HYDRAULIC CHUCK (For MOLD and DIE)

HYDRAULIK SPANNFUTTER FÜR DEN FORMENBAU
MANDRIN HYDRAULIQUE POUR MOULISTE
MANDRINI IDRAULICI PER STAMPAGGIO
PORTAHERRAMIENTAS HIDRAULICO PARA MOLDES

CBT (BT DUAL CONTACT)

CBT | AT3 | 2.5G | 25,000 RPM | (at 3D) ≤3㎛ | AD

FIG.1

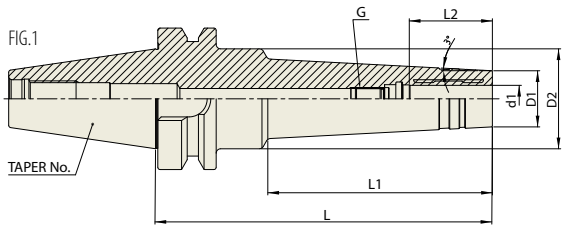
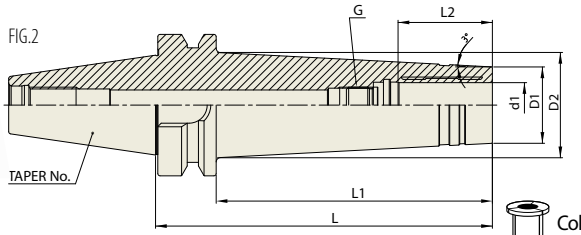


FIG.2



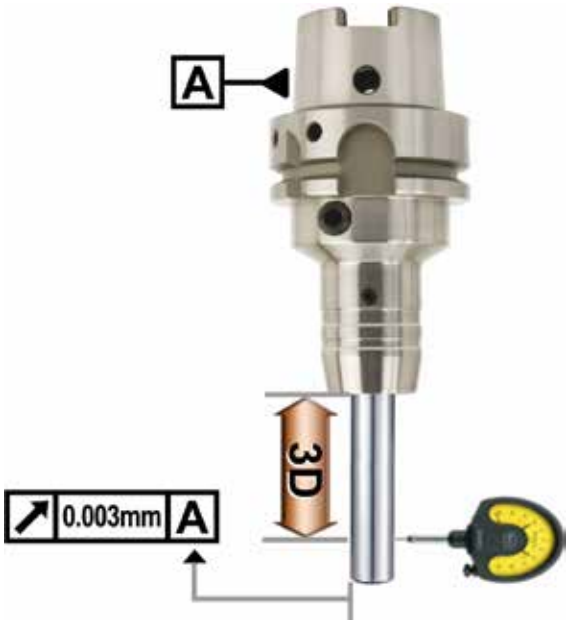
Collet
Refer to page 43-46

Unit : mm

TAPER No.	MODEL No.	EDP No.	d1	D1	D2	L	L1	L2	G	FIG.	WEIGHT (kg)
40	CBT40-HMC6-120	P2770921	6	20	44.5	120	70	27	M5×0.8	1	1.40
	CBT40-HMC6-150	P2770922	6	20	44.5	150	100	27	M5×0.8	1	1.65
	CBT40-HMC8-120	P2770923	8	22	44.5	120	70	27	M6×1.0	1	1.40
	CBT40-HMC8-150	P2770924	8	22	44.5	150	100	27	M6×1.0	1	1.65
	CBT40-HMC10-120	P2770925	10	24	44.5	120	70	32	M8×1.0	1	1.40
	CBT40-HMC10-150	P2770926	10	24	44.5	150	100	32	M8×1.0	1	1.65
	CBT40-HMC12-120	P2770927	12	25	44.5	120	70	37	M10×1.0	1	1.40
	CBT40-HMC12-150	P2770928	12	25	44.5	150	100	37	M10×1.0	1	1.65
	CBT40-HMC16-120	P2770929	16	32	44.5	120	70	42	M12×1.0	1	1.45
	CBT40-HMC16-150	P2770930	16	32	44.5	150	100	42	M12×1.0	1	1.70
	CBT40-HMC20-120	P2770931	20	34	43.8	120	93	42	M16×1.0	2	1.50
	CBT40-HMC20-150	P2770932	20	34	46.9	150	123	42	M16×1.0	2	1.80
50	CBT50-HMC6-150	P2770933	6	20	50	150	90	27	M5×0.8	1	4.70
	CBT50-HMC8-150	P2770934	8	22	50	150	90	27	M6×1.0	1	4.70
	CBT50-HMC10-150	P2770935	10	24	50	150	90	32	M8×1.0	1	4.70
	CBT50-HMC12-150	P2770936	12	25	50	150	90	37	M10×1.0	1	4.70
	CBT50-HMC16-150	P2770937	16	32	50	150	90	42	M12×1.0	1	4.90
	CBT50-HMC20-150	P2770938	20	34	50	150	90	42	M16×1.0	1	5.00

