.5	5	33	10		
3810 ※ 1170000	NBT-AHO40 or WBT-AHO40 -FMB38.1 -60	3	38.1	60	85	26	15.9	9	50	14	MBA-M20	100 125
3810 ※ 1180000	NBT-AHO50 or WBT-AHO50 -FMB25.4 -45	1	25.4	45	80	26	9.5	5	33	10	MBA-M12	80
3810 ※ 1190000	-90	1	25.4	90	80	26	9.5	5	33	10		
3810 ※ 1200000	-150	1	25.4	150	80	26	9.5	5	33	10		
3810 ※ 1210000	NBT-AHO50 or WBT-AHO50 -FMB38.1 -45	1	38.1	45	85	26	15.9	9	50	14	MBA-M20	100 125
3810 ※ 1220000	-75	1	38.1	75	85	26	15.9	9	50	14		
3810 ※ 1230000	-105	1	38.1	105	85	26	15.9	9	50	14		

Clamp bolt is Included.

Metric Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	H1	B1	K1	C3	H2	kg	Clamp Bolt	Cutter dia. example
3810 ※ 1010000	NBT-AHO30 or WBT-AHO30	-FMB27 -45	3	27	45	80	26	12	6	33	10	MBA-M12	80
3810 ※ 1020000		-60	3	27	60	80	26	12	6	33	10		
3810 ※ 1030000	NBT-AHO40 or WBT-AHO40	-FMB27 -60	3	27	60	80	26	12	6	33	10	MBA-M12	80
3810 ※ 1040000		-90	3	27	90	80	26	12	6	33	10	2.7	
3810 ※ 1050000	NBT-AHO40 or WBT-AHO40	-FMB40 -60	3	40	60	85	26	16	8.5	50	14	MBA-M20	100 125
3810 ※ 1060000	NBT-AHO50 or WBT-AHO50	-FMB27 -45	1	27	45	80	26	12	6	33	10	MBA-M12	80
3810 ※ 1070000		-90	1	27	90	80	26	12	6	33	10		
3810 ※ 1080000		-150	1	27	150	80	26	12	6	33	10		
3810 ※ 1090000	NBT-AHO50 or WBT-AHO50	-FMB40 -45	1	40	45	85	26	16	8.5	50	14	MBA-M20	100 125
3810 ※ 1100000		-75	1	40	75	85	26	16	8.5	50	14		
3810 ※ 1110000		-105	1	40	105	85	26	16	8.5	50	14		
3810 ※ 1120000	NBT-AHO50 or WBT-AHO50	-FMB60 -75 *	2	60	75	140	25	25.4	12.5	—	—	M16	200

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Models with * are not center through coolant feed compliant

Clamp bolt is Included.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - FMB 25.4 - 60
 Shank size D1 Projection length (L)

Ordering Example

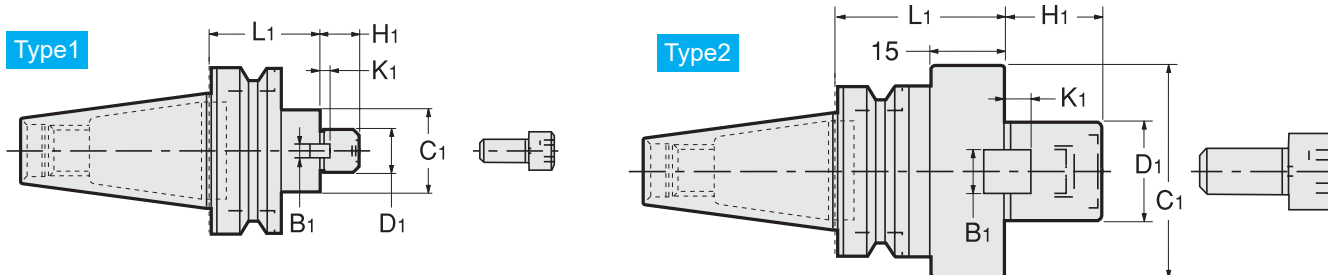
Corresponding to BT two-face contact spindle

WBT-AHO40 - FMB 25.4 - 60
 Shank size D1 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

Face Mill Arbor

※ AHO Retention Stud is required.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Inch Sizes

Unit : Metric

Code	Model	Type	D1	L1	C1	H1	B1	K1	kg	Clamp Bolt	Cutter dia. example	
3810 ※ 2300000	NBT-AHO30 or WBT-AHO30	FMC25.4 -45	2	25.4	45	70	20	9.5	5		M12	80
3810 ※ 2310000		-60	2	25.4	60	70	20	9.5	5			
3810 ※ 2320000	NBT-AHO40 or WBT-AHO40	FMC25.4 -60	2	25.4	60	70	20	9.5	5	1.8	M12	80
3810 ※ 2330000		-90	2	25.4	90	70	20	9.5	5			
3810 ※ 2340000	NBT-AHO40 or WBT-AHO40	FMC38.1 -60	2	38.1	60	85	22	15.9	7		M16	100
3810 ※ 2350000		-75	2	38.1	75	85	22	15.9	7			
3810 ※ 2360000	NBT-AHO50 or WBT-AHO50	FMC25.4 -45	1	25.4	45	70	20	9.5	5		M12	80
3810 ※ 2370000		-90	1	25.4	90	70	20	9.5	5			
3810 ※ 2380000		-150	1	25.4	150	70	20	9.5	5			
3810 ※ 2390000	NBT-AHO50 or WBT-AHO50	FMC38.1 -45	1	38.1	45	85	22	15.9	7		M16	100
3810 ※ 2400000		-75	1	38.1	75	85	22	15.9	7			
3810 ※ 2410000		-105	1	38.1	105	85	22	15.9	7			

Clamp bolt is Included.

