

K-2014-2015

ISO 9001 & ISO 14001 Certified 인증 취득

World Best Quality & Pride

SSK TOOLING SYSTEM

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K-2014-2015

SSK TOOLING SYSTEM

ZEIKEN **ATOM** 신세기산업주식회사

ZEIKEN **ATOM**

SSK TOOL CO., LTD.
신세기산업주식회사

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JIAONAN QINGDAO, CHINA

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SSK TOOL CO., LTD.
신세기산업주식회사
www.ssktool.co.kr

ATOM

HYDRAULIC CHUCK
SHRINK FIT HOLDER
MILLING CHUCK
SK SLIM CHUCK
ER COLLET CHUCK
NC DRILL CHUCK
MORSE TAPER ARBOR
TAPPING ER CHUCK
TAP CHUCK
SLA & EMH
FACE MILL SYSTEM
SHELL MILL ARBOR
BORING SYSTEM
ANGLE HEAD

HYDRAULIC CHUCK
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BORING SYSTEM
ANGLE HEAD

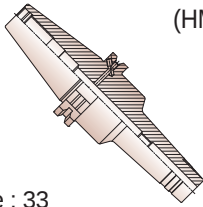
연혁

신세기산업(주) 창립	Apr. 1, 1982	Founded SSK Tool Co., Ltd.
품질관리 최우수업체 선정(상공부장관)	Aug. 4, 1983	Authorized as an "Excellent Quality Management Enterprise" by Ministry of Commerce & Industry
무역업등록	May 29, 1984	Licensed for "International Trading Enterprise"
"정밀도 경진대회" 정밀가공부분 수상(상공부장관)	Oct. 20, 1990	Awarded "Super Precision Machining Technology Enterprise" by Ministry of Commerce & Industry
고속가공용 TOOL개발	May 30, 2000	Launched full range of tool holders for highly balanced tools.
독일 TUV ISO 9001 인증획득	Apr. 2001	Certified ISO 9001 by TÜV
수출유망 중소기업	July 2003	Designated as an "Exemplary International Marketing Enterprise" by Incheon City Government
중국청도 초세기 유한공사 설립	Apr. 5, 2004	Founded Super Century Tool Company at QingDao, China
제 43회 무역의날 500만불 수출탑 수상	Mar. 2006	Awarded "Tower of Export" from the President of Korea
BORING SYSTEM FULL LINE 구축	Oct. 2007	Launched full range of Boring System
혁신적인 공장 자동화 실현	Sept. 2008	Completed revolutionary Factory Automation
유압척 CLAMPING UNIT에 관한 국내,해외 특허출원	May 2009	Acquired a patent for Hydraulic Chuck clamping unit
길이조절형 유압척 개발	Jan. 2010	Launched radial tool length pre-setting type Hydraulic Chuck
FINE BORING SYSTEM 개발	Nov. 2011	Launched Fine Boring Bar for Boring System
비전기업지정(인천광역시)	Nov. 2011	Designated as a "Exemplary Vision Enterprise" of Technology Revolution by Incheon City Government
제품군을 "SUPREME", "POP"으로 분류출시	Apr. 2013	Classified products into two groups and launched "SUPREME" & "POP" line.
ISO14001 인증취득(SBCR)	June 2013	Certified ISO 14001 by SBCR
스위스 SWISS TOOL SYSTEM사와 FINE BORING SYSTEM 판매권 계약	June 2013	Contracted Sales Distributionship of Fine Boring System with Swiss Tool System AG, Switzerland
SYNCHRONIZED TAP CHUCK 출시	Aug. 2013	Launched Synchronized Tap Chuck
스위스 "gewitec"사와 아시아 지역 독점 판매권 계약	Oct. 2013	Contracted Exclusive Sales Distributionship with Gewitec AG, Switzerland for all Asian countries
CBT(BT2면구속)제품 출시	Dec. 2013	Launched CBT(BT Dual Contact) products



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SHRINK FIT HOLDER

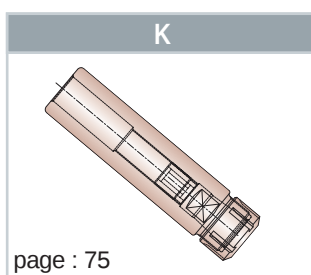
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MILLING CHUCK

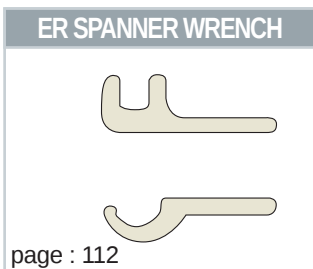
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SK SLIM CHUCK



ER COLLET CHUCK



NC DRILL CHUCK

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JACOBS TAPER ADAPTER



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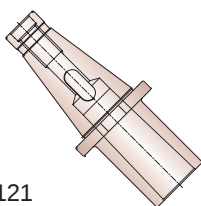
MORSE TAPER ARBOR

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TAPPING ER CHUCK

JIS B6339 (MAS 403)-BT



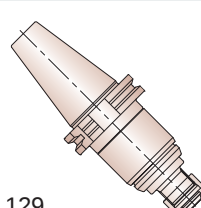
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FACE MILL SYSTEM

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(FMA)



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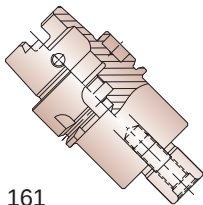
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JIS B6339 (MAS 403)-BT



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JIS B6339 (MAS 403)-BT

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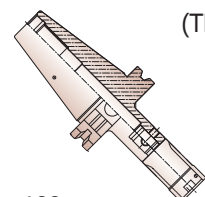
(TBH)



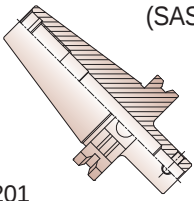
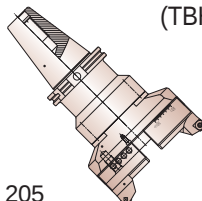
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DIN69871 - SK

(TBH)



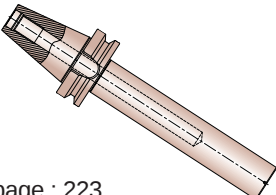
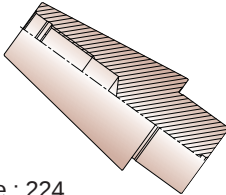
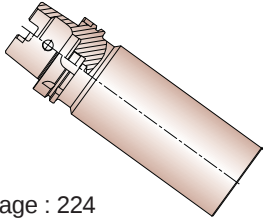
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ANGLE HEAD

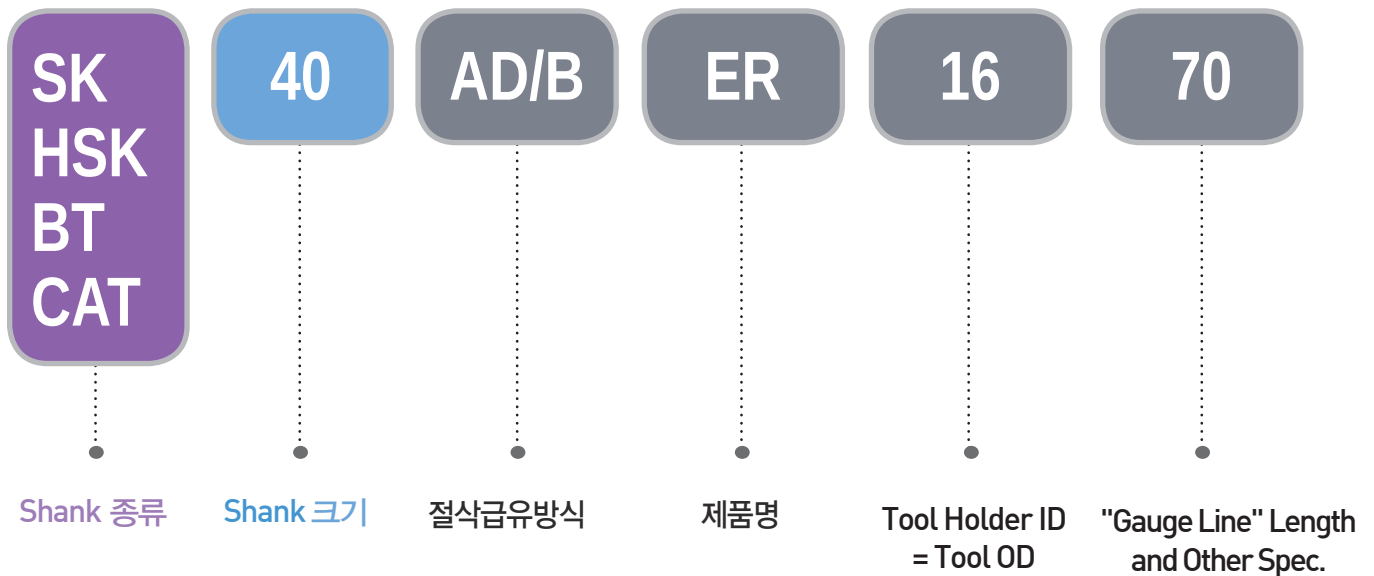
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MODEL NUMBERING SYSTEM& FINISH

MODEL NUMBERING SYSTEM



SURFACE FINISH

AVAILABLE SURFACE FINISH

- SHOT PEENING
- BRIGHT FINISH
- BLACK OXIDIZATION
- ANTI-RUST TREATED FINISH

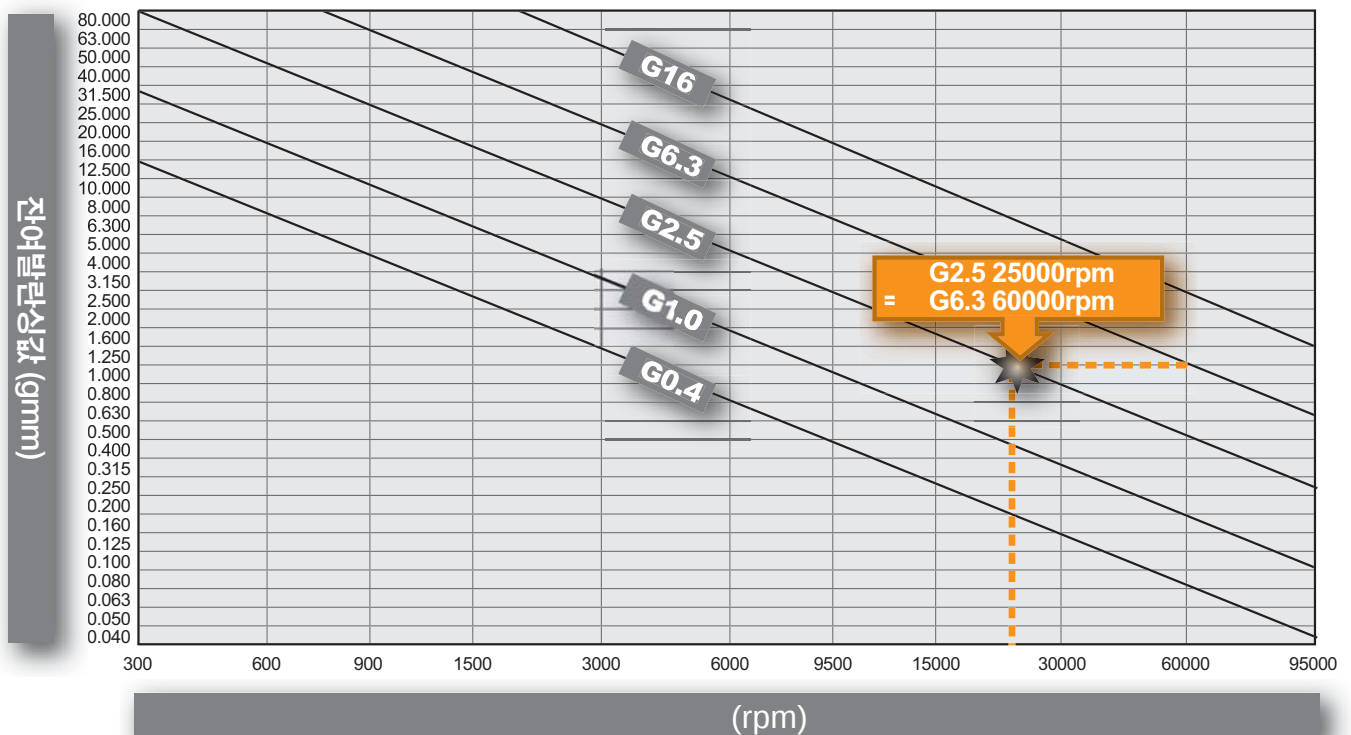
BALANCING & UNBALANCING

1. Balancing(발란싱) & Unbalancing(언발란싱)의 정의

Rotor (Toolholder)를 어떤 축의 주위에 회전시키면, 모든 구성 부분에 원심력이 일어납니다. 이 원심력이 회전축에 대하여 대칭으로 분포하고 있다면 반대 방향에 일어나는 원심력은 상호간에 상쇄 되므로 회전축에는 어떤 힘도 작용하지않고, 따라서 베어링은 진동하지 않습니다. 이때 Rotor (Toolholder)는 Balance(균형)의 상태에 있다고 말 합니다. 이에 대해, 원심력이 회전축에 대해 비대칭으로, 한 이 크게 되면, 결과로서 그 차이에 상당하는 힘이 회전축에 더해져 베어링을 진동시킵니다. 이 힘의 차이를 일으키는 근원이 되는 Rotor (Toolholder)의 질량 분포의 불균형을 unbalance 라고 합니다. 바꾸어 말하면 unbalance 라는 것은, Balance의 상태에 있는 Rotor (Toolholder)상에 여분으로(또는 부족하게) 존재하는 질량이라고 할 수 있습니다.

2. Balancing Grade Quality According To ISO 1940

(DIN ISO 1940 – 독일 규격 – 에 따른 발란싱 품질 수준)



G값의 산출

$$\frac{G \times m}{\text{rpm}} \times 9549 = U$$

G : Balancing Grade or 원주 속도

m : Rotor (Holder) 무게 <-- 단위 Kg

9549 : 변환 상수

U : Unbalance 정도 (허용 잔류 Unbalance) <--단위 g.mm

rpm : 분당 회전 속도

BALANCING & UNBALANCING

3. Balance 가공의 장점

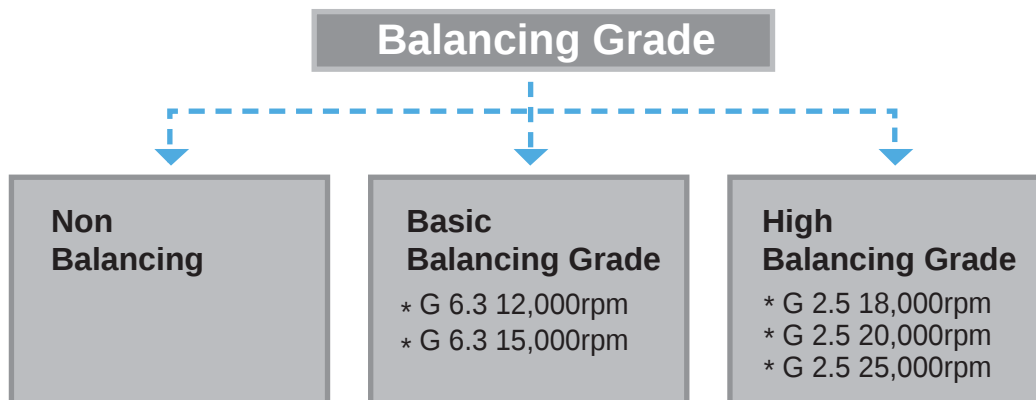
최근의 회전기계는, 기술의 진보에 따라 점점 정밀하게 그리고 고속화 되고 있고, 이전보다 매우 엄격한 조건으로 한층 높은 능력과 안정된 기능이 요구되고 있습니다.

고속 가공에 있어서 기기의 성능을 떨어지게 하는 최대의 요인은 진동이며 그에 동반하여 발생하는 불쾌감, 소음, 피로 등이 생산성에 영향을 주는 주요 문제입니다..

Rotor (Toolholder)의 Balancing 은 기계 진동을 방지 하는 목적을 위해서는 매우 기본적인 것임과 동시에 효과적인 작업으로서, 회전 기기의 제작에는 불가결한 공정의 하나로서 넓게 인식되고 있습니다.

SSK의 Toolholder 는 사용자의 요구조건을 충족하는 다양한 Balancing 등급의 제품을 생산 합니다.

4. SSK Balancing Grade Standard



5. SSK Balancing 사양 (for Balancing Design Products)

PRODUCT	SHANK	GRADE	RPM	Conversion to G6.3
HYDRAULIC CHUCK	BT/CBT 30/40/50	G2.5	25,000	G6.3/63,000rpm
	SK 30/40/50			
	HSK 32/40/50/63/100			
SHRINK FIT HOLDER	BT/CBT 30/40/50	G2.5	25,000	G6.3/63,000rpm
	SK 30/40/50			
	HSK 40/50/63/100			
OTHER CHUCKS & TOOL HOLDERS	CAPTO	G6.3	15,000	
	BT/CBT 30/40/50	G6.3	15,000	
	SK 30/40/50	G6.3	20,000	
	HSK 40/50/63/100	G2.5	25,000	
	CAPTO	G6.3	15,000	

* HIGHER BALANCING GRADE PRODUCT COULD BE SUPPLIED UPON CUSTOMER'S REQUEST.

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM • NC DRILL CHUCK • BORING SYSTEM



HYDRAULIC CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

연삭기전용

HYDRAULIC CHUCK COLLET

JIS B6339(MAS403)-BT

- 2면 구속홀더 (길이조절형/SLIM형)
- STANDARD (길이조절형/SHORT형/SLIM형)
- MOLD TYPE (2면구속형/SLIM 형)

DIN69893/ISO12164-1 HSK

- 길이조절형/SHORT형/SLIM형/MOLD형

DIN69871-SK

- 길이조절형/SHORT형/SLIM형/MOLD형

연삭기전용

- DIN69871-SK/DIN228(MTB)

HYDRAULIC CHUCK COLLET

- HC (OPEN TYPE) / HS (CLOSED TYPE)

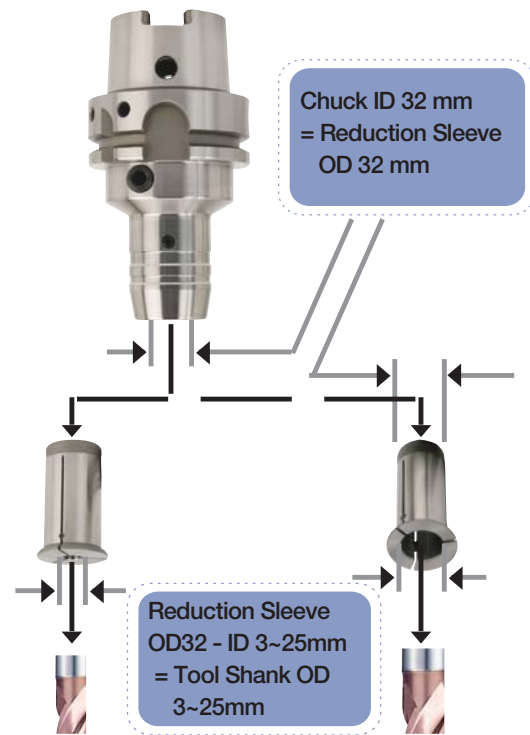
HYDRAULIC CHUCK

High precision
고정밀 T.I.R 0.003mm 이하

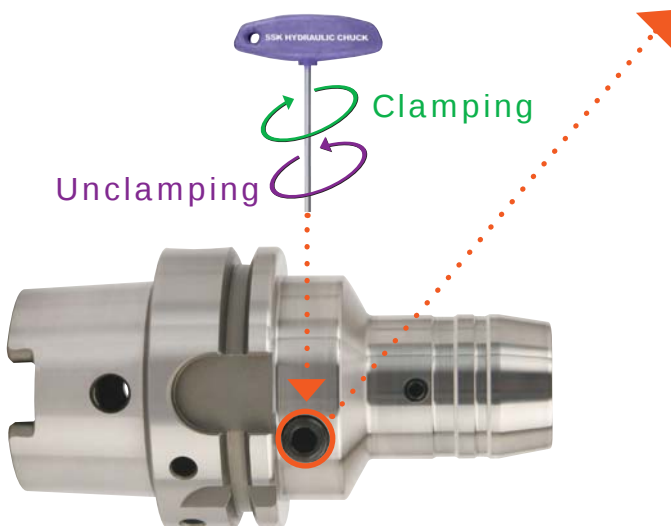


- T.I.R 0.003mm
=> 고속 정밀 가공 실현

Reduction sleeve로
다양한 size의 Tool사용

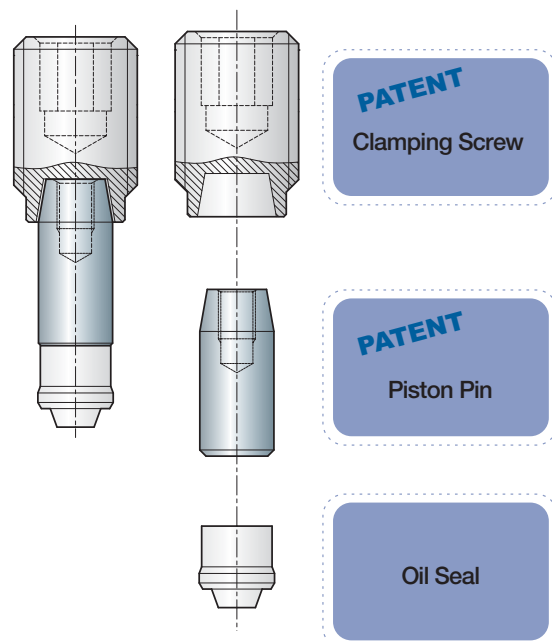


Easy Tool Change
손쉬운 툴 교체



- T Wrench로 손쉬운 Clamping, Unclamping 가능
=> Tool 교체 시간 단축

CLAMPING SCREW



HYDRAULIC CHUCK

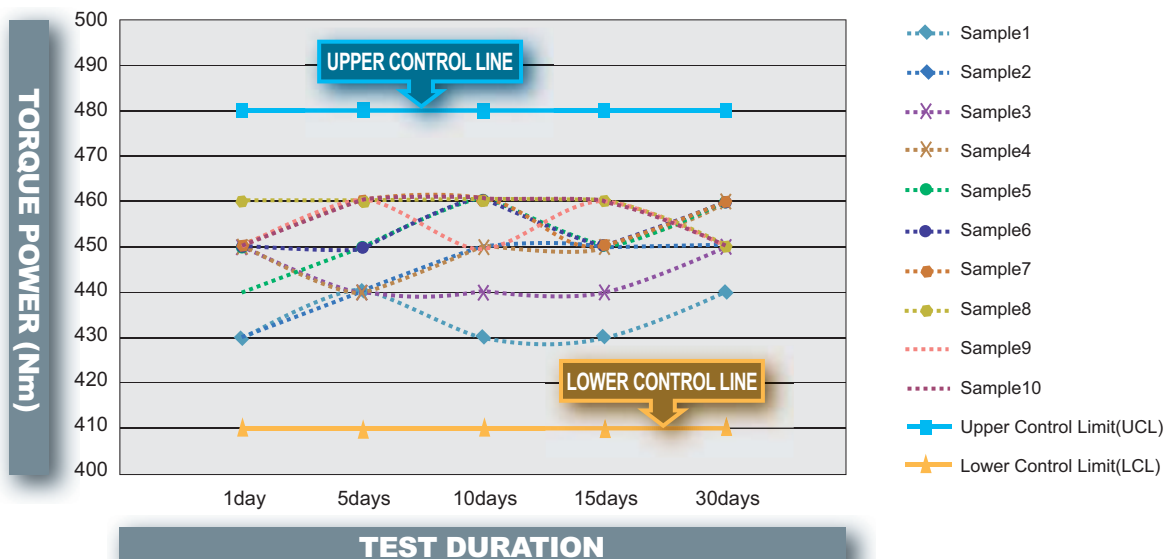
Strong Torque Power 강력한 파지력

유압척 ID (mm)	Tool Shank OD (mm)	적용 RPM	최소 clamping depth (mm)	파지력 (Nm)
6	6	40,000	27	8
8	8	40,000	27	15
10	10	40,000	32	30
12	12	40,000	27	45
14	14	40,000	37	75
16	16	40,000	42	120
18	18	40,000	42	170
20	20	40,000	42	230
25	25	25,000	48	300
32	32	25,000	55	400

- Tool holder ID 공차 : H6
- Operating Temperature : 20~50 °C
- 최대 절삭유 유압 : 80bar



파지력 및 유압유 누유 Test

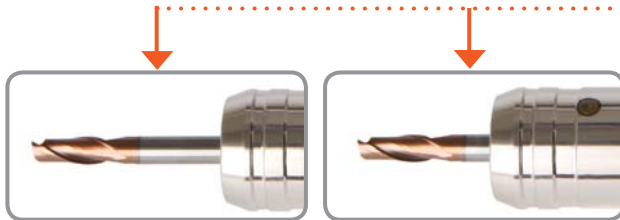
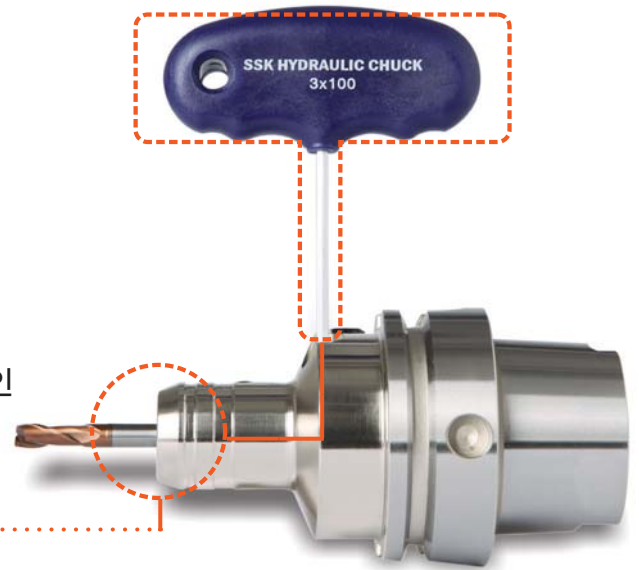


- TEST Model : BT40AD/B-HC20S-72,5
- 장기간 누유 없음 ⇒ 안정적인 파지력 유지

HYDRAULIC CHUCK

길이 조절형

- 절삭공구 Pre-Setting 시 길이 조절 용이
(일반 유압척 보다 절삭공구 setting 시간 1/5 절감)
- 절삭 공구 길이 정밀 조절 가능
- 길이 조절 screw와 clamping Screw가 분리되도록 디자인



절삭공구 길이
조절 가능 범위 0~10 mm

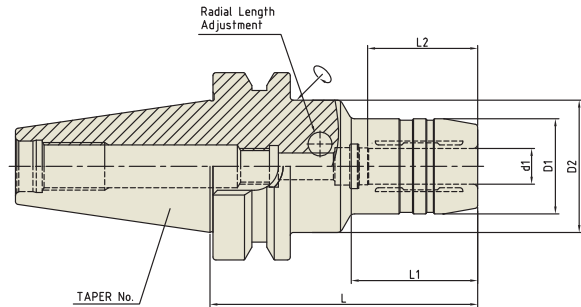
APPLICATION [적용 예]

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

HYDRAULIC CHUCK (길이조절형) **NEW**

HCR

JIS B6339 (MAS 403) - BT FORM (AD)



CBT

Taper Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UμCoolant System
AD

CBT (BT 2면 구속용)

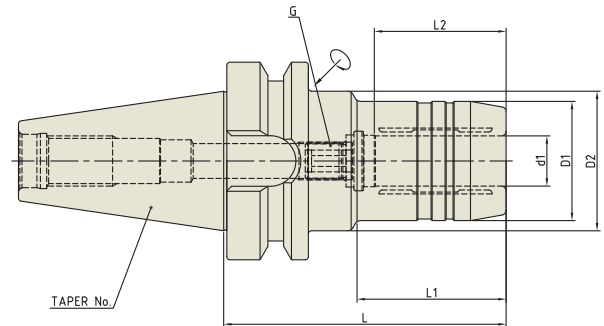
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	중량(kg)	재고
30	CBT30-HCR12-85	12	32	44.5	85	40	37	0.90	
	CBT30-HCR20-85	20	44	44	85	-	42	1.00	●
40	CBT40-HCR12-90	12	32	44.5	90	44.5	37	1.50	
	CBT40-HCR20-90	20	42	49.5	90	47.5	42	1.60	●
	CBT40-HCR32-105	32	60	60	105	-	55	2.20	
50	CBT50-HCR12-95	12	32	44.5	95	34	37	3.90	
	CBT50-HCR20-100	20	42	44.5	100	44	42	4.00	
	CBT50-HCR32-115	32	60	60	115	-	55	4.10	●

▶ CAT(ANSI B5,50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK **NEW**

HC

JIS B6339 (MAS 403) - BT FORM (AD)



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3U_mCoolant
System
AD

CBT (BT 2면 구속용)

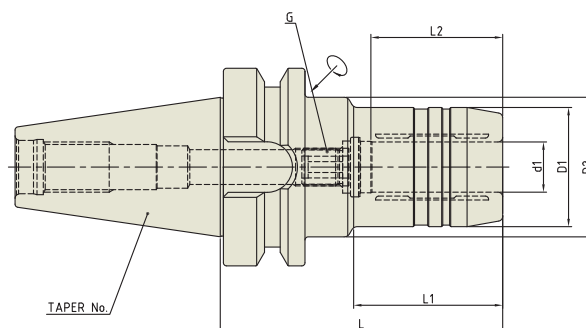
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
30	CBT30-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65	
	CBT30-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65	
	CBT30-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73	
	CBT30-HC12-85	12	32	44.5	85	40	37	M10x1.0	0.80	●
	CBT30-HC14-85	14	34	44.5	85	40	37	M10x1.0	0.80	
	CBT30-HC16-90	16	38	44.5	90	46	42	M12x1.0	0.90	
	CBT30-HC18-90	18	40	44.5	90	46	42	M12x1.0	0.90	
	CBT30-HC20-90	20	42	44.5	90	48	42	M16x1.0	0.90	●
40	CBT40-HC6-90	6	26	49.5	90	30	27	M5x0.8	1.30	
	CBT40-HC8-90	8	28	49.5	90	30	27	M6x1.0	1.30	
	CBT40-HC10-90	10	30	49.5	90	32	32	M8x1.0	1.35	
	CBT40-HC12-90	12	32	49.5	90	35	37	M10x1.0	1.35	●
	CBT40-HC14-90	14	34	49.5	90	35	37	M10x1.0	1.35	
	CBT40-HC16-90	16	38	49.5	90	40	42	M12x1.0	1.40	
	CBT40-HC18-90	18	40	49.5	90	40	42	M12x1.0	1.45	
	CBT40-HC20-90	20	42	49.5	90	40	42	M16x1.0	1.50	●
	CBT40-HC25-100	25	50	60	100	45	48	M16x1.0	1.70	
	CBT40-HC32-105	32	60	60	105	50	55	M16x1.0	2.10	●

▶CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK **NEW**

HC

JIS B6339 (MAS 403) - BT FORM (AD)



CBT

Taper Accuracy

AT3

G Value

2.5

RPM

25,000

Run-Out (at 3d1)

≤3Um

Coolant System

AD

CBT (BT 2면 구속용)

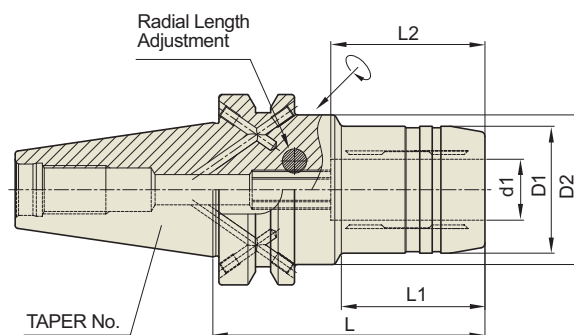
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
50	CBT50-HC6-90	6	26	44.5	90	43	27	M5×0.8	3.75	
	CBT50-HC6-120	6	26	44.5	120	43	27	M5×0.8	4.10	
	CBT50-HC6-150	6	26	44.5	150	43	27	M5×0.8	4.70	
	CBT50-HC8-90	8	28	44.5	90	44.5	27	M6×1.0	3.75	
	CBT50-HC8-120	8	28	44.5	120	44.5	27	M6×1.0	4.10	
	CBT50-HC8-150	8	28	44.5	150	44.5	27	M6×1.0	4.10	
	CBT50-HC10-90	10	30	44.5	90	44.5	32	M8×1.0	3.90	
	CBT50-HC10-120	10	30	44.5	120	44.5	32	M8×1.0	4.30	
	CBT50-HC10-150	10	30	44.5	150	44.5	32	M8×1.0	4.90	
	CBT50-HC12-90	12	32	44.5	90	44.5	37	M10×1.0	3.90	●
	CBT50-HC12-120	12	32	44.5	120	44.5	37	M10×1.0	4.30	
	CBT50-HC12-150	12	32	44.5	150	44.5	37	M10×1.0	4.90	
	CBT50-HC14-90	14	34	44.5	90	44.5	37	M10×1.0	3.90	
	CBT50-HC14-120	14	34	44.5	120	44.5	37	M10×1.0	4.30	
	CBT50-HC14-150	14	34	44.5	150	44.5	37	M10×1.0	4.90	
	CBT50-HC16-90	16	38	44.5	90	44.5	42	M12×1.0	4.00	
	CBT50-HC16-120	16	38	44.5	120	44.5	42	M12×1.0	4.40	
	CBT50-HC16-150	16	38	44.5	150	44.5	42	M12×1.0	5.00	
	CBT50-HC18-90	18	40	44.5	90	44.5	42	M12×1.0	4.00	
	CBT50-HC18-120	18	40	44.5	120	44.5	42	M12×1.0	4.40	
	CBT50-HC18-150	18	40	44.5	150	44.5	42	M12×1.0	5.00	
	CBT50-HC20-90	20	42	44.5	90	44.5	42	M16×1.0	4.00	●
	CBT50-HC20-120	20	42	44.5	120	44.5	42	M16×1.0	4.40	
	CBT50-HC20-150	20	42	44.5	150	44.5	42	M16×1.0	5.00	
	CBT50-HC25-105	25	50	60	105	47.5	48	M16×1.0	4.40	
	CBT50-HC25-150	25	50	60	150	47.5	48	M16×1.0	5.60	
	CBT50-HC32-115	32	60	60	115	-	55	M16×1.0	4.70	●
	CBT50-HC32-150	32	60	60	150	-	55	M16×1.0	6.00	

▶ CAT(ANSI B5,50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (길이조절형)

HCR

JIS B6339 (MAS 403) - BT FORM AD/B



JIS B6339 - BT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Um	Coolant System AD/B
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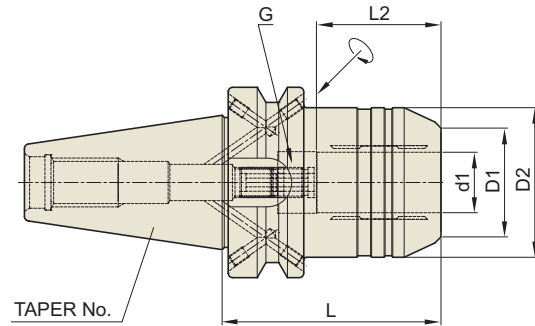
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	중량(kg)	재고
30	BT30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	●
	BT30AD/B-HCR20-85	20	44	44	85	-	42	1.00	●
40	BT40AD/B-HCR12-90	12	32	44.5	90	44.5	37	1.50	●
	BT40AD/B-HCR20-90	20	42	49.5	90	47.5	42	1.60	●
	BT40AD/B-HCR32-105	32	60	60	105	-	55	2.20	●
50	BT50AD/B-HCR12-95	12	32	44.5	95	34	37	3.90	●
	BT50AD/B-HCR20-100	20	42	44.5	100	34	42	4.00	●
	BT50AD/B-HCR32-115	32	60	60	115	-	55	4.10	●

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능합니다.

HYDRAULIC CHUCK (SHORT & RIGID)

HC

JIS B6339 (MAS 403) - BT FORM AD/B

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

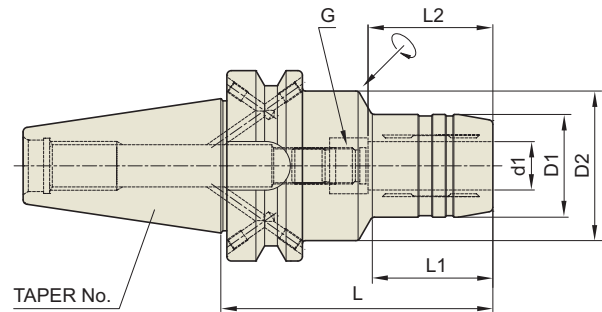
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
30	BT30AD/B-HC20S-85	20	41	44	85	42	M6x1.0	0.93	●
40	BT40AD/B-HC12S-58	12	32	42	58	37	M8x1.0		●
	BT40AD/B-HC20S-72.5	20	38	49.25	72.5	42	M8x1.0	1.40	●
50	BT50AD/B-HC12S-69	12	32	42	69	37	M8x1.0		●
	BT50AD/B-HC20S-90	20	38	49.25	90	42	M8x1.0	3.85	●
	BT50AD/B-HC32S-90	32	58.5	72	90	55	M8x1.0	4.53	●

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

JIS B6339 (MAS 403) - BT FORM AD/B

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3U_mCoolant
System
AD/B

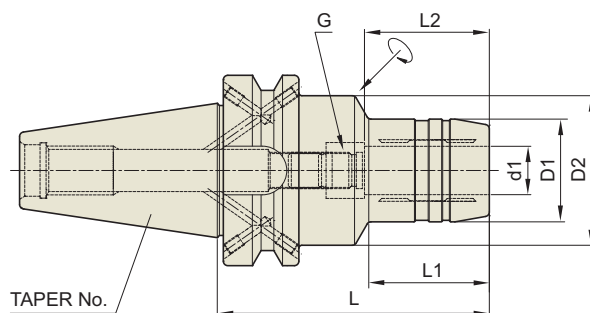
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
30	BT30AD/B-HC6-70	6	26	44.5	70	29.5	27	M5x0.8	0.65	●
	BT30AD/B-HC8-70	8	28	44.5	70	30	27	M6x1.0	0.65	●
	BT30AD/B-HC10-75	10	30	44.5	75	31	32	M8x1.0	0.73	●
	BT30AD/B-HC12-85	12	32	44.5	85	40	37	M10x1.0	0.80	●
	BT30AD/B-HC14-85	14	34	44.5	85	40	37	M10x1.0	0.80	
	BT30AD/B-HC16-90	16	38	44.5	90	46	42	M12x1.0	0.90	●
	BT30AD/B-HC18-90	18	40	44.5	90	46	42	M12x1.0	0.90	
	BT30AD/B-HC20-90	20	42	44.5	90	48	42	M16x1.0	0.90	●
40	BT40AD/B-HC6-90	6	26	49.5	90	30	27	M5x0.8	1.30	●
	BT40AD/B-HC8-90	8	28	49.5	90	30	27	M6x1.0	1.30	●
	BT40AD/B-HC10-90	10	30	49.5	90	32	32	M8x1.0	1.35	●
	BT40AD/B-HC12-90	12	32	49.5	90	35	37	M10x1.0	1.35	●
	BT40AD/B-HC14-90	14	34	49.5	90	35	37	M10x1.0	1.35	
	BT40AD/B-HC16-90	16	38	49.5	90	40	42	M12x1.0	1.40	●
	BT40AD/B-HC18-90	18	40	49.5	90	40	42	M12x1.0	1.45	
	BT40AD/B-HC20-90	20	42	49.5	90	40	42	M16x1.0	1.50	●
	BT40AD/B-HC25-100	25	50	60	100	45	48	M16x1.0	1.70	●
	BT40AD/B-HC32-105	32	60	60	105	50	55	M16x1.0	2.10	●

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

JIS B6339 (MAS 403) - BT FORM AD/B

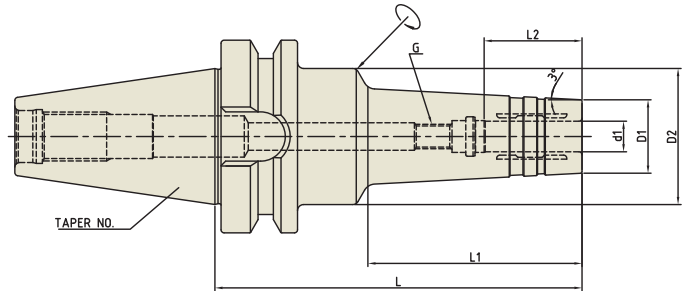
JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
50	BT50AD/B-HC6-90	6	26	44.5	90	43	27	M5x0.8	3.75	●
	BT50AD/B-HC6-120	6	26	44.5	120	43	27	M5x0.8	4.10	
	BT50AD/B-HC6-150	6	26	44.5	150	43	27	M5x0.8	4.70	
	BT50AD/B-HC8-90	8	28	44.5	90	44.5	27	M6x1.0	3.75	●
	BT50AD/B-HC8-120	8	28	44.5	120	44.5	27	M6x1.0	4.10	
	BT50AD/B-HC8-150	8	28	44.5	150	44.5	27	M6x1.0	4.10	
	BT50AD/B-HC10-90	10	30	44.5	90	44.5	32	M8x1.0	3.90	●
	BT50AD/B-HC10-120	10	30	44.5	120	44.5	32	M8x1.0	4.30	
	BT50AD/B-HC10-150	10	30	44.5	150	44.5	32	M8x1.0	4.90	
	BT50AD/B-HC12-90	12	32	44.5	90	44.5	37	M10x1.0	3.90	●
	BT50AD/B-HC12-120	12	32	44.5	120	44.5	37	M10x1.0	4.30	
	BT50AD/B-HC12-150	12	32	44.5	150	44.5	37	M10x1.0	4.90	
	BT50AD/B-HC14-90	14	34	44.5	90	44.5	37	M10x1.0	3.90	
	BT50AD/B-HC14-120	14	34	44.5	120	44.5	37	M10x1.0	4.30	
	BT50AD/B-HC14-150	14	34	44.5	150	44.5	37	M10x1.0	4.90	
	BT50AD/B-HC16-90	16	38	44.5	90	44.5	42	M12x1.0	4.00	●
	BT50AD/B-HC16-120	16	38	44.5	120	44.5	42	M12x1.0	4.40	
	BT50AD/B-HC16-150	16	38	44.5	150	44.5	42	M12x1.0	5.00	
	BT50AD/B-HC18-90	18	40	44.5	90	44.5	42	M12x1.0	4.00	
	BT50AD/B-HC18-120	18	40	44.5	120	44.5	42	M12x1.0	4.40	
	BT50AD/B-HC18-150	18	40	44.5	150	44.5	42	M12x1.0	5.00	
	BT50AD/B-HC20-90	20	42	44.5	90	44.5	42	M16x1.0	4.00	●
	BT50AD/B-HC20-120	20	42	44.5	120	44.5	42	M16x1.0	4.40	
	BT50AD/B-HC20-150	20	42	44.5	150	44.5	42	M16x1.0	5.00	
	BT50AD/B-HC25-105	25	50	60	105	47.5	42	M16x1.0	4.40	●
	BT50AD/B-HC25-150	25	50	60	150	47.5	42	M16x1.0	5.60	
	BT50AD/B-HC32-115	32	60	60	115	-	42	M16x1.0	4.70	●
	BT50AD/B-HC32-150	32	60	60	150	-	42	M16x1.0	6.00	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (For MOULD) **NEW**

HMC



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

CBT (길이조절형)

