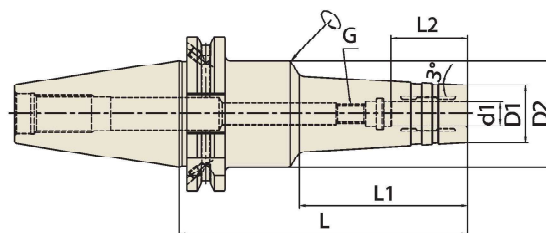


HYDRAULIC CHUCK (For MOULD)

CAT

ASME B5.50
- CATTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3D)
≤0.00012"Coolant
System
AD/B

ASME B5.50-2009-CAT

Unit : inch

EDP No.	TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G
WK020HMC	40	CAT40AD/B-HMC1/4-4.72	0.250	0.787	1.949	4.724	2.756	1.063	M5x0.8mm
WK022HMC		CAT40AD/B-HMC1/4-5.91	0.250	0.787	1.949	5.906	3.937	1.063	M5x0.8mm
WK024HMC		CAT40AD/B-HMC5/16-4.72	0.313	0.866	1.949	4.724	2.756	1.063	M6x1.0mm
WK026HMC		CAT40AD/B-HMC5/16-5.91	0.313	0.866	1.949	5.906	3.937	1.063	M6x1.0mm
WK028HMC		CAT40AD/B-HMC3/8-4.72	0.375	0.945	1.949	4.724	2.756	1.260	M8x1.0mm
WK030HMC		CAT40AD/B-HMC3/8-5.91	0.375	0.945	1.949	5.906	3.937	1.260	M8x1.0mm
WK032HMC		CAT40AD/B-HMC1/2-4.72	0.500	1.024	1.949	4.724	2.756	1.457	M10x1.0mm
WK034HMC		CAT40AD/B-HMC1/2-5.91	0.500	1.024	1.949	5.906	3.937	1.457	M10x1.0mm
WK036HMC		CAT40AD/B-HMC5/8-4.72	0.625	1.260	1.949	4.724	2.756	1.654	M12x1.0mm
WK038HMC		CAT40AD/B-HMC5/8-5.91	0.625	1.260	1.949	5.906	3.937	1.654	M12x1.0mm
WK040HMC		CAT40AD/B-HMC3/4-4.72	0.750	1.339	1.949	4.724	2.756	1.654	M16x1.0mm
WK042HMC		CAT40AD/B-HMC3/4-5.91	0.750	1.339	1.949	5.906	3.937	1.654	M16x1.0mm
WL020HMC	50	CAT50AD/B-HMC1/4-5.91	0.250	0.787	1.752	5.906	3.937	1.063	M5x0.8mm
WL022HMC		CAT50AD/B-HMC5/16-5.91	0.313	0.866	1.752	5.906	3.937	1.063	M6x1.0mm
WL024HMC		CAT50AD/B-HMC3/8-5.91	0.375	0.945	1.752	5.906	3.937	1.260	M8x1.0mm
WL026HMC		CAT50AD/B-HMC1/2-5.91	0.500	1.024	1.752	5.906	3.937	1.457	M10x1.0mm
WL028HMC		CAT50AD/B-HMC5/8-5.91	0.625	1.260	1.752	5.906	3.937	1.654	M12x1.0mm
WL030HMC		CAT50AD/B-HMC3/4-5.91	0.750	1.339	1.752	5.906	3.937	1.654	M16x1.0mm

Unit : mm

EDP No.	TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G
WK100HMC	40	CAT40AD/B-HMC6-120	6	20	49.5	120	70	27	M5X0.8
WK102HMC		CAT40AD/B-HMC6-150	6	20	49.5	150	100	27	M5X0.8
WK104HMC		CAT40AD/B-HMC8-120	8	22	49.5	120	70	27	M6X1.0
WK106HMC		CAT40AD/B-HMC8-150	8	22	49.5	150	100	27	M6X1.0
WK108HMC		CAT40AD/B-HMC10-120	10	24	49.5	120	70	32	M8X1.0
WK110HMC		CAT40AD/B-HMC10-150	10	24	49.5	150	100	32	M8X1.0
WK112HMC		CAT40AD/B-HMC12-120	12	25	49.5	120	70	37	M10X1.0
WK114HMC		CAT40AD/B-HMC12-150	12	25	49.5	150	100	37	M10X1.0
WK116HMC		CAT40AD/B-HMC16-120	16	32	49.5	120	70	42	M12X1.0
WK118HMC		CAT40AD/B-HMC16-150	16	32	49.5	150	100	42	M12X1.0
WK120HMC		CAT40AD/B-HMC20-120	20	34	49.5	120	70	42	M16X1.0
WK122HMC		CAT40AD/B-HMC20-150	20	34	49.5	150	100	42	M16X1.0
WL100HMC	50	CAT50AD/B-HMC6-150	6	20	44.5	150	100	27	M5X0.8
WL102HMC		CAT50AD/B-HMC8-150	8	22	44.5	150	100	27	M6X1.0
WL104HMC		CAT50AD/B-HMC10-150	10	24	44.5	150	100	32	M8X1.0
WL106HMC		CAT50AD/B-HMC12-150	12	25	44.5	150	100	37	M10X1.0
WL108HMC		CAT50AD/B-HMC16-150	16	32	44.5	150	100	42	M12X1.0
WL110HMC		CAT50AD/B-HMC20-150	20	34	44.5	150	100	42	M16X1.0