Metric Sizes Unit : Metric

Code	Model	Type	D1	L1	C1	H1	B1	K1	kg	Clamp Bolt	Cutter dia. example
3810 ※ 2010000	NBT-AHO30 or WBT-AHO30 -FMC22 -45	1	22	45	45	18	10	5	0.7	M10	50 63
3810 ※ 2020000	-60	1	22	60	45	18	10	5			
3810 ※ 2030000	NBT-AHO40 or WBT-AHO40 -FMC22 -45	1	22	45	45	18	10	5	1.1	M10	50 63
3810 ※ 2040000	-60	1	22	60	45	18	10	5			
3810 ※ 2050000	-75	1	22	75	45	18	10	5			
3810 ※ 2060000	-90	1	22	90	45	18	10	5	1.7		
3810 ※ 2080000	NBT-AHO40 or WBT-AHO40 -FMC27 -60	2	27	60	70	20	12	6		M12	80
3810 ※ 2090000	-75	2	27	75	70	20	12	6			
3810 ※ 2100000	-90	2	27	90	70	20	12	6			
3810 ※ 2110000	NBT-AHO40 or WBT-AHO40 -FMC32 -60	2	32	60	85	22	14	7		M16	100
3810 ※ 2120000	-75	2	32	75	85	22	14	7			
3810 ※ 2130000	-90	2	32	90	85	22	14	7			
3810 ※ 2140000	NBT-AHO50 or WBT-AHO50 -FMC22 -45	1	22	45	45	18	10	5		M10	50 63
3810 ※ 2150000	-90	1	22	90	45	18	10	5			
3810 ※ 2160000	-150	1	22	150	45	18	10	5			
3810 ※ 2170000	-200	1	22	200	45	18	10	5			
3810 ※ 2180000	-250 *	1	22	250	45	18	10	5			
3810 ※ 2190000	-300 *	1	22	300	45	18	10	5			
3810 ※ 2200000	NBT-AHO50 or WBT-AHO50 -FMC27 -45	1	27	45	70	20	12	6		M12	80
3810 ※ 2210000	-105	1	27	105	70	20	12	6			
3810 ※ 2220000	-150	1	27	150	70	20	12	6			
3810 ※ 2230000	-200	1	27	200	70	20	12	6			
3810 ※ 2240000	-250 *	1	27	250	70	20	12	6			
3810 ※ 2250000	-300 *	1	27	300	70	20	12	6			
3810 ※ 2260000	NBT-AHO50 or WBT-AHO50 -FMC32 -45	1	32	45	85	22	14	7		M16	100
3810 ※ 2270000	-75	1	32	75	85	22	14	7			
3810 ※ 2280000	-105	1	32	105	85	22	14	7			
3810 ※ 2290000	-150	1	32	150	85	22	14	7			

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Models with * are not center through coolant feed compliant
Clamp bolt is Included.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - FMC 25.4 - 60
 Shank size D1 Projection length (L)

Ordering Example

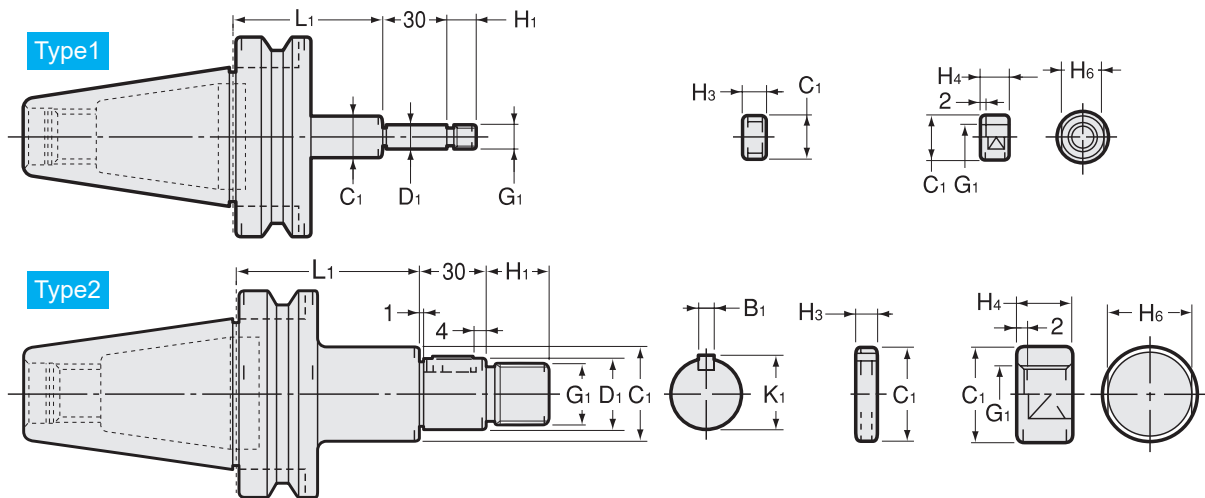
Corresponding to BT two-face contact spindle