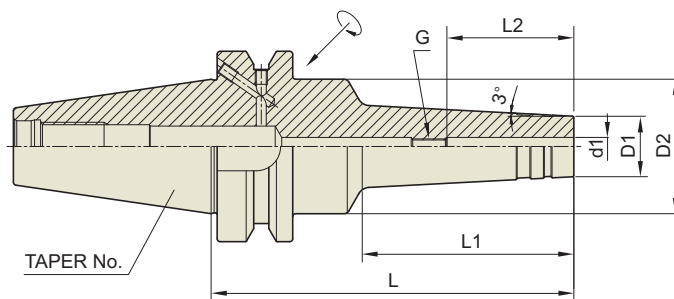
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
40	CBT40-HMC6-120	6	20	44.5	120	70	27	M5x0.8	1.40	
	CBT40-HMC6-150	6	20	44.5	150	100	27	M5x0.8	1.65	
	CBT40-HMC8-120	8	22	44.5	120	70	27	M6x1.0	1.40	
	CBT40-HMC8-150	8	22	44.5	150	100	27	M6x1.0	1.65	
	CBT40-HMC10-120	10	24	44.5	120	70	32	M8x1.0	1.40	
	CBT40-HMC10-150	10	24	44.5	150	100	32	M8x1.0	1.65	
	CBT40-HMC12-120	12	25	44.5	120	70	37	M10x1.0	1.40	
	CBT40-HMC12-150	12	25	44.5	150	100	37	M10x1.0	1.65	
	CBT40-HMC16-120	16	32	44.5	120	70	42	M12x1.0	1.45	
	CBT40-HMC16-150	16	32	44.5	150	100	42	M12x1.0	1.70	
	CBT40-HMC20-120	20	34	44	120	-	42	M16x1.0	1.50	
	CBT40-HMC20-150	20	34	47	150	-	42	M16x1.0	1.80	
50	CBT50-HMC6-150	6	20	50	150	90	27	M5x0.8	4.70	
	CBT50-HMC8-150	8	22	50	150	90	27	M6x1.0	4.70	
	CBT50-HMC10-150	10	24	50	150	90	32	M8x1.0	4.70	
	CBT50-HMC12-150	12	25	37	150	-	37	M10x1.0	4.70	
	CBT50-HMC16-150	16	32	44	150	-	42	M12x1.0	4.90	
	CBT50-HMC20-150	20	34	46	150	-	42	M16x1.0	5.00	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC MOLD CHUCK (SLIM)

HMC

JIS B6339 (MAS 403) - BT FORM AD/B

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

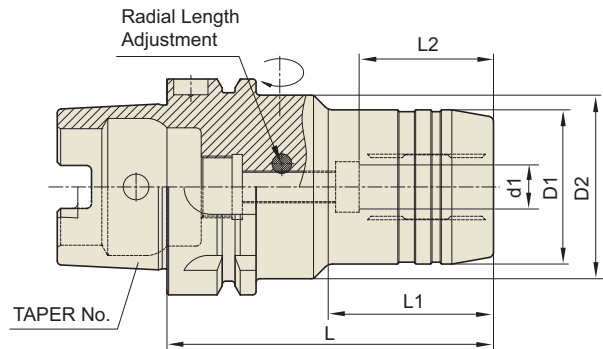
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
40	BT40AD/B-HMC6-120	6	20	44.5	120	70	27	M5x0.8	1.40	
	BT40AD/B-HMC6-150	6	20	44.5	150	100	27	M5x0.8	1.65	
	BT40AD/B-HMC8-120	8	22	44.5	120	70	27	M6 1.0	1.40	
	BT40AD/B-HMC8-150	8	22	44.5	150	100	27	M6x1.0	1.65	
	BT40AD/B-HMC10-120	10	24	44.5	120	70	32	M8x1.0	1.40	
	BT40AD/B-HMC10-150	10	24	44.5	150	100	32	M8x1.0	1.65	
	BT40AD/B-HMC12-120	12	25	44.5	120	70	37	M10x1.0	1.40	
	BT40AD/B-HMC12-150	12	25	44.5	150	100	37	M10x1.0	1.65	
	BT40AD/B-HMC16-120	16	32	44.5	120	70	42	M12x1.0	1.45	
	BT40AD/B-HMC16-150	16	32	44.5	150	100	42	M12x1.0	1.70	
	BT40AD/B-HMC20-120	20	34	44	120	-	42	M16x1.0	1.50	
	BT40AD/B-HMC20-150	20	34	47	150	-	42	M16x1.0	1.80	
50	BT50AD/B-HMC6-150	6	20	50	150	90	27	M5x0.8	4.70	
	BT50AD/B-HMC8-150	8	22	50	150	90	27	M6x1.0	4.70	
	BT50AD/B-HMC10-150	10	24	50	150	90	32	M8x1.0	4.70	
	BT50AD/B-HMC12-150	12	25	37	150	-	37	M10x1.0	4.70	
	BT50AD/B-HMC16-150	16	32	44	150	-	42	M12x1.0	4.90	
	BT50AD/B-HMC20-150	20	34	46	150	-	42	M16x1.0	5.00	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (길이조절형)

HCR

DIN69893 /ISO12164-1 HSK

DIN 69893
- HSKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

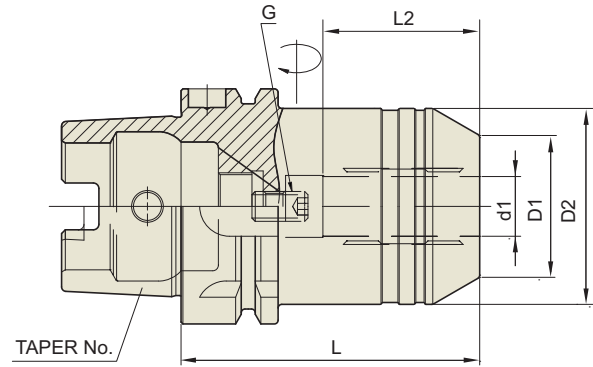
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	중량(kg)	재고
40A	HSK40A-HCR6-80	6	26	34	80	36	27	0.55	
	HSK40A-HCR8-80	8	28	34	80	36	27	0.55	
	HSK40A-HCR10-85	10	30	34	85	43	32	0.65	
	HSK40A-HCR12-90	12	32	34	90	48	37	0.70	
50A	HSK50A-HCR6-80	6	26	50	80	35	27	0.70	
	HSK50A-HCR8-80	8	28	50	80	35	27	0.70	
	HSK50A-HCR10-85	10	30	50	85	38	32	0.73	
	HSK50A-HCR12-90	12	32	50	90	40	37	0.80	
	HSK50A-HCR14-90	14	34	50	90	40	37	0.80	
	HSK50A-HCR16-95	16	38	50	95	46	42	1.00	
	HSK50A-HCR18-95	18	40	50	95	46	42	1.00	
	HSK50A-HCR20-100	20	42	50	100	48	42	1.10	
63A	HSK63A-HCR6-80	6	26	50	80	33	27	0.96	
	HSK63A-HCR8-80	8	28	50	80	33	27	0.98	
	HSK63A-HCR10-85	10	30	50	85	38	32	1.04	
	HSK63A-HCR12-90	12	32	50	90	40	37	1.06	●
	HSK63A-HCR14-90	14	34	50	90	46	37	1.08	
	HSK63A-HCR16-95	16	38	50	95	51	42	1.18	
	HSK63A-HCR18-95	18	40	50	95	52	42	1.20	
	HSK63A-HCR20-100	20	42	50	100	51	42	1.22	●
	HSK63A-HCR25-120	25	57	63	120	54.5	48	2.20	
100A	HSK63A-HCR32-125	32	64	75	125	57.5	55	2.60	●
	HSK100A-HCR6-85	6	26	63	85	33	27	3.60	
	HSK100A-HCR8-85	8	28	63	85	33	27	3.60	
	HSK100A-HCR10-90	10	30	63	90	36	32	3.80	
	HSK100A-HCR12-95	12	32	63	95	40	37	3.80	
	HSK100A-HCR14-95	14	34	63	95	41	37	3.80	
	HSK100A-HCR16-100	16	38	63	100	46	42	3.90	
	HSK100A-HCR18-100	18	40	63	100	46	42	3.90	
	HSK100A-HCR20-105	20	42	75	105	51	42	4.20	
	HSK100A-HCR25-115	25	57	75	115	55.5	48	4.40	
	HSK100A-HCR32-120	32	64	75	120	63.5	55	4.60	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SHORT & RIGID)

HC

DIN69893 /ISO12164-1 HSK



DIN69893- HSK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3U _m	Coolant System AD
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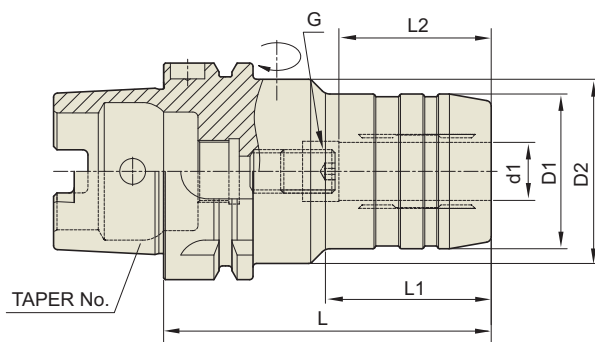
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
63A	HSK63A-HC12S-80	12	32	42	80	35	M8x1.0		
	HSK63A-HC20S-80	20	38	52.5	80	42	M8x1.0		

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

DIN 69893/ISO 12164-1-HSK FORM A

DIN 69893
- HSKTaper
AccuracyG Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

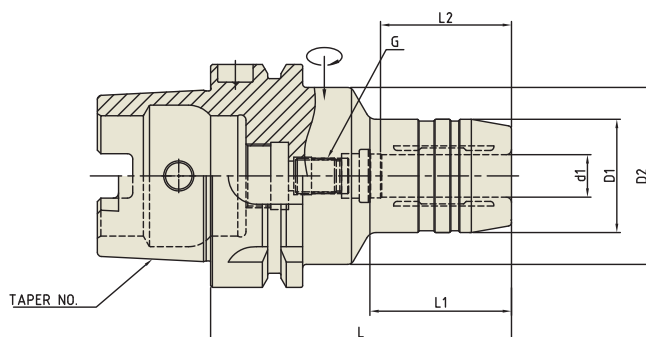
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	G	중량(kg)	재고
32A	HSK32A-HC6-80	6	26	40	80	29	27	M5×0.8	0.30	
	HSK32A-HC8-80	8	28	40	80	29	27	M6×1.0	0.30	
	HSK32A-HC10-85	10	30	40	85	35	32	M6×1.0	0.30	
	HSK32A-HC12-90	12	32	40	90	40	37	M6×1.0	0.30	
40A	HSK40A-HC6-70	6	26	34	70	36	27	M5×0.8	0.50	●
	HSK40A-HC8-70	8	28	34	70	36	27	M6×1.0	0.50	●
	HSK40A-HC10-75	10	30	34	75	42	32	M6×1.0	0.60	●
	HSK40A-HC12-80	12	32	34	80	48	37	M6×1.0	0.65	
50A	HSK50A-HC6-70	6	26	50	70	28	27	M5×0.8	0.65	●
	HSK50A-HC8-70	8	28	50	70	28	27	M6×1.0	0.65	●
	HSK50A-HC10-75	10	30	50	75	34	32	M8×1.0	0.70	●
	HSK50A-HC12-85	12	32	50	85	44	37	M10×1.0	0.75	●
	HSK50A-HC14-85	14	34	50	85	44	37	M10×1.0	0.75	●
	HSK50A-HC16-90	16	38	53	90	30	42	M12×1.0	0.90	●
	HSK50A-HC18-90	18	40	57	90	30	42	M12×1.0	0.90	
63A	HSK63A-HC6-70	6	26	50	70	24	27	M5×0.8	0.53	●
	HSK63A-HC8-70	8	28	50	70	24	27	M6×1.0	0.55	●
	HSK63A-HC10-80	10	30	50	80	35	32	M8×1.0	1.00	●
	HSK63A-HC12-85	12	32	50	85	40	37	M10×1.0	1.03	●
	HSK63A-HC14-85	14	34	50	85	40	37	M10×1.0	1.05	
	HSK63A-HC16-90	16	38	50	90	46	42	M12×1.0	1.15	●
	HSK63A-HC18-90	18	40	50	90	46	42	M12×1.0	1.15	
	HSK63A-HC20-90	20	42	50	90	48	42	M16×1.0	1.20	●
	HSK63A-HC25-120	25	57	63	120	59	48	M16×1.0	2.20	●
100A	HSK100A-HC6-75	6	26	50	75	24	27	M5×0.8	3.20	
	HSK100A-HC8-75	8	28	50	75	24	27	M6×1.0	3.20	
	HSK100A-HC10-90	10	30	50	90	35	32	M8×1.0	3.40	
	HSK100A-HC12-95	12	32	50	95	40	37	M10×1.0	3.40	
	HSK100A-HC14-95	14	34	50	95	40	37	M10×1.0	3.40	
	HSK100A-HC16-100	16	38	50	100	46	42	M12×1.0	3.50	
	HSK100A-HC18-100	18	40	50	100	46	42	M12×1.0	3.60	
	HSK100A-HC20-105	20	42	50	105	48	42	M16×1.0	4.00	
	HSK100A-HC25-110	25	57	63	110	59	48	M16×1.0	4.20	
	HSK100A-HC32-110	32	64	75	110	63	55	M16×1.0	4.30	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

DIN69893/ISO12164-1-HSK FORM C

DIN 69893
- HSKTaper
AccuracyG Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD

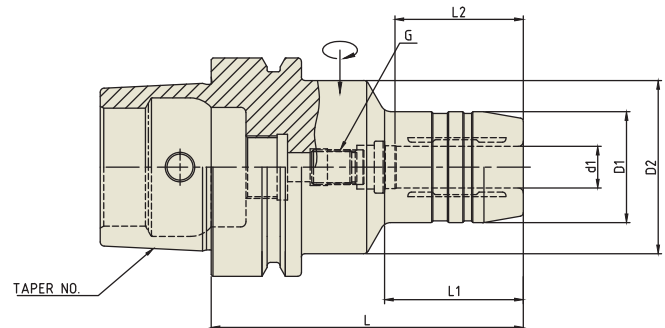
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
32 C	HSK32C-HC6-65	6	22	26	65	33	27	M5x0.8		
	HSK32C-HC8-70	8	24	28	70	34	27	M6x1.0		
	HSK32C-HC10-75	10	26	30	75	39	32	M6x1.0		
	HSK32C-HC12-80	12	28	32	80	45	37	M6x1.0		
40 C	HSK40C-HC6-60	6	22	26	60	35	27	M5x0.8		
	HSK40C-HC8-60	8	24	28	60	36	27	M6x1.0		
	HSK40C-HC10-65	10	26	30	65	41	32	M6x1.0		
	HSK40C-HC12-70	12	28	32	70	47	37	M6x1.0		
50 C	HSK50C-HC6-60	6	22	26	60	30	27	M5x0.8		
	HSK50C-HC8-60	8	24	28	60	30	27	M6x1.0		
	HSK50C-HC10-65	10	26	30	65	35	32	M8x1.0		
	HSK50C-HC12-75	12	28	32	75	44	37	M10x1.0		
	HSK50C-HC14-75	14	30	34	75	46	37	M10x1.0		
	HSK50C-HC16-80	16	34	38	80	51	42	M12x1.0		
	HSK50C-HC18-80	18	36	40	80	51	42	M12x1.0		
	HSK50C-HC20-80	20	38	42	80	52	42	M16x1.0		
63 C	HSK63C-HC6-60	6	22	26	60	25	27	M5x0.8		
	HSK63C-HC8-60	8	24	28	60	25	27	M6x1.0		
	HSK63C-HC10-65	10	26	30	65	31	32	M8x1.0		
	HSK63C-HC12-75	12	28	32	75	41	37	M10x1.0		
	HSK63C-HC14-75	14	30	34	75	42	37	M10x1.0		
	HSK63C-HC16-80	16	34	38	80	48	42	M12x1.0		
	HSK63C-HC18-80	18	36	40	80	48	42	M12x1.0		
	HSK63C-HC20-80	20	38	42	80	49	42	M16x1.0		
	HSK63C-HC25-95	25	53	57	95	63	48	M16x1.0		
	HSK63C-HC32-100	32	59	63	100		55	M12x1.0		

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

DIN69893/ISO12164-1-HSK FORM E & F

DIN 69893
- HSKTaper
Accuracy

G Value

2.5

RPM

25,000

Run-Out
(at 3d1)

≤3Uμm

Coolant
System

AD

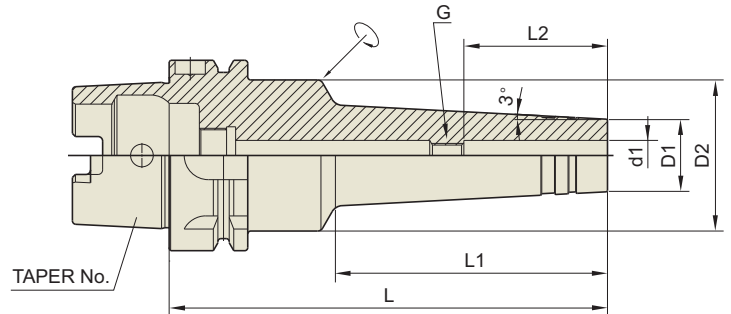
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
40 E	HSK40E-HC6-70	6	26	33.5	70	36	27	M5x0.8		
	HSK40E-HC8-70	8	28	33.5	70	36	27	M6x1.0		
	HSK40E-HC10-75	10	30	33.5	75	42	32	M6x1.0		
	HSK40E-HC12-80	12	32	33.5	80	48	37	M6x1.0		
50 E	HSK50E-HC6-70	6	26	40	70	28	27	M5x1.0		
	HSK50E-HC8-70	8	28	40	70	28	27	M6x1.0		
	HSK50E-HC10-75	10	30	40	75	34	32	M8x1.0		
	HSK50E-HC12-85	12	32	40	85	44	37	M10x1.0		
	HSK50E-HC16-90	16	38	53	90	30	42	M12x1.0		
	HSK50E-HC20-90	20	42	60	90	29	42	M16x1.0		
63 F	HSK63F-HC20-85	20	42	50	85	48	42	M12x1.0		
	HSK63F-HC25-85	25	50		85		48			

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능합니다.

HYDRAULIC MOLD CHUCK

HMC

DIN69893 /ISO12164-1 HSK


DIN 69893
- HSK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(at 3d1)
≤3Uμm

Coolant
System
AD

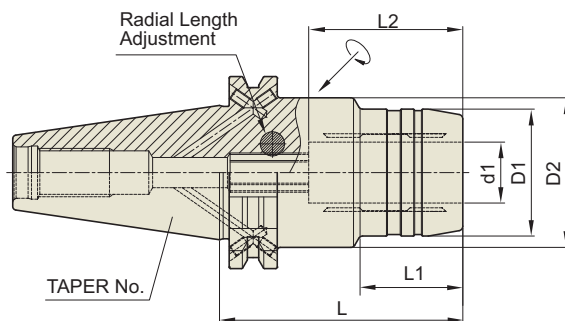
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
63A	HSK63A-HMC6-145	6	20	50	145	90	27	M5x0.8	1.40	
	HSK63A-HMC8-145	8	22	50	145	90	27	M6x1.0	1.40	
	HSK63A-HMC10-145	10	24	50	145	90	32	M8x1.0	1.40	
	HSK63A-HMC12-145	12	25	50	145	90	37	M10x1.0	1.40	
	HSK63A-HMC16-145	16	32	50	145	90	42	M12x1.0	1.45	
	HSK63A-HMC20-145	20	34	50	145	90	42	M16x1.0	1.50	
100A	HSK100A-HMC6-150	6	20	50	150	90	27	M5x0.8	4.50	
	HSK100A-HMC8-150	8	22	50	150	90	27	M6x1.0	4.50	
	HSK100A-HMC10-150	10	24	50	150	90	32	M8x1.0	4.50	
	HSK100A-HMC12-150	12	25	50	150	90	37	M10x1.0	4.50	
	HSK100A-HMC16-150	16	32	50	150	90	42	M12x1.0	4.70	
	HSK100A-HMC20-150	20	34	50	150	90	42	M16x1.0	5.00	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (길이조절형)

HCR

DIN 69871 - SK FORM AD/B

DIN 69871
- SKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UmCoolant
System
AD/B

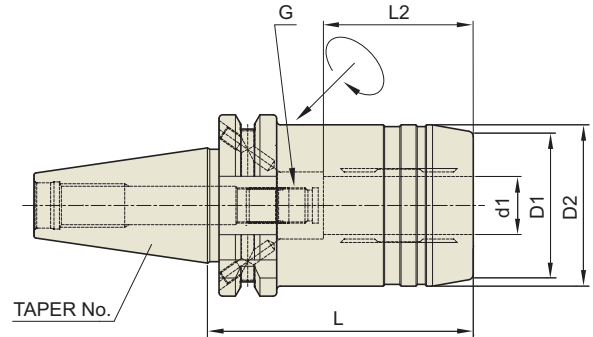
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L 2	중량(kg)	재고
30	SK30AD/B-HCR12-85	12	32	44.5	85	40	37	0.90	
	SK30AD/B-HCR20-85	20	44	44	85	-	42	1.00	
40	SK40AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	1.50	
	SK40AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	1.60	
	SK40AD/B-HCR32-110	32	63	80	110	50	55	2.20	
50	SK50AD/B-HCR12-80.5	12	32	49.5	80.5	31.5	37	3.90	
	SK50AD/B-HCR20-80.5	20	42	49.5	80.5	34	42	4.00	
	SK50AD/B-HCR32-100	32	60	60	100	-	55	4.70	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (길이조절형)

HC

DIN 69871-SK



DIN 69871-SK

Taper Accuracy
AT3G Value
2.5RPM
25,000Run-Out (at 3d1)
≤3U_mCoolant System
AD/B

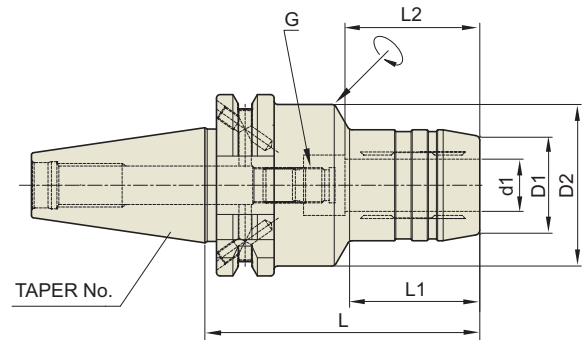
TAPER No.	MODEL No.	d1	D1	D2	L	L 2	G	중량(kg)	재고
30	SK30AD/B-HC20S-85	20	41	44	85	42	M10×1.0	0.53	●
40	SK40AD/B-HC12S-50	12	32	42	50	37	M8×1.0	1.1	●
	SK40AD/B-HC20S-64.5	20	38	49.25	64.5	42	M16×1.0	1.26	●
50	SK50AD/B-HC12S-50	12	32	42	50	37	M8×1.0	2.8	
	SK50AD/B-HC20S-64.5	20	38	49.5	64.5	42	M16×1.0	3.1	
	SK50AD/B-HC32S-81	32	55	72	81	55	M16×1.0	4.1	●

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC CHUCK (SLIM)

HC

DIN 69871 - SK FORM AD/B

DIN 69871
- SKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(at 3d1)
≤3UμmCoolant
System
AD/B

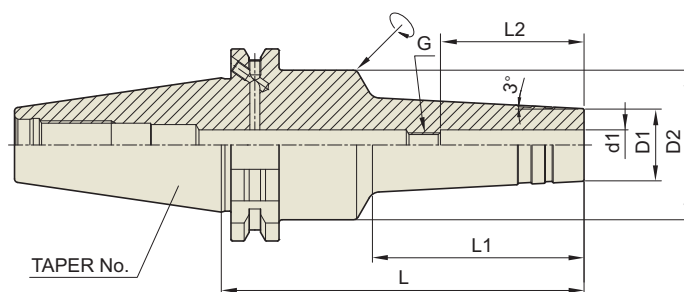
TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
30	SK30AD/B-HC6-70	6	26	44.5	70	29.5	27	M5×0.8	0.65	
	SK30AD/B-HC8-70	8	28	44.5	70	30	27	M6×1.0	0.65	
	SK30AD/B-HC10-75	10	30	44.5	75	31	32	M8×1.0	0.73	
	SK30AD/B-HC12-85	12	32	44.5	85	40	37	M10×1.0	0.80	
	SK30AD/B-HC14-85	14	34	44.5	85	40	37	M10×1.0	0.80	
	SK30AD/B-HC16-90	16	38	44.5	90	46	42	M12×1.0	0.90	
	SK30AD/B-HC18-90	18	40	44.5	90	46	42	M12×1.0	0.90	
	SK30AD/B-HC20-90	20	42	44.5	90	48	42	M16×1.0	0.90	
40	SK40AD/B-HC6-80.5	6	22	26	80.5	30	27	M5×0.8	1.31	
	SK40AD/B-HC6-110	6	22	26	110	30	27	M5×0.8	1.76	
	SK40AD/B-HC8-80.5	8	24	28	80.5	30	27	M12×1.0	1.34	
	SK40AD/B-HC8-110	8	24	28	110	30	27	M6×1.0	1.76	
	SK40AD/B-HC10-80.5	10	26	30	80.5	32	32	M8×1.0	1.34	
	SK40AD/B-HC10-110	10	26	30	110	32	32	M8×1.0	1.76	
	SK40AD/B-HC12-80.5	12	28	32	80.5	35	37	M10×1.0	1.34	
	SK40AD/B-HC12-110	12	28	32	110	35	37	M10×1.0	1.76	
	SK40AD/B-HC16-80.5	16	34	38	80.5	40	42	M12×1.0	1.34	
	SK40AD/B-HC16-110	16	34	38	110	40	42	M12×1.0	1.76	
	SK40AD/B-HC20-80.5	20	38	42	80.5	40	42	M16×1.0	1.35	
	SK40AD/B-HC20-110	20	38	42	110	40	42	M16×1.0	1.78	
	SK40AD/B-HC25-80.5	25	46	50	80.5	45	48	M16×1.0	1.75	
	SK40AD/B-HC32-110	32	56	60	110	50	55	M16×1.0	2.60	
50	SK50AD/B-HC6-80.5	6	22	26	80.5	30	27	M5×0.8	3.00	
	SK50AD/B-HC8-80.5	8	24	28	80.5	30	27	M6×1.0	3.00	
	SK50AD/B-HC10-80.5	10	26	30	80.5	32	32	M8×1.0	3.00	
	SK50AD/B-HC12-80.5	12	28	32	80.5	35	37	M10×1.0	3.05	
	SK50AD/B-HC16-80.5	16	34	38	80.5	40	42	M12×1.0	3.10	
	SK50AD/B-HC20-80.5	20	38	42	80.5	40	42	M16×1.0	3.15	

▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능 합니다.

HYDRAULIC MOLD CHUCK

HMC

DIN 69871 - SK FORM AD/B



DIN 69871 - SK	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (at 3d1) ≤3Uμm	Coolant System AD/B
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TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
40	SK40AD/B-HMC6-120	6	20	49.5	120	70	27	M5×0.8	1.40	
	SK40AD/B-HMC6-150	6	20	49.5	150	100	27	M5×0.8	1.65	
	SK40AD/B-HMC8-120	8	22	49.5	120	70	27	M6×1.0	1.40	
	SK40AD/B-HMC8-150	8	22	49.5	150	100	27	M6×1.0	1.65	
	SK40AD/B-HMC10-120	10	24	49.5	120	70	32	M8×1.0	1.40	
	SK40AD/B-HMC10-150	10	24	49.5	150	100	32	M8×1.0	1.65	
	SK40AD/B-HMC12-120	12	25	49.5	120	70	37	M10×1.0	1.40	
	SK40AD/B-HMC12-150	12	25	49.5	150	100	37	M10×1.0	1.65	
	SK40AD/B-HMC16-120	16	32	49.5	120	70	42	M12×1.0	1.45	
	SK40AD/B-HMC16-150	16	32	49.5	150	100	42	M12×1.0	1.70	
	SK40AD/B-HMC20-120	20	34	49.5	120	70	42	M16×1.0	1.50	
	SK40AD/B-HMC20-150	20	34	49.5	150	100	42	M16×1.0	1.70	
50	SK50AD/B-HMC6-150	6	20	49.5	150	90	27	M5×0.8	4.50	
	SK50AD/B-HMC8-150	8	22	49.5	150	90	27	M6×1.0	4.50	
	SK50AD/B-HMC10-150	10	24	49.5	150	90	32	M8×1.0	4.50	
	SK50AD/B-HMC12-150	12	25	49.5	150	90	37	M10×1.0	4.50	
	SK50AD/B-HMC16-150	16	32	49.5	150	90	42	M12×1.0	1.70	
	SK50AD/B-HMC20-150	20	34	49.5	150	90	42	M16×1.0	5.00	

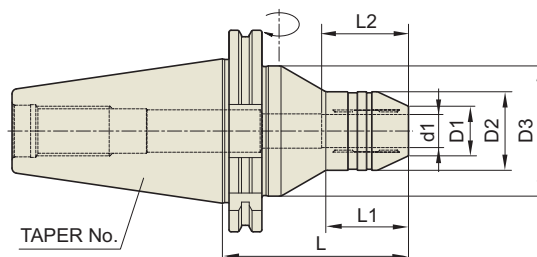
▶ CAT(ANSI B5.50)Taper 및 Inch Type 제품들도 공급 가능합니다.

▶ 유압척 $\phi 12$, $\phi 20$ 형 사용시에는 유압척 COLLET를 사용하여 다양한 SIZE의 절삭공구를 사용하실 수 있습니다.

HYDRAULIC CHUCK (연삭기용)

HC

DIN 69871 - SK FORM A

DIN 69871
- SKTaper
Accuracy
AT3

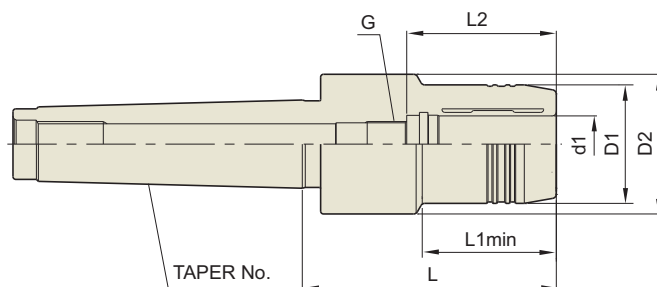
G Value

RPM

Run-Out
(at 3d1)
≤3UmCoolant
System
AD

TAPER No.	MODEL No.	d1	D1	D2	D3	L	L1	L2	중량(kg)	재고
50	SK50-HC6G-90	6	14	30	63	90	30	27	3.00	●
	SK50-HC8G-90	8	16	30	63	90	30	27	3.00	●
	SK50-HC10G-90	10	18	30	63	90	30	32	3.00	●
	SK50-HC12G-90	12	21	33	63	90	35	37	3.05	●
	SK50-HC14G-90	14	22	35	63	90	35	37	3.10	
	SK50-HC16G-90	16	24	38	63	90	40	42	3.10	●
	SK50-HC18G-90	18	26	40	63	90	40	42	3.10	
	SK50-HC20G-110	20	29	42	63	110	40	42	3.30	●
	SK50-HC25G-110	25	34	50	70	110	45	48	3.60	●
	SK50-HC32G-110	32	42	56	80	110	50	55	4.20	●

DIN 228 - MTB



MTB

Taper
Accuracy
AT3

G Value

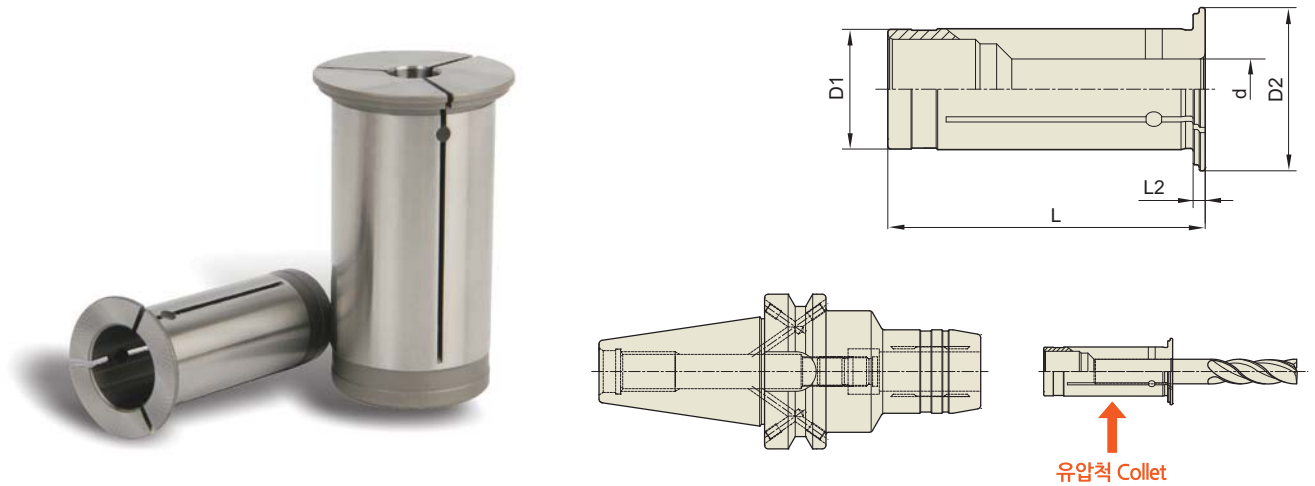
RPM

Run-Out
(at 3d1)Coolant
System

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	G	중량(kg)	재고
MT4	MTB4-HC20-90	20	42	49.5	90	47.5	53	M6×1.0	1.30	●
	MTB4-HC32-90	32	72	72	90	-	75	-	1.40	●
MT5	MTB5-HC20-90	20	42	49.5	90	47.5	53	-	2.20	●
	MTB5-HC32-90	32	72	72	90	-	100	-	2.40	●

HYDRAULIC CHUCK COLLET (OPEN TYPE)

HC



MODEL No.		d	D1	D2	L	L2
HC12	3	3	12	19	47	2
	4	4	12	19	47	2
	5	5	12	19	47	2
	6	6	12	19	47	2
	7	7	12	19	47	2
	8	8	12	19	47	2
HC20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	7	7	20	24	50.5	2
	8	8	20	24	50.5	2
	9	9	20	24	50.5	2
	10	10	20	24	50.5	2
	11	11	20	24	50.5	2
	12	12	20	24	50.5	2
	13	13	20	24	50.5	2
	14	14	20	24	50.5	2
	15	15	20	24	50.5	2
	16	16	20	24	50.5	2
	17	17	20	24	50.5	2
HC32	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3
	25	25	32	36	60.5	3

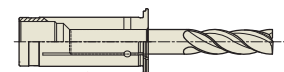
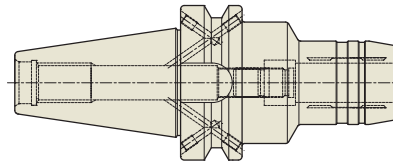
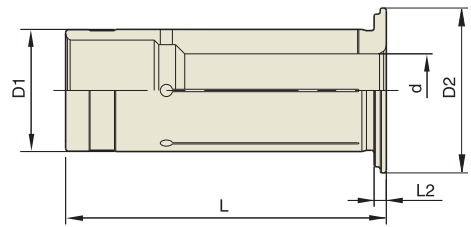
▶ 인치타입 제품들도 공급 가능합니다.

▶ CHUCKING 방법

공구 CHUCKING시는 COLLET에 공구를 먼저 삽입하신 후 유압척에 COLLET를 삽입하시기 바랍니다.

HYDRAULIC CHUCK COLLET (CLOSED TYPE)

HS



유압척 Collet

MODEL No.		d	D1	D2	L	L2
HS12	3	3	12	19	47	2
	4	4	12	19	47	2
	5	5	12	19	47	2
	6	6	12	19	47	2
	7	7	12	19	47	2
	8	8	12	19	47	2
HS20	3	3	20	24	50.5	2
	4	4	20	24	50.5	2
	5	5	20	24	50.5	2
	6	6	20	24	50.5	2
	7	7	20	24	50.5	2
	8	8	20	24	50.5	2
	9	9	20	24	50.5	2
	10	10	20	24	50.5	2
	11	11	20	24	50.5	2
	12	12	20	24	50.5	2
	13	13	20	24	50.5	2
	14	14	20	24	50.5	2
	15	15	20	24	50.5	2
	16	16	20	24	50.5	2
	17	17	20	24	50.5	2
HS32	6	6	32	36	60.5	3
	8	8	32	36	60.5	3
	10	10	32	36	60.5	3
	12	12	32	36	60.5	3
	14	14	32	36	60.5	3
	16	16	32	36	60.5	3
	18	18	32	36	60.5	3
	20	20	32	36	60.5	3
	25	25	32	36	60.5	3

▶ 인치타입 제품들도 공급 가능합니다.

▶ 특 징

유압척 collet (reduction sleeve)는 강한 파지력과 내경의 정밀도를 보증하기 위해 고정밀의 Wier-cutting 작업으로 절개 되어 있습니다.

▶ CHUCKING 방법

공구 CHUCKING시는 COLLET에 공구를 먼저 삽입하신 후 유압척에 COLLET를 삽입하시기 바랍니다.

SHRINK FIT HOLDER

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

ISO26623-CAPTO

STRIGHT SHANK-K

JIS B6339(MAS403)-BT

• 2면 구속형 / 일반형

DIN69893/ISO12164-1 HSK

DIN69871-SK

ISO26623-CAPTO

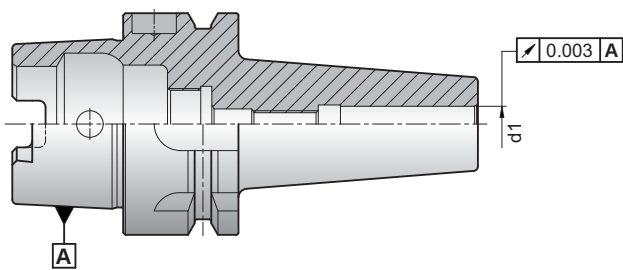
STRIGHT SHANK-K

• STANDARD / EXTENDED

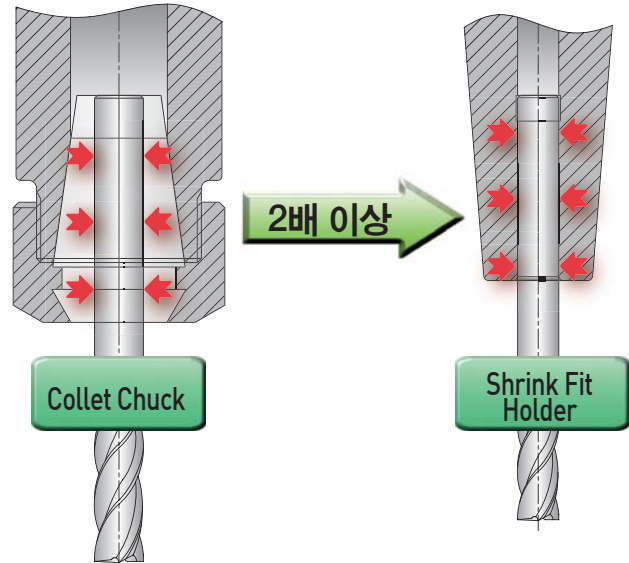
SHRINK FIT HOLDER

초강력 균일한 파지력

고정밀 T.I.R 0.002mm 이하

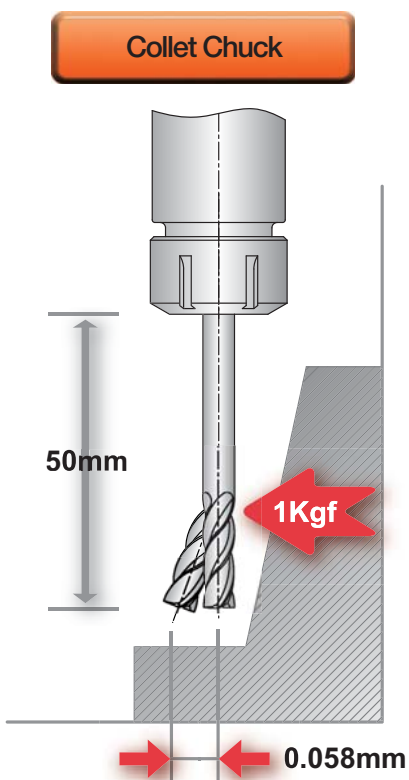


- Chuck 내경 정밀도 0.002mm 이하
고속 정밀 가공에 적합

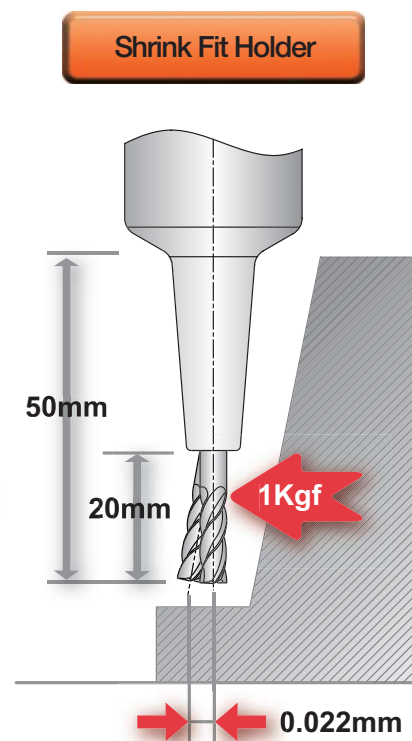


- Chuck과 Tool의 일체화로
강력한 파지력 실현

Deep Hole 가공



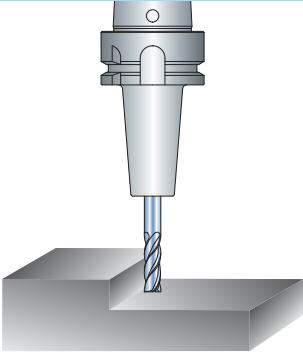
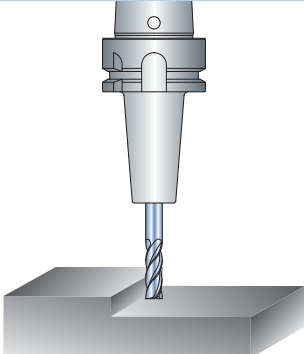
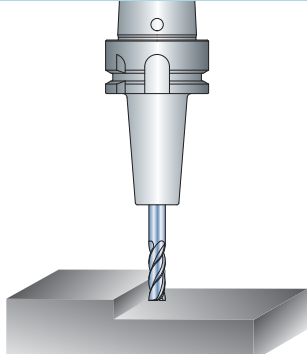
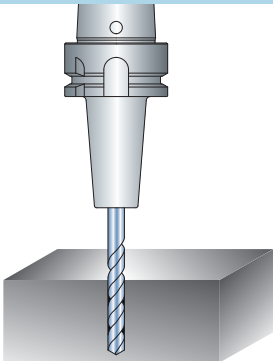
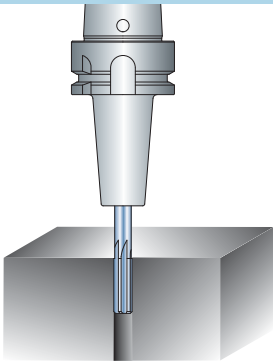
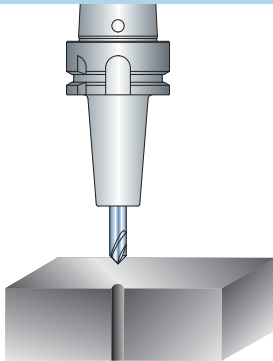
DEEP HOLE 가공의
정밀도 차이 2.6배 이상



- 고속/정밀 Deep Hole 가공시 적합

SHRINK FIT HOLDER

APPLICATION [적용 예]

Rough Milling	Finish Milling	High Speed Cutting
		
Drilling	Reaming	Countersinking
		

Shank type of using tool (사용 Tool의 shank type)

Straight shank



One weldon flat shaft type



- One Weldon flat shaft type은 사용가능
단, shrink fit holder의 내경에 변형을 발생 시킬 우려가 있음

Material of using tool (사용 Tool 소재)

CARBIDE
TOOL

HSS TOOL

OK

NO

SHRINK FIT HOLDER

SHRINK FIT HEATING MACHINE

FEATURE (특징및 장점)

- ▶Power output : Maximum 45W output
- ▶Auto feedback system
: Automatic frequency adjustment function depending on holder material
- ▶Electronic Transformer with regulation
- ▶Detecting circuit of suspending
- ▶최대 45w의 output 출력
- ▶Holder 재질에 따른 주파수 자동 조절 기능
- ▶정압 조절 기능
- ▶사용 정지 중 output 출력 자동 감소 기능

SPECIFICATION (주요 사양)

Heating	Induction
Power	220V AC ,50/60Hz
Rated Ampere	20A Consumption 4KW
Dimension	292 x 300 x 610mm
Shrinking Time	5~16 sec
Induction Head ID	35 min.
Holder Support	SK , HSK, BT

Cooling Unit	Induction
Power	220VAC 50/60Hz
Operation Air pressure range	2~5kgf/cm2
time	0~10 min.