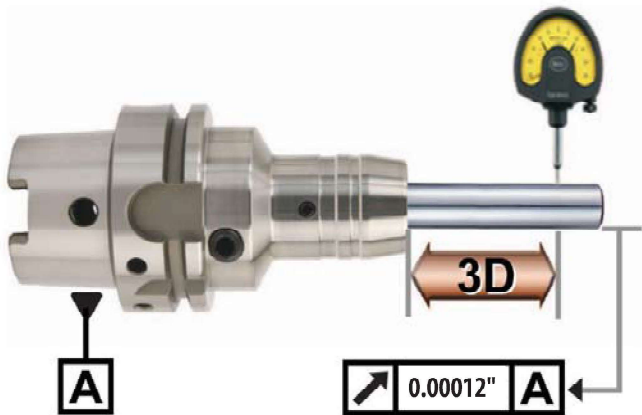
* Applicable Hydraulic Chuck collets(reduction sleeves) on page 29~36.

TECHNICAL INFORMATION

HYDRAULIC CHUCK

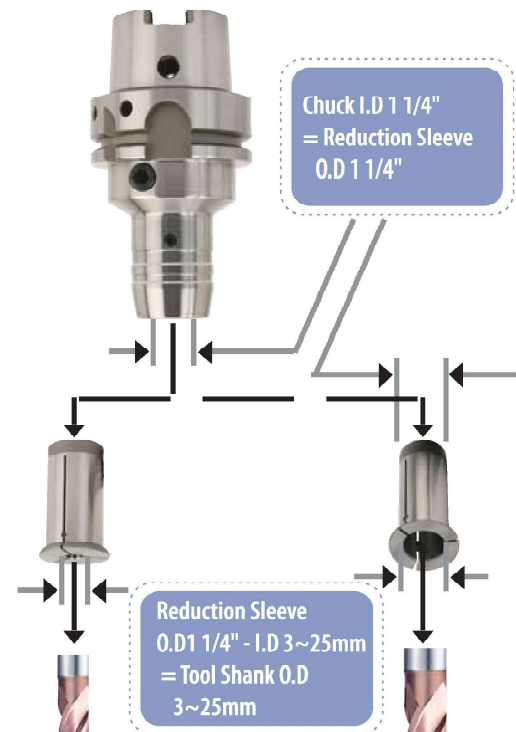


- **High precision T.I.R :**
 $\leq 0.00012''$ (Without Reduction Sleeve)

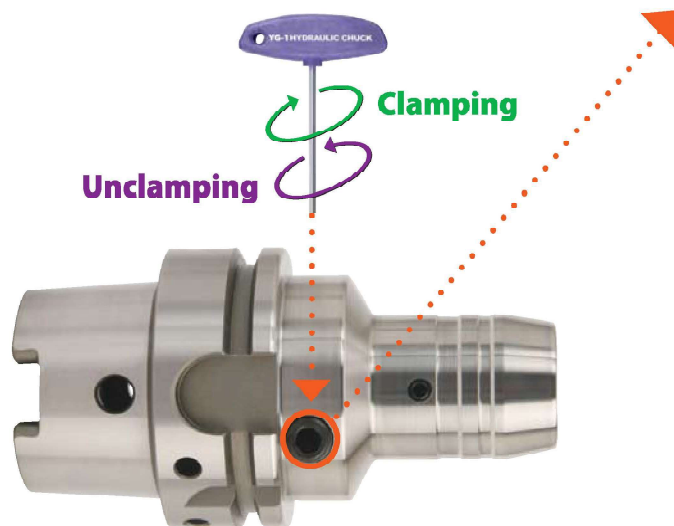


- Less than 0.00012" T.I.R
 $\Rightarrow$ Suitable for high-speed precision machining