WBT-AHO40 - FMC 25.4 - 60
 Shank size D1 Projection length (L)

Side Cutter Arbor

※ AHO Retention Stud is required.

● For JIS side cutter and metal saw.



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Inch Sizes

Unit : Metric

Code	Model	Type	D1 (h6)	L1	C1	G1	H1	B1	K1	H3	H4	H6	Cutter dia. Example
3780 ※ 0250000	NBT-AHO30 or WBT-AHO30 -SCA12.7 -75	1	12.7	75	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0260000	NBT-AHO30 or WBT-AHO30 -SCA15.875-75	2	15.875	75	26	M14 × 1.5	16	3.18	17.42	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0270000	NBT-AHO30 or WBT-AHO30 -SCA22.225-75	2	22.225	75	34	M20 × 1.5	21	3.18	23.82	3,5,7,8,10,12	18	30	60 ~ 63
3780 ※ 0280000	NBT-AHO40 or WBT-AHO40 -SCA12.7 -60	1	12.7	60	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0290000	-90	1	12.7	90	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0300000	NBT-AHO40 or WBT-AHO40 -SCA15.875-75	2	15.875	75	26	M14 × 1.5	16	3.18	17.42	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0310000	-105	2	15.875	105	26	M14 × 1.5	16	3.18	17.42	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0320000	NBT-AHO40 or WBT-AHO40 -SCA22.225-75	2	22.225	75	34	M20 × 1.5	21	3.18	23.82	3,5,7,8,10,12	18	30	60 ~ 63
3780 ※ 0330000	-120	2	22.225	120	34	M20 × 1.5	21	3.18	23.82	3,5,7,8,10,12	18	30	60 ~ 63
3780 ※ 0340000	NBT-AHO40 or WBT-AHO40 -SCA25.4 -75	2	25.4	75	40	M24 × 2	25	6.35	27.78	3,5,7,8,10,12	21	32	75 ~ 125
3780 ※ 0350000	-120	2	25.4	120	40	M24 × 2	25	6.35	27.78	3,5,7,8,10,12	21	32	75 ~ 125
3780 ※ 0360000	NBT-AHO40 or WBT-AHO40 -SCA31.75 -90	2	31.75	90	46	M30 × 2	30	7.92	34.92	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0370000	NBT-AHO50 or WBT-AHO50 -SCA12.7 -75	1	12.7	75	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0380000	-105	1	12.7	105	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0390000	NBT-AHO50 or WBT-AHO50 -SCA15.875-90	2	15.875	90	26	M14 × 1.5	16	3.18	17.42	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0400000	-120	2	15.875	120	26	M14 × 1.5	16	3.18	17.42	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0410000	NBT-AHO50 or WBT-AHO50 -SCA22.225-90	2	22.225	90	34	M20 × 1.5	21	3.18	23.82	3,5,7,8,10,12	18	30	60 ~ 63
3780 ※ 0420000	-135	2	22.225	135	34	M20 × 1.5	21	3.18	23.82	3,5,7,8,10,12	18	30	60 ~ 63
3780 ※ 0430000	NBT-AHO50 or WBT-AHO50 -SCA25.4 -90	2	25.4	90	40	M24 × 2	25	6.35	27.78	3,5,7,8,10,12	21	32	75 ~ 125
3780 ※ 0440000	-135	2	25.4	135	40	M24 × 2	25	6.35	27.78	3,5,7,8,10,12	21	32	75 ~ 125
3780 ※ 0450000	NBT-AHO50 or WBT-AHO50 -SCA31.75 -90	2	31.75	90	46	M30 × 2	30	7.92	34.92	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0460000	-135	2	31.75	135	46	M30 × 2	30	7.92	34.92	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0470000	NBT-AHO50 or WBT-AHO50 -SCA38.1 -90	2	38.1	90	55	M36 × 3	36	9.52	42.06	3,5,7,8,10,12	31	46	150 ~ 315
3780 ※ 0480000	-135	2	38.1	135	55	M36 × 3	36	9.52	42.06	3,5,7,8,10,12	31	46	150 ~ 315