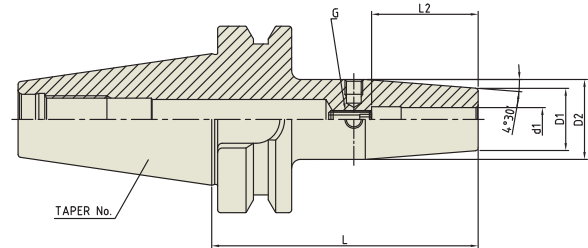


SHRINK FIT HOLDER **NEW**

SFH

JIS B6339 (MAS403) BT FORM (AD)

Shrink Fit
Holder



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Run-Out (I.D) ≤3Uμm	Coolant System AD
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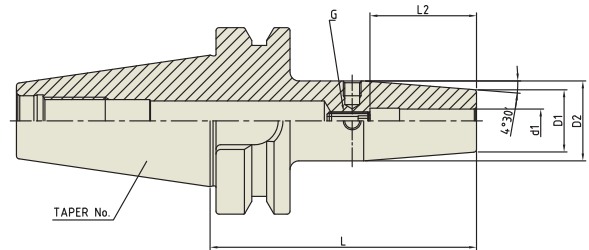
CBT (BT 2면 구속용)

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
30	CBT30-SFH3-60	3	11	21	60	14	-	0.40	
	CBT30-SFH4-60	4	11	21	60	17	-	0.40	
	CBT30-SFH5-60	5	13	23	60	23	-	0.40	
	CBT30-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	CBT30-SFH8-60	8	21	27	60	36	M6×1.0	0.40	
	CBT30-SFH10-80	10	24	32	80	42	M8×1.0	0.40	
	CBT30-SFH12-80	12	24	32	80	47	M10×1.0	0.42	
	CBT30-SFH14-80	14	27	34	80	47	M10×1.0		
	CBT30-SFH16-80	16	27	34	80	50	M12×1.0	0.42	
	CBT30-SFH18-80	18	33	42	80	50	M12×1.0		
	CBT30-SFH20-90	20	33	42	90	52	M16×1.0	0.44	
40	CBT40-SFH3-90	3	11	21	90	14	-	1.00	●
	CBT40-SFH4-90	4	11	21	90	17	-	1.00	●
	CBT40-SFH5-90	5	13	23	90	23	-	1.00	●
	CBT40-SFH6-90	6	21	27	90	36	M5×0.8	1.10	●
	CBT40-SFH6-160	6	21	27	160	36	M5×0.8	1.15	
	CBT40-SFH8-90	8	21	27	90	36	M6×1.0	1.11	●
	CBT40-SFH8-160	8	21	27	160	36	M6×1.0	1.15	
	CBT40-SFH10-90	10	24	32	90	42	M8×1.0	1.10	●
	CBT40-SFH10-160	10	24	32	160	42	M8×1.0	1.15	
	CBT40-SFH12-90	12	24	32	90	47	M10×1.0	1.10	●
	CBT40-SFH12-160	12	24	32	160	47	M10×1.0	1.15	
	CBT40-SFH14-90	14	27	34	90	47	M10×1.0	1.20	
	CBT40-SFH14-160	14	27	34	160	47	M10×1.0	1.50	
	CBT40-SFH16-90	16	27	34	90	50	M12×1.0	1.20	
	CBT40-SFH16-160	16	27	34	160	50	M12×1.0	1.50	
	CBT40-SFH18-90	18	33	42	90	50	M12×1.0	1.30	
	CBT40-SFH18-160	18	33	42	160	50	M12×1.0	1.60	
	CBT40-SFH20-90	20	33	42	90	52	M16×1.0	1.40	●
	CBT40-SFH20-160	20	33	42	160	52	M16×1.0	1.70	
	CBT40-SFH25-100	25	44	53	100	58	M16×1.0	1.70	●
	CBT40-SFH25-160	25	44	53	160	58	M16×1.0	2.00	

SHRINK FIT HOLDER **NEW**

SFH

JIS B6339 (MAS403) BT FORM (AD)



CBT

Taper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D.)
≤3UmCoolant
System
AD

CBT (BT 2면 구속용)

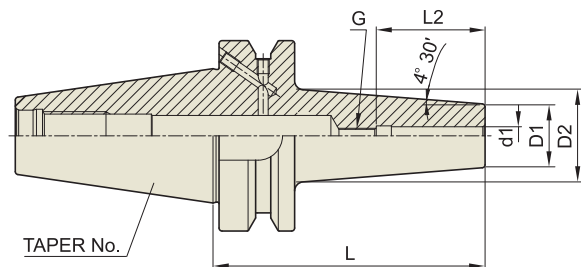
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
50	CBT50-SFH3-100	3	11	21	100	14	-	1.50	
	CBT50-SFH4-100	4	11	21	100	17	-	1.50	
	CBT50-SFH5-100	5	13	23	100	23	-	1.50	
	CBT50-SFH6-100	6	21	27	100	36	M5×0.8	1.50	
	CBT50-SFH6-160	6	21	27	160	36	M5×0.8	2.00	
	CBT50-SFH8-100	8	21	27	100	36	M6×1.0	1.50	
	CBT50-SFH8-160	8	21	27	160	36	M6×1.0	2.00	
	CBT50-SFH10-100	10	24	32	100	42	M8×1.0	1.50	
	CBT50-SFH10-160	10	24	32	160	42	M8×1.0	2.00	
	CBT50-SFH12-100	12	24	32	100	47	M10×1.0	1.50	
	CBT50-SFH12-160	12	24	32	160	47	M10×1.0	2.00	
	CBT50-SFH14-100	14	27	34	100	47	M10×1.0	1.60	
	CBT50-SFH14-160	14	27	34	160	47	M10×1.0	2.10	
	CBT50-SFH16-100	16	27	34	100	50	M12×1.0	1.60	
	CBT50-SFH16-160	16	27	34	160	50	M12×1.0	2.10	
	CBT50-SFH18-100	18	33	42	100	50	M12×1.0	1.60	
	CBT50-SFH18-160	18	33	42	160	50	M12×1.0	2.00	
	CBT50-SFH20-100	20	33	42	100	52	M16×1.0	1.80	
	CBT50-SFH20-160	20	33	42	160	52	M16×1.0	2.20	
	CBT50-SFH25-100	25	44	53	100	58	M16×1.0	2.00	
	CBT50-SFH25-160	25	44	53	160	58	M16×1.0	2.40	

▶ Without balancing screw.

SHRINK FIT HOLDER

SFH

JIS B6339 (MAS 403) - BT FORM AD/B



Shrink Fit
Holder

JIS B6339
- BT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(I.D)
≤3Um

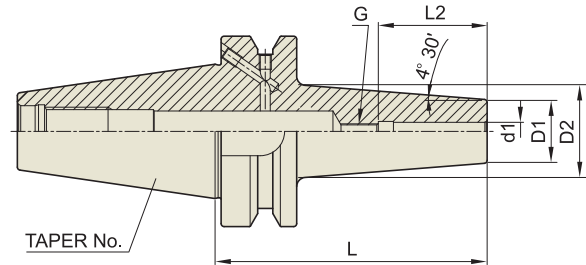
Coolant
System
AD/B

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
30	BT30AD/B-SFH3-60	3	11	17	60	19	-	0.40	
	BT30AD/B-SFH4-60	4	11	17	60	22	-	0.40	
	BT30AD/B-SFH5-60	5	13	19	60	28	-	0.40	
	BT30AD/B-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	BT30AD/B-SFH8-60	8	21	27	60	36	M6×1.0	0.40	
	BT30AD/B-SFH10-80	10	24	33	80	42	M8×1.0	0.40	
	BT30AD/B-SFH12-80	12	24	33	80	47	M10×1.0	0.42	
	BT30AD/B-SFH16-80	16	27	36	80	50	M12×1.0	0.42	
	BT30AD/B-SFH20-90	20	33	44	90	52	M16×1.0	0.44	
40	BT40AD/B-SFH3-90	3	11	21	90	19	-	1.00	●
	BT40AD/B-SFH4-90	4	11	21	90	22	-	1.00	●
	BT40AD/B-SFH5-90	5	13	23	90	28	-	1.00	●
	BT40AD/B-SFH6-90	6	21	31	90	36	M5×0.8	1.10	●
	BT40AD/B-SFH6-160	6	21	31	160	36	M5×0.8	1.15	
	BT40AD/B-SFH8-90	8	21	31	90	36	M6×1.0	1.11	●
	BT40AD/B-SFH8-160	8	21	31	160	36	M6×1.0	1.15	
	BT40AD/B-SFH10-90	10	24	34	90	42	M8×1.0	1.10	●
	BT40AD/B-SFH10-160	10	24	34	160	42	M8×1.0	1.15	
	BT40AD/B-SFH12-90	12	24	34	90	47	M10×1.0	1.10	●
	BT40AD/B-SFH12-160	12	24	34	160	47	M10×1.0	1.15	
	BT40AD/B-SFH14-90	14	27	37	90	47	M10×1.0	1.20	
	BT40AD/B-SFH14-160	14	27	37	160	47	M10×1.0	1.50	
	BT40AD/B-SFH16-90	16	27	37	90	50	M12×1.0	1.20	●
	BT40AD/B-SFH16-160	16	27	37	160	50	M12×1.0	1.50	
	BT40AD/B-SFH18-90	18	33	43	90	50	M12×1.0	1.30	
	BT40AD/B-SFH18-160	18	33	43	160	50	M12×1.0	1.60	
	BT40AD/B-SFH20-90	20	33	43	90	52	M16×1.0	1.40	●
	BT40AD/B-SFH20-160	20	33	43	160	52	M16×1.0	1.70	
	BT40AD/B-SFH25-100	25	44	55	100	58	M16×1.0	1.70	●
	BT40AD/B-SFH25-160	25	44	57	160	58	M16×1.0	2.00	

SHRINK FIT HOLDER

SFH

JIS B6339 (MAS 403) - BT FORM AD/B

JIS B6339
- BTTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D)
≤3UmCoolant
System
AD/B

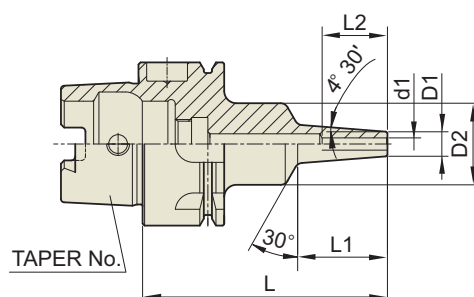
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
50	BT50AD/B-SFH3-100	3	11	21	100	19	-	1.50	
	BT50AD/B-SFH4-100	4	11	21	100	22	-	1.50	
	BT50AD/B-SFH5-100	5	13	23	100	28	-	1.50	
	BT50AD/B-SFH6-100	6	21	31	100	36	M5×0.8	1.50	
	BT50AD/B-SFH6-160	6	21	31	160	36	M5×0.8	2.00	
	BT50AD/B-SFH8-100	8	21	31	100	36	M6×1.0	1.50	
	BT50AD/B-SFH8-160	8	21	31	160	36	M6×1.0	2.00	
	BT50AD/B-SFH10-100	10	24	34	100	42	M8×1.0	1.50	
	BT50AD/B-SFH10-160	10	24	34	160	42	M8×1.0	2.00	
	BT50AD/B-SFH12-100	12	24	34	100	47	M10×1.0	1.50	
	BT50AD/B-SFH12-160	12	24	34	160	47	M10×1.0	2.00	
	BT50AD/B-SFH14-100	14	27	37	100	47	M10×1.0	1.60	
	BT50AD/B-SFH14-160	14	27	37	160	47	M10×1.0	2.10	
	BT50AD/B-SFH16-100	16	27	37	100	50	M12×1.0	1.60	
	BT50AD/B-SFH16-160	16	27	37	160	50	M12×1.0	2.10	
	BT50AD/B-SFH18-100	18	33	43	100	50	M12×1.0	1.60	
	BT50AD/B-SFH18-160	18	33	43	160	50	M12×1.0	2.00	
	BT50AD/B-SFH20-100	20	33	43	100	52	M16×1.0	1.80	
	BT50AD/B-SFH20-160	20	33	43	160	52	M16×1.0	2.20	
	BT50AD/B-SFH25-100	25	44	54	100	58	M16×1.0	2.00	
	BT50AD/B-SFH25-160	25	44	57	160	58	M16×1.0	2.40	

SHRINK FIT HOLDER

SFH

DIN69893 /ISO12164-1 HSK FORM A

Shrink Fit
Holder



DIN 69893
- HSK

Taper
Accuracy
AT3

G Value
2.5

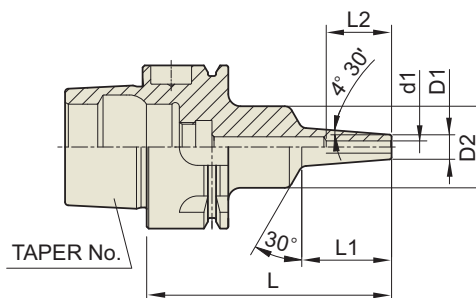
RPM
25,000

Run-Out
(I.D)
≤3Um

Coolant
System
AD

TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	중량(kg)	재고
40A	HSK40A-SFH3-60	3	11	17	60	22	16	0.30	●
	HSK40A-SFH3-80	3	11	17	80	42	16	0.40	
	HSK40A-SFH4-60	4	11	17	60	22	16.5	0.30	●
	HSK40A-SFH4-80	4	11	17	80	42	16.5	0.40	
	HSK40A-SFH5-60	5	13	19	60	22	17	0.30	●
	HSK40A-SFH5-80	5	13	19	80	42	17	0.40	
	HSK40A-SFH6-60	6	21	27	60	22	24	0.40	●
	HSK40A-SFH6-80	6	21	27	80	42	24	0.50	
	HSK40A-SFH8-70	8	21	27	70	22	25	0.40	●
	HSK40A-SFH8-90	8	21	27	90	42	25	0.50	
	HSK40A-SFH10-70	10	24	33	70	22	32	0.50	●
	HSK40A-SFH10-90	10	24	33	90	42	32	0.60	

DIN69893 /ISO12164-1 HSK FORM E

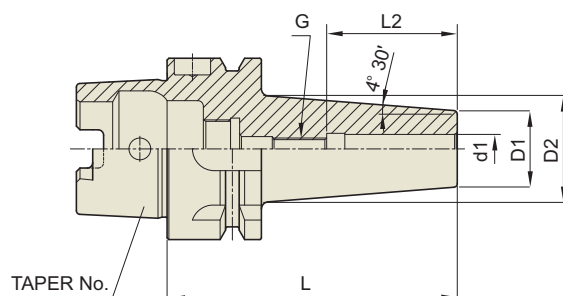


TAPER No.	MODEL No.	d1	D1	D2	L	L1	L2	중량(kg)	재고
40E	HSK40E-SFH3-50	3	11	17	50	22	16	0.30	●
	HSK40E-SFH3-70	3	11	17	70	42	16	0.40	
	HSK40E-SFH4-50	4	11	17	50	22	16.5	0.30	●
	HSK40E-SFH4-70	4	11	17	70	42	16.5	0.40	
	HSK40E-SFH5-50	5	13	19	50	22	17	0.30	●
	HSK40E-SFH5-70	5	13	19	70	42	17	0.40	
	HSK40E-SFH6-50	6	21	27	50	22	24	0.40	●
	HSK40E-SFH6-70	6	21	27	70	42	24	0.50	
	HSK40E-SFH8-60	8	21	27	60	22	25	0.40	●
	HSK40E-SFH8-80	8	21	27	80	42	25	0.50	
	HSK40E-SFH10-60	10	24	33	60	22	32	0.50	●
	HSK40E-SFH10-80	10	24	33	80	42	32	0.60	

SHRINK FIT HOLDER

SFH

DIN69893 /ISO12164-1 HSK FORM A

DIN 69893
- HSKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D)
≤3UmCoolant
System
AD

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
50A	HSK50A-SFH3-80	3	11	19.5	80	19	-	0.54	
	HSK50A-SFH4-80	4	11	19.5	80	22	-	0.55	
	HSK50A-SFH5-80	5	13	21.5	80	28	-	0.56	
	HSK50A-SFH6-80	6	21	29.5	80	36	M5×0.8	0.57	
	HSK50A-SFH8-80	8	21	29.5	80	36	M6×1.0	0.58	
	HSK50A-SFH10-85	10	24	33	85	42	M8×1.0	0.65	
	HSK50A-SFH12-90	12	24	34	90	47	M10×1.0	0.67	
	HSK50A-SFH14-90	14	27	37	90	47	M10×1.0	0.72	
	HSK50A-SFH16-95	16	27	38	95	50	M12×1.0	0.73	
	HSK50A-SFH18-95	18	33	44	95	50	M12×1.0	0.90	
	HSK50A-SFH20-100	20	33	45	100	52	M16×1.0	0.92	
63A	HSK63A-SFH3-80	3	11	19.5	80	19	-	0.70	
	HSK63A-SFH4-80	4	11	19.5	80	22	-	0.70	
	HSK63A-SFH5-80	5	13	21.5	80	28	-	0.70	
	HSK63A-SFH6-80	6	21	29.5	80	36	M5×0.8	0.83	
	HSK63A-SFH6-160	6	21	32	160	36	M5×0.8	1.00	
	HSK63A-SFH8-80	8	21	29.5	80	36	M6×1.0	0.83	
	HSK63A-SFH8-160	8	21	32	160	36	M6×1.0	0.00	
	HSK63A-SFH10-85	10	24	33	85	42	M8×1.0	0.83	
	HSK63A-SFH10-160	10	24	34	160	42	M8×1.0	0.00	
	HSK63A-SFH12-90	12	24	34	90	47	M10×1.0	0.83	
	HSK63A-SFH12-160	12	24	34	160	47	M10×1.0	0.00	
	HSK63A-SFH14-90	14	27	37	90	47	M10×1.0	0.91	
	HSK63A-SFH14-160	14	27	38	160	47	M10×1.0	1.30	
	HSK63A-SFH16-95	16	27	38	95	50	M12×1.0	0.98	
	HSK63A-SFH16-160	16	27	38	160	50	M12×1.0	1.40	
	HSK63A-SFH18-95	18	33	44	95	50	M12×1.0	0.98	
	HSK63A-SFH18-160	18	33	45	160	50	M12×1.0	1.40	
	HSK63A-SFH20-100	20	33	45	100	52	M16×1.0	1.00	
	HSK63A-SFH20-160	20	33	45	160	52	M16×1.0	1.40	
	HSK63A-SFH25-115	25	44	58	115	58	M16×1.0	1.40	
	HSK63A-SFH25-160	25	44	58	160	58	M16×1.0	1.80	

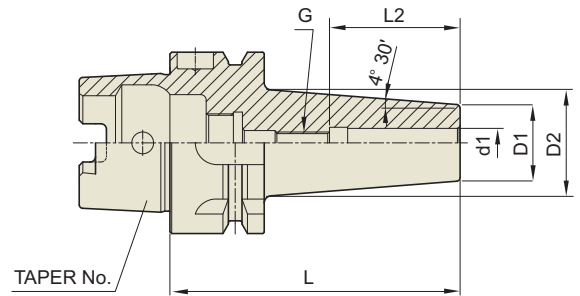
▶ 고발란싱급은 고객의 요청에 따라 G2.5/40,000rpm (G6.3/100,000rpm)으로도 제작 공급 가능합니다.

SHRINK FIT HOLDER

SFH

DIN69893 /ISO12164-1 HSK FORM A

Shrink Fit
Holder



DIN 69893
- HSK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(I.D)
≤3Um

Coolant
System
AD

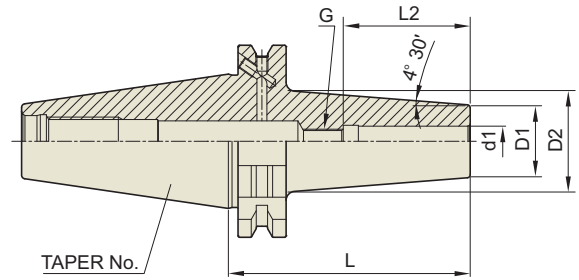
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
100A	HSK100A-SFH3-85	3	11	20	85	19	-	1.30	
	HSK100A-SFH4-85	4	11	20	85	22	-	1.30	
	HSK100A-SFH5-85	5	13	22	85	28	-	1.30	
	HSK100A-SFH6-85	6	21	30	85	36	M5×0.8	1.30	
	HSK100A-SFH6-160	6	21	32	160	36	M5×0.8	1.80	
	HSK100A-SFH8-85	8	21	30	85	36	M6×1.0	1.30	
	HSK100A-SFH8-160	8	21	32	160	36	M6×1.0	1.80	
	HSK100A-SFH10-90	10	24	34	90	42	M8×1.0	1.30	
	HSK100A-SFH10-160	10	24	35	160	42	M8×1.0	1.80	
	HSK100A-SFH12-95	12	24	34	95	47	M10×1.0	1.30	
	HSK100A-SFH12-160	12	24	35	160	47	M10×1.0	1.80	
	HSK100A-SFH14-95	14	27	37	95	47	M10×1.0	1.40	
	HSK100A-SFH14-160	14	27	39	160	47	M10×1.0	1.90	
	HSK100A-SFH16-100	16	27	38	100	50	M12×1.0	1.40	
	HSK100A-SFH16-160	16	27	39	160	50	M12×1.0	1.90	
	HSK100A-SFH18-100	18	33	44	100	50	M12×1.0	1.50	
	HSK100A-SFH18-160	18	33	45	160	50	M12×1.0	2.00	
	HSK100A-SFH20-100	20	33	44	100	52	M16×1.0	1.50	
	HSK100A-SFH20-160	20	33	45	160	52	M16×1.0	2.00	
	HSK100A-SFH25-115	25	44	53	115	58	M16×1.0	1.80	
	HSK100A-SFH25-160	25	44	53	160	58	M16×1.0	2.30	

▶ 고발란싱급은 고객의 요청에 따라 G2.5/40,000rpm (G6.3/100,000rpm)으로도 제작 공급 가능합니다.

SHRINK FIT HOLDER

SFH

DIN69871 - SK FORM AD/B

DIN 69871
- SKTaper
Accuracy
AT3G Value
2.5RPM
25,000Run-Out
(I.D)
≤3UμmCoolant
System
AD/B

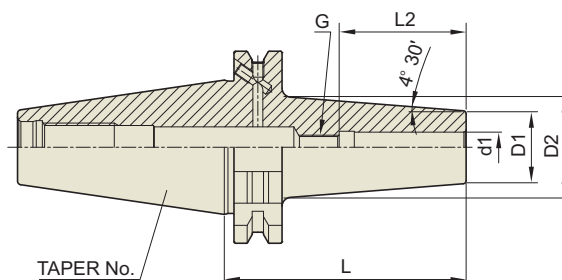
TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량[kg]	재고
30	SK30AD/B-SFH3-60	3	11	17	60	19	-	0.40	
	SK30AD/B-SFH4-60	4	11	17	60	22	-	0.40	
	SK30AD/B-SFH5-60	5	13	19	60	28	-	0.40	
	SK30AD/B-SFH6-60	6	21	27	60	36	M5×0.8	0.40	
	SK30AD/B-SFH8-60	8	21	27	60	36	M6×1.0	0.40	
	SK30AD/B-SFH10-80	10	24	34	80	42	M8×1.0	0.40	
	SK30AD/B-SFH12-80	12	24	34	80	47	M10×1.0	0.42	
	SK30AD/B-SFH16-80	16	27	37	80	50	M12×1.0	0.42	
	SK30AD/B-SFH20-90	20	33	44	90	52	M16×1.0	0.44	
40	SK40AD/B-SFH3-80	3	11	21	80	19	-	1.00	
	SK40AD/B-SFH4-80	4	11	21	80	22	-	1.00	
	SK40AD/B-SFH5-80	5	13	23	80	28	-	1.00	
	SK40AD/B-SFH6-80	6	21	31	80	36	M5×0.8	1.10	
	SK40AD/B-SFH6-160	6	21	32	160	36	M5×0.8	1.15	
	SK40AD/B-SFH8-80	8	21	31	80	36	M6×1.0	1.11	
	SK40AD/B-SFH8-160	8	21	32	160	36	M6×1.0	1.15	
	SK40AD/B-SFH10-80	10	24	34	80	42	M8×1.0	1.10	
	SK40AD/B-SFH10-160	10	24	34	160	42	M8×1.0	1.15	
	SK40AD/B-SFH12-80	12	24	34	80	47	M10×1.0	1.10	
	SK40AD/B-SFH12-160	12	24	34	160	47	M10×1.0	1.15	
	SK40AD/B-SFH14-80	14	27	37	80	47	M10×1.0	1.20	
	SK40AD/B-SFH14-160	14	27	36	160	47	M10×1.0	1.50	
	SK40AD/B-SFH16-80	16	27	37	80	50	M12×1.0	1.20	
	SK40AD/B-SFH16-160	16	27	36	160	50	M12×1.0	1.50	
	SK40AD/B-SFH18-80	18	33	43	80	50	M12×1.0	1.30	
	SK40AD/B-SFH18-160	18	33	44	160	50	M12×1.0	1.60	
	SK40AD/B-SFH20-80	20	33	43	80	52	M16×1.0	1.40	
	SK40AD/B-SFH20-160	20	33	44	160	52	M16×1.0	1.70	
	SK40AD/B-SFH25-90	25	44	55	90	58	M16×1.0	1.70	
	SK40AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2.00	

SHRINK FIT HOLDER

SFH

DIN69871 - SK FORM AD/B

Shrink Fit
Holder



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Run-Out
(I.D)
≤3Uμm

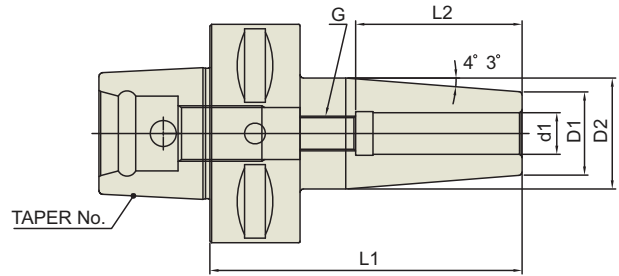
Coolant
System
AD/B

TAPER No.	MODEL No.	d1	D1	D2	L	L2	G	중량(kg)	재고
50	SK50AD/B-SFH3-80	3	11	21	80	14	-	1.50	
	SK50AD/B-SFH4-80	4	11	21	80	17	-	1.50	
	SK50AD/B-SFH5-80	5	13	23	80	23	-	1.50	
	SK50AD/B-SFH6-80	6	21	27	80	36	M5×0.8	1.50	
	SK50AD/B-SFH6-160	6	21	27	160	36	M5×0.8	2.00	
	SK50AD/B-SFH8-80	8	21	27	80	36	M6×1.0	1.50	
	SK50AD/B-SFH8-160	8	21	27	160	36	M6×1.0	2.00	
	SK50AD/B-SFH10-80	10	24	32	80	42	M8×1.0	1.50	
	SK50AD/B-SFH10-160	10	24	32	160	42	M8×1.0	2.00	
	SK50AD/B-SFH12-80	12	24	32	80	47	M10×1.0	1.50	
	SK50AD/B-SFH12-160	12	24	32	160	47	M10×1.0	2.00	
	SK50AD/B-SFH14-80	14	27	34	80	47	M10×1.0	1.60	
	SK50AD/B-SFH14-160	14	27	34	160	47	M10×1.0	2.10	
	SK50AD/B-SFH16-80	16	27	34	80	50	M12×1.0	1.60	
	SK50AD/B-SFH16-160	16	27	34	160	50	M12×1.0	2.10	
	SK50AD/B-SFH18-80	18	33	42	80	50	M12×1.0	1.60	
	SK50AD/B-SFH18-160	18	33	42	160	50	M12×1.0	2.00	
	SK50AD/B-SFH20-80	20	33	42	80	52	M16×1.0	1.80	
	SK50AD/B-SFH20-160	20	33	42	160	52	M16×1.0	2.20	
	SK50AD/B-SFH25-90	25	44	53	90	58	M16×1.0	2.00	
	SK50AD/B-SFH25-160	25	44	53	160	58	M16×1.0	2.40	

SHRINK FIT HOLDER **NEW**

SFH

ISO 26623-CAPTO(POLYGONAL SHANK)

ISO 26623
- CAPTOTaper
AccuracyG Value
6.3RPM
15,000Run-Out
(I.D)
≤3UμmCoolant
System
AD

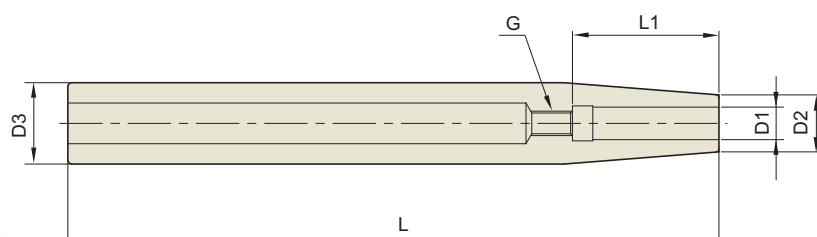
TAPER No.	Model No.	d1	D	D1	D2	L1	L2	G	중량(kg)	재고
PSG3	PSG3-SFH4-60	4	32	11	21	60	17	-		
	PSG3-SFH5-60	5	32	13	23	60	23	-		
	PSG3-SFH6-60	6	32	21	27	60	36	M5×0.8		
	PSG3-SFH8-60	8	32	21	27	60	36	M6×1.0		
	PSG3-SFH10-80	10	32	24	32	80	41	M8×1.0		
	PSG3-SFH12-80	12	32	24	32	80	47	M10×1.0		
PSG4	PSG4-SFH4-70	4	40	20	21	70	17	-		
	PSG4-SFH5-70	5	40	20	23	70	23	-		
	PSG4-SFH6-70	6	40	24	27	70	36	M5×0.8		
	PSG4-SFH8-70	8	40	24	27	70	36	M6×1.0		
	PSG4-SFH10-70	10	40	20	32	70	42	M8×1.0		
	PSG4-SFH12-70	12	40	27	32	70	47	M10×1.0		
	PSG4-SFH16-70	16	40	24	34	70	50	M12×1.0		
PSG5	PSG5-SFH5-80	5	40	20	23	80	23	-		
	PSG5-SFH6-80	6	40	24	27	80	36	M5×0.8		
	PSG5-SFH8-80	8	40	24	27	80	36	M6×1.0		
	PSG5-SFH10-85	10	40	20	32	85	42	M8×1.0		
	PSG5-SFH12-90	12	40	27	32	90	47	M10×1.0		
	PSG5-SFH16-95	16	40	24	34	95	50	M12×1.0		
PSG6	PSG6-SFH6-80	6	40	24	27	80	58	M5×0.8		
	PSG6-SFH8-80	8	40	24	27	80	58	M6×1.0		
	PSG6-SFH10-85	10	40	20	32	85	63	M8×1.0		
	PSG6-SFH12-90	12	40	27	32	90	63	M10×1.0		
	PSG6-SFH16-95	16	40	24	34	95	63	M12×1.0		
	PSG6-SFH20-100	20	40	33	42	100	73	M16×1.0		
PSG8	PSG8-SFH12-90	12	40	27	32	90	63	M10×1.0		
	PSG8-SFH16-95	16	40	24	34	95	63	M12×1.0		
	PSG8-SFH20-95	20	40	33	42	95	68	M16×1.0		
	PSG8-SFH25-100	25	40	33	42	100	73	M16×1.0		
	PSG8-SFH32-100	32	80	44	53	100	70	M16×1.0		

SHRINK FIT HOLDER (EXTENSION)

SFH

EXTENSION

Shrink Fit
Holder



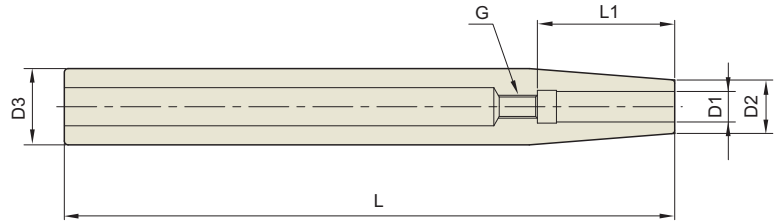
■ STANDARD

TAPER No.	MODEL No.	d1	D1	D2	L1	L	G	중량(kg)	재고
12	ST12-SFH3-120	12	3	8	19	120	-		●
	ST12-SFH4-120	12	4	8	22	120	-		●
	ST12-SFH5-120	12	5	10	28	120	-		●
	ST12-SFH6-120	12	6	10	36	120	M5×0.8		●
16	ST16-SFH3-120	16	3	10	19	120	-		●
	ST16-SFH4-120	16	4	10	22	120	-		●
	ST16-SFH5-120	16	5	10	28	120	-		●
	ST16-SFH6-120	16	6	10	36	120	M5×0.8		●
	ST16-SFH8-120	16	8	12	36	120	M6×1.0		●
20	ST20-SFH3-120	20	3	10	19	120	-		●
	ST20-SFH4-120	20	4	10	22	120	-		●
	ST20-SFH5-120	20	5	10	28	120	-		●
	ST20-SFH6-120	20	6	10	36	120	M5×0.8		●
	ST20-SFH8-120	20	8	12	36	120	M6×1.0		●
	ST20-SFH10-120	20	10	14	42	120	M8×1.0		●
	ST20-SFH12-120	20	12	16	47	120	M10×1.0		●

SHRINK FIT HOLDER

SFH

EXTENSION



EXT.

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

EXTENDED

TAPER No.	MODEL No.	D3	D1	D2	L1	L	G	중량(kg)	재고
12	ST12-SFH3-160	12	3	8	19	160	-		
	ST12-SFH4-160	12	4	8	22	160	-		
	ST12-SFH5-160	12	5	10	28	160	-		
	ST12-SFH6-160	12	6	10	36	160	M5×0.8		
16	ST16-SFH3-160	16	3	10	19	160	-		
	ST16-SFH4-160	16	4	10	22	160	-		
	ST16-SFH5-160	16	5	10	28	160	-		
	ST16-SFH6-160	16	6	10	36	160	M5×0.8		
	ST16-SFH8-160	16	8	12	36	160	M6×1.0		
20	ST20-SFH3-160	20	3	10	19	160	-		
	ST20-SFH4-160	20	4	10	22	160	-		
	ST20-SFH5-160	20	5	10	28	160	-		
	ST20-SFH6-160	20	6	10	36	160	M5×0.8		
	ST20-SFH8-160	20	8	12	36	160	M6×1.0		
	ST20-SFH10-160	20	10	14	42	160	M8×1.0		
	ST20-SFH12-160	20	12	16	47	160	M10×1.0		
25	ST25-SFH3-160	25	3	10	19	160	-		
	ST25-SFH4-160	25	4	10	22	160	-		
	ST25-SFH5-160	25	5	15	28	160	-		
	ST25-SFH6-160	25	6	20	36	160	M5×0.8		
	ST25-SFH8-160	25	8	20	36	160	M6×1.0		
	ST25-SFH10-160	25	10	20	42	160	M8×1.0		
	ST25-SFH12-160	25	12	20	47	160	M10×1.0		
	ST25-SFH14-160	25	14	20	47	160	M10×1.0		
	ST25-SFH16-160	25	16	22	50	160	M12×1.0		
32	ST32-SFH6-160	32	6	20	36	160	M5×0.8		
	ST32-SFH8-160	32	8	20	36	160	M6×1.0		
	ST32-SFH10-160	32	10	24	42	160	M8×1.0		
	ST32-SFH12-160	32	12	24	47	160	M10×1.0		
	ST32-SFH14-160	32	14	27	47	160	M10×1.0		
	ST32-SFH16-160	32	16	27	50	160	M12×1.0		
	ST32-SFH18-160	32	18	27	50	160	M12×1.0		
	ST32-SFH20-160	32	20	27	52	160	M16×1.0		

MILLING CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

DIN228 - MT

BRIDGEPORT - R8

MILLING CHUCK SET

ACCESSORY

JIS B6339(MAS403)-BT

- 고속밀링척 (2면구속형/일반형)
- STANDARD TYPE

DIN69893/ISO12164-1 HSK

- 고속형 / 일반형

DIN69871-SK

- 고속형 / 일반형

DIN228 - MT

- MTA / MTB

BRIDGEPORT - R8

MILLING CHUCK SET

- NT / BT / QT / MT / R8

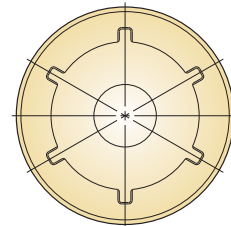
ACCESSORY

- E/M COLLET (K / CK / MT / JT)
- SPANNER

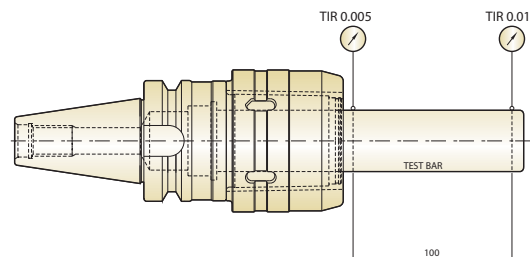
MILLING CHUCK (밀링척)



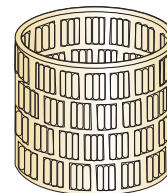
- 밀링척 내부에 SLOT를 넣어 충분한 BODY의 강성을 보강하였으며 절삭시에는 밀링척의 변형이 없고 END MILL CLAMPING POWER 극대화를 통한 쾌적한 절삭을 할 수 있습니다.
- 파악부의 충분한 두께-떨림을 방지하고 내구성을 보장합니다.
- 밀링척 BODY 내부에 ORING를 삽입, CAP과 BODY가 바로 접촉되는 것을 방지하여 밀링척의 수명을 연장합니다.



