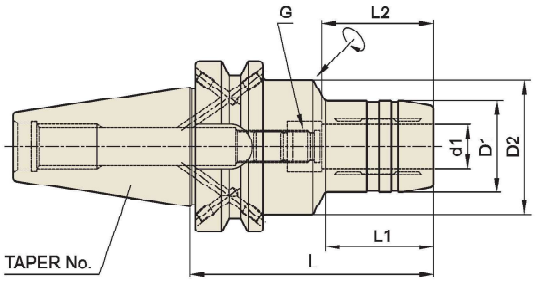
HYDRAULIC CHUCK (SLIM) BT



JIS B6339 - BT	Taper Accuracy	G Value	RPM	Run-Out (at 3D)	Coolant System
	AT3	2.5	25,000	≤0.00012"	AD or AD/B

JIS B6339/MAS 403-BT

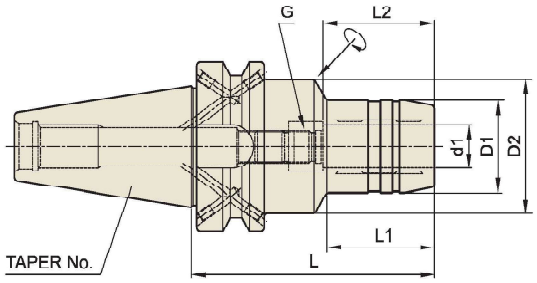
Unit : inch

EDP No.	TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G
WG020	30	BT30-HC1/4-2.75	0.250	1.024	1.752	2.750	1.161	1.063	M5x0.8mm
WG022		BT30-HC5/16-2.75	0.313	1.102	1.752	2.750	1.181	1.063	M6x1.0mm
WG024		BT30-HC3/8-2.95	0.375	1.181	1.752	2.953	1.220	1.260	M8x1.0mm
WG026		BT30-HC1/2-3.35	0.500	1.260	1.772	3.346	1.575	1.457	M10x1.0mm
WG028		BT30-HC5/8-3.54	0.625	1.496	1.772	3.543	1.811	1.654	M10x1.0mm
WG030		BT30-HC3/4-3.54	0.750	1.654	1.772	3.543	1.890	1.654	M6x1.0mm
WH020	40	BT40AD/B-HC1/4-3.54	0.250	1.024	1.752	3.543	1.181	1.063	M5x0.8mm
WH022		BT40AD/B-HC5/16-3.54	0.313	1.102	1.752	3.543	1.280	1.063	M6x1.0mm
WH024		BT40AD/B-HC3/8-3.54	0.375	1.181	1.752	3.543	1.260	1.260	M8x1.0mm
WH026		BT40AD/B-HC1/2-3.54	0.500	1.260	1.752	3.543	1.378	1.457	M10x1.0mm
WH028		BT40AD/B-HC5/8-3.54	0.625	1.496	1.870	3.543	1.575	1.654	M12x1.0mm
WH030		BT40AD/B-HC3/4-3.54	0.750	1.654	1.870	3.543	1.575	1.654	M16x1.0mm
WH032		BT40AD/B-HC1"-3.94	1.000	1.969	2.362	3.937	1.772	1.890	M16x1.0mm
WH034		BT40AD/B-HC1 1/4-4.13	1.250	2.362	-	4.134	-	2.165	M16x1.0mm

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

Phone: +82-32-526-0909, www.yg1.kr, E-mail: yg1@yg1.kr
Phone: +1-800-765-8665, www.yg1usa.com

HYDRAULIC CHUCK (SLIM) BT



JIS B6339 - BT	Taper Accuracy	G Value	RPM	Run-Out (at 3D)	Coolant System
	AT3	2.5	25,000	≤0.00012"	AD or AD/B