Metric Sizes

Unit : Metric

Code	Model	Type	D1 (h6)	L1	C1	G1	H1	B1	K1	H3	H4	H6	Cutter dia. Example
3780 ※ 0010000	NBT-AHO30 or WBT-AHO30 -SCA13 -75	1	13	75	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0020000	NBT-AHO30 or WBT-AHO30 -SCA16 -75	2	16	75	26	M14 × 1.5	16	4	17.2	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0030000	NBT-AHO30 or WBT-AHO30 -SCA22 -75	2	22	75	34	M20 × 1.5	21	6	23.6	3,5,7,8,10,12	18	30	60 ~ 125
3780 ※ 0040000	NBT-AHO40 or WBT-AHO40 -SCA13 -60	1	13	60	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0050000	-90	1	13	90	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0060000	NBT-AHO40 or WBT-AHO40 -SCA16 -75	2	16	75	26	M14 × 1.5	16	4	17.2	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0070000	-105	2	16	105	26	M14 × 1.5	16	4	17.2	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0080000	NBT-AHO40 or WBT-AHO40 -SCA22 -75	2	22	75	34	M20 × 1.5	21	6	23.6	3,5,7,8,10,12	18	30	60 ~ 125
3780 ※ 0090000	-120	2	22	120	34	M20 × 1.5	21	6	23.6	3,5,7,8,10,12	18	30	60 ~ 125
3780 ※ 0100000	NBT-AHO40 or WBT-AHO40 -SCA27 -75	2	27	75	40	M24 × 2	25	7	29	3,5,7,8,10,12	21	32	75 ~ 100
3780 ※ 0110000	-120	2	27	120	40	M24 × 2	25	7	29	3,5,7,8,10,12	21	32	75 ~ 100
3780 ※ 0120000	NBT-AHO40 or WBT-AHO40 -SCA32 -90	2	32	90	46	M30 × 2	30	8	34	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0130000	NBT-AHO50 or WBT-AHO50 -SCA13 -75	1	13	75	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0140000	-105	1	13	105	20	M12 × 1.25	15	—	—	3,5,7,8,10,12	12	17	50
3780 ※ 0150000	NBT-AHO50 or WBT-AHO50 -SCA16 -90	2	16	90	26	M14 × 1.5	16	4	17.2	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0160000	-120	2	16	120	26	M14 × 1.5	16	4	17.2	3,5,7,8,10,12	13	22	50 ~ 63
3780 ※ 0170000	NBT-AHO50 or WBT-AHO50 -SCA22 -90	2	22	90	34	M20 × 1.5	21	6	23.6	3,5,7,8,10,12	18	30	60 ~ 125
3780 ※ 0180000	-135	2	22	135	34	M20 × 1.5	21	6	23.6	3,5,7,8,10,12	18	30	60 ~ 125
3780 ※ 0190000	NBT-AHO50 or WBT-AHO50 -SCA27 -90	2	27	90	40	M24 × 2	25	7	29	3,5,7,8,10,12	21	32	75 ~ 100
3780 ※ 0200000	-135	2	27	135	40	M24 × 2	25	7	29	3,5,7,8,10,12	21	32	75 ~ 100
3780 ※ 0210000	NBT-AHO50 or WBT-AHO50 -SCA32 -90	2	32	90	46	M30 × 2	30	8	34	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0220000	-135	2	32	135	46	M30 × 2	30	8	34	3,5,7,8,10,12	26	41	100 ~ 250
3780 ※ 0230000	NBT-AHO50 or WBT-AHO50 -SCA40 -90	2	40	90	55	M36 × 3	36	10	42.5	3,5,7,8,10,12	31	46	150 ~ 315
3780 ※ 0240000	-135	2	40	135	55	M36 × 3	36	10	42.5	3,5,7,8,10,12	31	46	150 ~ 315

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

One clamp nut and spacers (size 3, 5, 7, 8, 10, and 12 / one each) are included.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - SCA 12.7 - 75
 Shank size D1 Projection length (L)

Ordering Example

Corresponding to BT two-face contact spindle

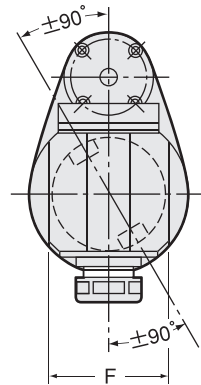
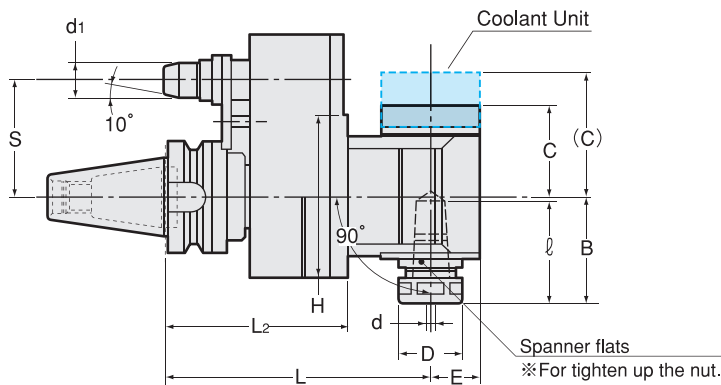
WBT-AHO40 - SCA 12.7 - 75
 Shank size D1 Projection length (L)

AH, AH-OH

90°

Angle Heads (Fixed Type)

※ AHO Retention Stud is required.