- 파악부의 높은 진원도, 사상면의 진도, 강성등으로 고정밀도 실현합니다.
(진원도 2 이내, 조도 RZ B1.0 ~ 1.50이내 - SWISS REGO-FIX 검사치)
- NOSE부에서 100mm 선단부의 흔들림(T/R)0.010이내를 유지



- NEEDLE ROLLER는 타사제품보다 160%의 많은 양의 BEARING을 사용함으로써 CHUCKING시 강력한 하중이 작용하여도 NEEDLE ROLLER 구름 이송면에 면압을 분산시켜 강력한 체결력과 내구성이 우수함



- 신세기의 밀링척은 내구성을 향상 시키기위해 다음과 같은 공정을 거칩니다.
 - 재질 조성의 안정화 및 내부 응력 제거를 위한 "노말라이징(소준)"처리
 - 장시간 사용후 변형의 사전 제거를 위한 "Sub-Zero" 라 불리는 초저온 (-90)처리

고속 가공 밀링척 (High Speed Milling Chuck)

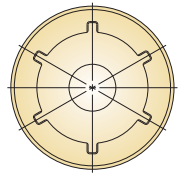
- 강력한 파지력으로 고속 중절삭 및 정삭 가공시 최적의 절삭 실현
- 내경 입구부 3mm 선단까지 완벽한 Clamping
- 안정적인 Nut 조임, 풀림 Torque로 공구 교환 및 Setting 시 안정감 실현

Balancing Grade

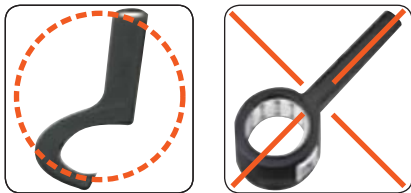
- G6,3/20,000rpm
- => 고속 중절삭 및 정삭 가공시 최적의 절삭효과

밀링척 내부의 Slot design

- Body 강성 보강
- 절삭시 변형 방지
- 파지력 극대화
- 떨림 방지 및 내구성 보장



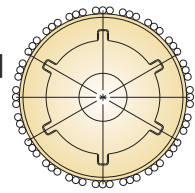
경제적인 Spanner 사용



- 고가의 Ratchet (라체트) 스패너 필요 없음
- => 일반 범용 스패너 사용

다량의 Needle bearing

- Clamping 시 강력한 하중 Needle bearing의 구름 이송면 통한 면압 분산
- Closed type Retainer로 Clamping, Un clamping 시 정압 분산



O Ring

- Nut 와 Body 부 접촉 방지
- => 밀링척 수명 연장
- Body부 및 Nut 부 이물질 침입 방지

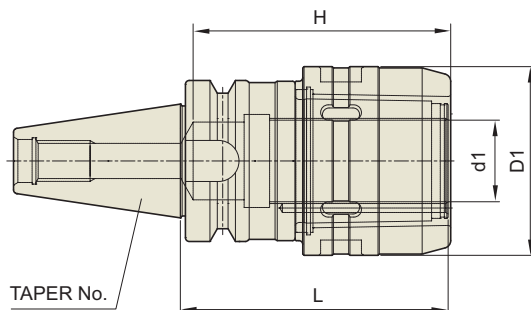
강력한 파지력

Milling chuck (ID)	Standard	Tolerance (Taper shank)	Run-out (3D)	Clamping torque
C20	AT3	ISO30 (0~+0.002) ISO40 (0~+0.003) ISO50 (0~+0.004)	0 ~ 0.01	980Nm
C25				1,760Nm
C32				3,430Nm
C42				4,900Nm

HIGH SPEED MILLING CHUCK **NEW**

JIS B6339 (MAS 403) - BT

Milling
Chuck



CBT

Taper
Accuracy
AT3

G Value
6.3

RPM
20,000

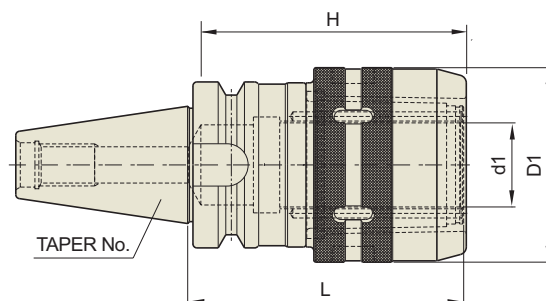
Coolant
System

CBT (BT 2면 구속용)

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
30	CBT30-C20-75HS	20	54	75	70	1.50	
	CBT30-C25-80HS	25	62.5	80	80	2.00	
40	CBT40-C20-80HS	20	54	80	70	2.00	
	CBT40-C20-105HS	20	54	105	70	2.10	
	CBT40-C25-105HS	25	62.5	105	80	2.50	
	CBT40-C32-90HS	32	74	90	100	3.00	
	CBT40-C32-105HS	32	74	105	100	3.10	
	CBT40-C32-135HS	32	74	135	100	3.30	
50	CBT50-C20-105HS	20	54	105	70	4.50	
	CBT50-C20-135HS	20	54	135	70	4.90	
	CBT50-C20-165HS	20	54	165	70	5.40	
	CBT50-C25-105HS	25	62.5	105	80	5.20	
	CBT50-C25-135HS	25	62.5	135	80	5.80	
	CBT50-C25-165HS	25	62.5	165	80	6.20	
	CBT50-C32-105HS	32	74	105	100	6.00	
	CBT50-C32-135HS	32	74	135	100	6.70	
	CBT50-C32-165HS	32	74	165	100	7.40	
	CBT50-C42-115HS	42	92	115	110	6.70	
	CBT50-C42-135HS	42	92	135	110	7.60	
	CBT50-C42-165HS	42	92	165	110	8.30	

MILLING CHUCK

JIS B6339 (MAS 403) - BT



Milling
Chuck

CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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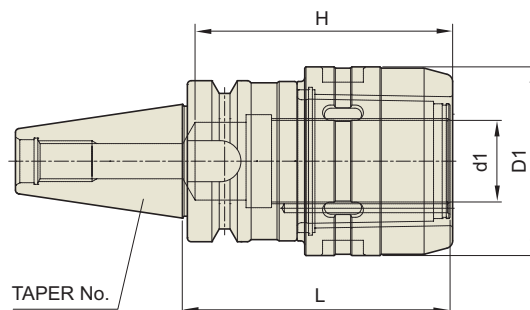
CBT (BT 2면 구속용)

TAPER No.	MODEL No.	d1	D1	L	H	Applicable collet	중량(kg)	재고
30	CBT30-C20-75	20	54	75	70	K20, CK20	1.5	●
	CBT30-C25-80	25	62.5	80	80	K25, CK25	2.0	
40	CBT40-C20-80	20	54	80	70	K20, CK20	2.0	●
	CBT40-C20-105	20	54	105	70	K20, CK20	2.1	
	CBT40-C25-105	25	62.5	105	80	K25, CK25	2.5	
	CBT40-C32-90	32	72	90	100	K32, CK32	3	●
	CBT40-C32-105	32	72	105	100	K32, CK32	3.1	●
	CBT40-C32-135	32	72	135	100	K32, CK32	3.3	
50	CBT50-C20-105	20	54	105	70	K20, CK20	4.5	●
	CBT50-C20-135	20	54	135	70	K20, CK20	4.9	
	CBT50-C20-165	20	54	165	70	K20, CK20	5.4	
	CBT50-C25-105	25	62.5	105	80	K25, CK25	5.2	
	CBT50-C25-135	25	62.5	135	80	K25, CK25	5.8	
	CBT50-C25-165	25	62.5	165	80	K25, CK25	6.2	
	CBT50-C32-105	32	72	105	100	K32, CK32	6	●
	CBT50-C32-115	32	72	115	100	K32, CK32	6.2	
	CBT50-C32-135	32	72	135	100	K32, CK32	6.7	●
	CBT50-C32-165	32	72	165	100	K32, CK32	7.4	
	CBT50-C42-115	42	92	115	110	K42, CK42	6.7	●
	CBT50-C42-135	42	92	135	110	K42, CK42	7.6	●
	CBT50-C42-165	42	92	165	110	K42, CK42	8.3	

HIGH SPEED MILLING CHUCK (고속밀링척)

JIS B6339 (MAS 403) - BT FORM AD

Milling
Chuck



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

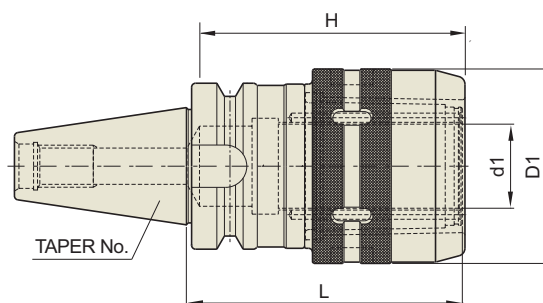
RPM
20,000

Coolant
System
AD

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
30	BT30-C20-75HS	20	54	75	70	1.50	●
	BT30-C25-80HS	25	62.5	80	80	2.00	●
40	BT40-C20-80HS	20	54	80	70	2.00	●
	BT40-C20-105HS	20	54	105	70	2.10	
	BT40-C25-90HS	25	62.5	90	80	2.40	
	BT40-C25-105HS	25	62.5	105	80	2.50	
	BT40-C32-90HS	32	74	90	100	3.00	●
	BT40-C32-105HS	32	74	105	100	3.10	●
	BT40-C32-135HS	32	74	135	100	3.30	
50	BT50-C20-105HS	20	54	105	70	4.50	●
	BT50-C20-135HS	20	54	135	70	4.90	
	BT50-C20-165HS	20	54	165	70	5.40	
	BT50-C25-105HS	25	62.5	105	80	5.20	
	BT50-C25-135HS	25	62.5	135	80	5.80	
	BT50-C25-165HS	25	62.5	165	80	6.20	
	BT50-C32-105HS	32	74	105	100	6.00	●
	BT50-C32-135HS	32	74	135	100	6.70	●
	BT50-C32-165HS	32	74	165	100	7.40	
	BT50-C42-115HS	42	92	115	110	6.70	●
	BT50-C42-135HS	42	92	135	110	7.60	●
	BT50-C42-165HS	42	92	165	110	8.30	

MILLING CHUCK

JIS B6339 (MAS 403) - BT



Milling
Chuck

JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

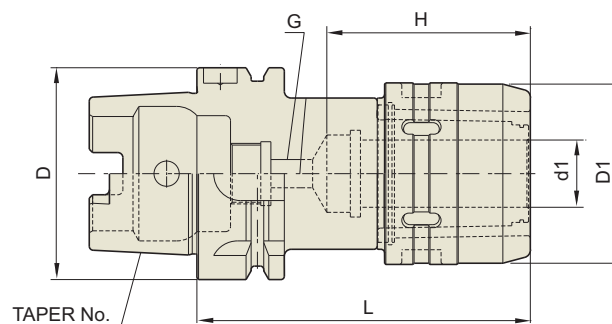
Coolant
System
AD

TAPER No.	MODEL No.	d1	D1	L	H	적용 COLLET	중량(kg)	재고
30	BT30-C20- 75	20	54	75	70	K20, CK20	1.5	●
	BT30-C25- 80	25	62.5	80	80	K25, CK25	2.0	●
40	BT40-C20- 80	20	54	80	70	K20, CK20	2.0	●
	BT40-C20-105	20	54	105	70	K20, CK20	2.1	●
	BT40-C25-90	25	62.5	90	80	K25, CK25	2.4	
	BT40-C25-105	25	62.5	105	80	K25, CK25	2.5	
	BT40-C32- 90	32	72	90	100	K32, CK32	3	●
	BT40-C32-105	32	72	105	100	K32, CK32	3.1	●
	BT40-C32-135	32	72	135	100	K32, CK32	3.3	
50	BT50-C20-105	20	54	105	70	K20, CK20	4.5	●
	BT50-C20-135	20	54	135	70	K20, CK20	4.9	
	BT50-C20-165	20	54	165	70	K20, CK20	5.4	●
	BT50-C25-105	25	62.5	105	80	K25, CK25	5.2	
	BT50-C25-135	25	62.5	135	80	K25, CK25	5.8	
	BT50-C25-165	25	62.5	165	80	K25, CK25	6.2	
	BT50-C32-105	32	72	105	100	K32, CK32	6	●
	BT50-C32-115	32	72	115	100	K32, CK32	6.2	
	BT50-C32-135	32	72	135	100	K32, CK32	6.7	●
	BT50-C32-165	32	72	165	100	K32, CK32	7.4	●
	BT50-C42-115	42	92	115	110	K42, CK42	6.7	●
	BT50-C42-135	42	92	135	110	K42, CK42	7.6	●
	BT50-C42-165	42	92	165	110	K42, CK42	8.3	

HIGH SPEED MILLING CHUCK (고속밀링척)

DIN69893 /ISO12164-1 HSK

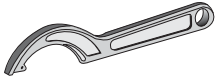
Milling
Chuck



DIN 69893 - HSK	Taper Accuracy AT3	G Value 6.3	RPM 20,000	Coolant System AD
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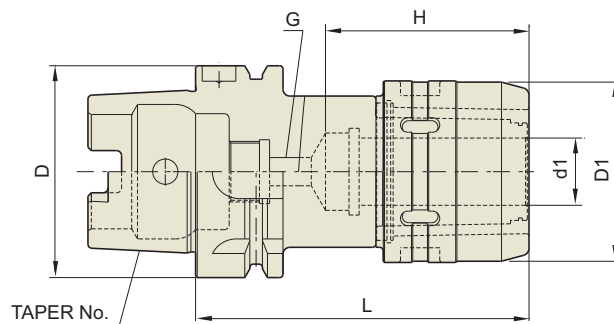
TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
50A	HSK50A-C20-100HS	20	54	100	70	1.30	
63A	HSK63A-C20-105HS	20	54	105	70	1.50	●
	HSK63A-C25-120HS	25	62.5	120	80	2.20	
	HSK63A-C32-130HS	32	74	130	100	2.70	●
100A	HSK100A-C20-110HS	20	54	110	70	3.50	
	HSK100A-C25-130HS	25	62.5	130	80	3.80	
	HSK100A-C32-135HS	32	74	135	100	4.20	
	HSK100A-C42-135HS	42	74	135	100	5.30	

SPARE PARTS

END MILL COLLET	MODEL No.	SET
	K20 - 6, 8, 10, 12, 16	5PCS
	K25 - 6, 8, 10, 12, 16, 20	6PCS
	K32 - 6, 8, 10, 12, 16, 20, 25	7PCS
	K42 - 6, 8, 10, 12, 16, 20, 25, 32	8PCS
END MILL COLLET	MODEL No.	SET
	CK20 - 6, 8, 10, 12, 16	5PCS
	CK25 - 6, 8, 10, 12, 16, 20	6PCS
	CK32 - 6, 8, 10, 12, 16, 20, 25	7PCS
	CK42 - 6, 8, 10, 12, 16, 20, 25, 32	8PCS
SPANNER	MODEL No.	
	C20 SP	
	C25 SP	
	C32 SP	
	C42 SP	

MILLING CHUCK

DIN 69893/ISO 12164-1 HSK



Milling
Chuck

DIN69893
- HSK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System
AD

TAPER No.	MODEL No.	D	d1	D1	L	H	G	중량(kg)	재고
50A	HSK 50A-C20-100	50	20	54	100	70	M12	1.30	
63A	HSK 63A-C20-105	63	20	54	105	70	M12	1.50	●
	HSK 63A-C25-120	63	25	62.5	120	80	M12	2.20	
	HSK 63A-C32-130	63	32	72	130	100	M12	2.70	●
100A	HSK100A-C20-110	100	20	54	110	70	M12	3.50	
	HSK100A-C32-135	100	32	72	135	100	M12	4.20	
	HSK100A-C42-135	100	42	92	135	100	M12	5.30	

SPARE PARTS

END MILL COLLET	MODEL No.	SET
	K20 - 6, 8, 10, 12, 16	5PCS
	K32 - 6, 8, 10, 12, 16, 20, 25	7PCS
	K42 - 6, 8, 10, 12, 16, 20, 25, 32	8PCS

▶ SPECIAL SIZE Ø3, Ø4, Ø5 제작가능

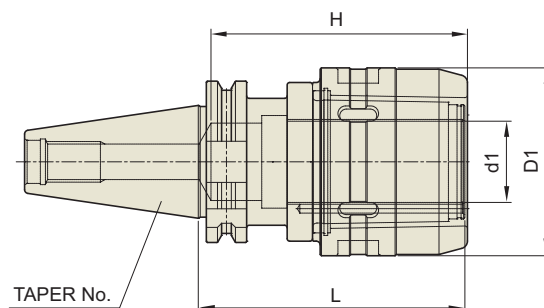
END MILL COLLET	MODEL No.	SET
	CK20 - 6, 8, 10, 12, 16	5PCS
	CK25 - 6, 8, 10, 12, 16, 20	6PCS
	CK32 - 6, 8, 10, 12, 16, 20, 25	7PCS
	CK42 - 6, 8, 10, 12, 16, 20, 25, 32	8PCS

SPANNER	MODEL No.
	C20 SP
	C25 SP
	C32 SP
	C42 SP

HIGH SPEED MILLING CHUCK (고속밀링척)

DIN 69871-SK FORM AD

Milling
Chuck



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

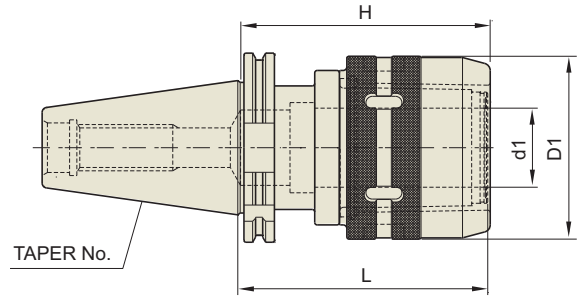
RPM
20,000

Coolant
System
AD

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
30	SK30-C20-80HS	20	54	80	70	1.15	
	SK30-C25-80HS	25	62.5	80	80	1.48	
40	SK40-C20-105HS	20	54	105	70	1.77	
	SK40-C25-105HS	25	62.5	105	80	2.10	
	SK40-C32-105HS	32	74	105	100	2.40	
	SK40-C32-135HS	32	74	135	100	3.10	
50	SK50-C20-105HS	20	54	105	70	3.40	
	SK50-C25-105HS	25	62.5	105	80	3.80	
	SK50-C32-105HS	32	74	105	100	4.30	
	SK50-C32-135HS	32	74	135	100	4.90	
	SK50-C32-165HS	32	74	165	100	5.60	
	SK50-C42-115HS	42	92	115	110	4.60	
	SK50-C42-135HS	42	92	135	110	5.60	
	SK50-C42-165HS	42	92	165	110	6.10	

MILLING CHUCK

DIN 69871-SK FORM AD



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System
AD

Milling
Chuck

■ STUB

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
30	SK30-C20-80	20	54	80	70	1.15	
	SK30-C25-80	25	62.5	80	80	1.48	
40	SK40-C20-90	20	54	90	70	1.60	
	SK40-C32-90	32	72	90	100	2.00	
50	SK50-C20-80	20	54	80	70	3.22	
	SK50-C25-90	25	62.5	90	80	3.61	
	SK50-C32-90	32	72	90	100	3.87	

■ STANDARD

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
40	SK40-C20-105	20	54	105	70	1.77	
	SK40-C25-105	25	62.5	105	80	2.01	
	SK40-C32-105	32	72	105	100	2.42	
50	SK50-C20-105	20	54	105	70	3.39	
	SK50-C25-105	25	62.5	105	80	3.78	
	SK50-C32-105	32	72	105	100	4.31	
	SK50-C42-115	42	92	115	110	4.53	

■ EXTENDED

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
40	SK40-C32-135	32	72	135	100	3.11	
50	SK50-C32-135	32	72	135	100	4.94	
	SK50-C42-135	42	92	135	110	5.62	

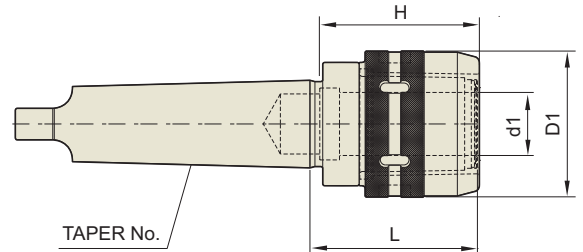
■ EXTRA EXTENDED

TAPER No.	MODEL No.	d1	D1	L	H	중량(kg)	재고
50	SK50-C32-165	32	72	165	100	5.59	
	SK50-C42-165	42	92	165	110	6.10	

MILLING CHUCK

DIN 228 - MTA

Milling
Chuck

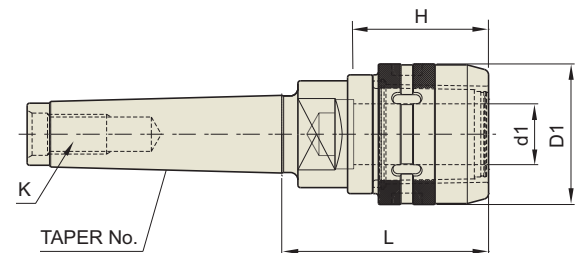


DIN 228 - MTA	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	d1	D1	L	H	적용 COLLET	중량(kg)	재고
MT4	MTA4-C32	32	72	98	100	K32, CK32	2.57	
MT5	MTA5-C32	32	72	85	100	K32, CK32	3.06	
	MTA5-C42	42	92	114	110	K42, CK42	3.45	
MT6	MTA6-C42	42	92	99	110	K42, CK42	4.14	●

▶ MT6 TYPE은 CUTTER HOME 선정을 위한 기계 Model 및 회사명을 알려주십시오.

DIN 228 - MTB

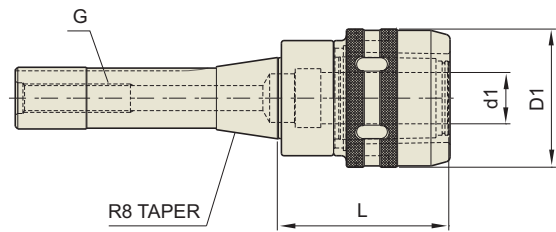


DIN 228 - MTB	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	d1	D1	L	H	K	적용 COLLET	중량(kg)	재고
MT3	MTB3-C20	20	54	74	70	M12	K20, CK20	2.10	●
MT4	MTB4-C32	32	72	98	100	M16	K32, CK32 K32,	2.57	
	MTB5-C32	32	72	85	100	M20	CK32 K42,	3.06	●
MT5	MTB5-C42	42	92	114	110	M20	CK42	3.45	

MILLING CHUCK

BRIDGEPORT-R8



Milling
Chuck

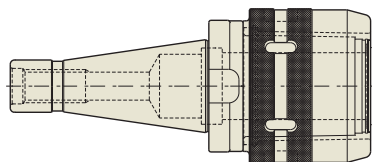
R8	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	d1	D1	L	G	적용 COLLET	중량(kg)	재고
R8	R8-C20	20	54	69	U7/16-20	K20, CK20	1.40	●
R8	R8-C32	32	72	85	U7/16-20	K32, CK32	2.3	●

MILLING CHUCK STANDARD SET

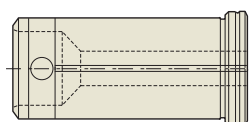


MACHINE SPINDLE TAPER	STANDARD SET MODEL No.	MILLING CHUCK	END MILL COLLET	MORSE TAPER COLLET	DRILL CHUCK BAR
R8	SR8-C20	R8-C20	K20-[6-16][5PCS]	K20-MT1,2	K20-JTA6
NT30	SNT30-20	NT30-C20	K20-[6-16][5PCS]	K20-MT1,2	K20-JTA6
NT40	SNT40-32A	NT40-C32	K32-[6-25][7PCS]	-	-
	SNT40-32	NT40-C32	K32-[6-25][7PCS]	K32-MT1,2,3	K32-JTA6
NT50	SNT50-32A	NT50-C32	K32-[6-25][7PCS]	-	K32-JTA6
	SNT50-32	NT50-C32	K32-[6-25][7PCS]	K32-MT1,2,3	K32-JTA6
	SNT50-42A	NT50-C42	K42-[6-32][8PCS]	-	-
	SNT50-42	NT50-C42	K42-[6-32][8PCS]	K42-MT1,2,3,4	K42-JTA6



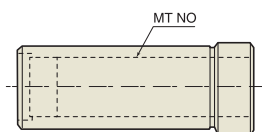
MILLING CHUCK

MODEL No.
NT30 - C20
NT40 - C32
NT50 - C32
NT50 - C42



END MILL COLLET

MODEL No.	SET
K20 - 6, 8, 10, 12, 16	5PCS
K25 - 6, 8, 10, 12, 16, 20	6PCS
K32 - 6, 8, 10, 12, 16, 20, 25	7PCS
K42 - 6, 8, 10, 12, 16, 20, 25, 32	8PCS



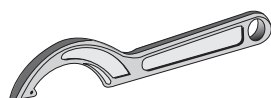
MT COLLET

MODEL No.
K20 - MT1, 2
K25 - MT1, 2, 3
K32 - MT1, 2, 3
K42 - MT1, 2, 3, 4



DRILL CHUCK ARBOR

MODEL No.
K20 - JTA6
K25 - JTA6
K32 - JTA6
K42 - JTA6



SPANNER

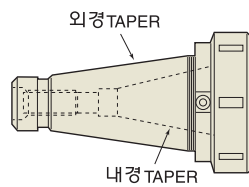
MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

Q.C MILLING CHUCK SET



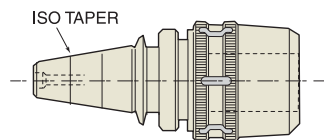
Milling
Chuck

MACHINE SPINDLE TAPER	Q.C MILLING HOLDER SET CODE. NO	Q.C MASTER HOLDER	Q.C MILLING CHUCK	END MILL COLLETS	Q.C FACE MILL ARBOR	Q.C DRILL CHUCK BAR	DRILL CHUCK ARBOR	Q.C TAPER SLEEVE
NT40	SMH40-T35-32 A	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	-	K32-J6	-
	SMH40-T35-32 B	MH40-T35	QT35-32	K32-(6-25)(7PCS)	QT35-4R	QT35-J6	-	QT35-MT2,3,4
NT50	SMH50-T45-32 A	MH50-T45	QT45-32	K32-(6-25)(7PCS)	QT45-5R	-	K32-J6	-
	SMH50-T45-32 B	MH50-T45	QT45-32	K32-(6-25)(7PCS)	QT45-5R	QT45-J6	-	QT45-MT2,3,4
	SMH50-T45-42 A	MH50-T45	QT45-42	K42-(6-32)(8PCS)	QT45-5R	-	K42-J6	-
	SMH50-T45-42 B	MH50-T45	QT45-42	K42-(6-32)(8PCS)	QT45-5R	QT45-J6	-	QT45-MT2,3,4



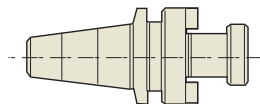
Q.C MASTER HOLDER

MODEL No.	외경 TAPER	내경 TAPER	DRAW THREADS
MH40-T35	NT40	NT35	U5/8-11(M16-2)
MH50-T45	NT50	NT45	U1-8(M24-3)



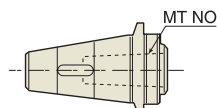
Q.C MILLING CHUCK

Q.C MASTER HOLDER	MODEL No.
MH40	QT35-C32
MH50	QT45-C32
MH50	QT45-C42



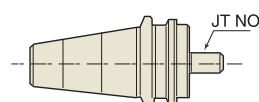
Q.C FACE MILL ARBOR

Q.C MASTER HOLDER	MODEL No.
MH40	QT35-3,4,5R
MH50	QT45-3,4,5,6R



Q.C TAPER SLEEVE

Q.C MASTER HOLDER	MODEL No.
MH40	QT35 - MT1, 2, 3
MH50	QT45 - MT1, 2, 3, 4



Q.C DRILL CHUCK ARBOR

Q.C MASTER HOLDER	MODEL No.	DRILL Ø
MH40	QT35-J6	1-13mm
MH50	QT45-J6	1-13mm

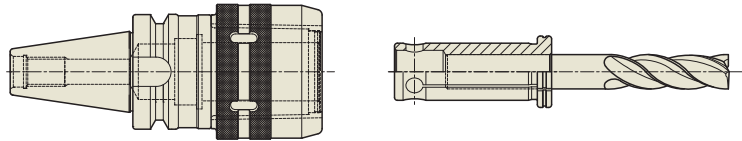
INSERTING TOOLS FOR MILLING CHUCK

Milling
Chuck



END MILL COLLET (STANDARD)

MODEL No.	SET
K20-6,8,10,12,16	5pcs
K25-6,8,10,12,16,20	6pcs
K32-6,8,10,12,16,20,25	7pcs
K42-6,8,10,12,16,20,25,32	8pcs



END MILL COLLET (CK TYPE)

MODEL No.	SET
CK20-6,8,10,12,16	5pcs
CK25-6,8,10,12,16,20	6pcs
CK32-6,8,10,12,16,20,25	7pcs
CK42-6,8,10,12,16,20,25,32	8pcs



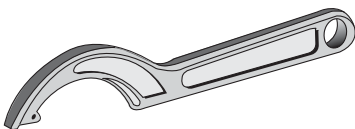
MT COLLET

MODEL No.
K20-MT1,2
K25-MT1,2
K32-MT1,2,3
K42-MT1,2,3,4



DRILL CHUCK ARBOR

MODEL No.
K20-JTA6
K25-JTA6
K32-JTA6
K42-JTA6



SPANNER

MODEL No.
C20 SP
C25 SP
C32 SP
C42 SP

- Stock Control Item
- CAT(ANSI B5.50) taper and Inch type products area available.



SK SLIM CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

STRAIGHT - K

SPAREPARTS

JIS B6339(MAS403)-BT

• 2면 구속용 / 일반형

DIN69893/ISO12164-1 HSK

• FORM A /FORM E

STRAIGHT - K

SPAREPARTS

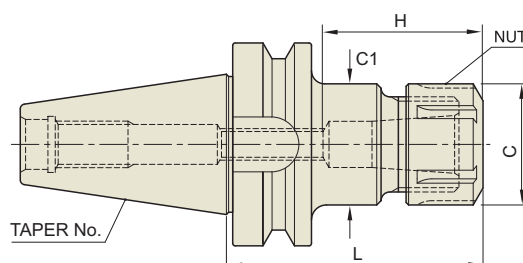
• SK COLLET / SK NUT

SK SLIM CHUCK **NEW**

SKA

JIS B6339 (MAS 403) BT

SK Slim
Chuck



CBT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD

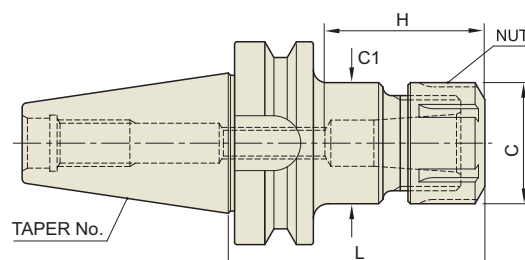
CBT (BT 2번 구속용)

TAPER No.	MODEL No.	CLAMPING RANGE	L	C	C1	H		COLLET	중량(kg)	재고
						Min	Max			
30	CBT30-SKA06-60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	
	CBT30-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	
	CBT30-SKA10-60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	
	CBT30-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1	
	CBT30-SKA13-60	2.75-13.0	60	33	33	31	65	SKC13	1	
	CBT30-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	CBT30-SKA16-60	2.75-16.0	60	40	40	45	60	SKC16	1.1	
	CBT30-SKA16-90	2.75-16.0	90	40	40	45	60	SKC16	1.2	
	CBT30-SKA20-60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	CBT30-SKA20-90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
	CBT30-SKA25-90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
40	CBT40-SKA06-90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	
	CBT40-SKA06-120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	
	CBT40-SKA06-150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	CBT40-SKA10-90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	
	CBT40-SKA10-120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	
	CBT40-SKA10-150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	CBT40-SKA13-90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	CBT40-SKA13-120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	CBT40-SKA13-150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	CBT40-SKA16-90	2.75-16.0	90	40	40	45	70	SKC16	1.5	
	CBT40-SKA16-120	2.75-16.0	120	40	40	45	70	SKC16	1.7	
	CBT40-SKA16-150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	CBT40-SKA20-90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	CBT40-SKA20-120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	CBT40-SKA20-150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	CBT40-SKA25-90	16.0-25.4	90	55	55	55	85	SKC25	1.8	
	CBT40-SKA25-120	16.0-25.4	120	55	55	55	85	SKC25	2	
	CBT40-SKA25-150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

SK SLIM CHUCK **NEW**

SKA

JIS B6339 (MAS 403) BT



SK Slim
Chuck

CBT

Taper
Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant
System
AD

CBT (BT 2면 구속용)

Unit : mm

TAPER No.	MODEL No.	RANGE	L	C	C1	H		COLLET	중량(kg)	재고
						Min	Max			
50	BT50 - SKA06 - 105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	
	BT50 - SKA06 - 135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	
	BT50 - SKA06 - 165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	BT50 - SKA06 - 195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	BT50 - SKA10 - 105	1.75-10.0	105	28	27.5	30	50	SKC10	4.2	
	BT50 - SKA10 - 135	1.75-10.0	135	28	27.5	30	50	SKC10	4.4	
	BT50 - SKA10 - 165	1.75-10.0	165	28	37.4	30	50	SKC10	4.6	
	BT50 - SKA10 - 195	1.75-10.0	195	28	37.4	30	50	SKC10	4.8	
	BT50 - SKA13 - 105	2.75-13.0	105	33	33	31	65	SKC13	4.5	
	BT50 - SKA13 - 135	2.75-13.0	135	33	33	31	65	SKC13	4.7	
	BT50 - SKA13 - 165	2.75-13.0	165	33	45	31	65	SKC13	4.9	
	BT50 - SKA13 - 195	2.75-13.0	195	33	45	31	65	SKC13	5.2	
	BT50 - SKA16 - 105	2.75-16.0	105	40	40	45	70	SKC16	4.7	
	BT50 - SKA16 - 135	2.75-16.0	135	40	40	45	70	SKC16	4.9	
	BT50 - SKA16 - 165	2.75-16.0	165	40	40	45	70	SKC16	5.1	
	BT50 - SKA16 - 195	2.75-16.0	195	40	40	45	70	SKC16	5.5	
	BT50 - SKA20 - 105	4.0-20.0	105	48.5	48.5	47	80	SKC20	4.3	
	BT50 - SKA20 - 135	4.0-20.0	135	48.5	48.5	47	80	SKC20	4.6	
	BT50 - SKA20 - 165	4.0-20.0	165	48.5	48.5	47	80	SKC20	5	
	BT50 - SKA20 - 195	4.0-20.0	195	48.5	48.5	47	80	SKC20	5.4	
	BT50 - SKA25 - 105	16.0-25.4	105	55	55	55	85	SKC25	5.2	
	BT50 - SKA25 - 135	16.0-25.4	135	55	55	55	85	SKC25	5.4	
	BT50 - SKA25 - 165	16.0-25.4	165	55	55	55	85	SKC25	5.6	
	BT50 - SKA25 - 195	16.0-25.4	195	55	55	55	85	SKC25	6	

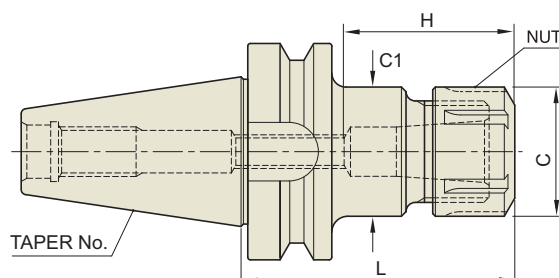
SK SLIM CHUCK

SKA

- ◇ 최고의 정밀도 구현
- ◇ E/M, DRILL, REAMER, TAP 등 다양한 공구에 적용 가능

- ◇ SWISS 제조사의 NUT사용으로 장시간 사용가능
- ◇ SLIM TYPE으로 깊은 형상 가공시 최대효과창출

SK Slim
Chuck



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

JIS B6339 (MAS 403) - BT

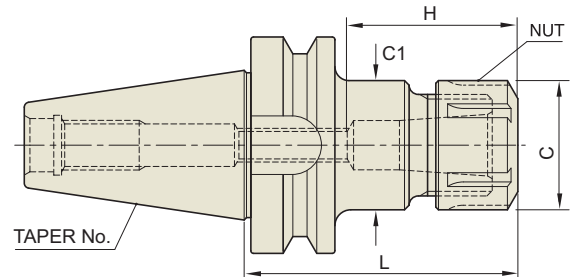
TAPER No.	MODEL No.	RANGE	L	C	C1	H		COLLET	중량(kg)	재고
						Min	Max			
30	BT30 - SKA06 - 60	0.9-6.0	60	20	19.5	21	35	SKC6	0.7	
	BT30 - SKA06 - 90	0.9-6.0	90	20	19.5	21	35	SKC6	0.8	
	BT30 - SKA10 - 60	1.75-10.0	60	28	27.5	30	50	SKC10	0.9	
	BT30 - SKA10 - 90	1.75-10.0	90	28	27.5	30	50	SKC10	1	
	BT30 - SKA13 - 60	2.75-13.0	60	33	33	31	65	SKC13	1	
	BT30 - SKA13 - 90	2.75-13.0	90	33	33	31	65	SKC13	1.1	
	BT30 - SKA16 - 60	2.75-16.0	60	40	40	45	60	SKC16	1.1	
	BT30 - SKA16 - 90	2.75-16.0	90	40	40	45	60	SKC16	1.2	
	BT30 - SKA20 - 60	4.0-20.0	60	48.5	48.5	65	75	SKC20	1.3	
	BT30 - SKA20 - 90	4.0-20.0	90	48.5	48.5	65	75	SKC20	1.4	
	BT30 - SKA25 - 90	16.0-25.4	90	55	55	55	75	SKC25	1.5	
40	BT40 - SKA06 - 90	0.9-6.0	90	20	19.5	21	35	SKC6	1.1	
	BT40 - SKA06 - 120	0.9-6.0	120	20	19.5	21	35	SKC6	1.4	
	BT40 - SKA06 - 150	0.9-6.0	150	20	19.5	21	35	SKC6	1.5	
	BT40 - SKA10 - 90	1.75-10.0	90	28	27.5	30	50	SKC10	1.2	
	BT40 - SKA10 - 120	1.75-10.0	120	28	27.5	30	50	SKC10	1.4	
	BT40 - SKA10 - 150	1.75-10.0	150	28	27.5	30	50	SKC10	1.6	
	BT40 - SKA13 - 90	2.75-13.0	90	33	33	31	65	SKC13	1.4	
	BT40 - SKA13 - 120	2.75-13.0	120	33	33	31	65	SKC13	1.6	
	BT40 - SKA13 - 150	2.75-13.0	150	33	40	31	65	SKC13	1.8	
	BT40 - SKA16 - 90	2.75-16.0	90	40	40	45	70	SKC16	1.5	
	BT40 - SKA16 - 120	2.75-16.0	120	40	40	45	70	SKC16	1.7	
	BT40 - SKA16 - 150	2.75-16.0	150	40	40	45	70	SKC16	1.9	
	BT40 - SKA20 - 90	4.0-20.0	90	48.5	48.5	47	80	SKC20	1.6	
	BT40 - SKA20 - 120	4.0-20.0	120	48.5	48.5	47	80	SKC20	2	
	BT40 - SKA20 - 150	4.0-20.0	150	48.5	48.5	47	80	SKC20	2.4	
	BT40 - SKA25 - 90	16.0-25.4	90	55	55	55	85	SKC25	1.8	
	BT40 - SKA25 - 120	16.0-25.4	120	55	55	55	85	SKC25	2	
	BT40 - SKA25 - 150	16.0-25.4	150	55	55	55	85	SKC25	2.3	

SK SLIM CHUCK

SKA

- ◇ 최고의 정밀도 구현
- ◇ E/M, DRILL, REAMER, TAP 등 다양한 공구에 적용 가능

- ◇ SWISS 제조사의 NUT사용으로 장시간 사용가능
- ◇ SLIM TYPE으로 깊은 형상 가공시 최대효과창출



SK Slim
Chuck

JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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JIS B6339 (MAS 403) - BT

TAPER No.	MODEL No.	RANGE	L	C	C1	H		COLLET	중량(kg)	재고
						Min	Max			
50	BT50 - SKA06 - 105	0.9-6.0	105	20	19.5	21	35	SKC6	3.8	
	BT50 - SKA06 - 135	0.9-6.0	135	20	19.5	21	35	SKC6	3.9	
	BT50 - SKA06 - 165	0.9-6.0	165	20	32.5	21	35	SKC6	4	
	BT50 - SKA06 - 195	0.9-6.0	195	20	32.5	21	35	SKC6	4.2	
	BT50 - SKA10 - 105	1.75-10.0	105	28	27.5	30	50	SKC10	4.2	
	BT50 - SKA10 - 135	1.75-10.0	135	28	27.5	30	50	SKC10	4.4	
	BT50 - SKA10 - 165	1.75-10.0	165	28	37.4	30	50	SKC10	4.6	
	BT50 - SKA10 - 195	1.75-10.0	195	28	37.4	30	50	SKC10	4.8	
	BT50 - SKA13 - 105	2.75-13.0	105	33	33	31	65	SKC13	4.5	
	BT50 - SKA13 - 135	2.75-13.0	135	33	33	31	65	SKC13	4.7	
	BT50 - SKA13 - 165	2.75-13.0	165	33	45	31	65	SKC13	4.9	
	BT50 - SKA13 - 195	2.75-13.0	195	33	45	31	65	SKC13	5.2	
	BT50 - SKA16 - 105	2.75-16.0	105	40	40	45	70	SKC16	4.7	
	BT50 - SKA16 - 135	2.75-16.0	135	40	40	45	70	SKC16	4.9	
	BT50 - SKA16 - 165	2.75-16.0	165	40	40	45	70	SKC16	5.1	
	BT50 - SKA16 - 195	2.75-16.0	195	40	40	45	70	SKC16	5.5	
	BT50 - SKA20 - 105	4.0-20.0	105	48.5	48.5	47	80	SKC20	4.3	
	BT50 - SKA20 - 135	4.0-20.0	135	48.5	48.5	47	80	SKC20	4.6	
	BT50 - SKA20 - 165	4.0-20.0	165	48.5	48.5	47	80	SKC20	5	
	BT50 - SKA20 - 195	4.0-20.0	195	48.5	48.5	47	80	SKC20	5.4	
	BT50 - SKA25 - 105	16.0-25.4	105	55	55	55	85	SKC25	5.2	
	BT50 - SKA25 - 135	16.0-25.4	135	55	55	55	85	SKC25	5.4	
	BT50 - SKA25 - 165	16.0-25.4	165	55	55	55	85	SKC25	5.6	
	BT50 - SKA25 - 195	16.0-25.4	195	55	55	55	85	SKC25	6	

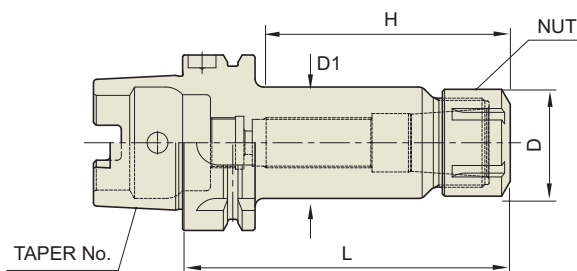
SK SLIM CHUCK

SKA

DIN 69893/ISO 12164-1 HSK



SK Slim
Chuck



DIN69893-
HSK

Taper
Accuracy

G Value
2.5

RPM
25,000

Coolant
System
AD

DIN 69893/ISO 12164-1-HSK FORM A

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	중량(kg)	재고
						Min	Max			
32A	HSK32A-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
40A	HSK40A-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	
	HSK40A-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	
	HSK40A-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	
50A	HSK50A-SKA06-80	0.75 - 6.0	20	19.5	80	21	35	SKC06	0.9	
	HSK50A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.1	
	HSK50A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.2	
63A	HSK63A-SKA06-100	0.75 - 6.0	20	19.5	100	21	35	SKC06	1.4	
	HSK63A-SKA10-100	1.75 - 10.0	28	27.5	100	30	50	SKC10	1.6	
	HSK63A-SKA13-100	2.75-13.0	33	33	100	31	65	SKC13	1.7	
	HSK63A-SKA16-120	2.75 - 16.0	40	40	120	45	70	SKC16	1.7	
	HSK63A-SKA20-120	4.0-20.0	48.5	48.5	120	65	75	SKC20	2.1	
	HSK63A-SKA25-150	16.0 - 25.4	55	55	150	55	85	SKC25	2.4	
100A	HSK100A-SKA06-120	0.75 - 6.0	20	19.5	120	21	35	SKC06	4	
	HSK100A-SKA10-150	1.75 - 10.0	28	27.5	150	30	50	SKC10	4.5	
	HSK100A-SKA13-150	2.75-13.0	33	40	150	31	65	SKC13	4.6	
	HSK100A-SKA16-150	2.75 - 16.0	40	40	150	45	70	SKC16	5.1	
	HSK100A-SKA20-150	4.0-20.0	48.5	48.5	150	65	75	SKC20	5.4	
	HSK100A-SKA25-160	16.0 - 25.4	55	55	160	55	85	SKC25	5.5	

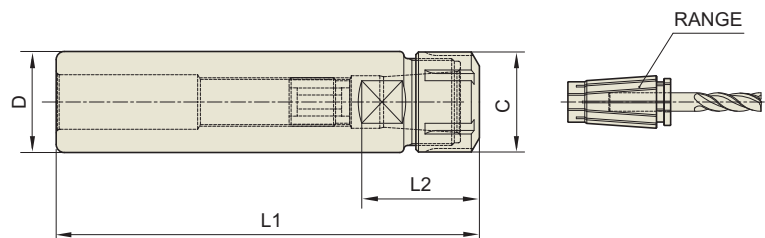
DIN 69893/ISO 12164-1-HSK FORM E

TAPER No.	MODEL No.	CLAMPING RANGE	D	D1	L	H		COLLET	중량(kg)	재고
						Min	Max			
25E	HSK25E-SKA06-45	0.75-6.0	20	19.5	45	21	21	SKC06		
	HSK25E-SKA10-50	1.75-10.5	28	21.5	50	25	25	SKC10		
32E	HSK32E-SKA06-50	0.75 - 6.0	20	19.5	50	21	35	SKC06	0.5	
	HSK32E-SKA10-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.7	
	HSK40E-SKA06-60	0.75 - 6.0	20	19.5	60	21	35	SKC06	0.7	
40E	HSK40E-SKA010-60	1.75 - 10.0	28	27.5	60	30	50	SKC10	0.9	
	HSK40E-SKA13-80	2.75-13.0	33	33	80	31	65	SKC13	1	

SK SLIM CHUCK - STRAIGHT SHANK

SKA

STRAIGHT-K



SK Slim
Chuck

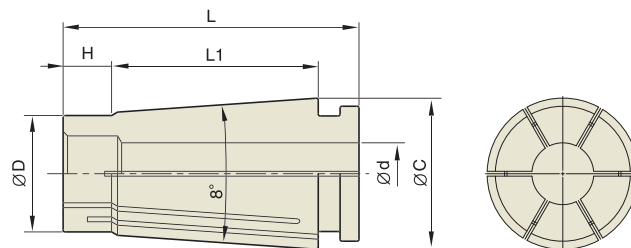
K	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	RANGE	D	C	L1	L2	COLLET	중량(kg)	재고
K20	K20-SKA06-100	0.75 - 6.0	20	28	100	21 - 35	SKC06	0.2	
	K20-SKA06-140	0.75 - 6.0	20	28	140	21 - 35	SKC06	0.3	
	K20-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.2	
	K20-SKA10-140	1.75 - 10.0	28	28	140	30 - 50	SKC10	0.3	
K25	K25-SKA06-100	0.75 - 6.0	20	28	100	21 - 35	SKC06	0.3	
	K25-SKA06-140	0.75 - 6.0	20	28	140	21 - 35	SKC06	0.5	
	K25-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.3	
	K25-SKA10-150	1.75 - 10.0	28	28	150	30 - 50	SKC10	0.5	
	K25-SKA13-100	2.75-13.0	33	37	100	31 - 65	SKC13	0.4	
	K25-SKA13-150	2.75-13.0	33	37	150	31 - 65	SKC13	0.6	
K32	K32-SKA10-100	1.75 - 10.0	28	28	100	30 - 50	SKC10	0.5	
	K32-SKA10-150	1.75 - 10.0	28	28	150	30 - 50	SKC10	0.7	
	K32-SKA13-100	2.75-13.0	33	37	100	31 - 65	SKC13	1	
	K32-SKA13-150	2.75-13.0	33	37	150	31 - 65	SKC13	1.2	
	K32-SKA16-100	2.75 - 16.0	40	47	100	40 - 70	SKC16	1	
	K32-SKA16-150	2.75 - 16.0	40	47	150	40 - 70	SKC16	1.2	
	K32-SKA20-100	4.0-20.0	48.5	47	100	47 - 80	SKC20	1.1	
	K32-SKA20-150	4.0-20.0	48.5	47	150	47 - 80	SKC20	1.3	
	K32-SKA25-150	16.0 - 25.4	55	47	150	50 - 85	SKC25	1.3	

SK SLIM CHUCK COLLET

SKC

- ◇ 강력한 척킹력의 8° TAPER 및 높은 정밀도 보장
- ◇ 0.9 - 25.4 까지의 다양한 Size의 공구사용 가능
- ◇ E/M, DRILL, TAP, REAMER 등 다양한 공구에 적용가능



* 일반급 - 5 μ m 이내

* P급 - 3 μ m 이내

Style	MODEL No.	Chucking (d)	Style	MODEL No.	Chucking (d)	Style	MODEL No.	Chucking (d)
SKC 6	SKC 6 - 1	0.9 - 1.0	SKC 10	SKC10 - 2	1.75 - 2.0	SKC 13	SKC 13 - 3	2.75 - 3.0
	SKC 6 - 1.5	1.3 - 1.5		SKC10 - 2.5	2.25 - 2.5		SKC 13 - 3.5	3.0 - 3.5
	SKC 6 - 2	1.8 - 2.0		SKC10 - 3	2.75 - 3.0		SKC 13 - 4	3.5 - 4.0
	SKC 6 - 2.5	2.3 - 2.5		SKC10 - 3.5	3.0 - 3.5		SKC 13 - 4.5	4.0 - 4.5
	SKC 6 - 3	2.8 - 3.0		SKC10 - 4	3.5 - 4.0		SKC 13 - 5	4.5 - 5.0
	SKC 6 - 3.5	3.0 - 3.5		SKC10 - 4.5	4.0 - 4.5		SKC 13 - 5.5	5.0 - 5.5
	SKC 6 - 4	3.5 - 4.0		SKC10 - 5	4.5 - 5.0		SKC 13 - 6	5.5 - 6.0
	SKC 6 - 4.5	4.0 - 4.5		SKC10 - 5.5	5.0 - 5.5		SKC 13 - 6.5	6.0 - 6.5
	SKC 6 - 5	4.5 - 5.0		SKC10 - 6	5.5 - 6.0		SKC 13 - 7	6.5 - 7.0
	SKC 6 - 5.5	5.0 - 5.5		SKC10 - 6.5	6.0 - 6.5		SKC 13 - 7.5	7.0 - 7.5
	SKC 6 - 6	5.5 - 6.0		SKC10 - 7	6.5 - 7.0		SKC 13 - 8	7.5 - 8.0
				SKC10 - 7.5	7.0 - 7.5		SKC 13 - 8.5	8.0 - 8.5
				SKC10 - 8	7.5 - 8.0		SKC 13 - 9	8.5 - 9.0
				SKC10 - 8.5	8.0 - 8.5		SKC 13 - 9.5	9.0 - 9.5
				SKC10 - 9	8.5 - 9.0		SKC 13 - 10	9.5 - 10.0
				SKC10 - 9.5	9.0 - 9.5		SKC 13 - 10.5	10.0 - 10.5
				SKC10 - 10	9.5 - 10.0		SKC 13 - 11	10.5 - 11.0
							SKC 13 - 11.5	11.0 - 11.5
							SKC 13 - 12	11.5 - 12.0
							SKC 13 - 12.5	12.0 - 12.5
							SKC 13 - 13	12.5 - 13.0