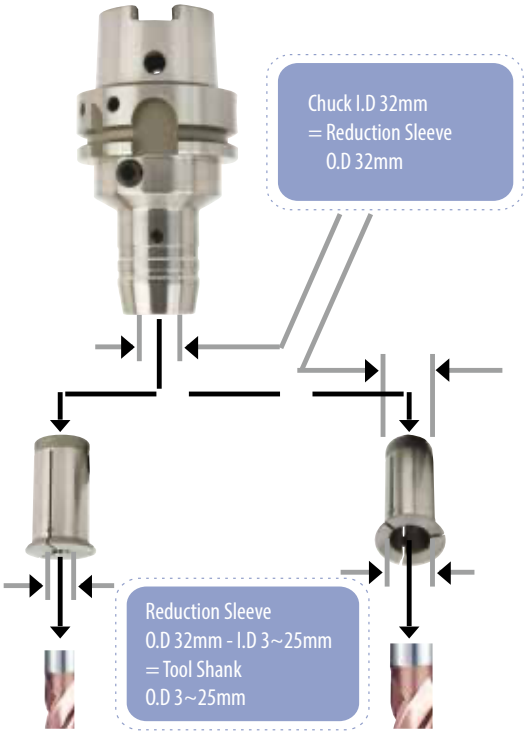
HYDRAULIC CHUCK

High precision T.I.R :
≤ 0.003mm (Without Reduction Sleeve)