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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric

Code	Model	d	L	L2	ℓ	d1	D	B	C (C)	E	F	H	S
3790 *00100 ※※	NBT-AHO30 or WBT-AHO30 -AH0790 -120-50- ※※	0.5 ~ 7.0	120	75.3	40	13	23	42	33	17	45	78	50
3790 *00200 ※※	NBT-AHO30 or WBT-AHO30 -AH1290 -125-50- ※※	2.5 ~ 12.0	125	75.3	63.5	13	32	58	44.5	22	47	78	50
3790 *00300 ※※	NBT-AHO40 or WBT-AHO40 -AH0790 (-AH0790-OH) -150-65- ※※	0.5 ~ 7.0	150	103	40	19.6	23	42	33 (46.5)	17	51	90	65
3790 *00400 ※※	-180-65- ※※	0.5 ~ 7.0	180	103	40	19.6	23	42	33 (46.5)	17	51	90	65
3790 *00500 ※※	-210-65- ※※	0.5 ~ 7.0	210	103	40	19.6	23	42	33 (46.5)	17	51	90	65
3790 *00600 ※※	-240-65- ※※	0.5 ~ 7.0	240	120	40	19.6	23	42	33 (46.5)	17	51	90	65
3790 *00700 ※※	-270-65- ※※	0.5 ~ 7.0	270	120	40	19.6	23	42	33 (46.5)	17	51	90	65
3790 *00800 ※※	NBT-AHO40 or WBT-AHO40 -AH0990 (-AH0990-OH) -150-65- ※※	2.5 ~ 9.0	150	103	55	19.6	26.3	53.5	44.5 (58.5)	22	58	90	65
3790 *00900 ※※	-180-65- ※※	2.5 ~ 9.0	180	103	55	19.6	26.3	53.5	44.5 (58.5)	22	58	90	65
3790 *01000 ※※	-210-65- ※※	2.5 ~ 9.0	210	103	55	19.6	26.3	53.5	44.5 (58.5)	22	58	90	65
3790 *01100 ※※	-240-65- ※※	2.5 ~ 9.0	240	120	55	19.6	26.3	53.5	44.5 (58.5)	22	58	90	65
3790 *01200 ※※	NBT-AHO40 or WBT-AHO40 -AH1690 (-AH1690-OH) -150-65- ※※	3.5 ~ 16.0	150	103	59	19.6	36.3	59	51 (64.5)	28	67	90	65
3790 *01300 ※※	-180-65- ※※	3.5 ~ 16.0	180	103	59	19.6	36.3	59	51 (64.5)	28	67	90	65
3790 *01400 ※※	-210-65- ※※	3.5 ~ 16.0	210	103	59	19.6	36.3	59	51 (64.5)	28	67	90	65
3790 *01500 ※※	NBT-AHO50 or WBT-AHO50 -AH0790 (-AH0790-OH) -165-80- ※※	0.5 ~ 7.0	165	118	40	28	23	42	33 (46.5)	17	51	90	80
3790 *01600 ※※	-195-80- ※※	0.5 ~ 7.0	195	118	40	28	23	42	33 (46.5)	17	51	90	80
3790 *01700 ※※	-225-80- ※※	0.5 ~ 7.0	225	118	40	28	23	42	33 (46.5)	17	51	90	80
3790 *01800 ※※	-255-80- ※※	0.5 ~ 7.0	255	135	40	28	23	42	33 (46.5)	17	51	90	80
3790 *01900 ※※	-285-80- ※※	0.5 ~ 7.0	285	135	40	28	23	42	33 (46.5)	17	51	90	80
3790 *02000 ※※	-165-110- ※※	0.5 ~ 7.0	165	118	40	28	23	42	33 (46.5)	17	51	90	110
3790 *02100 ※※	-195-110- ※※	0.5 ~ 7.0	195	118	40	28	23	42	33 (46.5)	17	51	90	110
3790 *02200 ※※	-225-110- ※※	0.5 ~ 7.0	225	118	40	28	23	42	33 (46.5)	17	51	90	110
3790 *02300 ※※	-255-110- ※※	0.5 ~ 7.0	255	135	40	28	23	42	33 (46.5)	17	51	90	110
3790 *02400 ※※	-285-110- ※※	0.5 ~ 7.0	285	135	40	28	23	42	33 (46.5)	17	51	90	110