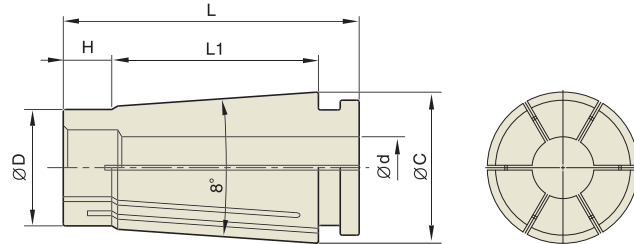
SKC COLLET DIMENSION

STYLE	D	L	L1	H	C	중량(kg)	재고
SKC 6	7.5	25.7	17.6	3.8	10	0.03	
SKC 10	12	32	21.3	5	15	0.04	
SKC 13	15.4	39	28.3	5.5	20		
SKC 16	18.8	46	32	8	24	0.06	
SKC 20	22.5	54.2	41	8	29		
SKC 25	28.9	58.2	43	8.5	35	0.10	

SK SLIM CHUCK COLLET

SKC

- ◇ 강력한 척강력의 8° TAPER 및 높은 정밀도 보장
- ◇ 0.9 - 25.4 까지의 다양한 Size의 공구사용 가능
- ◇ E/M, DRILL, TAP, REAMER 등 다양한 공구에 적용가능



* 일반급 - 5 μ m 이내

* P급 - 3 μ m 이내

SK Slim
Chuck

Style	MODEL No.	Chucking (d)	Style	MODEL No.	Chucking (d)	Style	MODEL No.	Chucking (d)
SKC 16	SKC16 - 3	2.75 - 3.0	SKC 20	SKC 20 - 4	3.5 - 4.0	SKC 25	SKC25 - 16.5	16.0 - 16.5
	SKC16 - 3.5	3.0 - 3.5		SKC 20 - 4.5	4.0 - 4.5		SKC25 - 17	16.5 - 17.0
	SKC16 - 4	3.5 - 4.0		SKC 20 - 5	4.5 - 5.0		SKC25 - 17.5	17.0 - 17.5
	SKC16 - 4.5	4.0 - 4.5		SKC 20 - 5.5	5.0 - 5.5		SKC25 - 18	17.5 - 18.0
	SKC16 - 5	4.5 - 5.0		SKC 20 - 6	5.5 - 6.0		SKC25 - 18.5	18.0 - 18.5
	SKC16 - 5.5	5.0 - 5.5		SKC 20 - 6.5	6.0 - 6.5		SKC25 - 19	18.5 - 19.0
	SKC16 - 6	5.5 - 6.0		SKC 20 - 7	6.5 - 7.0		SKC25 - 19.5	19.0 - 19.5
	SKC16 - 6.5	6.0 - 6.5		SKC 20 - 7.5	7.0 - 7.5		SKC25 - 20	19.5 - 20.0
	SKC16 - 7	6.5 - 7.0		SKC 20 - 8	7.5 - 8.0		SKC25 - 20.5	20.0 - 20.5
	SKC16 - 7.5	7.0 - 7.5		SKC 20 - 8.5	8.0 - 8.5		SKC25 - 21	20.5 - 21.0
	SKC16 - 8	7.5 - 8.0		SKC 20 - 9	8.5 - 9.0		SKC25 - 21.5	21.0 - 21.5
	SKC16 - 8.5	8.0 - 8.5		SKC 20 - 9.5	9.0 - 9.5		SKC25 - 22	21.5 - 22.0
	SKC16 - 9	8.5 - 9.0		SKC 20 - 10	9.5 - 10.0		SKC25 - 22.5	22.0 - 22.5
	SKC16 - 9.5	9.0 - 9.5		SKC 20 - 10.5	10.0 - 10.5		SKC25 - 23	22.5 - 23.0
	SKC16 - 10	9.5 - 10.0		SKC 20 - 11	10.5 - 11.0		SKC25 - 23.5	23.0 - 23.5
	SKC16 - 10.5	10.0 - 10.5		SKC 20 - 11.5	11.0 - 11.5		SKC25 - 24	23.5 - 24.0
	SKC16 - 11	10.5 - 11.0		SKC 20 - 12	11.5 - 12.0		SKC25 - 24.5	24.0 - 24.5
	SKC16 - 11.5	10.0 - 11.5		SKC 20 - 12.5	12.0 - 12.5		SKC25 - 25	24.5 - 25.0
	SKC16 - 12	11.5 - 12.0		SKC 20 - 13	12.5 - 13.0		SKC25 - 25.4	25.0 - 25.4
	SKC16 - 12.5	12.0 - 12.5		SKC 20 - 13.5	13.0 - 13.5			
	SKC16 - 13	12.5 - 13.0		SKC 20 - 14	13.5 - 14.0			
	SKC16 - 13.5	13.0 - 13.5		SKC 20 - 14.5	14.0 - 14.5			
	SKC16 - 14	13.5 - 14.0		SKC 20 - 15	14.5 - 15.0			
	SKC16 - 14.5	14.0 - 14.5		SKC 20 - 15.5	15.0 - 15.5			
	SKC16 - 15	14.5 - 15.0		SKC 20 - 16	15.5 - 16.0			
	SKC16 - 15.5	15.0 - 15.5		SKC 20 - 16.5	16.0 - 16.5			
	SKC16 - 16	15.5 - 16.0		SKC 20 - 17	16.5 - 17.0			
				SKC 20 - 17.5	17.0 - 17.5			
				SKC 20 - 18	17.5 - 18.0			
				SKC 20 - 18.5	18.0 - 18.5			
				SKC 20 - 19	18.5 - 19.0			
				SKC 20 - 19.5	19.0 - 19.5			
				SKC 20 - 20.0	19.5 - 20.0			

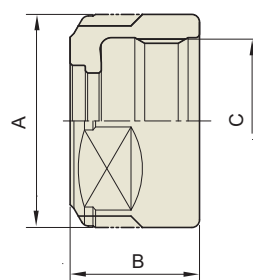


FIG 1

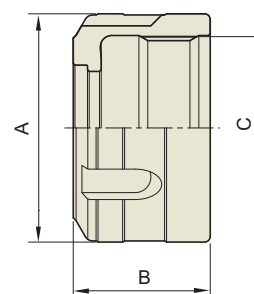


FIG 2

TYPE	FIG	A	B	C	중량(kg)	재고
SKN 06	1	20	15	M15.5X1.0	0.02	●
SKN 10	1	28	17	M21.5X1.0	0.04	●
SKN 13	2	33	21	M27X1.0		
SKN 16	2	40	24	M32X1.5	0.06	●
SKN 20	2	48.5	24	M40X1.0		
SKN 25	2	55	30	M42X1.5	0.10	●

ER COLLET CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

DIN228 - MT

STRAIGHT - K

NC / R8

ISO26623 - CAPTO

ACCESSORY

JIS B6339(MAS403)-BT

- 2면 구속용/일반형/LONG TYPE/SLIM TYPE

DIN69893/ISO12164-1 HSK

- 일반형/SLIM TYPE

DIN69871-SK

DIN228 - MTA / MTB

STRAIGHT - K

- 일반형/SLIM TYPE/TAP 작업용

NC / R8

ISO26623 - CAPTO

ACCESSORY

- ER COLLET (일반급/정밀급/TAP전용)
- SEALING DISC
- ER NUT
- SPANNER

ER COLLET CHUCK

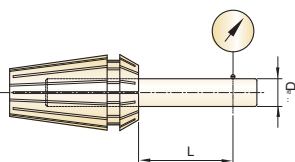


특징

- 강력한 CHUCKING, 고정밀도, 간편한 조작성
- 고속회전에서 흔들림없이 고정도의 HOLE 가공이 안정되게 유지됩니다.
- NUT 부분이 소구경으로 설계되어 공작물과의 간섭을 극소화 시킴으로 안심하고 빠른 작업을 할 수 있습니다.
- 용도에 따라 Nut를 다양하게 선택, 사용할 수 있습니다.
- 싱글 TAPER에 비해 DOUBLE TAPER는 CHUCKING 부위가 길어 우수한 피자력을 얻을 수 있습니다.

고정밀도

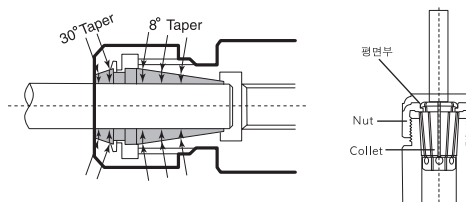
- 초정밀
- 초정밀 COLLET사용으로 흔들림 정도가 우수함 (ER-UF)
- 16등 분할의 미세 CUTTING으로 수축력이 좋아 정밀도를 더욱 더 높일 수 있습니다.



D	L	ER(UF)	GER-AA
Ø1~Ø1.6	6	0.015	0.005
Ø1.6~Ø3	10	0.015	0.005
Ø3~Ø6	16	0.015	0.005
Ø6~Ø10	25	0.015	0.005
Ø10~Ø18	40	0.020	0.005
Ø18~Ø26	50	0.020	0.005
Ø26~Ø34	60	0.025	0.005

강력한 파지력

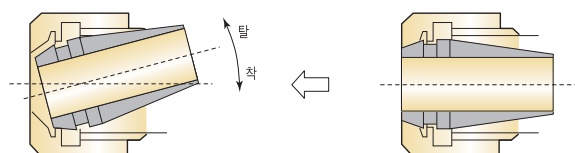
- DOUBLE TAPER COLLET은 SINGLE TAPER COLLET에 비해 TOOL을 잡는 부위가 길어 강력한 파지력을 갖는다.
- 또한 BALL BEARING NUT를 사용시엔 더욱 더 강력한 파지력을 얻을 수 있다.



간편한 조작성

- COLLET의 착탈은 먼저 NUT의 내측 편심 구성에 COLLET의 GROOVE 부분을 가볍게 끼워 넣은 다음 COLLET CHUCK에 나사 방향으로 돌려 조이거나 그와 반대로 풀면 간단히 처리됩니다

· 주의 : Ø12.2MM의 TOOL은 COLLET Ø12~11MM 사용은 절대 안되며 COLLET Ø12.5~11.5MM를 사용하여야 합니다. (단 정밀하지 않은 일반 절삭가공에서는 Ø13~12MM COLLET 사용도 가능함)



CENTER THROUGH ER COLLET CHUCK SYSTEM

특징 (FEATURES)

- CENTER COOLANT 기계의 주축을 통하여 고압절삭유를 공급할 수 있는 Machining Center에 사용됩니다.
- 고압의 절삭유를 절삭공구 인선부에 직접 공급 냉각시켜 공구의 수명 연장과 미려한 가공면을 얻을 수 있음
- 깊은 구멍 또는 깊은 홈 가공시 고압의 절삭유 분사로 인하여 Chip 배출이 용이하므로 공구의 수명을 연장시킬 수 있음.
- Sealing Disc를 이용한 내부 Coolant 방식은 기존의 다른 방식과 비교할 수 없는 누출을 완벽하게 차단하는 Know-How이다.
- 150BARS(1,500 PSI)의 고압에도 견디는 완벽한 Sealing.
- Standard형 ER Collet chuck을 사용시 ER NUT와 Sealing Disc만을 교환하면 되므로 별도의 HOLDER를 준비할 필요가 없어 비용이 절감됨.



CODE NO 설명

B T 4 0 - E R C 2 0 - 1 0 0

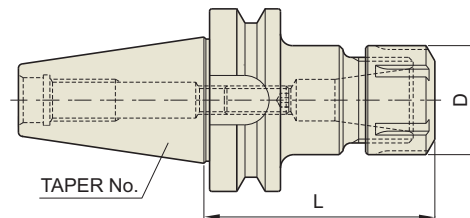
Shank 형상 → B T 4 0
 Center Through약호 → E R C
 ER COLLET TYPE(크기) → 2 0
 길이 → 1 0 0

- CENTER THROUGH TYPE ER NUT는 109PAGE를 참조하십시오.
- SEALING DISC는 절삭공구의 외경에 맞추어 선택하여야 하며 상세한 내용은 106, 107PAGE를 참조하십시오.

ER COLLET CHUCK **NEW**

ER

JIS B6339 (MAS 403) BT



CBT

Taper Accuracy
AT3

G Value
2.5

RPM
25,000

Coolant System
AD

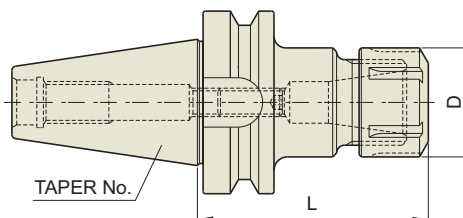
CBT (BT 2면 구속용)

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	중량(kg)	재고
30	CBT30-ER11-70	0.5~7.0	19	70	SQ-ER11	0.5	
	CBT30-ER11-100	0.5~7.0	19	100	SQ-ER11	0.5	
	CBT30-ER16-70	0.5~10.0	28	70	SQ-ER16	1.0	●
	CBT30-ER16-100	0.5~10.0	28	100	SQ-ER16	1.1	
	CBT30-ER20-80	1.0~13.0	34	80	SQ-ER20	1.2	●
	CBT30-ER20-100	1.0~13.0	34	100	SQ-ER20	1.3	
	CBT30-ER25-70	1.0~16.0	42	70	SQ-ER25	1.2	●
	CBT30-ER25-100	1.0~16.0	42	100	SQ-ER25	1.3	
	CBT30-ER32-60	2.0~20.0	50	60	SQ-ER32	1.4	●
	CBT30-ER32-90	2.0~20.0	50	90	SQ-ER32	1.9	
40	CBT40-ER11-75	0.5~7.0	19	75	SQ-ER11	1.0	
	CBT40-ER11-100	0.5~7.0	19	100	SQ-ER11	1.1	
	CBT40-ER16-75	0.5~10.0	28	75	SQ-ER16	1.1	
	CBT40-ER16-100	0.5~10.0	28	100	SQ-ER16	1.2	●
	CBT40-ER16-120	0.5~10.0	28	120	SQ-ER16	1.4	
	CBT40-ER20-75	1.0~13.0	34	75	SQ-ER20	1.4	
	CBT40-ER20-100	1.0~13.0	34	100	SQ-ER20	1.8	●
	CBT40-ER20-135	1.0~13.0	34	135	SQ-ER20	2.2	
	CBT40-ER25-75	1.0~16.0	42	75	SQ-ER25	1.4	
	CBT40-ER25-100	1.0~16.0	42	100	SQ-ER25	1.8	●
	CBT40-ER25-135	1.0~16.0	42	135	SQ-ER25	2.2	
	CBT40-ER25-150	1.0~16.0	42	150	SQ-ER25	2.4	
	CBT40-ER32-60	2.0~20.0	50	60	SQ-ER32	1.8	
	CBT40-ER32-100	2.0~20.0	50	100	SQ-ER32	2.2	●
	CBT40-ER32-120	2.0~20.0	50	120	SQ-ER32	2.4	
	CBT40-ER32-150	2.0~20.0	50	150	SQ-ER32	2.6	
	CBT40-ER40-80	3.0~30.0	63	80	SQ-ER40	1.5	

ER COLLET CHUCK **NEW**

ER

JIS B6339 (MAS 403) BT



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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ER Collet Chuck

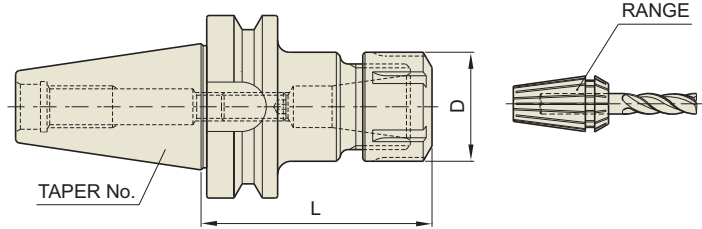
CBT (BT 2면 구속용)

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	중량(kg)	재고
50	CBT50-ER16-100	0.5~10.0	28	100	SQ-ER16	4.2	
	CBT50-ER16-120	0.5~10.0	28	120	SQ-ER16	4.4	
	CBT50-ER16-165	0.5~10.0	28	165	SQ-ER16	4.6	
	CBT50-ER20-100	1.0~13.0	34	100	SQ-ER20	4.6	
	CBT50-ER20-135	1.0~13.0	34	135	SQ-ER20	4.8	
	CBT50-ER20-165	1.0~13.0	34	165	SQ-ER20	5.0	
	CBT50-ER25-100	1.0~16.0	42	100	SQ-ER25	4.7	
	CBT50-ER25-135	1.0~16.0	42	135	SQ-ER25	4.8	
	CBT50-ER25-165	1.0~16.0	42	165	SQ-ER25	5.0	
	CBT50-ER32-100	2.0~20.0	50	100	SQ-ER32	5.2	
	CBT50-ER32-135	2.0~20.0	50	135	SQ-ER32	5.7	
	CBT50-ER32-165	2.0~20.0	50	165	SQ-ER32	5.8	
	CBT50-ER40-100	3.0~30.0	63	100	SQ-ER40	5.6	
	CBT50-ER40-150	3.0~30.0	63	150	SQ-ER40	6.1	
	CBT50-ER50-100	12.0~34.0	78	100	SQ-ER50	5.8	
	CBT50-ER50-150	12.0~34.0	78	150	SQ-ER50	6.3	

ER COLLET CHUCK

ER

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

■ 일반급

TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT30	BT30-ER11- 70	0.5~7.0	19	70	M6	SQ-ER11	ER11	0.5	
	BT30-ER11-100	0.5~7.0	19	100	M6	SQ-ER11	ER11	0.5	
	BT30-ER16- 70	0.5~10.0	28	70	M10	SQ-ER16	ER16	1.0	●
	BT30-ER16-100	0.5~10.0	28	100	M10	SQ-ER16	ER16	1.1	●
	BT30-ER20- 80	1.0~13.0	34	80	M12	SQ-ER20	ER20	1.2	●
	BT30-ER20-100	1.0~13.0	34	100	M12	SQ-ER20	ER20	1.3	●
	BT30-ER25- 70	1.0~16.0	42	70	M12	SQ-ER25	ER25	1.2	●
	BT30-ER25-100	1.0~16.0	42	100	M12	SQ-ER25	ER25	1.3	●
	BT30-ER32- 60	2.0~20.0	50	60	M12	SQ-ER32	ER32	1.4	●
	BT30-ER32- 90	2.0~20.0	50	90	M12	SQ-ER32	ER32	1.9	●

■ 정밀급

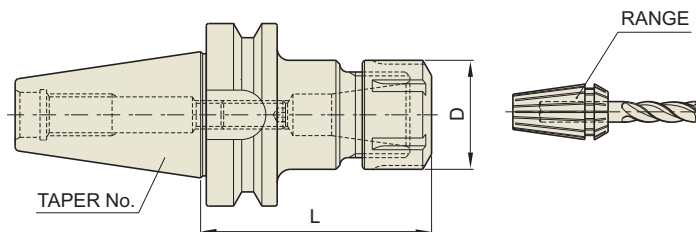
TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT30	BT30-ER11G- 70	0.5~7.0	19	70	M6	XSQ-R11	ER11	0.5	
	BT30-ER11G-100	0.5~7.0	19	100	M6	XSQ-R11	ER11	0.5	
	BT30-ER16G- 70	0.5~10.0	28	70	M10	XSQ-R16	ER16	1.0	●
	BT30-ER16G-100	0.5~10.0	28	100	M10	XSQ-R16	ER16	1.1	●
	BT30-ER20G- 80	1.0~13.0	34	80	M12	XSQ-R20	ER20	1.2	●
	BT30-ER20G-100	1.0~13.0	34	100	M12	XSQ-R20	ER20	1.3	●
	BT30-ER25G- 70	1.0~16.0	42	70	M12	XSQ-R25	ER25	1.2	●
	BT30-ER25G-100	1.0~16.0	42	100	M12	XSQ-R25	ER25	1.3	●
	BT30-ER32G- 60	2.0~20.0	50	60	M12	XSQ-R32	ER32	1.4	●
	BT30-ER32G- 90	2.0~20.0	50	90	M12	XSQ-R32	ER32	1.9	●

▶ 고발란싱급은 고객의 요청에 따라 G2/5 40,000rpm (G6.3/100,000rpm)으로도 제작 공급 가능합니다.

ER COLLET CHUCK

ER

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

ER Collet
Chuck

■ 일반급

TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT40	BT40-ER11- 75	0.5~7.0	19	75	M6	SQ-ER11	ER11	1.0	
	BT40-ER11-100	0.5~7.0	19	100	M6	SQ-ER11	ER11	1.1	
	BT40-ER16- 75	0.5~10.0	28	75	M10	SQ-ER16	ER16	1.1	●
	BT40-ER16-100	0.5~10.0	28	100	M10	SQ-ER16	ER16	1.2	●
	BT40-ER16-120	0.5~10.0	28	120	M10	SQ-ER16	ER16	1.4	
	BT40-ER20- 75	1.0~13.0	34	75	M12	SQ-ER20	ER20	1.4	
	BT40-ER20-100	1.0~13.0	34	100	M12	SQ-ER20	ER20	1.8	●
	BT40-ER20-135	1.0~13.0	34	135	M12	SQ-ER20	ER20	2.2	
	BT40-ER25- 75	1.0~16.0	42	75	M12	SQ-ER25	ER25	1.4	
	BT40-ER25-100	1.0~16.0	42	100	M12	SQ-ER25	ER25	1.8	●
	BT40-ER25-135	1.0~16.0	42	135	M12	SQ-ER25	ER25	2.2	
	BT40-ER25-150	1.0~16.0	42	150	M12	SQ-ER25	ER25	2.4	
	BT40-ER32- 60	2.0~20.0	50	60	M12	SQ-ER32	ER32	1.8	●
	BT40-ER32-100	2.0~20.0	50	100	M12	SQ-ER32	ER32	2.2	●
	BT40-ER32-120	2.0~20.0	50	120	M12	SQ-ER32	ER32	2.4	●
	BT40-ER32-150	2.0~20.0	50	150	M12	SQ-ER32	ER32	2.6	
	BT40-ER40- 80	3.0~30.0	63	80	M12	SQ-ER40	ER40	1.5	

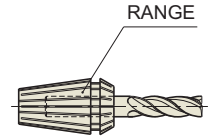
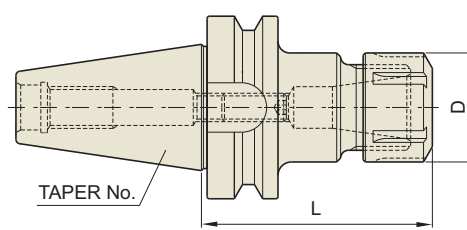
■ 정밀급

TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT40	BT40-ER11G- 75	0.5~7.0	19	75	M6	XSQ-ER11	ER11	1.0	
	BT40-ER11G-100	0.5~7.0	19	100	M6	XSQ-ER11	ER11	1.1	
	BT40-ER16G- 75	0.5~10.0	28	75	M10	XSQ-ER16	ER16	1.1	
	BT40-ER16G-100	0.5~10.0	28	100	M10	XSQ-ER16	ER16	1.2	
	BT40-ER16G-120	0.5~10.0	28	120	M10	XSQ-ER16	ER16	1.4	
	BT40-ER20G- 75	1.0~13.0	34	75	M12	XSQ-ER20	ER20	1.4	
	BT40-ER20G-100	1.0~13.0	34	100	M12	XSQ-ER20	ER20	1.8	
	BT40-ER20G-135	1.0~13.0	34	135	M12	XSQ-ER20	ER20	2.2	
	BT40-ER25G- 75	1.0~16.0	42	75	M12	XSQ-ER25	ER25	1.4	
	BT40-ER25G-100	1.0~16.0	42	100	M12	XSQ-ER25	ER25	1.8	
	BT40-ER25G-135	1.0~16.0	42	135	M12	XSQ-ER25	ER25	2.2	
	BT40-ER25G-150	1.0~16.0	42	150	M12	XSQ-ER25	ER25	2.4	
	BT40-ER32G- 60	2.0~20.0	50	60	M12	XSQ-ER32	ER32	1.8	
	BT40-ER32G-100	2.0~20.0	50	100	M12	XSQ-ER32	ER32	2.2	
	BT40-ER32G-120	2.0~20.0	50	120	M12	XSQ-ER32	ER32	2.4	
	BT40-ER32G-150	2.0~20.0	50	150	M12	XSQ-ER32	ER32	2.6	
	BT40-ER40G- 80	3.0~30.0	63	80	M12	XSQ-ER40	ER40	1.5	

ER COLLET CHUCK

ER

JIS B6339 (MAS 403) - BT



ER Collet
Chuck

■ 일반급

JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT 50	BT50-ER16-100	0.5~10.0	28	100	M10	SQ-ER16	ER16	4.2	
	BT50-ER16-120	0.5~10.0	28	120	M10	SQ-ER16	ER16	4.4	●
	BT50-ER16-165	0.5~10.0	28	165	M10	SQ-ER16	ER16	4.6	
	BT50-ER20-100	1.0~13.0	34	100	M12	SQ-ER20	ER20	4.6	●
	BT50-ER20-135	1.0~13.0	34	135	M12	SQ-ER20	ER20	4.8	●
	BT50-ER20-165	1.0~13.0	34	165	M12	SQ-ER20	ER20	5.0	
	BT50-ER25-100	1.0~16.0	42	100	M12	SQ-ER25	ER25	4.7	
	BT50-ER25-135	1.0~16.0	42	135	M12	SQ-ER25	ER25	4.8	●
	BT50-ER25-165	1.0~16.0	42	165	M12	SQ-ER25	ER25	5.0	●
	BT50-ER32-100	2.0~20.0	50	100	M12	SQ-ER32	ER32	5.2	●
	BT50-ER32-135	2.0~20.0	50	135	M12	SQ-ER32	ER32	5.7	●
	BT50-ER32-165	2.0~20.0	50	165	M12	SQ-ER32	ER32	5.8	●
	BT50-ER40-100	3.0~30.0	63	100	M12	SQ-ER40	ER40	5.6	
	BT50-ER40-150	3.0~30.0	63	150	M12	SQ-ER40	ER40	6.1	●
	BT50-ER50-100	12.0~34.0	78	100	M12	SQ-ER40	ER40	5.8	
	BT50-ER50-150	12.0~34.0	78	150	M12	SQ-ER40	ER40	6.3	●

■ 정밀급

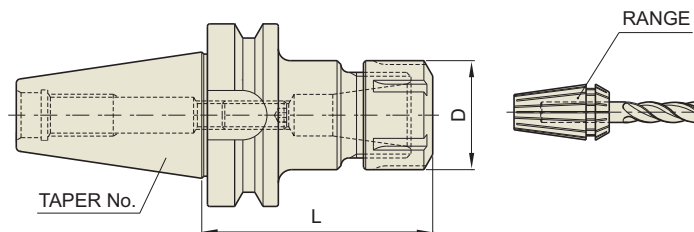
TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT 50	BT50-ER16G-100	0.5~10.0	28	100	M10	XSQ-ER16	ER16	4.2	
	BT50-ER16G-120	0.5~10.0	28	120	M10	XSQ-ER16	ER16	4.4	
	BT50-ER16G-165	0.5~10.0	28	165	M10	XSQ-ER16	ER16	4.6	
	BT50-ER20G-100	1.0~13.0	34	100	M12	XSQ-ER20	ER20	4.6	
	BT50-ER20G-135	1.0~13.0	34	135	M12	XSQ-ER20	ER20	4.8	
	BT50-ER20G-165	1.0~13.0	34	165	M12	XSQ-ER20	ER20	5.0	
	BT50-ER25G-100	1.0~16.0	42	100	M12	XSQ-ER25	ER25	4.7	
	BT50-ER25G-135	1.0~16.0	42	135	M12	XSQ-ER25	ER25	4.8	
	BT50-ER25G-165	1.0~16.0	42	165	M12	XSQ-ER25	ER25	5.0	
	BT50-ER32G-100	2.0~20.0	50	100	M12	XSQ-ER32	ER32	5.2	
	BT50-ER32G-135	2.0~20.0	50	135	M12	XSQ-ER32	ER32	5.7	
	BT50-ER32G-165	2.0~20.0	50	165	M12	XSQ-ER32	ER32	5.8	
	BT50-ER40G-100	3.0~30.0	63	100	M12	XSQ-ER40	ER40	5.6	
	BT50-ER40G-150	3.0~30.0	63	150	M12	XSQ-ER40	ER40	6.1	
	BT50-ER50G-100	12.0~34.0	78	100	M12	XSQ-ER50	ER40	5.8	
	BT50-ER50G-150	12.0~34.0	78	150	M12	XSQ-ER50	ER40	6.3	

▶ 고발란싱급은 고객의 요청에 따라 G2/5 40,000rpm (G6.3/100,000rpm)으로도 제작 공급 가능합니다.

ER COLLET CHUCK (LONG TYPE)

ER

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

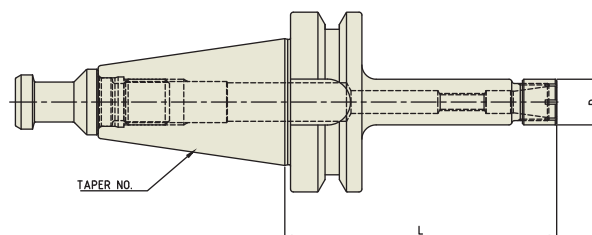
ER Collet
Chuck

TAPER No.	MODEL No.	RANGE	D	L	M	NUT	COLLET	중량(kg)	재고
BT50	BT50-ER11-200	0.5~7.0	19	200	M6	SQ/ER11	ER11		
	BT50-ER16-200	0.5~10.0	28	200	M10	SQ/ER16	ER16		
	BT50-ER16-250	0.5~10.0	28	250	M10	SQ/ER16	ER16		
	BT50-ER16-300	0.5~10.0	28	300	M10	SQ/ER16	ER16		
	BT50-ER20-200	1.0~13.0	34	200	M12	SQ/ER20	ER20		
	BT50-ER20-250	1.0~13.0	34	250	M12	SQ/ER20	ER20		
	BT50-ER20-300	1.0~13.0	34	300	M12	SQ/ER20	ER20		
	BT50-ER25-200	1.0~16.0	42	200	M12	SQ/ER25	ER25		
	BT50-ER25-250	1.0~16.0	42	250	M12	SQ/ER25	ER25		
	BT50-ER25-300	1.0~16.0	42	300	M12	SQ/ER25	ER25		
	BT50-ER32-200	2.0~20.0	50	200	M12	SQ/ER32	ER32		
	BT50-ER32-250	2.0~20.0	50	250	M12	SQ/ER32	ER32		
	BT50-ER32-300	2.0~20.0	50	300	M12	SQ/ER32	ER32		
	BT50-ER32-350	2.0~20.0	50	350	M12	SQ/ER32	ER32		
	BT50-ER40-200	3.0~30.0	63	200	M12	SQ/ER40	ER40		
	BT50-ER40-250	3.0~30.0	63	250	M12	SQ/ER40	ER40		
	BT50-ER40-300	3.0~30.0	63	300	M12	SQ/ER40	ER40		
	BT50-ER40-350	3.0~30.0	63	350	M12	SQ/ER40	ER40		

ER COLLET CHUCK **NEW**

ER

JBS 4002-TP (SLIM TYPE)

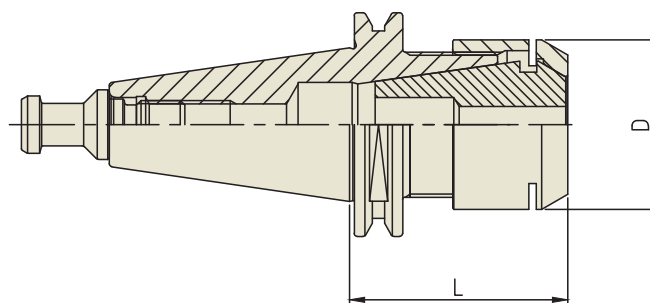


JIS B6339 - BT	Taper Accuracy AT3	G Value TBD	RPM TBD	Coolant System AD
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Unit : mm

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	중량(kg)	재고
20	TP20-ER8M-50	0.5 ~ 5.0	12	50	ERM8/ER8		
	TP20-ER11M-50	0.5 ~ 7.0	16	50	ERM11/ER11		
	TP20-ER16M-50	0.5 ~ 10.0	22	50	ERM16/ER16		
25	TP25-ER8M-50	0.5 ~ 5.0	12	50	ERM8/ER8		
	TP25-ER11M-50	0.5 ~ 7.0	16	50	ERM11/ER11		
	TP25-ER16M-50	0.5 ~ 10.0	22	50	ERM16/ER16		

ISO20/25 (SLIM TYPE)



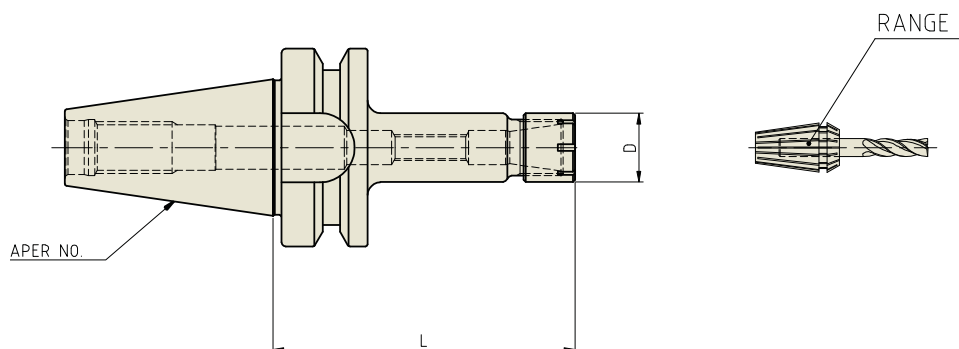
ISO20/25	Taper Accuracy AT3	G Value 2.5	RPM 40,000	Coolant System AD
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TAPER No.	MODEL No.	CLAMPING RANGE	D	L	NUT / COLLET	중량(kg)	재고
20	ISO20-ER16M-35	0.5~10.0	22	3	ERM16/ER16		
25	ISO25-ER16M-35	0.5~10.0	22	4	ERM16/ER16		
	ISO25-ER20M-36	1.0~13.0	28	5	ERM20/ER20		

ER CHUCK (Slim Collet Chuck)

ER

JIS B6339 (MAS 403) - BT



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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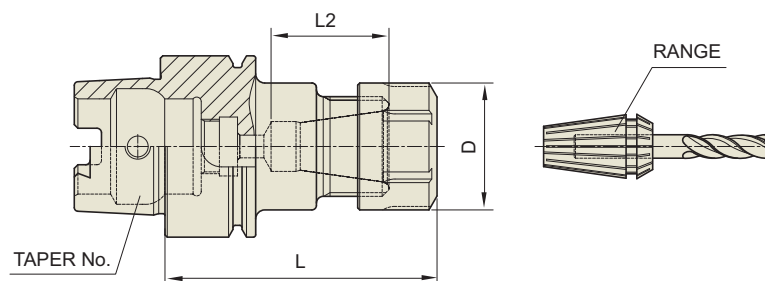
ER Collet
Chuck

TAPER No.	MODEL No.	D	C	C1	L	H	COLLET	RANGE	G	중량(kg)	재고
30	BT30-ER11M- 50	1.0~7.0	16	16	50	33	SQ-ER11	0.5	M7	0.5	
	BT30-ER11M- 75	1.0~7.0	16	16	75	33	SQ-ER11	0.5	M7	0.5	
	BT30-ER11M-100	1.0~7.0	16	16	105	33	SQ-ER11	0.5	M7	0.6	
	BT30-ER16M- 50	1.0~10.0	22	22	50	44.5	SQ-ER16	1.0	M10	0.5	
	BT30-ER16M- 75	1.0~10.0	22	22	75	44.5	SQ-ER16	1.0	M10	0.5	
	BT30-ER16M-100	1.0~10.0	22	22	105	44.5	SQ-ER16	1.0	M10	0.6	
	BT30-ER20M- 50	1.0~13.0	28	28	50	49	SQ-ER20	1.0	M17	0.5	
	BT30-ER20M- 75	1.0~13.0	28	28	75	49	SQ-ER20	1.0	M13	0.6	
	BT30-ER20M-100	1.0~13.0	28	28	105	49	SQ-ER20	1.0	M13	0.7	
	BT30-ER25M- 50	1.0~16.0	35	35	50	50	SQ-ER25	1.0	M17	0.6	
	BT30-ER25M- 75	1.0~16.0	35	35	75	50	SQ-ER25	1.0	M18	0.7	
	BT30-ER25M-100	1.0~16.0	35	35	105	50	SQ-ER25	1.0	M18	0.8	
40	BT40-ER11M- 60	1.0~7.0	16	16	60	33	SQ-ER11	0.5	M7	1.0	
	BT40-ER11M- 90	1.0~7.0	16	16	90	33	SQ-ER11	0.5	M7	1.1	
	BT40-ER11M-135	1.0~7.0	16	16	135	33	SQ-ER11	0.5	M7	1.2	
	BT40-ER16M- 60	1.0~10.0	22	22	60	44.5	SQ-ER16	1.0	M10	1.1	
	BT40-ER16M- 90	1.0~10.0	22	22	90	44.5	SQ-ER16	1.0	M10	1.2	
	BT40-ER16M-135	1.0~10.0	22	22	135	44.5	SQ-ER16	1.0	M10	1.4	
	BT40-ER20M- 60	1.0~13.0	28	28	60	49	SQ-ER20	1.0	M13	1.1	
	BT40-ER20M- 90	1.0~13.0	28	28	90	49	SQ-ER20	1.0	M13	1.5	
	BT40-ER20M-150	1.0~13.0	28	28	150	49	SQ-ER20	1.0	M13	1.8	
	BT40-ER25M- 60	1.0~16.0	35	35	60	50	SQ-ER25	1.0	M18	1.2	
	BT40-ER25M- 90	1.0~16.0	35	35	90	50	SQ-ER25	1.0	M18	1.4	
	BT40-ER25M-150	1.0~16.0	35	35	150	50	SQ-ER25	1.0	M18	1.8	
50	BT50-ER11M- 90	1.0~7.0	16	16	90	33	SQ-ER11	0.5	M7	3.8	
	BT50-ER11M-120	1.0~7.0	16	16	120	33	SQ-ER11	0.5	M7	3.9	
	BT50-ER11M-165	1.0~7.0	16	16	165	33	SQ-ER11	0.5	M7	4.0	
	BT50-ER16M- 90	1.0~10.0	22	22	90	44.5	SQ-ER16	1.0	M10	3.8	
	BT50-ER16M-120	1.0~10.0	22	22	120	44.5	SQ-ER16	1.0	M10	4.0	
	BT50-ER16M-165	1.0~10.0	22	22	165	44.5	SQ-ER16	1.0	M10	4.2	
	BT50-ER20M- 75	1.0~13.0	28	28	75	49	SQ-ER20	1.0	M13	3.8	
	BT50-ER20M-105	1.0~13.0	28	28	105	49	SQ-ER20	1.0	M13	3.9	
	BT50-ER20M-165	1.0~13.0	28	28	165	49	SQ-ER20	1.0	M13	4.5	
	BT50-ER25M- 75	1.0~16.0	35	35	75	50	SQ-ER25	1.0	M18	3.9	
	BT50-ER25M-105	1.0~16.0	35	35	105	50	SQ-ER25	1.0	M18	4.1	
	BT50-ER25M-165	1.0~16.0	35	35	165	50	SQ-ER25	1.0	M18	4.4	

ER COLLET CHUCK

ER

DIN 69893/ISO 12164-1 HSK FORM A



ER Collet
Chuck

DIN 69893
- HSK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

Standard Type

TAPER No.	MODEL No.	RANGE	D	L	L2	NUT	중량(kg)	재고
32A	HSK32A-ER11-50	0.5 ~ 7.0	19	50	22	SQ-ER 11		
	HSK32A-ER16-60	0.5 ~ 10.0	28	60	26	SQ-ER 16		
40A	HSK40A-ER11-60	0.5 ~ 7.0	19	60	22	SQ-ER 11	0.40	●
	HSK40A-ER16-60	0.5 ~ 10.0	28	60	26	SQ-ER 16	0.50	●
	HSK40A-ER20-70	1.0 ~ 13.0	34	70	33	SQ-ER 20	0.80	●

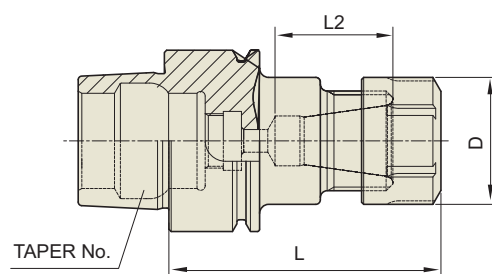
Slim Type

TAPER No.	MODEL No.	RANGE	D	L	L2	NUT	중량(kg)	재고
32A	HSK32A-ER8M-40	0.5 ~ 5.0	12	40	13	SQ-ER8M		
	HSK32A-ER11M-40	0.5 ~ 7.0	16	40	22	SQ-ER11M		
	HSK32A-ER16M-60	0.5 ~ 10.0	22	60	26	SQ-ER16M		
	HSK32A-ER20M-60	1.0 ~ 13.0	28	60	33	SQ-ER20M		
40A	HSK40A-ER11M-75	0.5 ~ 7.0	16	75	22	SQ-ER11M	0.40	●
	HSK40A-ER16M-80	0.5 ~ 10.0	22	80	26	SQ-ER16M	0.50	●
	HSK40A-ER20M-80	1.0 ~ 13.0	28	80	33	SQ-ER20M	0.70	●
	HSK40A-ER25M-80	1.0 ~ 16.0	35	80	40	SQ-ER25M	0.80	●

ER COLLET CHUCK

ER

DIN 69893/ISO 12164-1 HSK FORM E



DIN 69893 - HSK	Taper Accuracy	G Value 2.5	RPM 25,000	Coolant System AD
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ER Collet
Chuck

■ Standard Type

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	중량(kg)	재고
25E	HSK25E-ER11-40	0.5-7.0	19	40	20	SQ-ER11		
	HSK25E-ER16-50	0.5-10.0	22	50	26	SQ-ER16		
32E	HSK32E-ER11-50	0.5 ~ 7.0	19	50	22	SQ-ER11		
	HSK32E-ER16-60	0.5 ~ 10.0	28	60	26	SQ-ER16		
40E	HSK40E-ER11-60	0.5 ~ 7.0	19	60	22	SQ-ER11	0.40	
	HSK40E-ER16-60	0.5 ~ 10.0	28	60	26	SQ-ER16	0.50	
	HSK40E-ER20-70	1.0 ~ 13.0	34	70	33	SQ-ER20	0.80	

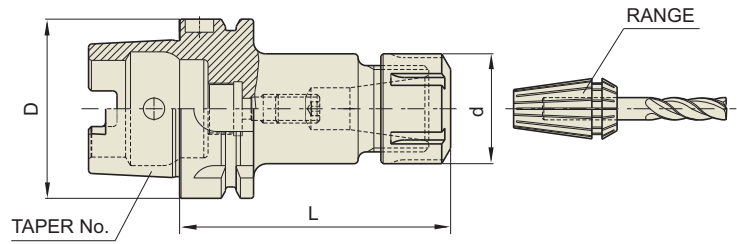
■ Slim Type

TAPER No.	MODEL No.	CLAMPING RANGE	D	L	L2	NUT / COLLET	중량(kg)	재고
25E	HSK25E-ER8M-35	0.5-5.0	12	35	13	SQ-ER8M/ER8		
	HSK25E-ER11M-40	0.5-7.0	16	40	20	SQ-ER11M/ER11		
32E	HSK32E-ER8M-40	0.5 ~ 5.0	12	40	13	SQ-ERM8/ER8		
	HSK32E-ER11M-40	0.5 ~ 7.0	16	40	22	SQ-ERM11/ER11		
	HSK32E-ER16M-60	0.5 ~ 10.0	22	60	26	SQ-ERM16/ER16		
	HSK32E-ER20M-60	1.0 ~ 13.0	28	60	33	SQ-ERM20/ER20		
40E	HSK40E-ER11M-75	0.5 ~ 7.0	16	75	22	SQ-ERM11/ER11	0.40	
	HSK40E-ER16M-80	0.5 ~ 10.0	22	80	26	SQ-ERM16/ER16	0.50	
	HSK40E-ER20M-80	1.0 ~ 13.0	28	80	33	SQ-ERM20/ER20	0.70	
	HSK40E-ER25M-80	1.0 ~ 16.0	35	80	40	SQ-ERM25/ER25	0.80	

ER COLLET CHUCK

ER

DIN 69893/ISO 121641-1 - HSK FORM A



ER Collet
Chuck

DIN69893 - HSK	Taper Accuracy AT3	G Value 6.3	RPM 12,000	Coolant System
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TAPER No.	MODEL No.	RANGE	d	D	L	중량(kg)	재고
50A	HSK 50A-ER16-100	0.5-10	28	50	100	0.70	
	HSK 50A-ER20-100	1-13	35	50	100	0.90	
	HSK 50A-ER25-100	1-16	42	50	100	1.20	
	HSK 50A-ER32-100	2-20	50	50	100	1.50	
63A	HSK 63A-ER16-100	0.5-10	28	63	100	1.20	●
	HSK 63A-ER20-100	1-13	35	63	100	1.50	●
	HSK 63A-ER25-100	1-16	42	63	100	1.80	●
	HSK 63A-ER32-100	2-20	50	63	100	2.00	●
	HSK 63A-ER40-120	3-26	63	63	120	2.30	●
100A	HSK100A-ER16-100	0.5-10	28	100	100	2.60	●
	HSK100A-ER20-100	1-13	35	100	100	2.70	●
	HSK100A-ER25-100	1-16	42	100	100	2.90	●
	HSK100A-ER32-100	2-20	50	100	100	3.10	●
	HSK100A-ER40-120	3-26	63	100	120	3.30	●

▶ 고발란싱급은 고객의 요청에 따라 G2/5 40,000rpm (G6.3/100,000rpm)으로도 제작 공급 가능합니다.