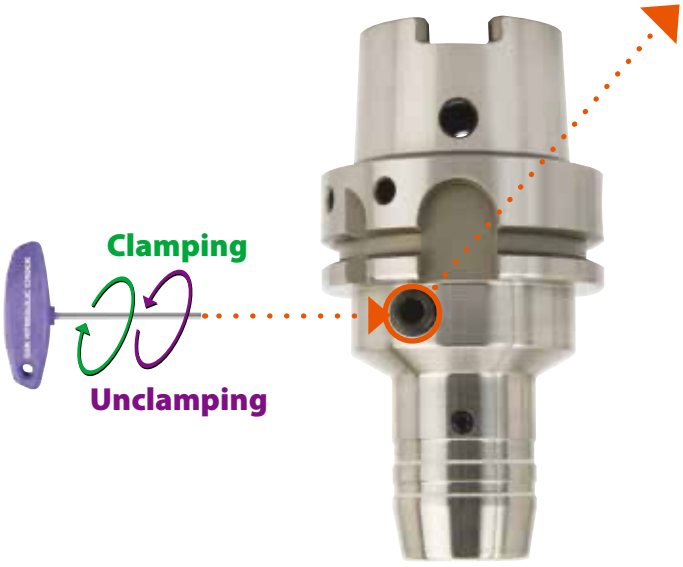


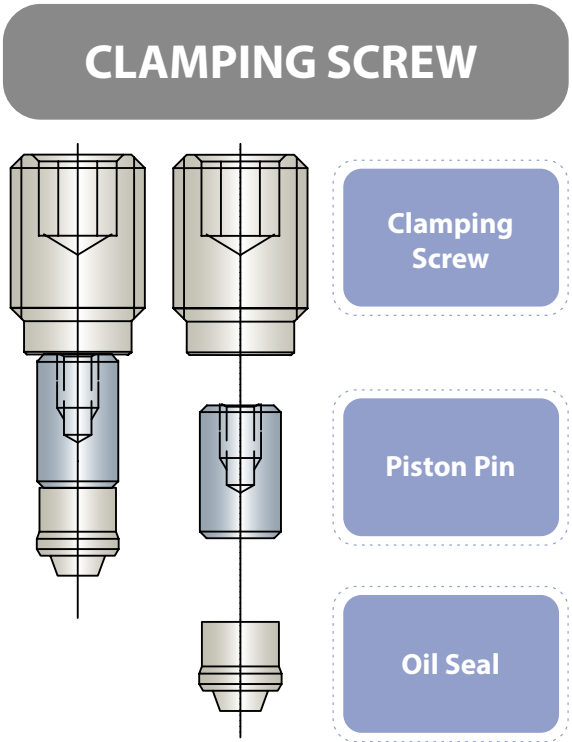
• Less than 0.003mm T.I.R =>
Suitable for High-Speed precision machining

Flexible use of cutting tools by using of reduction sleeves



Easy Tool Change





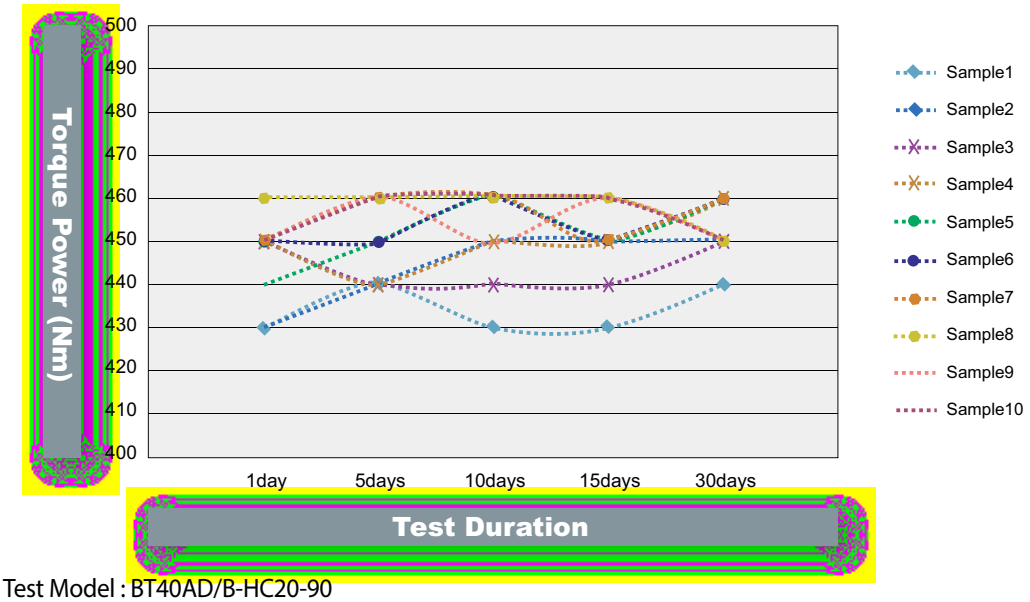
• Easy clamping and unclamping by use of T wrench =>
Reducing tool change time

Strong Torque Power

Hydraulic Chuck I.D(mm)	Tool Shank O.D(mm)	Applicable RPM	Minimum Clamping Depth (mm)		Min. Torque Power (Nm)	
			Slim	Power E Hydro	Slim	Power E Hydro
6	6	40,000	27		16	
8	8	40,000	27		23	
10	10	40,000	32		45	
12	12	40,000	27	41	90	110
14	14	40,000	37		110	
16	16	40,000	42		185	
18	18	40,000	42		240	
20	20	40,000	42	48	330	520
25	25	25,000	48		400	
32	32	25,000	55	57	650	900