Code	Model	d	L	L2	ℓ	d1	D	B	C (C)	E	F	H	S
3790 *02500 ※※	NBT-AHO50 or WBT-AHO50 -AH0990 (-AH0990-OH) -165-80- ※※	2.5 ~ 9.0	165	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	80
3790 *02600 ※※	-195-80- ※※	2.5 ~ 9.0	195	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	80
3790 *02700 ※※	-225-80- ※※	2.5 ~ 9.0	225	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	80
3790 *02800 ※※	-255-80- ※※	2.5 ~ 9.0	255	135	55	28	26.3	53.5	44.5 (58.5)	22	58	90	80
3790 *02900 ※※	-165-110- ※※	2.5 ~ 9.0	165	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	110
3790 *03000 ※※	-195-110- ※※	2.5 ~ 9.0	195	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	110
3790 *03100 ※※	-225-110- ※※	2.5 ~ 9.0	225	118	55	28	26.3	53.5	44.5 (58.5)	22	58	90	110
3790 *03200 ※※	-255-110- ※※	2.5 ~ 9.0	255	135	55	28	26.3	53.5	44.5 (58.5)	22	58	90	110
3790 *03300 ※※	NBT-AHO50 or WBT-AHO50 -AH1690 (-AH1690-OH) -165-80- ※※	3.5 ~ 16.0	165	118	59	28	36.3	59	51 (64.5)	28	67	90	80
3790 *03400 ※※	-195-80- ※※	3.5 ~ 16.0	195	118	59	28	36.3	59	51 (64.5)	28	67	90	80
3790 *03500 ※※	-225-80- ※※	3.5 ~ 16.0	225	118	59	28	36.3	59	51 (64.5)	28	67	90	80
3790 *03600 ※※	-165-110- ※※	3.5 ~ 16.0	165	118	59	28	36.3	59	51 (64.5)	28	67	90	110
3790 *03700 ※※	-195-110- ※※	3.5 ~ 16.0	195	118	59	28	36.3	59	51 (64.5)	28	67	90	110
3790 *03800 ※※	-225-110- ※※	3.5 ~ 16.0	225	118	59	28	36.3	59	51 (64.5)	28	67	90	110
3790 *03900 ※※	NBT-AHO50 or WBT-AHO50 -AH2290 (-AH2290-OH) -180-80- ※※	3.5 ~ 22.0	180	117	65	28	46.3	69	57 (70.5)	34.5	75	113	80
3790 *04000 ※※	-210-80- ※※	3.5 ~ 22.0	210	117	65	28	46.3	69	57 (70.5)	34.5	75	113	80
3790 *04100 ※※	-240-80- ※※	3.5 ~ 22.0	240	117	65	28	46.3	69	57 (70.5)	34.5	75	113	80
3790 *04200 ※※	-180-110- ※※	3.5 ~ 22.0	180	117	65	28	46.3	69	57 (70.5)	34.5	75	113	110
3790 *04300 ※※	-210-110- ※※	3.5 ~ 22.0	210	117	65	28	46.3	69	57 (70.5)	34.5	75	113	110
3790 *04400 ※※	-240-110- ※※	3.5 ~ 22.0	240	117	65	28	46.3	69	57 (70.5)	34.5	75	113	110
3790 *04500 ※※	NBT-AHO50 or WBT-AHO50 -AH2590 (-AH2590-OH) -195-80- ※※	9.5 ~ 25.0	195	117	101	28	65	90	73 (86.5)	45	90	113	80
3790 *04600 ※※	-195-110- ※※	9.5 ~ 25.0	195	117	101	28	65	90	73 (86.5)	45	90	113	110

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Model names in brackets show "Coolant type", which are quoted on request.

- ※ is for A dimension. Please refer to P. 179.
- When ordering, please specify plunger size ("A" dimension).
- Plunger is fixed (non-adjustable)
- Collet and spanner are sold separately.
- ※※※ -AHO30-AH1290-125-50- ※※ is light cutting only.

Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - AH 07 90 - 150 - 65 - 06
 Shank size Max. Angle Projection length (L) S Dimension A
 collet I.D.

Ordering Example

Corresponding to BT two-face contact spindle

WBT-AHO40 - AH 07 90 - 150 - 65 - 06
 Shank size Max. Angle Projection length (L) S Dimension A
 collet I.D.

Accessories for Angle heads fixed type

Model	Nut	Collet	Spanner for nut	Spanner flats for the head
AH0790	HDP-07A	FDC-07	S-0	Width 14mm
AH0990	HDP-09	FDC-09	S-1L	S-1L
AH1290	HDP-12	FDC-12	S-3L	S-3L
AH1690	HDP-16	FDC-16	S-4L	S-4L
AH2290	HDP-22	FDC-22	S-5L	S-5L
AH2590	HPP-25	NTG25	HS2.5-25	HS2.5-25

Collet

P. 086 - 089



Spanner

P. 095

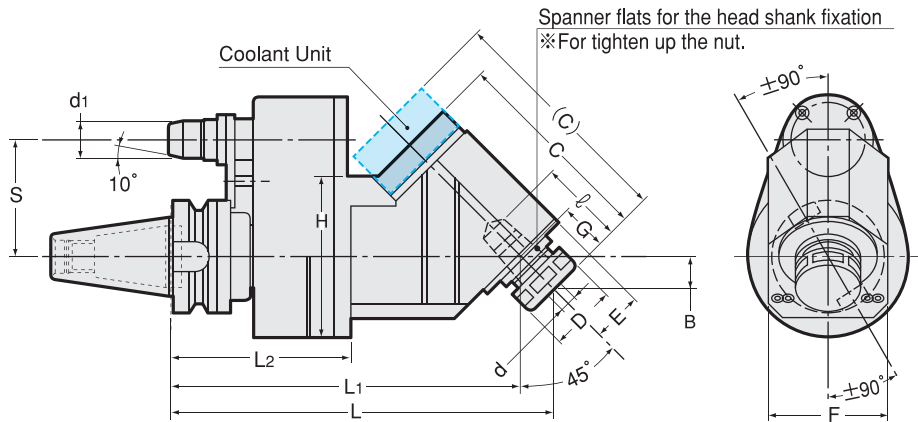


AH, AH-OH

45°

Angle Heads (Fixed Type)

※ AHO Retention Stud is required.