쿨런트용 NUT

	TYPE
	XSQ-RT16
	XSQ-RT20
	XSQ-RT25
	XSQ-RT32
	XSQ-RT40

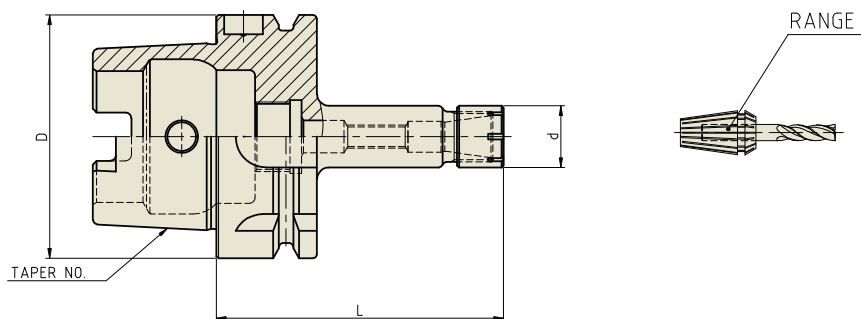
SEALING DISK

	TYPE
	DS/ER16
	DS/ER20
	DS/ER25
	DS/ER32
	DS/ER40

ER CHUCK (Slim Collet Chuck)

ER

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893
- HSK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

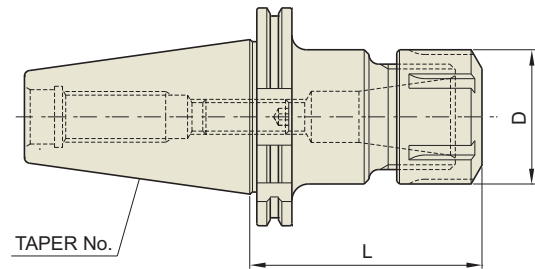
ER Collet
Chuck

TAPER No.	MODEL No.	D	C	C1	L	L1	H	COLLET	RANGE	G	중량(kg)	재고
50A	HSK 50A-ER11M-75	1.0~7.0	16	16	75	49	33	ER11	0.5	M7	0.3	
	HSK 50A-ER16M-85	1.0~10.0	22	22	85	59	44.5	ER16	1.0	M10	0.4	
	HSK 50A-ER20M-90	1.0~13.0	28	28	90	64	49	ER20	1.0	M13	0.8	
	HSK 50A-ER25M-105	1.0~16.0	35	35	105	79	50	ER25	1.0	M18	1.2	
63A	HSK 63A-ER11M-75	1.0~7.0	16	16	75	49	33	ER11	0.5	M7	0.8	
	HSK 63A-ER16M-85	1.0~10.0	22	22	85	59	44.5	ER16	1.0	M10	1.0	
	HSK 63A-ER20M-95	1.0~13.0	28	28	95	69	49	ER20	1.0	M7	1.2	
	HSK 63A-ER25M-105	1.0~16.0	35	35	105	79	50	ER25	1.0	M13	1.4	
100A	HSK100A-ER11M-85	1.0~7.0	16	16	85	56	33	ER11	0.5	M7	2.4	
	HSK100A-ER16M-95	1.0~10.0	22	22	90	66	44.5	ER16	1.0	M10	2.7	
	HSK100A-ER20M-100	1.0~13.0	28	28	100	71	49	ER20	1.0	M13	3.0	
	HSK100A-ER25M-120	1.0~16.0	35	35	120	91	50	ER25	1.0	M18	3.2	

ER CHUCK

ER

DIN 69871 - SK



ER Collet
Chuck

DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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STANDARD

TAPER No.	MODEL No.	RANGE	D	L	NUT	RANGE	중량(kg)	재고
30	SK30-ER11-55	0.5~10.0	19	55	ER11	0.5-7		
	SK30-ER16-55	0.5~10.0	28	55	ER16	0.5-10		
	SK30-ER20-55	1.0~13.0	34	55	ER20	1-13		
	SK30-ER25-55	1.0~16.0	42	55	ER25	1-16		
	SK30-ER32-60	2.0~20.0	50	60	ER32	2-20		
40	SK40-ER11-70	0.5~7.0	19	70	ER11	0.5-7		
	SK40-ER16-70	0.5~10.0	28	70	ER16	0.5-10		
	SK40-ER20-70	1.0~13.0	34	70	ER20	1-13		
	SK40-ER25-70	1.0~16.0	42	70	ER25	1-16		
	SK40-ER32-70	2.0~20.0	50	70	ER32	2-20		
	SK40-ER40-80	3.0~30.0	63	80	ER40	3-26		
50	SK50-ER16-70	0.5~10.0	28	70	ER16	0.5-10		
	SK50-ER20-70	1.0~13.0	34	70	ER20	1-13		
	SK50-ER25-70	1.0~16.0	42	70	ER25	1-16		
	SK50-ER32-70	2.0~20.0	50	70	ER32	2-20		
	SK50-ER40-80	3.0~30.0	63	80	ER40	3-26		

EXTENDED

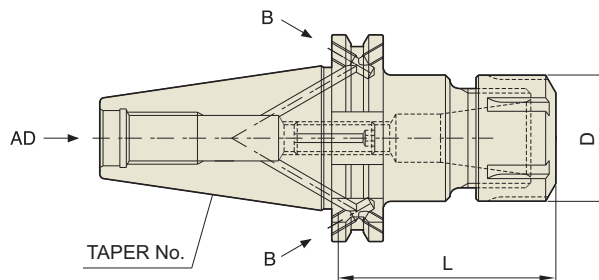
TAPER No.	MODEL No.	RANGE	D	L	NUT	RANGE	중량(kg)	재고
40	SK40-ER16-100	0.5~10.0	28	100	ER16	0.5-10		
	SK40-ER20-100	1.0~13.0	34	100	ER20	1-13		
	SK40-ER25-100	1.0~16.0	42	100	ER25	1-16		
	SK40-ER32-100	2.0~20.0	50	100	ER32	2-20		
50	SK50-ER16-100	0.5~10.0	28	100	ER16	0.5-10		
	SK50-ER20-100	1.0~13.0	34	100	ER20	1-13		
	SK50-ER25-100	1.0~16.0	42	100	ER25	1-16		
	SK50-ER32-100	2.0~20.0	50	100	ER32	2-20		
	SK50-ER40-100	3.0~30.0	63	100	ER40	3-26		

▶ 고발란싱급은 고객의 요청에 따라 G2/5 40,000rpm (G6,3/100,000rpm)으로도 제작 공급 가능합니다.

ER CHUCK

ER

DIN 69871 - SK



DIN 69871 - SK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD/B
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ER Collet
Chuck

STANDARD

TAPER No.	MODEL No.	RANGE	D	L	NUT	RANGE	중량(kg)	재고
40	SK40AD/B-ER11-70	0.5~7.0	19	70	ER11	0.5-7	0.80	
	SK40AD/B-ER16-70	0.5~10.0	28	70	ER16	0.5-10	0.90	
	SK40AD/B-ER20-70	1.0~13.0	34	70	ER20	1-13	1.20	
	SK40AD/B-ER25-70	1.0~16.0	42	70	ER25	1-16	1.30	
	SK40AD/B-ER32-70	2.0~20.0	50	70	ER32	2-20	1.50	
	SK40AD/B-ER40-80	3.0~30.0	63	80	ER40	3-26	1.70	
50	SK50AD/B-ER16-70	0.5~10.0	28	70	ER16	0.5-10	2.80	
	SK50AD/B-ER20-70	1.0~13.0	34	70	ER20	1-13	2.90	
	SK50AD/B-ER25-70	1.0~16.0	42	70	ER25	1-16	3.10	
	SK50AD/B-ER32-70	2.0~20.0	50	70	ER32	2-20	3.30	
	SK50AD/B-ER40-80	3.0~30.0	63	80	ER40	3-26	3.50	

EXTENDED

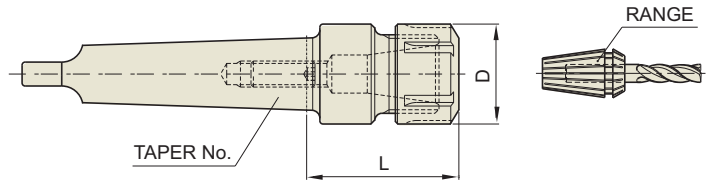
TAPER No.	MODEL No.	RANGE	D	L	NUT	RANGE	중량(kg)	재고
40	SK40AD/B-ER16-100	0.5~10.0	28	100	ER16	0.5-10	1.05	
	SK40AD/B-ER20-100	1.0~13.0	34	100	ER20	1-13	1.13	
	SK40AD/B-ER25-100	1.0~16.0	42	100	ER25	1-16	1.35	
	SK40AD/B-ER32-100	2.0~20.0	50	100	ER32	2-20	1.43	
50	SK50AD/B-ER16-100	0.5~10.0	28	100	ER16	0.5-10	2.90	
	SK50AD/B-ER20-100	1.0~13.0	34	100	ER20	1-13	3.10	
	SK50AD/B-ER25-100	1.0~16.0	42	100	ER25	1-16	3.30	
	SK50AD/B-ER32-100	2.0~20.0	50	100	ER32	2-20	3.50	
	SK50AD/B-ER40-100	3.0~26.0	63	100	ER40	3-26	3.80	

- ▶ 고발람상급은 고객의 요청에 따라 G2/5 40,000rpm (G6,3/100,000rpm)으로도 제작 공급 가능합니다.
- ▶ 가공 조건에 따라 ER NUT교체 가능 합니다.

ER COLLET CHUCK

ER

DIN 228 - MTA



DIN 228
- MTA

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

■ 일반급

TAPER No.	MODEL No.	RANGE	D	L	NUT	COLLET	중량(kg)	재고
1	MTA1-ER11	0.5-7.0	19	35	ER11	ER11	0.30	
	MTA1-ER16	0.5-10	28	40	ER16	ER16	0.35	
2	MTA2-ER20	1-13	34	50	ER20	ER20	0.50	
	MTA2-ER25	1-16	42	50	ER25	ER25	0.60	
3	MTA3-ER25	1-16	42	60	ER25	ER25	0.60	
	MTA3-ER32	2-20	50	70	ER32	ER32	0.65	
4	MTA4-ER20	1-13	34	60	ER20	ER20	1.00	
	MTA4-ER25	1-16	42	60	ER25	ER25	1.10	
	MTA4-ER32	2-20	50	65	ER32	ER32	1.30	●
	MTA4-ER40	3-30	63	80	ER40	ER40	1.50	
5	MTA5-ER32	2-20	50	70	ER32	ER32	2.20	●
	MTA5-ER40	3-30	63	80	ER40	ER40	2.40	●
	MTA5-ER50	6-34	78	80	ER50	ER50	2.80	

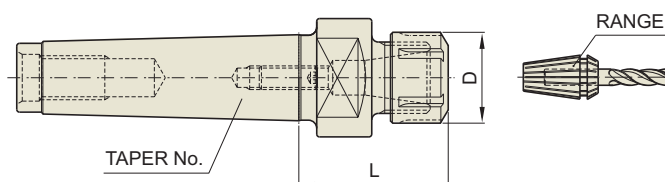
■ 정밀급

TAPER No.	MODEL No.	RANGE	D	L	NUT	COLLET	중량(kg)	재고
1	MTA1-ER11G	0.5-7.0	19	35	XSQ-R11	ER11	0.30	
	MTA1-ER16G	0.5-10	28	40	XSQ-R16	ER16	0.35	
2	MTA2-ER20G	1-13	34	50	XSQ-R20	ER20	0.50	
	MTA2-ER25G	1-16	42	50	XSQ-R25	ER25	0.60	
3	MTA3-ER25G	1-16	42	60	XSQ-R25	ER25	0.60	
	MTA3-ER32G	2-20	50	70	XSQ-R32	ER32	0.65	
4	MTA4-ER20G	1-13	34	60	XSQ-R20	ER20	1.00	
	MTA4-ER25G	1-16	42	60	XSQ-R25	ER25	1.10	
	MTA4-ER32G	2-20	50	65	XSQ-R32	ER32	1.30	
	MTA4-ER40G	3-30	63	80	XSQ-R40	ER40	1.50	
5	MTA5-ER32G	2-20	50	70	XSQ-R32	ER32	2.20	
	MTA5-ER40G	3-30	63	80	XSQ-R40	ER40	2.40	
	MTA5-ER50G	6-34	78	80	XSQ-R50	ER50	2.80	

ER COLLET CHUCK

ER

DIN 228 - MTB



DIN 228 - MTB	Taper Accuracy AT3	G Value	RPM	Coolant System
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ER Collet
Chuck

■ 일반급

TAPER No.	MODEL No.	RANGE	D	L	NUT	COLLET	중량(kg)	재고
1	MTB1-ER16	1-10	28	40	ER16	ER16	0.35	
2	MTB2-ER20	1-13	34	50	ER20	ER20	0.50	
	MTB2-ER25	1-16	42	50	ER25	ER25	0.60	
3	MTB3-ER25	1-16	42	60	ER25	ER25	0.60	
	MTB3-ER32	2-20	50	70	ER32	ER32	0.65	
4	MTB4-ER32	2-20	50	70	ER32	ER32	1.10	
	MTB4-ER40	3-30	63	80	ER40	ER40	1.30	
5	MTB5-ER32	2-20	50	70	ER32	ER32	2.00	
	MTB5-ER40	3-30	63	80	ER40	ER40	2.20	
	MTB5-ER50	6-34	78	80	ER50	ER50	2.60	

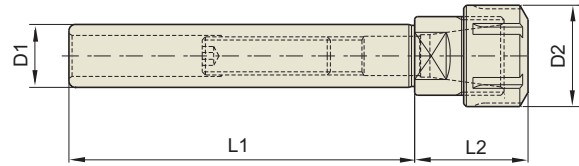
■ 정밀급

TAPER No.	MODEL No.	RANGE	D	L	NUT	COLLET	중량(kg)	재고
1	MTB1-ER16G	1-10	28	40	XSQ-R16	ER16	0.35	
2	MTB2-ER20G	1-13	34	50	XSQ-R20	ER20	0.50	
	MTB2-ER25G	1-16	42	50	XSQ-R25	ER25	0.60	
3	MTB3-ER25G	1-16	42	60	XSQ-R25	ER25	0.60	
	MTB3-ER32G	2-20	50	70	XSQ-R32	ER32	0.65	
4	MTB4-ER32G	2-20	50	70	XSQ-R32	ER32	1.10	
	MTB4-ER40G	3-30	63	80	XSQ-R40	ER40	1.30	
5	MTB5-ER32G	2-20	50	70	XSQ-R32	ER32	2.00	
	MTB5-ER40G	3-30	63	80	XSQ-R40	ER40	2.20	
	MTB5-ER50G	6-34	78	80	XSQ-R50	ER50	2.60	

ER CHUCK

ER

STRAIGHT-K



K	Taper Accuracy AT3	G Value	RPM	Coolant System
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■ 일반급

TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	COLLET	중량(kg)	재고
16	K16-ER11-100	0.5-7.0	16	19	100	32	ER11	ER11+ET1-12	0.15	●
	K16-ER16-100	0.5-10.0	16	28	100	36	ER16	ER16+ET1-16	0.18	●
20	K20-ER16-100	0.5-10.0	20	28	100	36	ER16	ER16+ET1-16	0.25	●
	K20-ER20-100	1.0-13.0	20	34	100	40	ER20	ER20+ET1-20	0.29	●
	K20-ER25-100	1.0-16.0	20	42	100	50	ER25	ER25+ET1-25	0.35	●
25	K25-ER20-100	1.0-13.0	25	34	100	40	ER20	ER20+ET1-20	0.40	●
	K25-ER25-100	1.0-16.0	25	42	100	50	ER25	ER25+ET1-25	0.45	●
32	K32-ER16-100	0.5-10.0	32	28	100	36	ER16	ER16+ET1-16	0.50	●
	K32-ER20-100	1.0-13.0	32	34	100	40	ER20	ER20+ET1-20	0.66	●
	K32-ER25-100	1.0-16.0	32	42	100	50	ER25	ER25+ET1-25	0.75	●
	K32-ER32-100	2.0-20.0	32	50	100	58	ER32	ER32+ET1-32	1.00	●

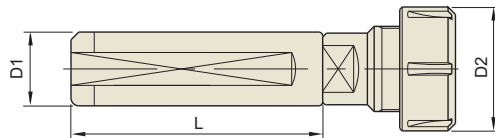
■ 정밀급

TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	COLLET	중량(kg)	재고
16	K16-ER11G-100	0.5-7.0	16	19	100	32	XSQ-R11	ER11+ET1-12	0.15	
	K16-ER16G-100	0.5-10.0	16	28	100	36	XSQ-R16	ER16+ET1-16	0.18	
20	K20-ER16G-100	0.5-10.0	20	28	100	36	XSQ-R16	ER16+ET1-16	0.25	
	K20-ER20G-100	1.0-13.0	20	34	100	40	XSQ-R20	ER20+ET1-20	0.29	
	K20-ER25G-100	1.0-16.0	20	42	100	50	XSQ-R25	ER25+ET1-25	0.35	
25	K25-ER20G-100	1.0-13.0	25	34	100	40	XSQ-R20	ER20+ET1-20	0.40	
	K25-ER25G-100	1.0-16.0	25	42	100	50	XSQ-R25	ER25+ET1-25	0.45	
32	K32-ER16G-100	0.5-10.0	32	28	100	36	XSQ-R16	ER16+ET1-16	0.50	
	K32-ER20G-100	1.0-13.0	32	34	100	40	XSQ-R20	ER20+ET1-20	0.66	
	K32-ER25G-100	1.0-16.0	32	42	100	50	XSQ-R25	ER25+ET1-25	0.75	
	K32-ER32G-100	2.0-20.0	32	50	100	58	XSQ-R32	ER32+ET1-32	1.00	

TENSION ER CHUCK - TAP 작업전용

ERT

STRAIGHT-K



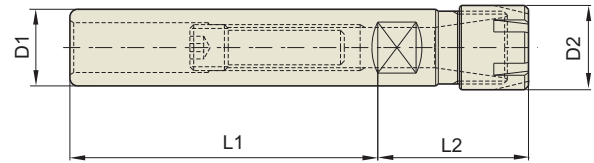
K	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	RANGE	D1	D2	L	NUT	중량(kg)	재고
20	K20-ERT16-70	0.5-10.0	20	28	70	ER16	0.4	
25	K25-ERT16-70	0.5-10.0	25	28	70	ER16	0.45	
	K25-ERT20-80	1.0-13.0	25	34	80	ER20	0.50	
32	K32-ERT16-70	0.5-10.0	32	28	70	ER16	0.70	
	K32-ERT20-80	1.0-13.0	32	34	80	ER20	0.80	
	K32-ERT25-80	1.0-16.0	32	42	80	ER25	1.00	
	K32-ERT32-80	2.0-20.0	32	50	80	ER32	1.20	

EXTENSION ER COLLET CHUCK - SLIM TYPE

ER

STRAIGHT-K (SLIM TYPE)



K	Taper Accuracy AT3	G Value	RPM	Coolant System
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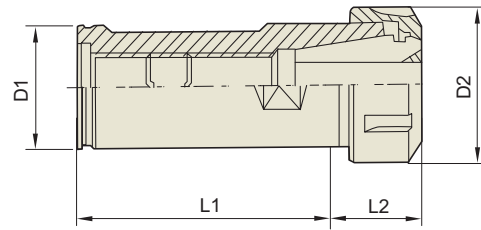
ER Collet Chuck

TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	중량(kg)	재고
K12	K12-ER 8M- 70	0.5~5.0	12	12	70	25	XSQ/ERM8	0.10	●
	K12-ER8M-100	0.5~5.0	12	12	100	25	XSQ/ERM8		
	K12-ER8M-150	0.5~5.0	12	12	150	25	XSQ/ERM8		
	K12-ER8M-200	0.5~5.0	12	12	200	25	XSQ/ERM8		
	K12-ER8M-250	0.5~5.0	12	12	250	25	XSQ/ERM8		
	K12-ER8M-300	0.5~5.0	12	12	300	25	XSQ/ERM8		
K16	K16-ER11M-100	0.5~7.0	16	16	100	32	XSQ/ERM11	0.22	●
	K16-ER11M-140	0.5~7.0	16	16	140	32	XSQ/ERM11		
	K16-ER11M-200	0.5~7.0	16	16	200	32	XSQ/ERM11		
	K16-ER11M-250	0.5~7.0	16	16	250	32	XSQ/ERM11		
	K16-ER11M-300	0.5~7.0	16	16	300	32	XSQ/ERM11		
	K16-ER16M-100	0.5~7.0	16	16	100	32	XSQ/ERM16		
	K16-ER16M-140	0.5~7.0	16	16	140	32	XSQ/ERM16		
	K16-ER16M-200	0.5~7.0	16	16	200	32	XSQ/ERM16		
	K16-ER16M-250	0.5~7.0	16	16	250	32	XSQ/ERM16		
	K16-ER16M-300	0.5~7.0	16	16	300	32	XSQ/ERM16		
K20	K20-ER16M-100	0.5~10.0	20	20	100	41	XSQ/ERM16	0.32	●
	K20-ER16M-140	0.5~10.0	20	20	140	41	XSQ/ERM16		
	K20-ER16M-200	0.5~10.0	20	20	200	41	XSQ/ERM16		
	K20-ER16M-250	0.5~10.0	20	20	250	41	XSQ/ERM16		
	K20-ER16M-300	0.5~10.0	20	20	300	41	XSQ/ERM16		
	K20-ER20M-100	1.0~13.0	20	20	100	41	XSQ/ERM20	0.35	
	K20-ER20M-140	1.0~13.0	20	20	140	41	XSQ/ERM20		
	K20-ER20M-200	1.0~13.0	20	20	200	41	XSQ/ERM20		
K25	K25-ER16M-100	0.5~10.0	25	25	100	41	XSQ/ERM16	0.45	●
	K25-ER16M-140	0.5~10.0	25	25	140	41	XSQ/ERM16		
	K25-ER16M-200	0.5~10.0	25	25	200	41	XSQ/ERM16		
	K25-ER16M-250	0.5~10.0	25	25	250	41	XSQ/ERM16		
	K25-ER16M-300	0.5~10.0	25	25	300	41	XSQ/ERM16		
	K25-ER20M-140	1.0~13.0	25	25	140	41	XSQ/ERM20	0.52	
	K25-ER20M-200	1.0~13.0	25	25	200	41	XSQ/ERM20		
	K25-ER20M-250	1.0~13.0	25	25	250	41	XSQ/ERM20		
	K25-ER20M-300	1.0~13.0	25	25	300	41	XSQ/ERM20		
	K25-ER25M-140	1.0~16.0	25	25	140	45	XSQ/ERM25	0.55	
	K25-ER25M-200	1.0~16.0	25	25	200	45	XSQ/ERM25		
	K25-ER25M-250	1.0~16.0	25	25	250	45	XSQ/ERM25		
K32	K32-ER20M-150	1.0~13.0	32	32	150		XSQ/ERM20		
	K32-ER20M-200	1.0~13.0	32	32	200		XSQ/ERM20		
	K32-ER20M-250	1.0~13.0	32	32	250		XSQ/ERM20		
	K32-ER20M-300	1.0~13.0	32	32	300		XSQ/ERM20		
	K32-ER25M-150	1.0~16.0	32	32	150		XSQ/ERM25		
	K32-ER25M-200	1.0~16.0	32	32	200		XSQ/ERM25		
	K32-ER25M-250	1.0~16.0	32	32	250		XSQ/ERM25		
	K32-ER25M-300	1.0~16.0	32	32	300		XSQ/ERM25		
	K32-ER25M-350	1.0~16.0	32	32	350		XSQ/ERM25		

ER COLLET CHUCK CNC LATHE - NC

ER

NC- for CNC LATHE



NC	Taper Accuracy AT3	G Value	RPM	Coolant System
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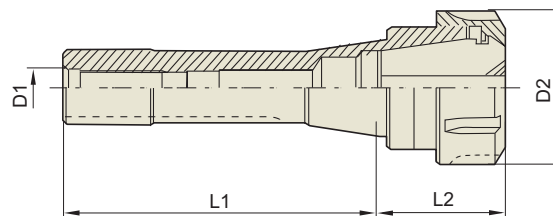
■ 일반급

TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	COLLET	중량(kg)	재고
25	NC25-ER11	0.5-7.0	25	19	65	32	SQ-ER11	ER11	0.30	
	NC25-ER16	0.5-10.0	25	28	65	32	SQ-ER16	ER16	0.45	
	NC25-ER20	1.0-13.0	25	34	65	32	SQ-ER20	ER20	0.50	●
	NC25-ER25	1.0-16.0	25	42	65	32	SQ-ER25	ER25	0.55	●
32	NC32-ER20	1.0-13.0	32	34	70	32	SQ-ER20	ER20	0.60	
	NC32-ER25	1.0-16.0	32	42	70	38	SQ-ER25	ER25	0.70	●
	NC32-ER32	2.0-20.0	32	50	60	38	SQ-ER32	ER32	0.75	●
40	NC40-ER32	2.0-20.0	40	50	75	53	SQ-ER32	ER32	1.25	●
	NC40-ER40	3.0-30.0	40	63	75	53	SQ-ER40	ER40	1.30	

■ 정밀급

TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	COLLET	중량(kg)	재고
25	NC25-ER11G	0.5-7.0	25	19	65	32	XSQ-R11	ER11	0.30	
	NC25-ER16G	0.5-10.0	25	28	65	32	XSQ-R16	ER16	0.45	
	NC25-ER20G	1.0-13.0	25	34	65	32	XSQ-R20	ER20	0.50	
	NC25-ER25G	1.0-16.0	25	42	65	32	XSQ-R25	ER25	0.55	
32	NC32-ER20G	1.0-13.0	32	34	70	32	XSQ-R20	ER20	0.60	
	NC32-ER25G	1.0-16.0	32	42	70	38	XSQ-R25	ER25	0.70	
	NC32-ER32G	2.0-20.0	32	50	60	38	XSQ-R32	ER32	0.75	
40	NC40-ER32G	2.0-20.0	40	50	75	53	XSQ-R32	ER32	1.25	
	NC40-ER40G	3.0-30.0	40	63	75	53	XSQ-R40	ER40	1.30	

ER COLLET CHUCK BRIDGEPORT-R8

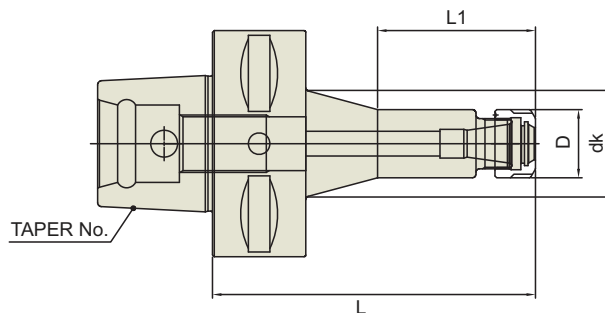


TAPER No.	MODEL No.	RANGE	D1	D2	L1	L2	NUT	COLLET	중량(kg)	재고
R8	R8-ER32	2-20.0	U7/16	50	101.5	50	SQ-ER32	ER32+ET1-32	1.00	
	R8-ER40	3-30.0	U7/16	63	101.5	75	SQ-ER40	ER40+ET1-40	1.20	

ER COLLET CHUCK **NEW**

ER

ISO 26623-CAPT0 (POLYGONAL SHANK)



ISO 26623
- CAPT0

Taper
Accuracy

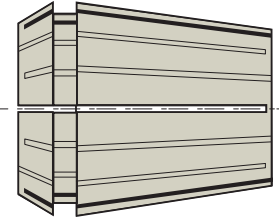
G Value
6.3

RPM
15,000

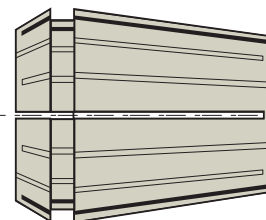
Coolant
System
AD

ER Collet
Chuck

TAPER No.	Model No.	Collets size	DT	D	L	dk	L1	max-Ø	중량(kg)	재고
PSG3	PSG3-ER11-40	11	32	19	40	-	-	7		
	PSG3-ER11-60	11	32	19	60	-	-	7		
	PSG3-ER16-50	16	32	28	50	-	-	10		
	PSG3-ER16-70	16	32	28	70	-	-	10		
	PSG3-ER20-55	20	32	34	55	-	-	13		
	PSG3-ER20-70	20	32	34	70	-	-	13		
PSG4	PSG4-ER11-50	11	32	19	50	-	-	7		
	PSG4-ER11-60	11	32	19	60	28	10	7		
	PSG4-ER16-55	16	40	28	55	-	-	10		
	PSG4-ER16-70	16	40	28	70	-	-	10		
	PSG4-ER20-60	20	40	34	60	-	-	13		
	PSG4-ER20-80	20	40	34	80	-	-	13		
PSG5	PSG5-ER11-55	11	50	19	55	-	-	7		
	PSG5-ER11-70	11	50	19	70	34	20	7		
	PSG5-ER16-60	16	50	28	60	-	-	10		
	PSG5-ER16-70	16	50	28	70	-	-	10		
	PSG5-ER20-60	20	50	34	60	-	-	13		
	PSG5-ER20-80	20	50	34	80	-	-	13		
PSG6	PSG6-ER11-60	11	63	19	60	-	-	7		
	PSG6-ER11-80	11	63	19	80	34	20	7		
	PSG6-ER16-65	16	63	28	65	-	-	10		
	PSG6-ER16-90	16	63	28	90	-	-	10		
	PSG6-ER20-65	20	63	34	65	-	-	13		
	PSG6-ER20-100	20	63	34	100	-	-	13		
PSG8	PSG8-ER16-70	16	80	28	70	34	5	10		
	PSG8-ER16-100	16	80	28	100	34	20	10		
	PSG8-ER20-70	20	80	34	70	42	5	13		
	PSG8-ER20-100	20	80	34	100	42	20	13		
	PSG8X-ER16-80	16	80	28	80	34	5	10		
	PSG8X-ER16-120	16	80	28	120	40	20	10		
	PSG8X-ER20-80	20	80	34	80	42	5	13		
	PSG8X-ER20-120	20	80	34	120	50	20	13		



TYPE ER 8		TYPE ER11		TYPE ER16		TYPE ER20	
CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.
1.0-0.5	208010	1.0-0.5	211010	1.0-0.5	216010	2-1	220020
1.5-1.0	208015	1.5-1.0	211015	2.0-1.0	216020	3-2	220030
2.0-1.5	208020	2.0-1.5	211020	3.0-2.0	216030	4-3	220040
2.5-2.0	208025	2.5-2.0	211025	4.0-3.0	216040	5-4	220050
3.0-2.5	208030	3.0-2.5	211030	5.0-4.0	216050	6-5	220060
3.5-3.0	208035	3.5-3.0	211035	6.0-5.0	216060	7-6	220070
4.0-3.5	208040	4.0-3.5	211040	7.0-6.0	216070	8-7	220080
4.5-4.0	208045	4.5-4.0	211045	8.0-7.0	216080	9-8	220090
5.0-4.5	208050	5.0-4.5	211050	9.0-8.0	216090	10-9	220100
		5.5-5.0	211055	10.0-9.0	216100	11-10	220120
		6.0-5.5	211060	1.5-1.0	216015	12-11	220130
		6.5-6.0	211065	2.5-2.0	216025	13-12	220140
		7.0-6.5	211070			1.0-0.5	220010
						1.5-1.0	220015
						2.5-2.0	220025
STANDARD SET	208000	STANDARD SET	211000	STANDARD SET	216000	STANDARD SET	220000
Ø 1.0-5.0mm		Ø 1.0-7.0mm		Ø 1.0-10.0mm		Ø 2.0-13.0mm	
9PCS		13PCS		10PCS		12PCS	
WOODEN TRAY ZWT 8	108110	WOODEN TRAY ZWT 11	011110	WOODEN TRAY ZWT 16	016110	WOODEN TRAY ZWT 20	020110

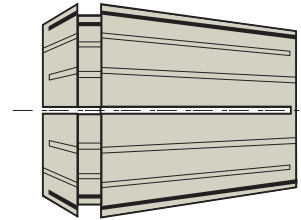


TYPE ER25		TYPE ER32		TYPE ER40		TYPE ER50	
CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.	CLAMPING CAPACITY	ITEM No.
2-1	225020	3-2	232030	4-3	240040	12-10	250120
3-2	225030	4-3	232040	5-4	240050	14-12	250140
4-3	225040	5-4	232050	6-5	240060	16-14	250160
5-4	225050	6-5	232060	7-6	240070	18-16	250180
6-5	225060	7-6	232070	8-7	240080	20-18	250200
7-6	225070	8-7	232080	9-8	240090	22-20	250220
8-7	225080	9-8	232090	10-9	240100	24-22	250240
9-8	225090	10-9	232100	11-10	240110	26-24	250260
10-9	225100	11-10	232110	12-11	240120	28-26	250280
11-10	225110	12-11	232120	13-12	240130	30-28	250300
12-11	225120	13-12	232130	14-13	240140	32-30	250320
13-12	225130	14-13	232140	15-14	240150	34-32	250340
14-13	225140	15-14	232150	16-15	240160	6-4	250060
15-14	225150	16-15	232160	17-16	240170	8-6	250080
16-15	225160	17-16	232170	18-17	240180	10-8	250100
1.0-1.5	225010	18-17	232180	19-18	240190	25-23	250250
1.5-1.0	225015	19-18	232190	20-19	240200		
2.5-2.0	225025	20-19	232200	21-20	240210		
		2.0-1.0	232020	22-21	240220		
		2.5-2.0	232025	23-22	240230		
				24-23	240240		
				25-24	240250		
				26-25	240260		
				3-2	240030		
				27-26	240270		
				28-27	240280		
				29-28	240290		
				30-29	240300		
STANDARD SET	225000	STANDARD SET	232000	STANDARD SET	240000	STANDARD SET	250000
Ø 2.0-16.0mm		Ø 3.0-20.0mm		Ø 4.0-26.0mm		Ø 12.0-34.0mm	
15PCS		18PCS		23PCS		12PCS	
WOODEN TRAY ZWT 25	025110	WOODEN TRAY ZWT 32	032110	WOODEN TRAY ZWT 40	040110	WOODEN TRAY ZWT50	050110

ER COLLET - GER (고정밀형)

GER

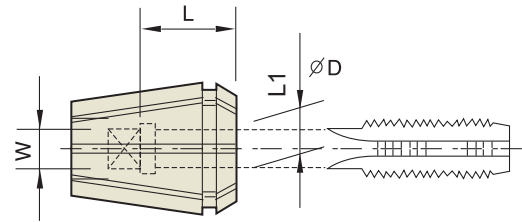
(원산지 : 독일)



* T.I.R : $\leq 0.005\text{mm}$ at 3D

Unit : mm

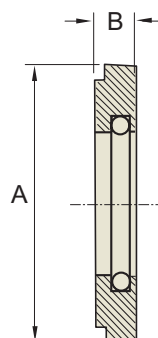
TYPE GER 11-AA		TYPE GER 20-AA		TYPE GER 25-AA		TYPE GER 32-AA		TYPE GER 40-AA	
CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.	CLAMPING RANGE	CODE No.
1.0-0.5	111010	2.0-1.0	120020	2.0-1.0	125020	3.0-2.0	132030	4.0-3.0	140040
1.5-1.0	111015	3.0-2.0	120030	3.0-2.0	125030	4.0-3.0	132040	5.0-4.0	140050
2.0-1.5	111020	4.0-3.0	120040	4.0-3.0	125040	5.0-4.0	132050	6.0-5.0	140060
2.5-2.0	111025	5.0-4.0	120050	5.0-4.0	125050	6.0-5.0	132060	7.0-6.0	140070
3.0-2.5	111030	6.0-5.0	120060	6.0-5.0	125060	7.0-6.0	132070	8.0-7.0	140080
3.5-3.0	111035	7.0-6.0	120070	7.0-6.0	125070	8.0-7.0	132080	9.0-8.0	140090
4.0-3.5	111040	8.0-7.0	120080	8.0-7.0	125080	9.0-8.0	132090	10.0-9.0	140100
4.5-4.0	111045	9.0-8.0	120090	9.0-8.0	125090	10.0-9.0	132100	11.0-10.0	140110
5.0-4.5	111050	10.0-9.0	120100	10.0-9.0	125100	11.0-10.0	132110	12.0-11.0	140120
5.5-5.0	111055	11.0-10.0	120120	11.0-10.0	125110	12.0-11.0	132120	13.0-12.0	140130
6.0-5.5	111060	12.0-11.0	120130	12.0-11.0	125120	13.0-12.0	132130	14.0-13.0	140140
6.5-6.0	111065	13.0-12.0	120140	13.0-12.0	125130	14.0-13.0	132140	15.0-14.0	140150
7.0-6.5	111070	1.0-0.5	120010	14.0-13.0	125140	15.0-14.0	132150	16.0-15.0	140160
TYPE GER 16-AA		1.5-1.0	120015	15.0-14.0	125150	16.0-15.0	132160	17.0-16.0	140170
		2.5-2.0	120025	16.0-15.0	125160	17.0-16.0	132170	18.0-17.0	140180
CLAMPING RANGE	CODE No.			1.0-1.5	125010	18.0-17.0	132180	19.0-18.0	140190
				1.5-1.0	125015	19.0-18.0	132190	20.0-19.0	140200
1.0-0.5	116010			2.5-2.0	125025	20.0-19.0	132200	21.0-20.0	140210
2.0-1.0	116020					2.0-1.0	132020	22.0-21.0	140220
3.0-2.0	116030					2.5-2.0	132025	23.0-22.0	140230
4.0-3.0	116040							24.0-23.0	140240
5.0-4.0	116050							25.0-24.0	140250
6.0-5.0	116060							26.0-25.0	140260
7.0-6.0	116070							3.0-2.0	140030
8.0-7.0	116080							27.0-26.0	140270
9.0-8.0	116090							28.0-27.0	140280
10.0-9.0	116100							29.0-28.0	140290
1.5-1.0	116015							30.0-29.0	140300
2.5-2.0	116025								

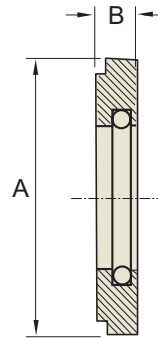


RDT 16				RDT 20				RDT 25				RDT 32				RDT 40			
TAP	Ø	W	L	TAP	Ø	W	L	TAP	Ø	W	L	TAP	Ø	W	L	TAP	Ø	W	L
M2	3.0	2.5	15																
M3	4.0	3.2	15	M3	4.0	3.2	15	M3	4.0	3.2	15								
M4	5.0	4.0	15	M4	5.0	4.0	15	M4	5.0	4.0	15	M4	5.0	4.0	15				
M5	5.5	4.5	15	M5	5.5	4.5	15	M5	5.5	4.5	15	M5	5.5	4.5	15				
M6	6.0	4.5	15	M6	6.0	4.5	15	M6	6.0	4.5	15	M6	6.0	4.5	15				
M8	6.2	5.0	15	M8	6.2	5.0	20	M8	6.2	5.0	20	M8	6.2	5.0	20	M8	6.2	5.0	20
				M10	7.0	5.5	20	M10	7.0	5.5	20	M10	7.0	5.5	20	M10	7.0	5.5	20
								M12	8.5	6.5	20	M12	8.5	6.5	20	M12	8.5	6.5	25
								M14	10.5	8.0	20	M14	10.5	8.0	20	M14	10.5	8.0	25
												M16	12.5	10.0	20	M16	12.5	10.0	25
												M18	14.0	11.0	20	M18	14.0	11.0	25
																M20	15.0	12.0	28
																M22	17.0	13.0	28
																M24	19.0	15.0	28

▶TAP전용 ER COLLET입니다.

▶M2~M24 까지의 다양한 SIZE의 TAP을 사용하실 수 있습니다.