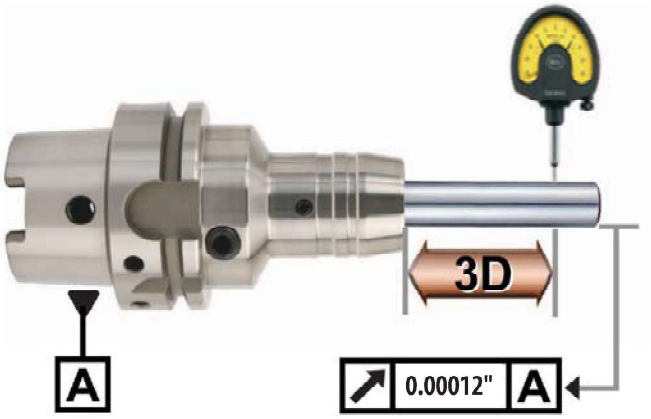
JIS B6339/MAS 403-BT

Unit : mm

EDP No.	TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G
WG100	30	BT30-HC6-70	6	26	44.5	70	29.5	27	M5x0.8
WG102		BT30-HC8-70	8	28	44.5	70	30	27	M6x1.0
WG104		BT30-HC10-75	10	30	44.5	75	31	32	M8x1.0
WG106		BT30-HC12-85	12	32	45	85	45	37	M10x1.0
WG108		BT30-HC14-85	14	34	45	85	45	37	M10x1.0
WG110		BT30-HC16-90	16	38	45	90	50	42	M10x1.0
WG112		BT30-HC18-90	18	40	45	90	50	42	M10x1.0
WG114		BT30-HC20-90	20	42	45	90	50	42	M6x1.0
WH100	40	BT40AD/B-HC6-90	6	26	44.5	90	43	27	M5x0.8
WH102		BT40AD/B-HC8-90	8	28	44.5	90	44.5	27	M6x1.0
WH104		BT40AD/B-HC10-90	10	30	44.5	90	44.5	32	M8x1.0
WH106		BT40AD/B-HC12-90	12	32	44.5	90	44.5	37	M10x1.0
WH108		BT40AD/B-HC14-90	14	34	44.5	90	44.5	37	M10x1.0
WH110		BT40AD/B-HC16-90	16	38	44.5	90	47.5	42	M12x1.0
WH112		BT40AD/B-HC18-90	18	40	44.5	90	47.5	42	M12x1.0
WH114		BT40AD/B-HC20-90	20	42	44.5	90	47.5	42	M16x1.0
WH116		BT40AD/B-HC25-100	25	50	60	100	47.5	48	M16x1.0
WH118		BT40AD/B-HC32-105	32	60	-	105	-	55	M16x1.0

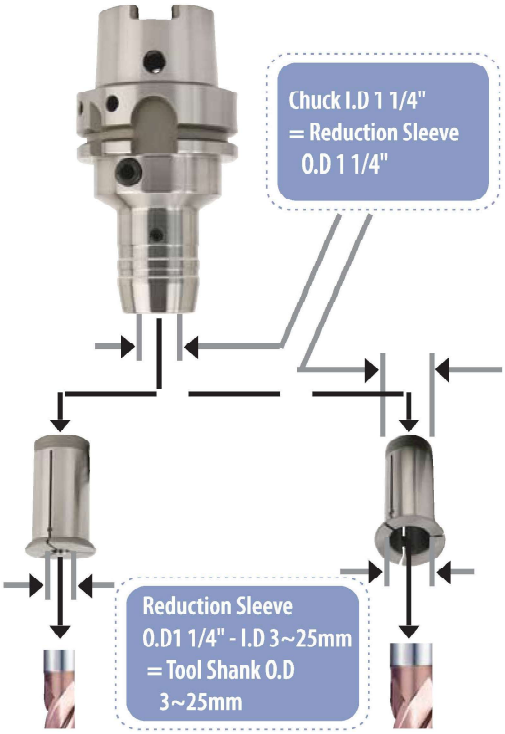
* Applicable Hydraulic Chuck collets(reduction sleeves) on page 29~36.