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



- Our two-face contact NBT spindle is incompatible with BT two-face contact spindle (for WBT-AHO). Please refer to P. 41.
- When AHO is used with center through coolant feeding, a designated retention stud (with coolant pipe) for AHO must be used.

Unit : Metric

Code	Model	d	L	L1	L2	ℓ	d1	D	B	C (C)	E	F	G	H	S
3790 * 04800 ※※	NBT-AHO40 or WBT-AHO40 -AH0745(-OH)-195-65- ※※	0.5 ~ 7.0	195	179.5	103	35	19.6	23	15.6	88.5 (102)	17	51	22	90	65
3790 * 04900 ※※	-215-65- ※※	0.5 ~ 7.0	215	199.5	103	35	19.6	23	15.6	88.5 (102)	17	51	22	90	65
3790 * 05000 ※※	-245-65- ※※	0.5 ~ 7.0	245	229.5	103	35	19.6	23	15.6	88.5 (102)	17	51	22	90	65
3790 * 05100 ※※	NBT-AHO40 or WBT-AHO40 -AH945(-OH) -205-65- ※※	2.5 ~ 9.0	205	186.5	103	45	19.6	26.3	19.1	104 (118)	22	58	27	90	65
3790 * 05200 ※※	-230-65- ※※	2.5 ~ 9.0	230	211.5	103	45	19.6	26.3	19.1	104 (118)	22	58	27	90	65
3790 * 05300 ※※	-260-65- ※※	2.5 ~ 9.0	260	241.5	103	45	19.6	26.3	19.1	104 (118)	22	58	27	90	65
3790 * 05400 ※※	NBT-AHO40 or WBT-AHO40 -AH1645(-OH)-215-65- ※※	3.5 ~ 16.0	215	197	103	53	19.6	36.3	18.4	113.5 (127)	28	67	26	90	65
3790 * 05500 ※※	-245-65- ※※	3.5 ~ 16.0	245	227	103	53	19.6	36.3	18.4	113.5 (127)	28	67	26	90	65
3790 * 05600 ※※	NBT-AHO50 or WBT-AHO50 -AH0745(-OH) -210-80- ※※	0.5 ~ 7.0	210	194.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	80
3790 * 05700 ※※	-230-80- ※※	0.5 ~ 7.0	230	214.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	80
3790 * 05800 ※※	-260-80- ※※	0.5 ~ 7.0	260	244.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	80
3790 * 05900 ※※	-210-110- ※※	0.5 ~ 7.0	210	194.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	110
3790 * 06000 ※※	-230-110- ※※	0.5 ~ 7.0	230	214.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	110
3790 * 06100 ※※	-260-110- ※※	0.5 ~ 7.0	260	244.5	118	35	28	23	15.6	88.5 (102)	17	51	22	90	110

Code	Model	d	L	L1	L2	ℓ	d1	D	B	C (C)	E	F	G	H	S
3790 * 06200 ※※	NBT-AHO50 or WBT-AHO50 -AH0945(-OH)-220-80- ※※	2.5 ~ 9.0	220	201.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	80
3790 * 06300 ※※	-245-80- ※※	2.5 ~ 9.0	245	226.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	80
3790 * 06400 ※※	-275-80- ※※	2.5 ~ 9.0	275	256.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	80
3790 * 06500 ※※	-220-110- ※※	2.5 ~ 9.0	220	201.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	110
3790 * 06700 ※※	-245-110- ※※	2.5 ~ 9.0	245	226.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	110
3790 * 06800 ※※	-275-110- ※※	2.5 ~ 9.0	275	256.5	118	45	28	26.3	19.1	104 (118)	22	58	27	90	110
3790 * 06900 ※※	NBT-AHO50 or WBT-AHO50 -AH1645(-OH)-230-80- ※※	3.5 ~ 16.0	230	212	118	53	28	36.3	18.4	113.5 (127)	28	67	26	90	80
3790 * 07000 ※※	-260-80- ※※	3.5 ~ 16.0	260	242	118	53	28	36.3	18.4	113.5 (127)	28	67	26	90	80
3790 * 07100 ※※	-230-110- ※※	3.5 ~ 16.0	230	212	118	53	28	36.3	18.4	113.5 (127)	28	67	26	90	110
3790 * 07200 ※※	-260-110- ※※	3.5 ~ 16.0	260	242	118	53	28	36.3	18.4	113.5 (127)	28	67	26	90	110

Please replace ※ in the code with 0 for NBT-AHO and 6 for WBT-AHO.