DS / ER 32				DS / ER 40			
치수	A : 27.0mm B : 4.0mm	치수	A : 27.0mm B : 4.0mm	치수	A : 33.5mm B : 4.0mm	치수	A : 33.5mm B : 4.0mm
CAPACITY	ITEM No.	CAPACITY	ITEM No.	CAPACITY	ITEM No.	CAPACITY	ITEM No.
3.5-3.0	332 035	17.5-17.0	332 175	3.5-3.0	340 035	17.5-17.0	340 175
4.0-3.5	332 040	18.0-17.5	332 180	4.0-3.5	340 040	18.0-17.5	340 180
4.5-4.0	332 450	18.5-18.0	332 185	4.5-4.0	340 045	18.5-18.0	340 185
5.0-4.5	332 500	19.0-18.5	332 190	5.0-4.5	340 050	19.0-18.5	340 190
5.5-5.0	332 550	19.5-19.0	332 195	5.5-5.0	340 055	19.5-19.0	340 195
6.0-5.5	332 600	20.0-19.5	332 200	6.0-5.5	340 060	20.0-19.5	340 200
6.5-6.0	332 650			6.5-6.0	340 065	20.5-20.0	340 205
7.0-6.5	332 700			7.0-6.5	340 070	21.0-20.5	340 210
7.5-7.0	332 750			7.5-7.0	340 075	21.5-21.0	340 215
8.0-7.5	332 800			8.0-7.5	340 080	22.0-21.5	340 220
8.5-8.0	332 850			8.5-8.0	340 085	22.5-22.0	340 225
9.0-8.5	332 900			9.0-8.5	340 090	23.0-22.5	340 230
9.5-9.0	332 950			9.5-9.0	340 095	23.5-23.0	340 235
10.0-9.5	332 100			10.0-9.5	340 100	24.0-23.5	340 240
10.5-10.0	332 105			10.5-10.0	340 105	24.5-24.0	340 245
11.0-10.5	332 110			11.0-10.5	340 110	25.0-24.5	340 250
11.5-11.0	332 115			11.5-11.0	340 115	25.5-25.0	340 255
12.0-11.5	332 120			12.0-11.5	340 120	26.0-25.5	340 260
12.5-12.0	332 125			12.5-12.0	340 125		
13.0-12.5	332 130			13.0-12.5	340 130		
13.5-13.0	332 135			13.5-13.0	340 135		
14.0-13.5	332 140			14.0-13.5	340 140		
14.5-14.0	332 145	COMPLETE SET		14.5-14.0	340 145	COMPLETE SET	
15.0-14.5	332 150	332 000		15.0-14.5	340 150	340 000	
15.5-15.0	332 155	Ø 3.5-20.0mm		15.5-15.0	340 155	Ø 3.5-26.0mm	
16.0-15.5	332 160	34 PCS		16.0-15.5	340 160	46 PCS	
16.5-16.0	332 165	WOODEN TRAY DSR/32	032 130	16.5-16.0	340 165	WOODEN TRAY DSR/40	040 130
17.0-16.5	332 170			17.0-16.5	340 170		

ER NUT

DIN 6499/ISO 15488

ER

SQ-ER (표준형)



MODEL NO.	Thread	Dia.	Length
SQ-ER11	M14 × 0.75	19.0	12.0
SQ-ER16	M22 × 1.50	28.0	18.0
SQ-ER20	M25 × 1.50	34.0	19.5

SQ-ER (표준형)



MODEL NO.	Thread	Dia.	Length
SQ-ER25	M32 × 1.50	42.0	20.5
SQ-ER32	M40 × 1.50	50.0	23.0
SQ-ER40	M50 × 1.50	63.0	26.0
SQ-ER50	M64 × 2.00	78.0	35.0

XSQ-R (정밀급)



MODEL NO.	Thread	Dia.	Length
XSQ -R11	M14 × 0.75	19.0	12.0
XSQ -R16	M22 × 1.50	28.0	18.0
XSQ -R20	M25 × 1.50	34.0	19.5

XSQ-RU (정밀급)



MODEL NO.	Thread	Dia.	Length
XSQ-RU25	M32 × 1.50	42.0	20.5
XSQ-RU32	M40 × 1.50	50.0	23.0
XSQ-RU40	M50 × 1.50	63.0	26.0
XSQ-RU50	M64 × 2.00	78.0	35.0

XSQ-RH (열린 Groove형)



MODEL NO.	Thread	Dia.	Length
XSQ-RH11	M14 × 0.75	19.0	12.0
XSQ-RH16	M22 × 1.50	32.0	18.0
XSQ-RH20	M25 × 1.50	35.0	19.5
XSQ-RH25	M32 × 1.50	42.0	20.5
XSQ-RH32	M40 × 1.50	50.0	23.0
XSQ-RH40	M50 × 1.50	63.0	26.0



XSQ-RT (방수형)

MODEL NO.	Thread	Dia.	Length
XSQ-RT16	M22 × 1.50	28.0	22.5
XSQ-RT20	M25 × 1.50	34.0	24.0



XSQ-RUT (방수형)

MODEL NO.	Thread	Dia.	Length
XSQ-RUT16	M22 × 1.50	32.0	22.5
XSQ-RUT20	M25 × 1.50	35.0	24.0
XSQ-RUT25	M32 × 1.50	42.0	25.0
XSQ-RUT32	M40 × 1.50	50.0	27.5
XSQ-RUT40	M50 × 1.50	63.0	30.5



XSQ-RSU (Bearing Type)

MODEL NO.	Thread	Dia.	Length
XSQ-RSU16	M22 × 1.50	32.0	18.0
XSQ-RSU20	M25 × 1.50	35.0	20.0
XSQ-RSU25	M32 × 1.50	42.0	20.5
XSQ-RSU32	M40 × 1.50	50.0	23.0
XSQ-RSU40	M50 × 1.50	63.0	26.0



XSQ-RST (Bearing방수형-Hex)

MODEL NO.	Thread	Dia.	Length
XSQ-RST16	M22 × 1.50	28.0	22.5
XSQ-RST20	M25 × 1.50	34.0	24.5



XSQ-RSUT (Bearing방수형-Round)

MODEL NO.	Thread	Dia.	Length
XSQ-RSUT16	M22 × 1.50	32.0	22.5
XSQ-RSUT20	M25 × 1.50	35.0	24.5
XSQ-RSUT25	M32 × 1.50	42.0	25.0
XSQ-RSUT32	M40 × 1.50	50.0	27.5
XSQ-RSUT40	M50 × 1.50	63.0	30.5

XSQ-RKU



MODEL NO.	Thread	Dia.	Length
XSQ-RKU16	M22 × 1.50	32.0	18.0
XSQ-RKU20	M25 × 1.50	35.0	20.0
XSQ-RKU25	M32 × 1.50	42.0	21.5
XSQ-RKU32	M40 × 1.50	50.0	23.0
XSQ-RKU40	M50 × 1.50	63.0	26.0

XSQ-RKUT (Ball Bearing/Sealing Disk Type)



MODEL NO.	Thread	Dia.	Length
XQ-RKUT16	M22 × 1.50	32.0	22.5
XQ-RKUT20	M25 × 1.50	35.0	24.5
XQ-RKUT25	M32 × 1.50	42.0	25.0
XQ-RKUT32	M40 × 1.50	50.0	27.5
XQ-RKUT40	M50 × 1.50	63.0	30.5

XSQ-RM (Mini Nut : Standard)



MODEL NO.	Thread	Dia.	Length
XSQ-R08M	M10 × 0.75	12.0	11.0
XSQ-R11M	M13 × 0.75	16.0	12.0
XSQ-R16M	M19 × 1.00	22.0	18.0
XSQ-R20M	M24 × 1.00	28.0	19.5
XSQ-R25M	M30 × 1.00	35.0	20.5

XSQ-RTM (Mini Nut : Sealing Disk Type)



MODEL NO.	Thread	Dia.	Length
XSQ-RT16M	M19 × 1.00	22.0	22.5
XSQ-RT20M	M24 × 1.00	28.0	24.0
XSQ-RT25M	M30 × 1.00	35.0	25.0



XSQ-RA (외부 나사형)

MODEL NO.	Thread	Dia.	Length
XSQ-RA11	M18 × 1.00	18.0	6.0
XSQ-RA16	M24 × 1.00	24.0	8.0
XSQ-RA20	M28 × 1.50	28.0	11.0
XSQ-RA25	M32 × 1.50	32.0	12.5
XSQ-RA32	M40 × 1.50	40.0	14.0



XSQ-RAT (External Thread/ Sealing Disk Type)

MODEL NO.	Thread	Dia.	Length
XSQ-RA11S*6)	M18 × 1.00	18.0	8.0
XSQ-RAT16	M24 × 1.00	24.0	11.0
XSQ-RAT20	M28 × 1.50	28.0	12.5
XSQ-RAT25	M32 × 1.50	32.0	14.0
XSQ-RAT32	M40 × 1.50	40.0	17.5



SEALING DISK

MODEL NO.	Dia.	Thickness
DS16	13.0	4.0
DS20	16.0	4.0
DS25	21.0	4.0
DS32	27.0	4.0
DS40	33.5	4.0
DS50	31.0	4.0



SEALING DISK SET

MODEL NO.	Dia.	Thickness	Sealing disks/set
DS16S2	13.0	4.0	7pcs/set
DS20S2	16.0	4.0	10pcs/set
DS25S2	21.0	4.0	13pcs/set
DS32S2	27.0	4.0	17pcs/set
DS40S2	33.5	4.0	23pcs/set
DS50S2	31.0	4.0	22pcs/set



FIG. 1



FIG. 2

FOR ER/SKN NUT

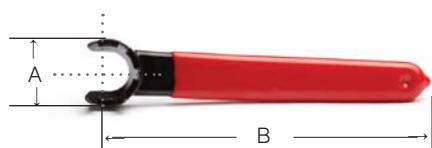
Unit : mm

MODEL NO.	A	B	APPLICABLE NUT	FIG
ER11SP	-	-	ER11, SKN6 (FIG 1.)	1
ER16 SP	50	160	ER16, SKN10 (FIG 1.)	1
ER20 SP	55	180	ER20 (FIG 1.)	1
ER25 SP	65	210	ER25, SKN16 (FIG 2.)	2
ER32 SP	75	250	ER32 (FIG 2.)	2
ER40 SP	90	290	ER40 (FIG 2.)	2
ER50 SP	110	350	ER50 (FIG 2.)	2

▶ 디자인과 형상은 사전통지 없이 변경될 수 있습니다.

FOR ER MINI NUT

Unit : mm



MODEL NO.	A	B	APPLICABLE NUT
GE 8M	12.4	70	ER 8M
GE 11M	16.8	90	ER 11M
GE 16M	22.5	110	ER 16M
GE 20M	29.0	120	ER 20M
GE 25M	36.0	130	ER 25M

▶ Stock Control Item



NC DRILL CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

STRIGHT SHANK-K

JACOBS TAPER - JT

JIS B6339(MAS403)-BT

• 2면 구속형 / 일반형

DIN69893/ISO12164-1 HSK

STRIGHT SHANK-K

JACOBS TAPER - JT

NC DRILL CHUCK

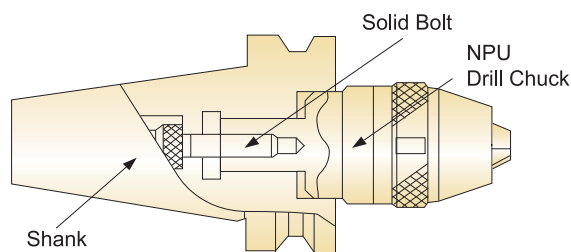
NC Drill
Chuck

● **ZEIKEN** DRILL CHUCK은 SHANK 부위와 SOLID용 BOLT로 완벽하게 체결되어 있으므로 회전 또는 절삭중에 빠지는 우려가 전혀 없습니다.

● 강력한 CHUCKING력
관통구멍 작업시 역추력 발생으로 인한 드릴 파손이 발생할 수 있으나 **ZEIKEN** DRILL CHUCK은 WRENCH를 이용한 강력한 조임으로 드릴 파손이 없습니다.

고정밀도

● 초정밀



● 우수한 정밀도 (TIR 0.04) DRILL CHUCK과 SHANK가 일체형임으로 흔들림의 정도가 우수합니다.

● 안정성

일체형의 고강성인 **ZEIKEN** NC DRILL CHUCK은 작업중 발생할 수 있는 사고를 예방하여 무인운전에 의한 공장자동화에 기여합니다.

- 급정지시 일어나는 DRILL의 빠짐
- 급속회전시 일어나는 DRILL의 빠짐
- 구멍관통시 일어나는 역추력에 의한 드릴의 파손사고

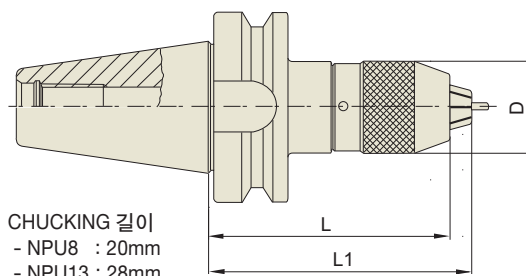
● DRILL CHUCK TORQUE 비교

구분	CHUCKING	비틀림
KEYLESS CHUCK	HAND	0.7kgf-m
ZEIKEN NPU CHUCK	HAND	0.7kgf-m
ZEIKEN NPU + WRENCH	WRENCH	2.2kgf-m

NC DRILL CHUCK **NEW**

NPU

JIS B6339 (MAS 403) BT



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT 2면 구속용)

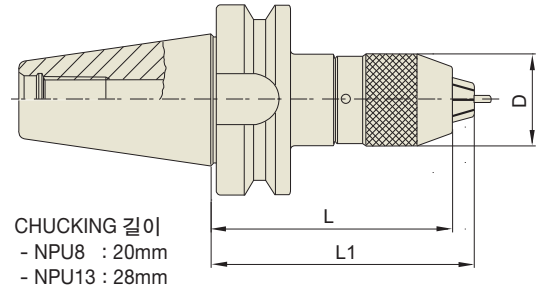
TAPER No.	MODEL No.	RANGE	D	L(MIN)	L1(MAX)	중량(kg)	재고
30	CBT30-NPU 8- 70	0.3~8	36.5	70	75.7	0.80	●
	CBT30-NPU13-100	1~13	50.4	100	110	1.80	●
40	CBT40-NPU 8- 70	0.3~8	36.5	70	75.7	1.50	●
	CBT40-NPU 8-110	0.3~8	36.5	110	115.7	1.80	
	CBT40-NPU 8-150	0.3~8	36.5	150	155.7	2.60	
	CBT40-NPU13- 90	1~13	50.4	90	95.7	2.10	●
	CBT40-NPU13-130	1~13	50.4	130	140	2.70	●
	CBT40-NPU13-150	1~13	50.4	150	160	3.40	
50	CBT50-NPU 8- 90	0.3~8	36.5	90	95.7	4.20	
	CBT50-NPU 8-110	0.3~8	36.5	110	115.7	4.50	
	CBT50-NPU 8-170	0.3~8	36.5	170	180.7	5.20	
	CBT50-NPU13-100	1~13	50.4	100	110	4.80	
	CBT50-NPU13-130	1~13	50.4	130	140	5.20	
	CBT50-NPU13-150	1~13	50.4	150	160	5.50	
	CBT50-NPU13-190	1~13	50.4	190	200	5.90	

NC Drill
Chuck

NC DRILL CHUCK

NPU

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

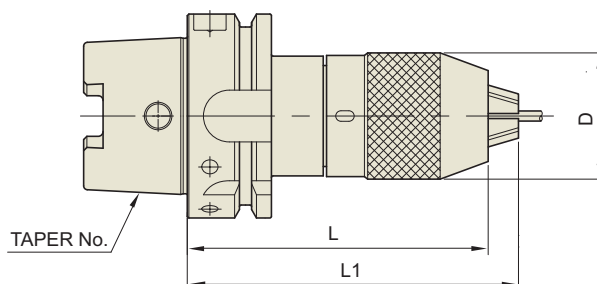
Coolant
System

TAPER No.	MODEL No.	CAPACITY	D	L(MIN)	L1(MAX)	중량(kg)	재고
30	BT30-NPU 8- 70	0.3~8	36.5	70	75.7	0.80	●
	BT30-NPU13-100	1~13	50.4	100	110	1.80	●
40	BT40-NPU 8- 70	0.3~8	36.5	70	75.7	1.50	●
	BT40-NPU 8-110	0.3~8	36.5	110	115.7	1.80	
	BT40-NPU 8-150	0.3~8	36.5	150	155.7	2.60	
	BT40-NPU13- 90	1~13	50.4	90	95.7	2.10	●
	BT40-NPU13-130	1~13	50.4	130	140	2.70	●
	BT40-NPU13-150	1~13	50.4	150	160	3.40	
50	BT50-NPU 8- 90	0.3~8	36.5	90	95.7	4.20	
	BT50-NPU 8-110	0.3~8	36.5	110	115.7	4.50	●
	BT50-NPU 8-170	0.3~8	36.5	170	180.7	5.20	●
	BT50-NPU13-100	1~13	50.4	100	110	4.80	●
	BT50-NPU13-130	1~13	50.4	130	140	5.20	●
	BT50-NPU13-150	1~13	50.4	150	160	5.50	●
	BT50-NPU13-190	1~13	50.4	190	200	5.90	●

NC DRILL CHUCK

NPU

DIN 69893/ISO12164-1 HSK A



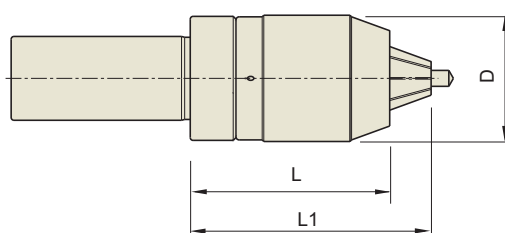
DIN 69893 - HSK	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	CAPACITY	D	L(MIN)	L1(MAX)	Weight (kg)
40A	HSK40A-NPU 8-120	0.3 - 8	36.5	120	125.7	1
50A	HSK50A-NPU 8-120	0.3 - 8	36.5	120	125.7	1.2
	HSK50A-NPU13-150	1 - 13	50.4	150	160	2.1
63A	HSK63A-NPU 8-125	0.3 - 8	36.5	125	130.7	2.1
	HSK63A-NPU13-150	1 - 13	50.4	150	150	3
100A	HSK100A-NPU 8-130	0.3 - 8	36.5	130	135.7	4.8
	HSK100A-NPU13-1510	1 - 13	50.4	150	160	5.5

NC Drill
Chuck

NC DRILL CHUCK - K

NPU



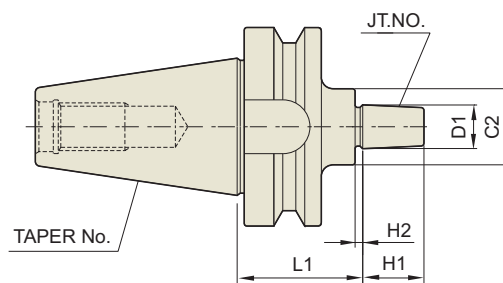
K	Taper Accuracy AT3	G Value	RPM	Coolant System
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STYLE	MODEL No.	CAPACITY	D	L(MIN)	L1(MAX)	d	중량(kg)	재고
32	K32-NPU 8- 70	0.3~8	36.5	70	75.7	32	0.70	●
	K32-NPU13-100	1~13	50.4	100	110	32	1.50	●
42	K42-NPU 8- 70	0.3~8	36.5	70	75.7	42	0.80	
	K42-NPU13-100	1~13	50.4	100	110	42	1.60	

JACOBS TAPER ADAPTER

NPU

JIS B6339 (MAS 403) - BT



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	JT. No.	D1	L1	H1	H2	C1	중량(kg)	재고
30	BT30-JTA 1-45	1	9.754	45	14	3	30	0.9	
	BT30-JTA 2-45	2	14.199	45	20	4	30	1.0	
	BT30-JTA 6-45	6	17.17	45	24	4	30	1.0	●
40	BT40-JTA 1-45	1	9.754	45	14	3	30	1.1	
	BT40-JTA 1-90	1	9.754	90	14	3	30	1.1	
	BT40-JTA2S-45	2Shot	13.94	45	18	3	30	1.4	
	BT40-JTA2S-90	2Shot	13.94	90	18	3	30	1.4	
	BT40-JTA 2-45	2	14.199	45	20	4	30	1.1	
	BT40-JTA 2-90	2	14.199	90	20	4	30	1.4	
	BT40-JTA33-45	33	15.85	45	24	4	30	1.1	
	BT40-JTA33-90	33	15.85	90	24	4	30	1.4	
	BT40-JTA 6-45	6	17.17	45	24	4	30	1.1	●
	BT40-JTA 6-90	6	17.17	90	24	4	30	1.4	●
	BT40-JTA 3-45	3	20.599	45	28	5	35	1.2	
	BT40-JTA 3-90	3	20.599	90	28	5	35	1.5	
50	BT50-JTA 1-45	1	9.754	45	14	3	30	4.0	
	BT50-JTA 1-105	1	9.754	105	14	3	30	4.4	
	BT50-JTA2S-45	2Shot	13.94	45	18	3	30	4.0	
	BT50-JTA2S-105	2Shot	13.94	105	18	3	30	4.4	
	BT50-JTA 2-45	2	14.199	45	20	4	30	4.0	
	BT50-JTA 2-105	2	14.199	105	20	4	30	4.4	
	BT50-JTA33-45	33	15.85	45	24	4	30	4.0	
	BT50-JTA33-105	33	15.85	105	24	4	30	4.4	
	BT50-JTA 6-45	6	17.17	45	24	4	30	4.0	●
	BT50-JTA 6-105	6	17.17	105	24	4	30	4.4	●
	BT50-JTA 3-45	3	20.599	45	28	5	35	4.0	
	BT50-JTA 3-105	3	20.599	105	28	5	35	4.6	

MORSE TAPER ARBOR

JIS B6339(MAS403)-BT

ANSI B5.18 - NT

DIN69893/ISO12164-1 HSK

DIN69871 - SK

JIS B6339(MAS403)-BT

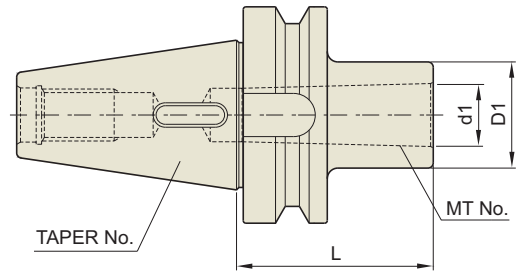
• MTA / MTB

ANSI B5.18 - NT

DIN69893/ISO12164-1 HSK

DIN69871 - SK

JIS B6339 (MAS 403) - BT



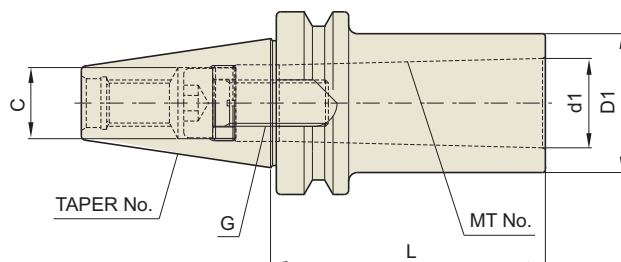
JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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TAPER No.	MODEL No.	MT No.	L	d1	D1	중량(kg)	재고
30	BT30-MTA1- 45	1	45	12.065	25	0.4	●
	BT30-MTA2- 60	2	60	17.780	32	0.5	●
	BT30-MTA2- 120	2	120	17.780	32	0.6	
	BT30-MTA3- 75	3	75	23.825	40	0.7	●
40	BT40-MTA1- 45	1	45	12.065	25	1.0	●
	BT40-MTA1-120	1	120	12.065	25	1.3	
	BT40-MTA2- 60	2	60	17.780	32	1.0	●
	BT40-MTA2-120	2	120	17.780	32	1.4	
	BT40-MTA3- 75	3	75	23.825	40	1.2	●
	BT40-MTA3-135	3	135	23.825	40	1.8	
	BT40-MTA4- 95	4	95	31.267	50	1.1	●
	BT40-MTA4-165	4	165	31.267	50	2.4	
50	BT50-MTA1- 45	1	45	12.065	25	4.0	●
	BT50-MTA1-120	1	120	12.065	25	4.3	●
	BT50-MTA1-180	1	180	12.065	25	4.3	●
	BT50-MTA2- 45	2	45	17.780	32	4.0	●
	BT50-MTA2-135	2	135	17.780	32	4.4	●
	BT50-MTA2-180	2	180	17.780	32	4.6	●
	BT50-MTA3- 45	3	45	23.825	40	3.9	●
	BT50-MTA3-150	3	150	23.825	40	4.7	●
	BT50-MTA3-180	3	180	23.825	40	4.9	●
	BT50-MTA4- 75	4	75	31.267	50	4.0	●
	BT50-MTA4-105	4	105	31.267	50	4.5	
	BT50-MTA4-180	4	180	31.267	50	5.4	●
	BT50-MTA5-105	5	105	44.399	65	4.5	●
	BT50-MTA5-210	5	210	44.399	65	7.2	●
	BT50-MTA5-270	5	270	44.399	65	7.5	

MORSE TAPER ADAPTER

MTB

JIS B6339 (MAS 403) - BT



JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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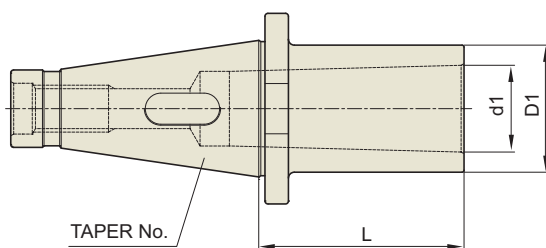
TAPER No.	MODEL No.	MT No.	L	d1	D1	C	G	중량(kg)	재고
30	BT30-MTB1-45	1	45	12.065	25	10	M6×1.0	0.8	
	BT30-MTB2-45	2	45	17.780	32	-	M10×1.5	0.8	
40	BT40-MTB1-45	1	45	12.065	25	10	M6×1.0	1.0	
	BT40-MTB2-45	2	45	17.780	32	13.5	M10×1.5	1.1	
	BT40-MTB3-60	3	60	23.825	40	-	M12×1.75	1.1	
	BT40-MTB4-85	4	85	31.267	50	-	M16×2.0	1.3	
50	BT50-MTB1-45	1	45	12.065	25	10	M6×1.0	3.9	
	BT50-MTB2-45	2	45	17.780	32	16	M10×1.5	3.9	
	BT50-MTB3-60	3	60	23.825	40	18	M12×1.75	3.9	
	BT50-MTB4-75	4	75	31.267	50	20.5	M16×2.0	3.9	

Morse Taper
Arbor

MORSE TAPER ADAPTER

MTA

ANSI B5.18 - NT



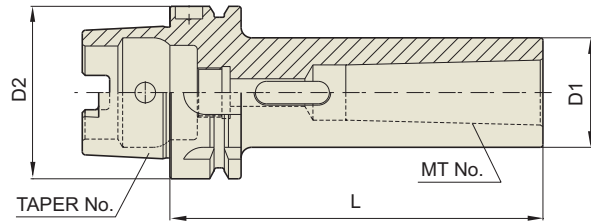
Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	MT No.	DRILL 범위		D1	L	DRAW THREAD	중량(kg)	재고
			MIN	MAX					
40	NT40-MTA1-30	1	2.0	14.0	25	30	U 5/8-11(M16×2)	0.90	
	NT40-MTA2-30	2	14.1	23.0	32	30	U 5/8-11(M16×2)	1.00	
	NT40-MTA3-35	3	23.1	32.0	40	45	U 5/8-11(M16×2)	1.00	
	NT40-MTA4-90	4	32.1	50.0	50	90	U 5/8-11(M16×2)	1.20	
50	NT50-MTA1-30	1	2.0	14.0	25	30	U 1-8(M24×3)	3.50	
	NT50-MTA2-30	2	14.1	23.0	32	30	U 1-8(M24×3)	3.50	
	NT50-MTA3-30	3	23.1	32.0	40	30	U 1-8(M24×3)	3.50	
	NT50-MTA4-45	4	32.1	50.0	50	45	U 1-8(M24×3)	3.50	
	NT50-MTA5-105	5	50.1	75.0	60	105	U 1-8(M24×3)	4.00	

MORSE TAPER ADAPTER

MTA

DIN 69893/ISO 12164-1 - HSK FORM A



DIN 69893 - HSK	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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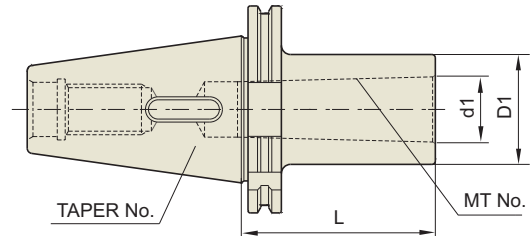
TAPER No.	MODEL No.	MT No.	D1	D2	L	중량(kg)	재고
50A	HSK 50A-MTA1-100	1	25	50	100	0.67	
	HSK 50A-MTA2-120	2	32	50	120	0.78	
	HSK 50A-MTA3-140	3	40	50	140	0.91	
63A	HSK 63A-MTA1-100	1	25	63	100	0.87	
	HSK 63A-MTA2-120	2	32	63	120	1.28	
	HSK 63A-MTA3-140	3	40	63	140	1.44	
	HSK 63A-MTA4-160	4	48	63	160	1.86	
100A	HSK100A-MTA1-110	1	25	100	110	2.12	
	HSK100A-MTA2-120	2	32	100	120	2.41	
	HSK100A-MTA3-150	3	40	100	150	2.82	
	HSK100A-MTA4-170	4	48	100	170	3.63	
	HSK100A-MTA5-200	5	63	100	200	4.80	

Morse Taper
Arbor

MORSE TAPER ADAPTER

MTA

DIN 69871 - SK



DIN 69871 -SK	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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STANDARD

TAPER No.	MODEL No.	MT No.	d1	D1	L	중량(kg)	재고
30	SK30-MTA1-50	1	12.065	25	50	0.72	
	SK30-MTA2-60	2	17.78	32	60	0.87	
	SK30-MTA3-80	3	23.825	40	80	1.02	
40	SK40-MTA1-50	1	12.065	25	50	1.49	
	SK40-MTA2-50	2	17.78	32	50	1.62	
	SK40-MTA3-70	3	23.825	40	70	1.65	
	SK40-MTA4-95	4	31.267	48	95	1.90	
50	SK50-MTA1-45	1	12.065	25	45	2.60	
	SK50-MTA2-60	2	17.78	32	60	2.66	
	SK50-MTA3-65	3	23.825	40	65	2.75	
	SK50-MTA4-95	4	31.267	48	95	3.00	
	SK50-MTA5-105	5	44.399	63	105	3.30	



TAPPING ER CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871 - SK

JIS B6339(MAS403)-BT

• 2면 구속용 / 일반용

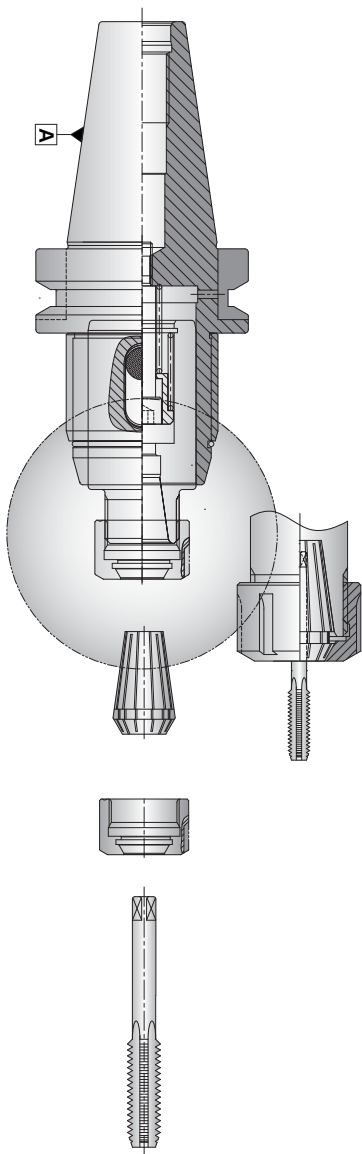
DIN69893/ISO12164-1 HSK

DIN69871 - SK

TAPPING ER CHUCK

탭핑 ER 콜릿 척

탭핑 척



짧은 게이지 라인길이를
가공시 공구 간섭 최소화

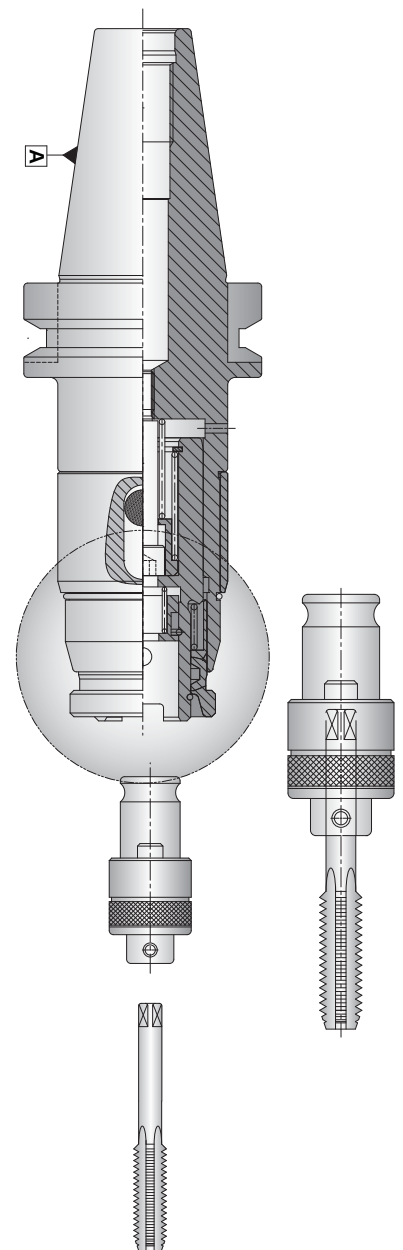
긴 게이지 라인길이를
가공시 공구 간섭 받음

일반 ER chuck 장점인
강력한 파지력과,
탭핑 척의 장점인
Tension(인장),
Compression(압축)
기능

Tension(인장),
Compression(압축)
기능

경제적인 ER collet
교체만으로 가공 조건에
맞는 Tap 교체
(ER chuck 사용시
collet 사용 공유)
=> 원가 및 비용 절감

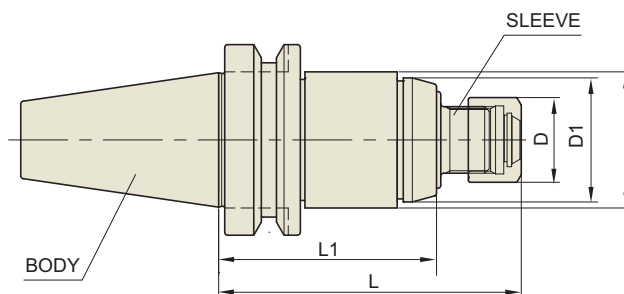
고가의 Tap Adaptor를
가공 조건에 맞게
구비 및 교체



TAPPING ER CHUCK **NEW**

JIS B6339 (MAS 403) BT

TER



CBT	Taper Accuracy AT3	G Value	RPM	Coolant System
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CBT (BT 2면 구속용)

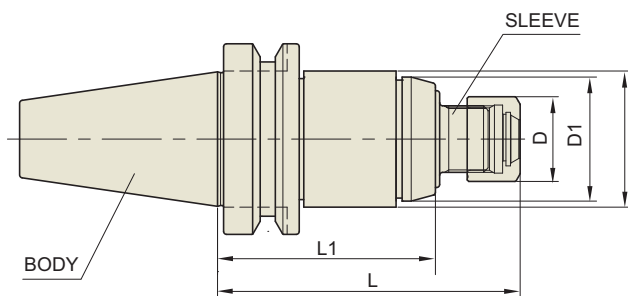
TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	중량(kg)	재고
40	CBT40-TER16-100	28	41	45	100	68.4	ER16	1.45	
	CBT40-TER16-150	28	41	45	150	118.4	ER16	2.00	
	CBT40-TER32-110	50	58	63	110	72	ER32	2.20	
	CBT40-TER32-150	50	58	63	150	112	ER32	2.70	
50	CBT50-TER16-115	28	41	45	115	79.4	ER16	3.95	
	CBT50-TER16-150	28	41	45	150	114.4	ER16	4.35	
	CBT50-TER32-120	50	58	63	120	83	ER32	4.70	
	CBT50-TER32-150	50	58	63	150	113	ER32	5.20	

Tapping ER
Chuck

TAPPING ER CHUCK

TER

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

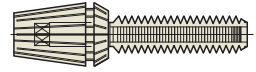
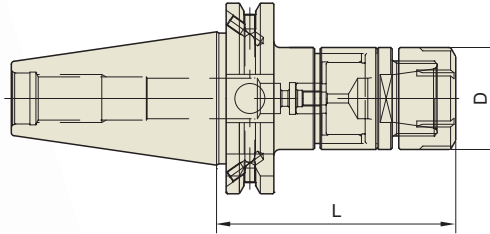
TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	중량(kg)	재고
40	BT40-TER16-100	28	41	45	100	68.4	ER16	1.45	●
	BT40-TER16-150	28	41	45	150	118.4	ER16	2.00	●
	BT40-TER32-110	50	58	63	110	72	ER32	2.20	●
	BT40-TER32-150	50	58	63	150	112	ER32	2.70	●
50	BT50-TER16-115	28	41	45	115	79.4	ER16	3.95	●
	BT50-TER16-150	28	41	45	150	114.4	ER16	4.35	●
	BT50-TER32-120	50	58	63	120	83	ER32	4.70	●
	BT50-TER32-150	50	58	63	150	113	ER32	5.20	●

Tapping ER
Chuck

SYNCHRO TAPPING ER CHUCK **NEW**

TER

JIS B6339 (MAS 403) - BT



DIN 69871 - SK	Taper Accuracy AT3	G Value	RPM	Coolant System AD/B
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TAPER No.	MODEL No.	TAP SIZE	CLAMPING RANGE	NUT	D	L	중량(kg)	재고
40	BT40AD/B-SYTER12-79	M3-M12	3.5-10	ER16	28	79		●
	BT40AD/B-SYTER16-85	M3-M16	3.5-10	ER20	34	85		●
	BT40AD/B-SYTER20-90	M3-M20	3.5-16	ER25	42	90		●
	BT40AD/B-SYTER27-100	M4-M27	3.5-16	ER32	50	100		●
	BT40AD/B-SYTER33-105	M4-M33	7-16	ER40	63	105		●
50	BT50AD/B-SYTER12-79	M3-M12	3.5-10	ER16	28	79		
	BT50AD/B-SYTER16-85	M3-M16	3.5-10	ER20	34	85		
	BT50AD/B-SYTER20-90	M3-M20	3.5-16	ER25	42	90		
	BT50AD/B-SYTER27-100	M4-M27	3.5-16	ER32	50	100		
	BT50AD/B-SYTER33-105	M4-M33	7-16	ER40	63	105		

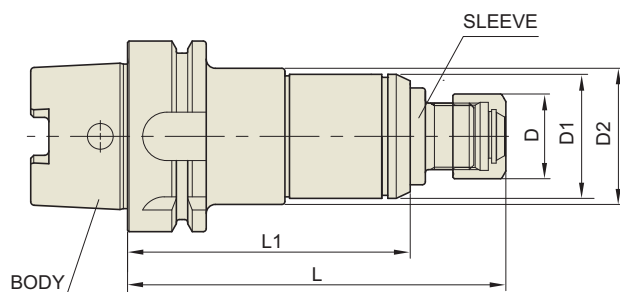
- ▶ 특징:
- tap의 수명연장과 thread 품질개선을 위해동기화 예러를 보상
 - tap의 피치공차를 보상
 - 동기화 spindle이 있는 기계용
- ▶ 79~81쪽 ER Collet, 그리고 82쪽의 Tap ER Collet 사용 가능합니다.