• Tool Holder I.D Tolerance : H6 • Operating Temperature : 20~25℃ • Maximum pressure of coolant oil : 80bar

Test of Torque Power and Hydraulic Oil Leakage

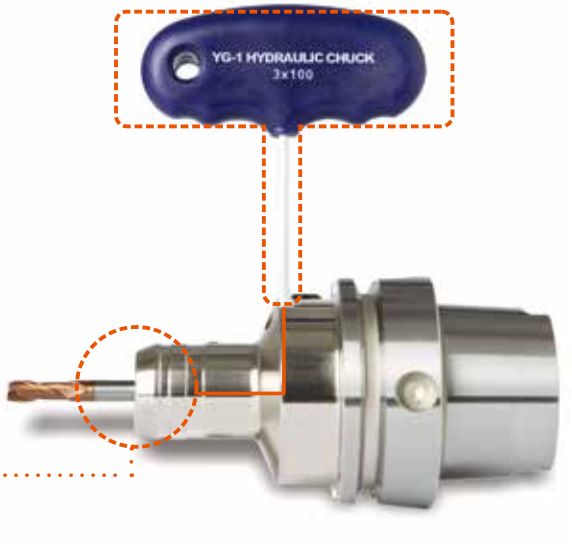


• Test Model : BT40AD/B-HC20-90
• No oil leakage for long period ⇒ Maintaining stable torque power

HYDRAULIC CHUCK

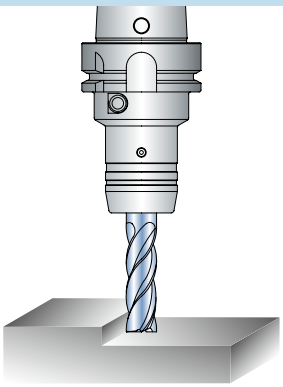
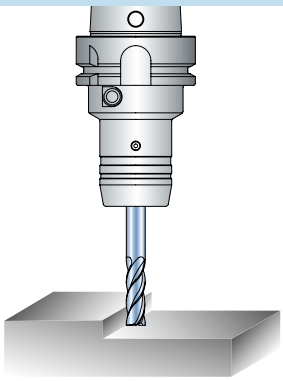
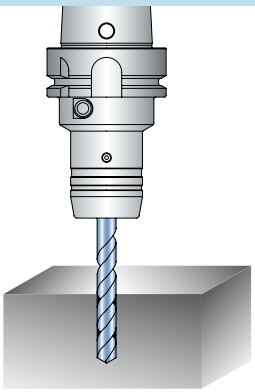
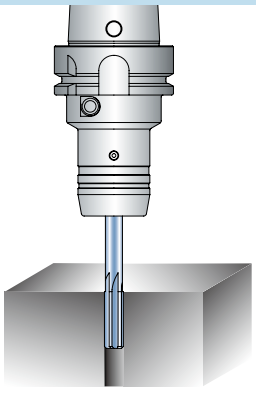
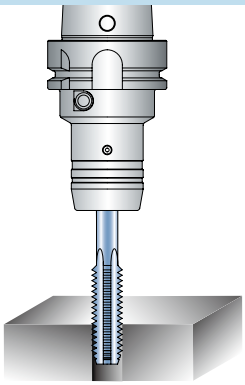
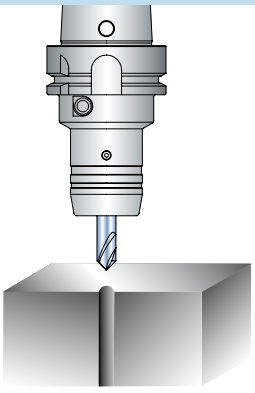
Radial tool length pre-setting type

- Easy to adjust pre-setting length of cutting tool (Saving time to pre-set cutting tool to one fifth compared with conventional Hydraulic Chuck)
- Precise adjustment of cutting tool length
- Designed to separate tool length adjustment screw from clamping screw