- **Flexible use of cutting tools by using reduction sleeves**

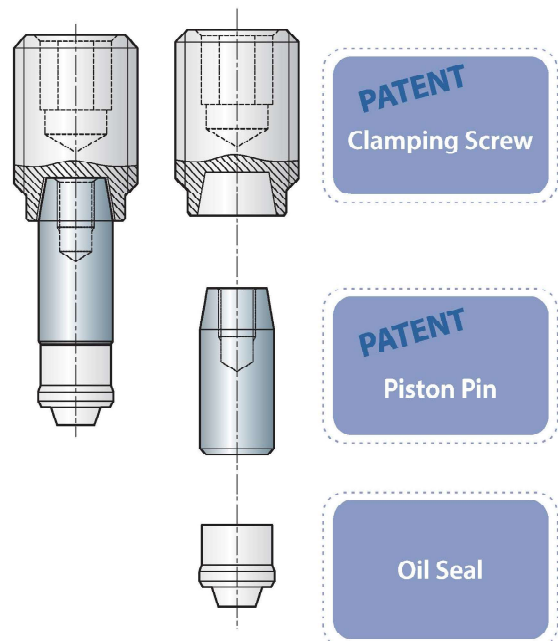


- **Easy Tool Change**



- Easy clamping and unclamping by use of T wrench
 $\Rightarrow$ Reducing tool change time

CLAMPING SCREW



TECHNICAL INFORMATION

HYDRAULIC CHUCK



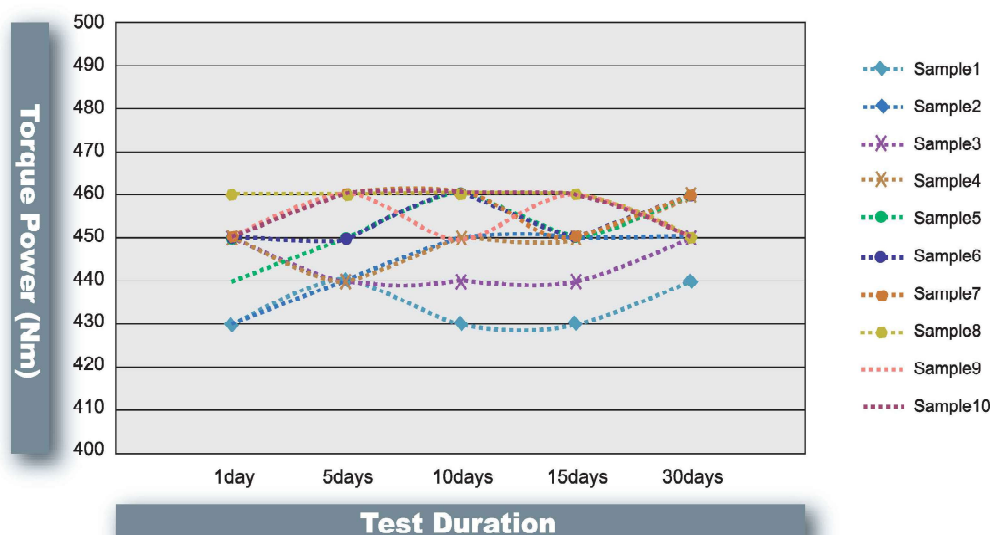
● Strong Torque Power

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 °C
- 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

TECHNICAL INFORMATION

T.I.R and TOLERANCE

● T.I.R (Total Indicated Run-out)

HYDRAULIC CHUCK

Concentric to 0.00012" T.I.R (at 3D)

SHRINK FIT HOLDER

Concentric to 0.00012" T.I.R (at I.D)

ER COLLET CHUCK

Concentric to 0.0002" T.I.R (at I.D)

END MILL HOLDER

Concentric to 0.0002" T.I.R (at I.D)

SLITTING SAW ARBOR

Face perpendicular to taper within 0.0002" T.I.R (at I.D)

STUB ARBOR

Face perpendicular to taper within 0.0002" T.I.R (at I.D)

SHELL MILL ARBOR

Face perpendicular to taper within 0.0001" T.I.R

Out diameter to taper within 0.0002" T.I.R

MORSE & JACOBS TAPER ARBOR

Concentric to 0.0003" T.I.R

* To put tool precisely on spindle center line for getting correct T.I.R.

● AT3 or better accuracy on all shank tapers

● Accurate and rigid tool holder mounting to spindle

● The bore diameter of all tool holders is controlled by H5 grade tolerance limit.

TAPER	AT3
#30	0.000078"
#40	0.00012"
#50	0.00016"