Model names in brackets show "Coolant type", which are quoted on request.

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

Accessories for Angle heads fixed type

Model	Nut	Collet	Spanner for nut	Spanner flats for the head
AH0745	HDP-07A	FDC-07	S-0	Width 14mm
AH0945	HDP-09	FDC-09	S-1L	S-1L
AH1645	HDP-16	FDC-16	S-4L	S-4L

Collet

P. 086 - 089



Spanner

P. 095



Ordering Example

Corresponding to our two-face contact BT spindle

NBT-AHO40 - AH 07 45 - 195 - 65 - 06
 Shank size Max. Angle Projection S Dimension
 collet I.D. length (L) A

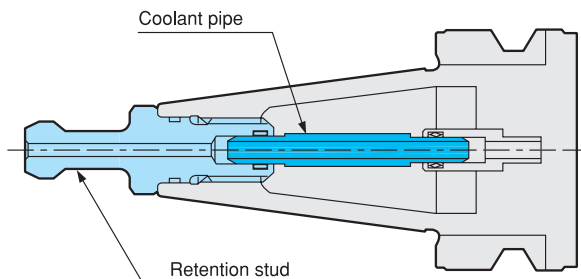
Ordering Example

Corresponding to BT two-face contact spindle

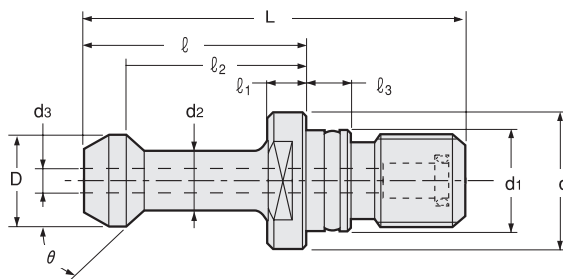
WBT-AHO40 - AH 07 45 - 195 - 65 - 06
 Shank size Max. Angle Projection S Dimension
 collet I.D. length (L) A

Coolant Accessories

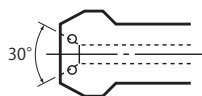
Drawing for AHO coolant through type



Retention stud



AHO holder requires a coolant pipe and a retention stud for center through coolant feed.



※ For retention studs other than MAS / JIS standard, please indicate the position of the sealing as illustrated in the above example.

Unit : Metric

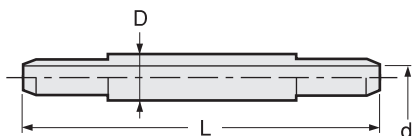
Code	Model	MAS	JIS	D	d	d1	d2	d3	L	l	l1	l2	l3	G	θ
3800 80000000	PSB-0-CH-AHO	P30T1	—	11	16.5	12.5	7	2.5	43	23	5	18	5.5	M12	45
3800 80000003	PSB-3-CH-AHO	P40T1	—	15	23	17	10	4	60	35	6	28	7	M16	45
3800 80000004	PSB-4-CH-AHO	P40T2	—	15	23	17	10	4	60	35	6	28	7	M16	60
3800 80000007	PSB-7-CH-AHO	P50T1	—	23	38	25	17	6	85	45	10	35	10	M24	45
3800 80000008	PSB-8-CH-AHO	P50T2	—	23	38	25	17	6	85	45	10	35	10	M24	60
3800 80000030	PSB-30P-AHO	—	30P	12	16.5	12.5	8	4	43	23.4	5	18.4	6	M12	75
3800 80000040	PSB-40P-AHO	—	40P	19	23	17	14	7	54	29	7	23	7	M16	75
3800 80000050	PSB-50P-AHO	—	50P	28	38	25	21	10	74	34	7	25	10	M24	75

Unit : Metric

Code	Model	D	d	d1	d2	d3	L	l	l1	l2	l3	G	θ
380080000017	PSB-17-CH-AHO	24	36	25	18	6	71	31	5	23	10	M24	45°
380080000019	PSB-19-CH-AHO	23	38	25	17	6	85	45	10	35	10	M24	90°
380080000023	PSB-23-CH-AHO	18.8	22	17	12.5	7	44.1	19.1	3	14	5	M16	45°
380080000024	PSB-24-CH-AHO	29	37	25	20.9	10	65.2	25.2	5	17.6	8	M24	45°
380080000025	PSB-25-CH-AHO	19	23	17	14	7	54	29	4	23	7	M16	75°
380080000026	PSB-26-CH-AHO	11	16.5	12.5	7.5	2.5	43	23	5	18	5.5	M12	60°

A coolant pipe is included in a retention stud for AHO.

Coolant pipe



Coolant pipe is included in AHO retention studs. Also available individually. Coolant pipe only works with AHO retention stud.

Unit : Metric

Code	Model	L	D	d
3800 60000030	CP-NBT30-OH	42	6	3
3800 60000040	CP-NBT40-OH	70	8	4
3800 60000050	CP-NBT50-OH	98	13	7