High precision T.I.R : ≤ 0.00012" (Without Reduction Sleeve)

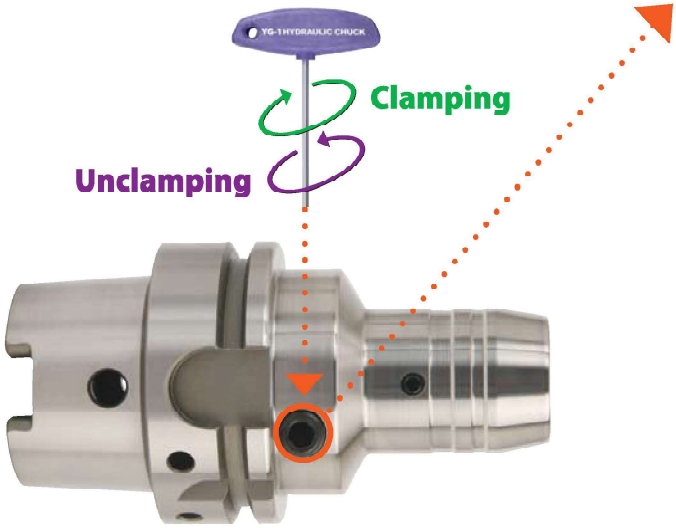


- Less than 0.00012" T.I.R
  => Suitable for high-speed precision machining

Flexible use of cutting tools by using reduction sleeves

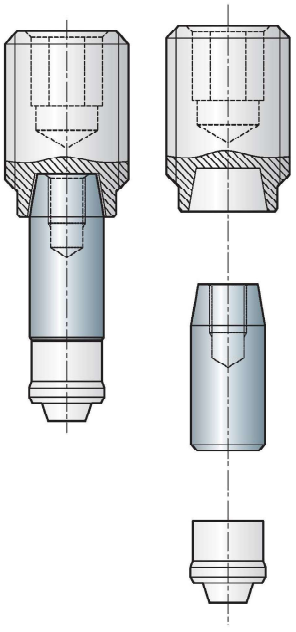


Easy Tool Change



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

CLAMPING SCREW



PATENT
Clamping Screw

PATENT
Piston Pin

Oil Seal

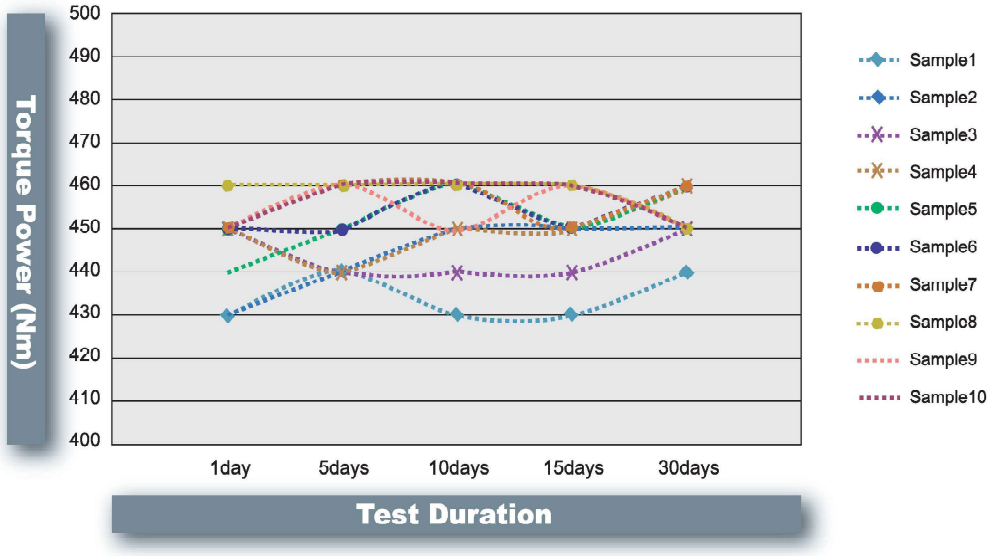
Phone: +82-32-526-0909, www.yg1.kr, E-mail: yg1@yg1.kr
Phone: +1-800-765-8665, www.yg1usa.com

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

TECHNICAL INFORMATION
T.I.R and TOLEARANCE

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

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

Accurate and rigid tool holder mounting to spindle

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

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