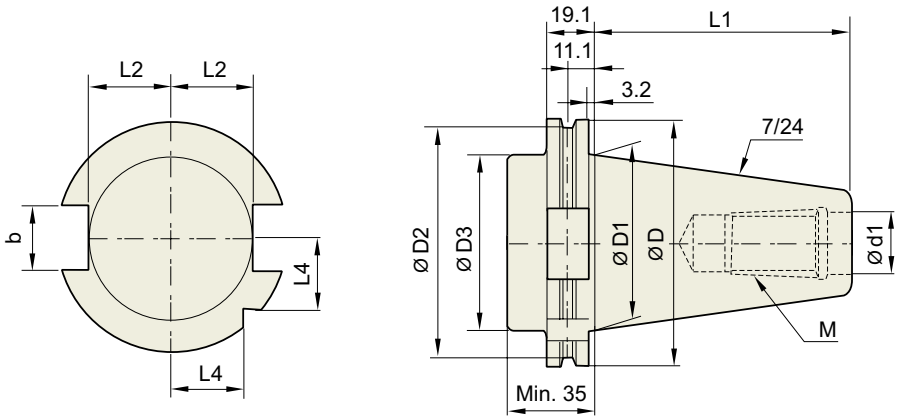
Adjustable range of
cutting tool length : 0~10mm

APPLICATION

Milling	High-Speed Cutting	Fine Drilling
		
Reaming	**Tapping & Thread Milling**	**Chamfering**
		

TECHNICAL DATA : SHANK STANDARD

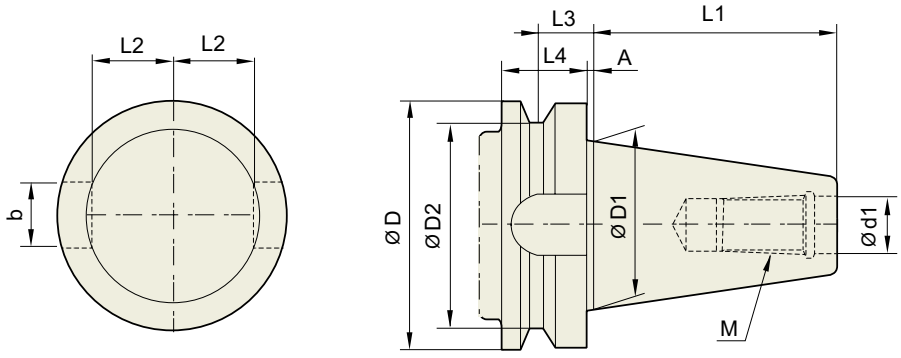
DIN 69871-SK



Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	L4	b	M
SK30	50	31.75	44.3	45	13	47.8	16.4	19	15	16.1	M12×1.75
SK40	63.55	44.45	56.25	50	17	68.4	22.8	25	18.5	16.1	M16×2.0
SK50	97.5	69.85	91.25	80	25	101.75	35.5	37.7	30	25.7	M24×3.0

JIS B6339/ MAS 403-BT



Unit : mm

TAPER No.	ØD	ØD1	ØD2	Ød13.	L1	L2	L3	L4	A	b	M
BT30	46	31.75	38	12.5	48.4	16.3	13.6	20	2	16.1	M12×1.75
BT40	63	44.45	53	17	65.4	22.6	16.6	25	2	16.1	M16×2
BT50	100	69.85	85	25	101.8	35.4	23.2	35	3	25.7	M24×3
BT60	155	107.95	135	31	161.8	60.1	28.2	45	3	25.7	M30×3.5

Model Numbering System

BT	40	AD/B	ER	16	70
Shank type	Shank size	Coolant Supplying System	Product name	Tool Holder I.D = Tool Shank O.D	"Gauge Line" Length and Other Spec.

Surface Finish

Shot Peened	Black Oxidized	Bright Finish	Anti Rust Treated