Tapping ER
Chuck

TAPPING ER CHUCK

TER

DIN 69893/ISO 12164-1 HSK



DIN 69893
- HSK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

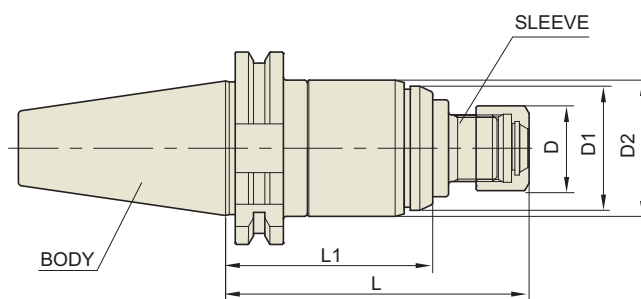
TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	중량(kg)	재고
50	HSK50A-TER16-125	28	41	45	125	93.4	ER16	1.20	
	HSK50A-TER16-150	28	41	45	150	118.4	ER16	1.30	
63	HSK63A-TER16-125	28	41	45	125	93.4	ER16	1.70	●
	HSK63A-TER16-150	28	41	45	150	118.4	ER16	1.85	
	HSK63A-TER32-150	50	58	63	150	112	ER32	2.10	●
	HSK63A-TER32-180	50	58	63	180	142	ER32	2.30	
100	HSK100A-TER16-130	28	41	45	130	98.4	ER16	4.00	
	HSK100A-TER16-150	28	41	45	150	118.4	ER16	4.20	
	HSK100A-TER32-150	50	58	63	150	112	ER32	4.40	
	HSK100A-TER32-180	50	58	63	180	142	ER32	4.60	

Tapping ER
Chuck

TAPPING ER CHUCK

TER

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	D	D1	D2	L	L1	NUT	중량(kg)	재고
40	SK40-TER16-100	28	41	45	100	68.4	ER16	1.65	
	SK40-TER16-150	28	41	45	150	118.4	ER16	1.85	
	SK40-TER32-130	50	58	63	130	92	ER32	2.10	
	SK40-TER32-150	50	58	63	150	112	ER32	2.30	
50	SK50-TER16-115	28	41	45	115	79.4	ER16	4.30	
	SK50-TER16-150	28	41	45	150	114.4	ER16	4.50	
	SK50-TER32-120	50	58	63	120	83	ER32	4.65	
	SK50-TER32-150	50	58	63	150	113	ER32	4.85	

Tapping ER
Chuck

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM



TAP CHUCK

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

STRAIGHT - K

DIN228 - MT

TAP ADAPTER

JIS B6339(MAS403)-BT

- 2면구속형 / 일반형

DIN69893/ISO12164-1 HSK

- SYNCHRO TYPE / 일반형

DIN69871-SK

STRAIGHT - K

- SYNCHRO TYPE / 일반형

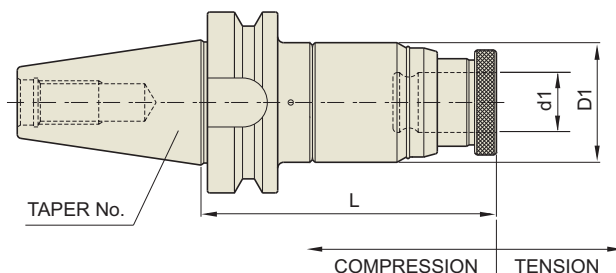
DIN228 - MTA

TAP ADAPTER - TCS

TAP CHUCK **NEW**

TCS

JIS B6339 (MAS 403) BT



CBT

Taper Accuracy
AT3

G Value

RPM

Coolant System

CBT (BT 2번 구속용)

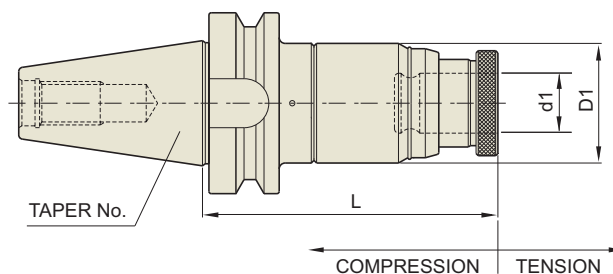
TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	중량(kg)	재고
			COMP.	TEN.					
30	CBT30-TC12-105	M3~M12	5	15	19	45	105	1.0	
40	CBT40-TC12- 90	M3~M12	5	15	19	45	90	1.5	●
	CBT40-TC12-130	M3~M12	5	15	19	45	130	1.6	
	CBT40-TC24-100	M6~M24	5	20	31	63	100	2.1	●
	CBT40-TC24-142	M6~M24	5	20	31	63	142	2.9	
50	CBT50-TC12-130	M3~M12	5	15	19	45	130	4.2	
	CBT50-TC12-175	M3~M12	5	15	19	45	175	4.8	
	CBT50-TC12-220	M3~M12	5	15	19	45	220	5.1	
	CBT50-TC24-142	M6~M24	5	20	31	63	142	5.8	
	CBT50-TC24-187	M6~M24	5	20	31	63	187	6.0	
	CBT50-TC38-175	M18~M38	10	25	48	98	175	8.3	

Tap Chuck

TAP CHUCK

TC

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

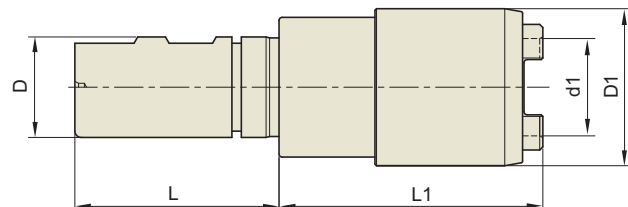
G Value

RPM

Coolant
System

TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	TAP ADAPTER CODE	중량(kg)	재고
			COMP.	TEN.						
30	BT30-TC12-100	M3~M12	5	15	19	45	100	TCS12	1.0	●
40	BT40-TC12- 90	M3~M12	5	15	19	45	90	TCS12	1.5	●
	BT40-TC12-130	M3~M12	5	15	19	45	130	TCS12	1.6	
	BT40-TC24-100	M6~M24	5	20	31	63	100	TCS24	2.1	●
	BT40-TC24-142	M6~M24	5	20	31	63	142	TCS24	2.9	
50	BT50-TC12-130	M3~M12	5	15	19	45	130	TCS12	4.2	●
	BT50-TC12-175	M3~M12	5	15	19	45	175	TCS12	4.8	●
	BT50-TC12-220	M3~M12	5	15	19	45	220	TCS12	5.1	
	BT50-TC24-142	M6~M24	5	20	31	63	142	TCS24	5.8	●
	BT50-TC24-187	M6~M24	5	20	31	63	187	TCS24	6.0	●
	BT50-TC38-175	M18~M38	10	25	48	98	175	TCS38	8.3	●

Tap Chuck



STRAIGHT-K

TAPER No.	MODEL No.	For tap sizes	Matching inserts	d1	D1	L	G	중량(kg)	재고
20	K20-SYTC12-46	M3-M12	1	19	36	46	51		
	K20-SYTC12-107.5	M14-M33	3	48	78	107.5	61.5		
25	K25-SYTC12-46	M3-M12	1	19	36	46	51		
	K25-SYTC20-74	M8-M20	2	31	53	74	57		
	K25-SYTC33-107.5	M14-M33	3	48	78	107.5	57		
32	K32-SYTC12-74	M8-M20	2	31	53	74	61.5		

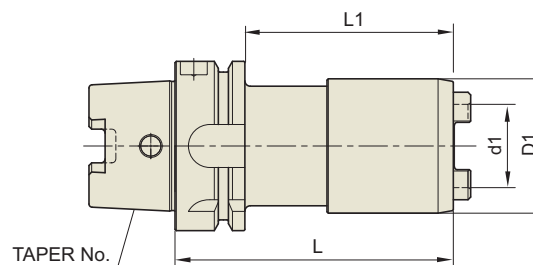
▶ 특징:

- tap의 수명연장과 thread 품질개선을 위해동기화 에러를 보상
- tap의 피치공차를 보상
- 동기화 spindle이 있는 기계용

SYNCHRO TAP CHUCK (QUICK CHANGE TYPE) **NEW**

TC

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893
- HSK

Taper
Accuracy

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	TAP SIZE	Matching inserts	d1	D1	L	L1	중량(kg)	재고
32A	HSK32A-SYTC12-75	M3-M12	1	19	36	75	51		
50A	HSK50A-SYTC12-72	M3-M12	1	19	36	72	46		
	HSK50A-SYTC20-91	M8-M20	2	31	53	91	65		
63A	HSK63A-SYTC12-75	M3-M12	1	19	36	75	46		●
	HSK63A-SYTC12-80	M3-M12	1	19	36	80	54		●
	HSK63A-SYTC12-120	M3-M12	1	19	36	120	94		●
	HSK63A-SYTC12-152	M3-M12	1	19	36	152	126		●
	HSK63A-SYTC12-180	M3-M12	1	19	36	180	154		●
	HSK63A-SYTC20-89	M8-M20	2	31	53	89	63		●
	HSK63A-SYTC33-121	M14-M33	3	48	78	121	95		●
100A	HSK100A-SYTC-12-72	M3-M12	1	19	36	72	43		
	HSK100A-SYTC-12-160	M3-M12	1	19	36	160	131		
	HSK100A-SYTC-20-94	M8-M20	2	31	53	94	65		
	HSK100A-SYTC20-160	M8-M20	2	31	53	160	131		
	HSK100A-SYTC33-127	M14-M33	3	48	78	127	98		
	HSK100A-SYTC33-160	M14-M33	3	48	78	160	131		
	HSK100A-SYTC48-160	M22-M48	4	60	96	160	131		

▶ 특징:

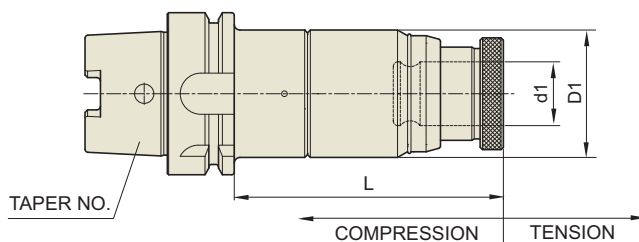
- tap의 수명연장과 thread 품질개선을 위해동기화 에러를 보상
- tap의 피치공차를 보상
- 동기화 spindle이 있는 기계용

Tap Chuck

TAP CHUCK

TC

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893 - HSK	Taper Accuracy AT3	G Value	RPM	Coolant System
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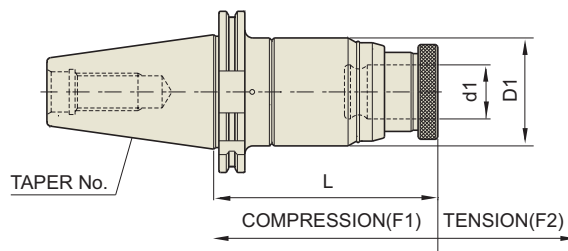
TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	TAP ADAPTER CODE	중량(kg)	재고
			COMP.	TEN.						
50A	HSK50A-TC12-120	M3 ~ M12	5	15	19	45	120	TCS12	0.8	
63A	HSK63A-TC12-120	M3 ~ M12	5	15	19	45	120	TCS12	1.00	
	HSK63A-TC12-150	M3 ~ M12	5	15	19	45	150	TCS12	1.70	
	HSK63A-TC24-142	M6 ~ M24	5	20	31	63	142	TCS24	2.40	
	HSK63A-TC24-172	M6 ~ M24	5	20	31	63	172	TCS24	2.70	
100A	HSK100A-TC12-130	M3 ~ M12	5	15	19	45	130	TCS12	4.30	
	HSK100A-TC12-175	M3 ~ M12	5	15	19	45	175	TCS12	4.80	
	HSK100A-TC12-220	M3 ~ M12	5	15	19	45	220	TCS12	5.30	
	HSK100A-TC24-142	M6 ~ M24	5	20	31	63	142	TCS24	5.20	
	HSK100A-TC24-187	M6 ~ M24	5	20	31	63	187	TCS24	6.60	
	HSK100A-TC38-200	M18 ~ M38	10	25	48	98	200	TCS38	8.00	

Tap Chuck

TAP CHUCK

TC

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

STANDARD

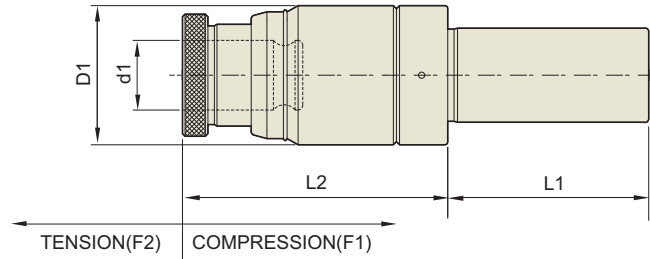
TAPER No.	MODEL No.	TAP SIZE	d1	D1	L	F1	F2	중량(kg)	재고
40	SK40-TC12-90	M3-M12	19	45	90	5	15	1.30	
	SK40-TC12-130	M3-M12	19	45	130	5	15	1.80	
	SK40-TC24-120	M6-M24	31	63	120	5	20	2.50	
	SK40-TC24-142	M6-M24	31	63	142	5	20	2.80	
50	SK50-TC12-130	M3-M12	19	45	130	5	15	4.30	
	SK50-TC12-175	M3-M12	19	45	175	5	15	5.50	
	SK50-TC24-142	M6-M24	31	63	142	5	20	5.30	
	SK50-TC24-187	M6-M24	31	63	187	5	20	7.80	
	SK50-TC38-175	M18-M38	48	98	175	10	25	7.50	

Tap Chuck

TAP CHUCK - STRAIGHT SHANK

TC

STRAIGHT - K



K	Taper Accuracy AT3	G Value	RPM	Coolant System
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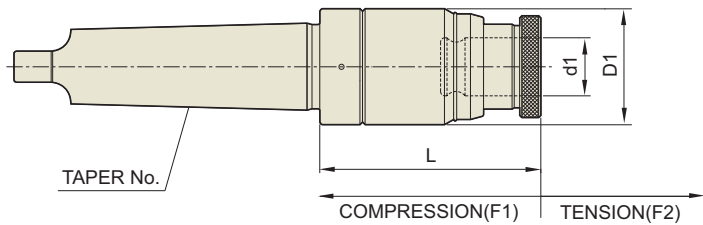
TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L1	L2	TAP ADAPTER CODE	중량(kg)	재고
			COMP.	TEN.							
32	K32-TC12-100	M3-M12	15	5	32	45	60	100	TCS12	0.90	●
	K32-TC24-120	M6-M24	20	5	32	63	60	120	TCS24	1.40	●
42	K42-TC12-100	M3-M12	15	5	42	45	70	100	TCS12	1.10	
	K42-TC24-120	M6-M24	20	5	42	63	70	120	TCS24	1.60	

TAP CHUCK

TC

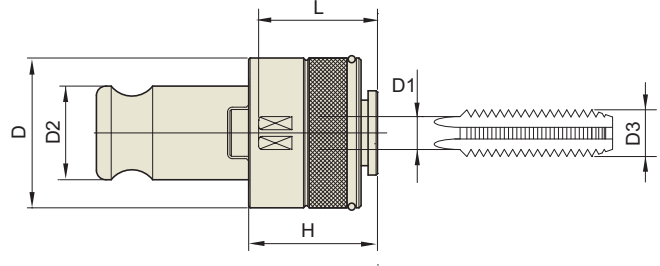
DIN 228 - MTA

Tap Chuck



DIN 228 - MTA	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	TAP SIZE	LENGTH COMPENSATION		d1	D1	L	TAP ADAPTER CODE	중량(kg)	재고
			COMP.	TEN.						
3	MTA3-TC12- 90	M3-M12	5	15	19	45	90	TCS12	1.00	
	MTA3-TC24-115	M6-M24	5	20	31	63	115	TCS24	2.00	
4	MTA4-TC12-105	M3-M12	5	15	19	45	105	TCS12	1.20	
	MTA4-TC24-115	M6-M24	5	20	31	63	115	TCS24	2.20	
5	MTA5-TC12-145	M3-M12	5	15	19	45	145	TCS12	1.50	
	MTA5-TC24-175	M6-M24	5	20	31	63	175	TCS24	2.60	
6	MTA6-TC38-175	M14-M38	10	25	48	98	175	TCS38	6.80	

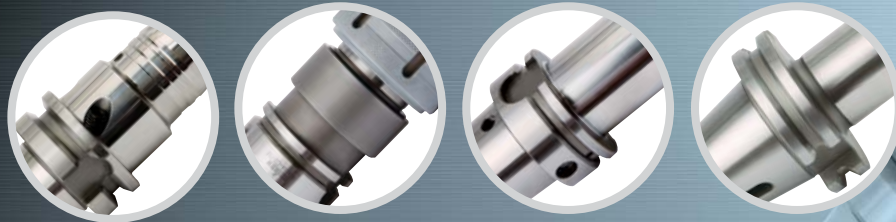


TAPER No.	MODEL No.	D	D1	D2	D3	H	W	L	중량(kg)	재고
TCS12	TCS12-M3	32	4	19	3	25	3.2	24	0.18	
	TCS12-M4	32	5	19	4	25	4.	24	0.18	
	TCS12-M5	32	5.5	19	5	25	4.5	24	0.18	
	TCS12-M6, U1/4	32	6	19	6	25	4.5	24	0.18	
	TCS12-M8	32	6.2	19	8	25	5	25	0.18	
	TCS12-M10, U3/8	32	7	19	10	25	5.5	25	0.18	
	TCS12-M12	32	8.5	19	12	25	6.5	26	0.18	
TCS24	TCS24-M6	52	6	31	6	33	4.5	38	0.60	
	TCS24-M8	52	6.2	31	8	33	5	38	0.60	
	TCS24-M10	52	7	31	10	33	5.5	38	0.60	
	TCS24-M12	52	8.5	31	12	33	6.5	39	0.60	
	TCS24-M14, U3/4	52	10.5	31	14	33	8	41	0.60	
	TCS24-M16	52	12.5	31	16	33	10	43	0.60	
	TCS24-M18, P3/8	52	14	31	18	33	11	43	0.60	
	TCS24-M20	52	15	31	20	33	12	43.5	0.60	
	TCS24-M22, U7/8	52	17	31	22	33	13	46	0.60	
	TCS24-M24, PF5/8	52	19	31	24	33	15	46	0.60	
TCS38	TCS38-M18	72	14	48	18	45	11	43	1.80	
	TCS38-M20	72	15	48	20	45	12	43.5	1.80	
	TCS38-M22	72	17	48	22	45	13	45	1.80	
	TCS38-M24	72	19	48	24	45	15	45	1.80	
	TCS38-M27, U1	72	20	48	27	45	15	62	1.80	
	TCS38-M30, PT3/4	72	23	48	30	45	17	64	1.80	
	TCS38-M33	72	25	48	33	45	19	66	1.80	
	TCS38-M36	72	28	48	36	45	19	68	1.80	
	TCS38-M38	72	28	48	38	45	21	68	1.80	

특징

1. 토-크 안전장치 내장형으로 급속교환 방식임.
2. 주문시에는 Tap size($\phi \times \square$) 및 범위 지정이 필요함.

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM



SIDE LOCK ARBOR & END MILL HOLDER

SIDE LOCK ARBOR

JIS B6339(MAS403)-BT

END MILL HOLDER

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871-SK

SIDE LOCK ARBOR

JIS B6339(MAS403)-BT

- 2면 구속용/일반형/LONG TYPE
- SLB / SCREW

END MILL HOLDER

JIS B6339(MAS403)-BT

- SPRAY NOZZLE형 / 일반형

DIN69893/ISO12164-1 HSK

- SPRAY NOZZLE형 / 일반형

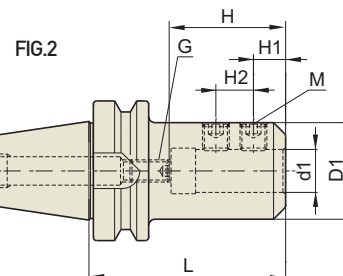
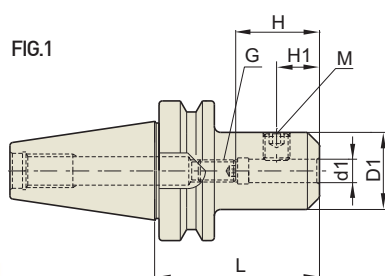
DIN69871-SK

- SPRAY NOZZLE형 / 일반형 / AD+B type

SIDE LOCK ARBOR **NEW**

SLA

JIS B6339 (MAS 403) BT



CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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CBT (BT 2면 구속용)

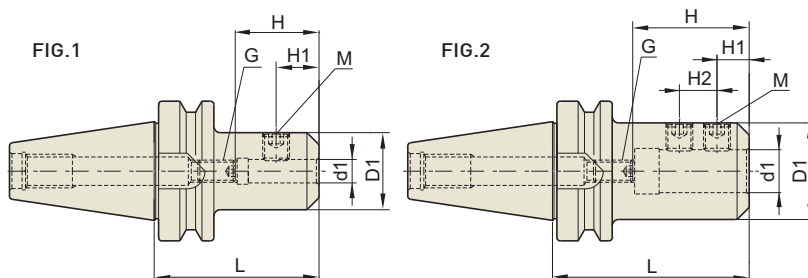
TAPER No.	MODEL No.	d1	L	D1	H		H1	H2	M	G	중량(kg)	재고
					MIN	MAX						
30	CBT30-SLA6-60	6	60	25	20	35	18	—	M5	M5	0.7	
	CBT30-SLA8-60	8	60	28	20	35	18	—	M6	M6	0.8	
	CBT30-SLA10-60	10	60	35	35	50	14	13	M8	M8	0.9	
	CBT30-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.1	
	CBT30-SLA14-60	14	60	40	35	50	14	13	M10	M10	1.2	
	CBT30-SLA16-75	16	75	40	55	70	25	20	M12	M12	1.3	
	CBT30-SLA20-75	20	75	50	55	70	25	20	M12	M12	1.4	●
	CBT30-SLA25-75	25	75	50	55	70	25	20	M14	M12	1.5	●
	CBT30-SLA32-105	32	105	60	65	80	30	20	M16	M12	1.6	
40	CBT40-SLA 6-60	6	60	25	20	35	18	—	M5	M5	1.1	
	CBT40-SLA 8-60	8	60	28	20	35	18	—	M6	M6	1.1	
	CBT40-SLA10-60	10	60	35	35	50	14	13	M8	M8	1.2	
	CBT40-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.4	
	CBT40-SLA16-90	16	90	40	55	70	25	20	M12	M12	1.5	
	CBT40-SLA20-90	20	90	50	55	70	25	20	M12	M12	1.8	●
	CBT40-SLA25-90	25	90	50	55	70	25	20	M14	M12	1.7	●
	CBT40-SLA32-90	32	90	60	65	80	30	20	M16	M12	1.9	●
	CBT40-SLA40-90	40	90	70	65	80	30	20	M16	M12	1.8	
	CBT40-SLA42-90	42	90	70	65	80	30	20	M16	M12	1.8	
50	CBT50-SLA 6-90	6	90	25	25	40	18	—	M5	M5	3.7	
	CBT50-SLA 8-90	8	90	28	25	40	18	—	M6	M6	3.9	
	CBT50-SLA10-90	10	90	35	35	50	15	15	M8	M8	4.1	
	CBT50-SLA12-90	12	90	40	40	55	15	15	M10	M10	4.3	
	CBT50-SLA14-90	14	90	40	40	55	15	15	M10	M10	4.3	
	CBT50-SLA16-105	16	105	40	55	70	25	20	M12	M12	4.4	
	CBT50-SLA20-105	20	105	50	55	70	25	20	M12	M12	4.8	●
	CBT50-SLA25-105	25	105	50	55	70	25	20	M14	M12	4.7	●
	CBT50-SLA32-105	32	105	60	65	80	25	25	M16	M12	4.0	●
	CBT50-SLA40-105	40	105	70	65	80	25	25	M16	M12	4.5	●
	CBT50-SLA42-105	42	105	70	65	80	25	25	M16	M12	4.7	
	CBT50-SLA50.8-121	50.8	121	95	—	87	34	36	M20	—	5.0	

End Mill Holder &
Side Lock Arbor

SIDE LOCK ARBOR

SLA

JIS B6339 (MAS 403) BT



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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TAPER No.	MODEL No.	d1	L	D1	H		H1	H2	M	G	중량(kg)	재고
					MIN	MAX						
30	BT30-SLA 6-60	6	60	25	20	35	18	-	M5	M5	0.7	
	BT30-SLA 8-60	8	60	28	20	35	18	-	M6	M6	0.8	
	BT30-SLA10-60	10	60	35	35	50	14	13	M8	M8	0.9	
	BT30-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.1	
	BT30-SLA14-60	14	60	40	35	50	14	13	M10	M10	1.2	
	BT30-SLA16-75	16	75	40	55	70	25	20	M12	M12	1.3	●
	BT30-SLA20-75	20	75	50	55	70	25	20	M12	M12	1.4	●
	BT30-SLA25-75	25	75	50	55	70	25	20	M14	M12	1.5	●
40	BT30-SLA32-105	32	105	60	65	80	30	20	M16	M12	1.6	●
	BT40-SLA 6-60	6	60	25	20	35	18	-	M5	M5	1.1	
	BT40-SLA 8-60	8	60	28	20	35	18	-	M6	M6	1.1	
	BT40-SLA10-60	10	60	35	35	50	14	13	M8	M8	1.2	
	BT40-SLA12-60	12	60	40	35	50	14	13	M10	M10	1.4	
	BT40-SLA16-90	16	90	40	55	70	25	20	M12	M12	1.5	●
	BT40-SLA20-90	20	90	50	55	70	25	20	M12	M12	1.8	●
	BT40-SLA25-90	25	90	50	55	70	25	20	M14	M12	1.7	●
50	BT40-SLA32-90	32	90	60	65	80	30	20	M16	M12	1.9	●
	BT40-SLA40-90	40	90	70	65	80	30	20	M16	M12	1.8	●
	BT40-SLA42-90	42	90	70	65	80	30	20	M16	M12	1.8	●
	BT50-SLA 6-90	6	90	25	25	40	18	-	M5	M5	3.7	
	BT50-SLA 6-150	6	150	25	25	40	18	-	M5	M5	3.7	
	BT50-SLA 8-90	8	90	28	25	40	18	-	M6	M6	3.9	
	BT50-SLA 8-150	8	150	28	25	40	18	-	M6	M6	3.9	
	BT50-SLA10-90	10	90	35	35	50	15	15	M8	M8	4.1	
	BT50-SLA10-150	10	150	35	35	50	15	15	M8	M8	4.1	
	BT50-SLA12-90	12	90	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA12-150	12	150	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA14-90	14	90	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA14-150	14	150	40	40	55	15	15	M10	M10	4.3	
	BT50-SLA16-105	16	105	40	55	70	25	20	M12	M12	4.4	●
	BT50-SLA16-150	16	150	40	55	70	25	20	M12	M12	4.4	
	BT50-SLA20-105	20	105	50	55	70	25	20	M12	M12	4.8	●
	BT50-SLA20-150	20	150	50	55	70	25	20	M12	M12	4.8	
	BT50-SLA25-105	25	105	50	55	70	25	20	M14	M12	4.7	●
	BT50-SLA25-150	25	150	50	55	70	25	20	M14	M12	4.7	
	BT50-SLA32-105	32	105	60	65	80	25	25	M16	M12	4.0	●
	BT50-SLA32-150	32	150	60	65	80	25	25	M16	M12	4.0	
	BT50-SLA40-105	40	105	70	65	80	25	25	M16	M12	4.5	●
	BT50-SLA40-150	40	150	70	65	80	25	25	M16	M12	4.5	
	BT50-SLA42-105	42	105	70	65	80	25	25	M16	M12	4.7	●
	BT50-SLA42-150	42	150	70	65	80	25	25	M16	M12	4.7	
	BT50-SLA50.8-121	50.8	121	95	-	87	34	36	M20	-	5.0	●

End Mill Holder &
Side Lock Arbor

SIDE LOCK ARBOR (LONG TYPE)

SLA

JIS B6339 (MAS 403) - BT



FIG.1

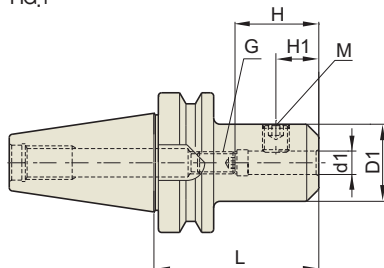
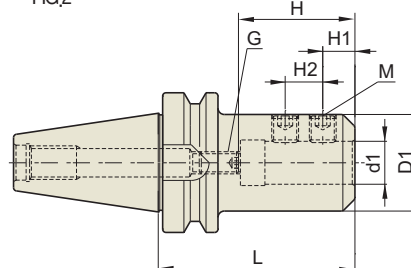


FIG.2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

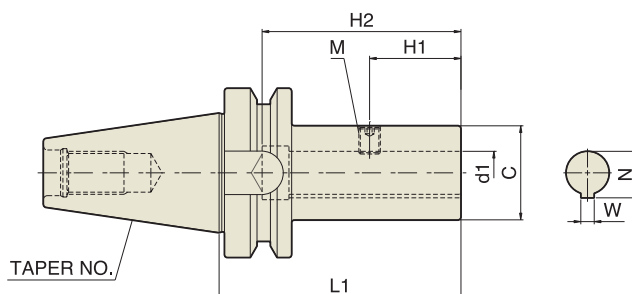
TAPER No.	MODEL No.	d1	L1	D1	H		H1	H2	M	G	중량(kg)	재고
					MIN	MAX						
BT50	BT50-SLA16-200	16	200	40	55	70	25	20	M12	M12		
	BT50-SLA16-250	16	250	40	55	70	25	20	M12	M12		
	BT50-SLA16-300	16	300	40	55	70	25	20	M12	M12		
	BT50-SLA20-200	20	200	50	55	70	25	20	M12	M12		
	BT50-SLA20-250	20	250	50	55	70	25	20	M12	M12		
	BT50-SLA20-300	20	300	50	55	70	25	20	M12	M12		
	BT50-SLA25-200	25	200	55	55	70	25	20	M14	M12		
	BT50-SLA25-250	25	250	55	55	70	25	20	M14	M12		
	BT50-SLA25-300	25	300	55	55	70	25	20	M14	M12		
	BT50-SLA32-200	32	200	65	65	80	25	25	M16	M12		
	BT50-SLA32-250	32	250	65	65	80	25	25	M16	M12		
	BT50-SLA32-300	32	300	65	65	80	25	25	M16	M12		
	BT50-SLA40-200	40	200	65	65	80	25	25	M16	M12		
	BT50-SLA40-250	40	250	65	65	80	25	25	M16	M12		
	BT50-SLA40-300	40	300	65	65	80	25	25	M16	M12		
	BT50-SLA42-200	42	200	65	65	80	25	25	M16	M12		
	BT50-SLA42-250	42	250	65	65	80	25	25	M16	M12		
	BT50-SLA42-300	42	300	65	65	80	25	25	M16	M12		

End Mill Holder &
Side Lock Arbor

SIDE LOCK ARBOR

SLB

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

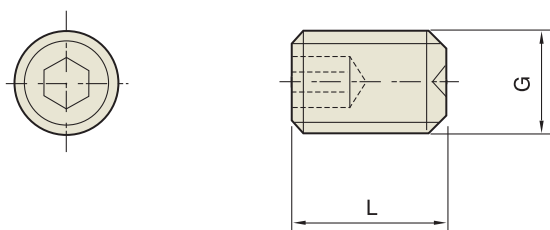
G Value

RPM

Coolant
System

TAPER No.	MODEL No.	d1	D1	L1	H1	H2	M	W	N	중량(kg)	재고
40	BT40-SLB26-105	26	50	105	40	85	M10	5	28.2	1.3	
	BT40-SLB35-135	35	60	135	55	105	M10	6	37.6	2.2	
	BT40-SLB35T-135	35	60	135	55	105	M10	7	38.2	2.2	
50	BT50-SLB26-105	26	50	105	40	85	M10	5	28.2	4.4	
	BT50-SLB35-135	35	60	135	55	106	M10	6	37.6	4.7	
	BT50-SLB35T-135	35	60	135	55	106	M10	7	38.2	4.7	
	BT50-SLB48-165	48	80	165	65	129	M10	8	51.0	6.5	

잠금나사 SIDE LOCK ARBOR용



Taper
Accuracy
AT3

G Value

RPM

Coolant
System

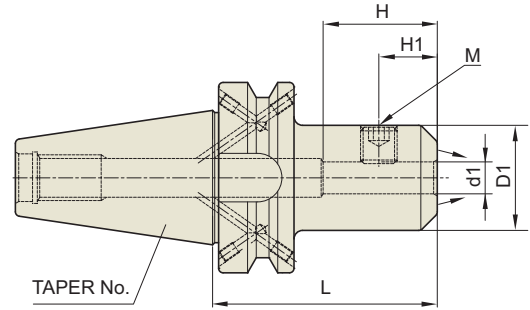
MODEL No.	G	L	HOLDER SIZE	중량(kg)	재고
M5×08 SL	M5×0.8	8	SLA6		●
M6×10 SL	M6×1.0	10	SLA8		●
M8×10 SL	M8×1.25	10	SLA10		●
M10×12 SL	M10×1.5	12	SLA12/SLA14		●
M12×16 SL	M12×1.75	16	SLA16/SLA20		●
M14×16 SL	M14×2.0	16	SLA25		●
M16×16 SL	M16×2.0	16	SLA32/SLA40/SLA42		●
M20×25 SL	M20×2.5	25	SLA50.8		●

End Mill Holder &
Side Lock Arbor

END MILL HOLDER (SPRAY NOZZLE)

EMH

JIS B6339 (MAS 403) - BT FORM AD/B



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD, C

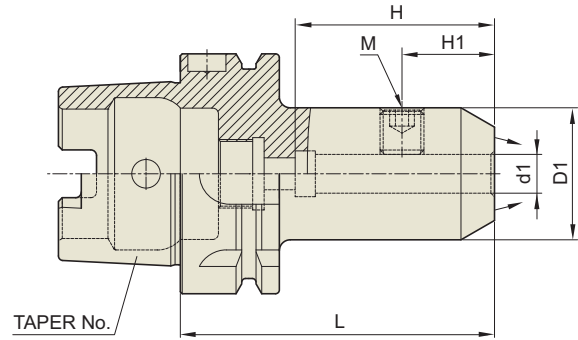
TAPER No.	MODEL No.	d1	D1	L	H	H1	M	중량(kg)	재고
40	BT40-EMH6C-50	6	25	50	35	18	M6	1.00	
	BT40-EMH8C-50	8	28	50	35	18	M8	1.00	
	BT40-EMH10C-63	10	35	63	35.5	20	M10	1.10	
	BT40-EMH12C-63	12	42	63	36	22.5	M12	1.30	
	BT40-EMH14C-63	14	44	63	36	22.5	M12	1.40	
	BT40-EMH16C-63	16	48	63	46	24	M14	1.70	
	BT40-EMH18C-63	18	50	63	46	24	M14	1.70	
	BT40-EMH20C-63	20	52	63	48	25	M16	1.80	
	BT40-EMH25C-90	25	65	90	55	25	M18	1.80	
	BT40-EMH32C-100	32	72	100	57	28	M20	2.00	
50	BT50-EMH6C-63	6	25	63	35	18	M6	3.30	
	BT50-EMH8C-63	8	28	63	35	18	M8	3.60	
	BT50-EMH10C-65	10	35	65	35.5	20	M10	3.80	
	BT50-EMH12C-80	12	42	80	36	22.5	M12	3.80	
	BT50-EMH14C-80	14	44	80	36	22.5	M12	4.00	
	BT50-EMH16C-80	16	48	80	46	24	M14	4.00	
	BT50-EMH18C-80	18	50	80	46	24	M14	4.20	
	BT50-EMH20C-80	20	52	80	48	25	M16	4.20	
	BT50-EMH25C-100	25	65	100	55	25	M18	4.60	
	BT50-EMH32C-105	32	72	105	57	28	M20	4.70	
	BT50-EMH40C-120	40	90	120	68	32	M20	4.90	

End Mill Holder &
Side Lock Arbor

END MILL HOLDER (SPRAY NOZZLE)

EMH

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893 - HSK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD, C
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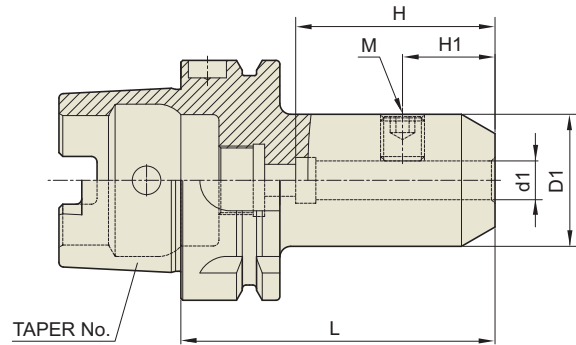
TAPER No.	MODEL No.	d1	D1	L	H	H1	M	중량(kg)	재고
40A	HSK40A-EMH6C-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8C-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10C-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12C-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14C-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16C-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6C-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10C-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12C-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14C-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18C-80	18	50	80	46	24	M14	1.40	
	HSK50A-EMH20C-80	20	52	80	48	25	M16	1.50	
63A	HSK63A-EMH6C-65	6	25	65	35	18	M6	0.80	
	HSK63A-EMH8C-65	8	28	65	35	18	M8	0.80	
	HSK63A-EMH10C-65	10	35	65	35.5	20	M10	0.90	
	HSK63A-EMH12C-80	12	42	80	36	22.5	M12	1.10	
	HSK63A-EMH14C-80	14	44	80	36	22.5	M12	1.20	
	HSK63A-EMH16C-80	16	48	80	46	24	M14	1.30	
	HSK63A-EMH18C-80	18	50	80	46	24	M14	1.40	
	HSK63A-EMH20C-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH25C-110	25	65	110	55	25	M18	2.30	
	HSK63A-EMH32C-110	32	72	110	57	28	M20	2.60	
100A	HSK100A-EMH6C-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8C-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10C-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12C-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14C-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16C-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18C-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20C-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25C-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32C-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40C-120	40	90	120	68	32	M20	5.50	

End Mill Holder &
Side Lock Arbor

END MILL HOLDER

EMH

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893 - HSK	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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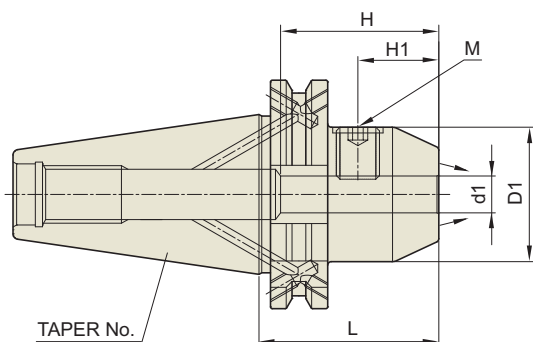
TAPER No.	MODEL No.	d1	D1	L	H	H1	M	중량(kg)	재고
40A	HSK40A-EMH6-60	6	25	60	35	18	M6	0.30	
	HSK40A-EMH8-60	8	28	60	35	18	M8	0.30	
	HSK40A-EMH10-60	10	35	60	35.5	20	M10	0.30	
	HSK40A-EMH12-70	12	42	70	36	22.5	M12	0.40	
	HSK40A-EMH14-70	14	44	70	36	22.5	M12	0.40	
	HSK40A-EMH16-80	16	48	80	46	24	M14	0.60	
50A	HSK50A-EMH6-65	6	25	65	35	18	M6	0.70	
	HSK50A-EMH8-65	8	28	65	35	18	M8	0.80	
	HSK50A-EMH10-65	10	35	65	35.5	20	M10	0.80	
	HSK50A-EMH12-80	12	42	80	36	22.5	M12	1.20	
	HSK50A-EMH14-80	14	44	80	36	22.5	M12	1.30	
	HSK50A-EMH16-80	16	48	80	46	24	M14	1.30	
	HSK50A-EMH18-80	18	50	80	46	24	M14	1.40	
	HSK50A-EMH20-80	20	52	80	48	25	M16	1.50	
63A	HSK63A-EMH6-65	6	25	65	35	18	M6	0.80	
	HSK63A-EMH8-65	8	28	65	35	18	M8	0.80	
	HSK63A-EMH10-65	10	35	65	35.5	20	M10	0.90	
	HSK63A-EMH12-80	12	42	80	36	22.5	M12	1.10	
	HSK63A-EMH14-80	14	44	80	36	22.5	M12	1.20	
	HSK63A-EMH16-80	16	48	80	46	24	M14	1.30	
	HSK63A-EMH18-80	18	50	80	46	24	M14	1.40	
	HSK63A-EMH20-80	20	52	80	48	25	M16	1.50	
	HSK63A-EMH25-110	25	65	110	55	25	M18	2.30	
	HSK63A-EMH32-110	32	72	110	57	28	M20	2.60	
100A	HSK100A-EMH6-80	6	25	80	35	18	M6	2.15	
	HSK100A-EMH8-80	8	28	80	35	18	M8	2.20	
	HSK100A-EMH10-80	10	35	80	35.5	20	M10	2.35	
	HSK100A-EMH12-80	12	42	80	36	22.5	M12	2.45	
	HSK100A-EMH14-80	14	44	80	36	22.5	M12	2.65	
	HSK100A-EMH16-100	16	48	100	46	24	M14	2.85	
	HSK100A-EMH18-100	18	50	100	46	24	M14	2.90	
	HSK100A-EMH20-100	20	52	100	48	25	M16	2.95	
	HSK100A-EMH25-100	25	65	100	55	25	M18	3.45	
	HSK100A-EMH32-100	32	72	100	57	28	M20	3.65	
	HSK100A-EMH40-120	40	90	120	68	32	M20	5.50	

End Mill Holder &
Side Lock Arbor

END MILL HOLDER (SPRAY NOZZLE)

EMH

DIN69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD/B, C

TAPER No.	MODEL No.	d1	D1	L	H	H1	M	중량(kg)	재고
40	SK40AD/B-EMH6C-50	6	25	50	35	18	M6	0.86	
	SK40AD/B-EMH8C-50	8	28	50	35	18	M8	0.89	
	SK40AD/B-EMH10C-50	10	35	50	35.5	20	M10	0.95	
	SK40AD/B-EMH12C-50	12	42	50	36	22.5	M12	1.03	
	SK40AD/B-EMH14C-50	14	44	50	36	22.5	M12	1.26	
	SK40AD/B-EMH16C-63	16	48	63	46	24	M14	1.28	
	SK40AD/B-EMH18C-63	18	50	63	46	24	M14	1.35	
	SK40AD/B-EMH20C-63	20	52	63	48	25	M16	1.40	
	SK40AD/B-EMH25C-100	25	65	100	55	25	M18	2.29	
	SK40AD/B-EMH32C-100	32	72	100	57	28	M20	2.50	
50	SK50AD/B-EMH6C-63	6	25	63	35	18	M6	2.70	
	SK50AD/B-EMH8C-63	8	28	63	35	18	M8	2.70	
	SK50AD/B-EMH10C-63	10	35	63	35.5	20	M10	2.90	
	SK50AD/B-EMH12C-63	12	42	63	36	22.5	M12	2.90	
	SK50AD/B-EMH14C-63	14	44	63	36	22.5	M12	3.00	
	SK50AD/B-EMH16C-63	16	48	63	46	24	M14	3.00	
	SK50AD/B-EMH18C-63	18	50	63	46	24	M14	3.00	
	SK50AD/B-EMH20C-63	20	52	63	48	25	M16	3.05	
	SK50AD/B-EMH25C-80	25	65	80	55	25	M18	3.73	
	SK50AD/B-EMH32C-100	32	72	100	57	28	M20	4.53	
	SK50AD/B-EMH40C-120	40	90	120	68	32	M20	4.80	

End Mill Holder &
Side Lock Arbor

END MILL HOLDER

EMH

DIN 69871 - SK



FIG.1

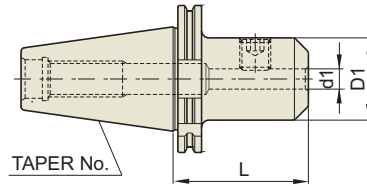
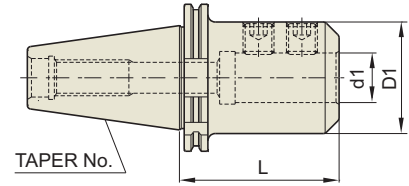


FIG.2



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

STUB

TAPER No.	MODEL No.	d1	D1	L	FIG.	중량(kg)	재고
40	SK40-EMH16-35	16	44	35	1	0.86	
	SK40-EMH20-35	20	44	35	1	0.91	
	SK40-EMH25-60	25	50	60	1	0.97	

STANDARD

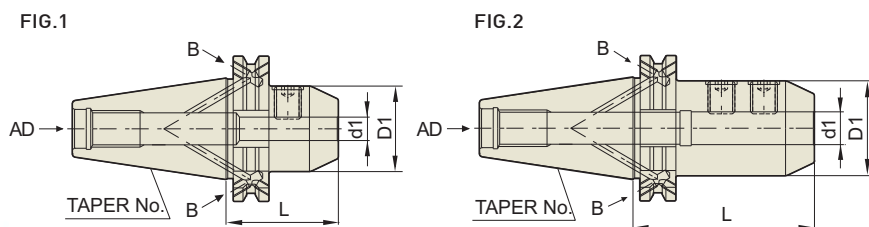
TAPER No.	MODEL No.	d1	D1	L	FIG.	중량(kg)	재고
30	SK30-EMH6-50	6	25	50	1	0.73	
	SK30-EMH8-50	8	28	50	1	0.83	
	SK30-EMH10-50	10	35	50	1	0.90	
	SK30-EMH12-50	12	42	50	1	0.90	
	SK30-EMH16-63	16	48	63	1	1.10	
40	SK40-EMH6-50	6	25	50	1	0.86	
	SK40-EMH8-50	8	28	50	1	0.89	
	SK40-EMH10-50	10	35	50	1	0.95	
	SK40-EMH12-50	12	42	50	1	1.03	
	SK40-EMH16-63	16	48	63	1	1.26	
	SK40-EMH20-63	20	52	63	1	1.28	
	SK40-EMH25-100	25	65	100	2	2.28	
	SK40-EMH32-100	32	72	100	2	2.50	
50	SK50-EMH6-63	6	25	63	1	2.70	
	SK50-EMH8-63	8	28	63	1	2.70	
	SK50-EMH10-63	10	35	63	1	2.90	
	SK50-EMH12-63	12	42	63	1	2.90	
	SK50-EMH16-63	16	48	63	1	3.00	
	SK50-EMH20-63	20	52	63	1	3.05	
	SK50-EMH25-80	25	65	80	1	3.73	
	SK50-EMH32-100	32	72	100	1	4.53	
	SK50-EMH40-100	40	80	100	1	4.77	
	SK50-EMH50-100	50	98	120	1	7.03	

End Mill Holder &
Side Lock Arbor

END MILL HOLDER

EMH

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD/B

STANDARD

TAPER No.	MODEL No.	d1	D1	L	FIG.	중량(kg)	재고
40	SK40AD/B-EMH6-50	6	25	50	1	0.86	
	SK40AD/B-EMH8-50	8	28	50	1	0.89	
	SK40AD/B-EMH10-50	10	35	50	1	0.95	
	SK40AD/B-EMH12-50	12	42	50	1	1.03	
	SK40AD/B-EMH16-63	16	48	63	1	1.26	
	SK40AD/B-EMH20-63	20	52	63	1	1.28	
	SK40AD/B-EMH25-100	25	65	100	2	2.29	
	SK40AD/B-EMH32-100	32	72	100	2	2.50	
50	SK50AD/B-EMH6-63	6	25	63	1	2.70	
	SK50AD/B-EMH8-63	8	28	63	1	2.70	
	SK50AD/B-EMH10-63	10	35	63	1	2.90	
	SK50AD/B-EMH12-63	12	42	63	1	2.90	
	SK50AD/B-EMH16-63	16	48	63	1	3.00	
	SK50AD/B-EMH20-63	20	52	63	1	3.05	
	SK50AD/B-EMH25-80	25	65	80	1	3.73	
	SK50AD/B-EMH32-100	32	72	100	1	4.53	
	SK50AD/B-EMH40-100	40	80	100	1	4.77	
	SK50AD/B-EMH50-100	50	98	100	1	7.03	

End Mill Holder &
Side Lock Arbor

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM



FACE MILL SYSTEM

JIS B6339(MAS403)-BT

ANSI B5.18 -NT

DIN228 - MT

DIN69893/ISO12164-1 HSK

SPARE PARTS

JIS B6339(MAS403)-BT

- 2면구속형 / 일반형 / LONG TYPE

ANSI B5.18 -NT

DIN228 - MTA

DIN69893/ISO12164-1 HSK

SPARE PARTS

- KEY / MOUNTING BOLT

FACE MILL ARBOR **NEW**

FMA

JIS B6339 (MAS 403) - BT



FIG.1

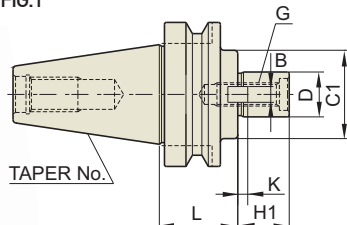
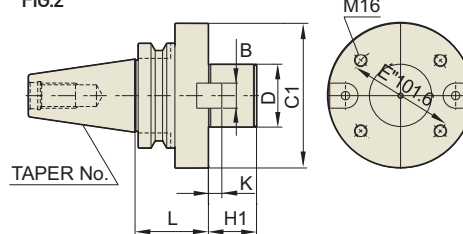


FIG.2



CBT	Taper Accuracy AT3	G Value G2.5	RPM 25,000	Coolant System AD
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CBT (BT 2변 구속용)

Unit : mm

TAPER No.	MODEL No.	D	L1	C1	H1	B	K	G	FIG.	Weight (kg)	Stock
30	CBT30-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.1	
	CBT30-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.2	
40	CBT40-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.5	●
	CBT40-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	3.1	
	CBT40-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.9	●
	CBT40-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	2.7	
	CBT40-FMA38.1 -60	38.1	60	80	34	15.9	9	M20	1	2.9	●
50	CBT50-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	3.7	
	CBT50-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	4.6	
	CBT50-FMA25.4 -150	25.4	150	50	22	9.5	5	M12	1	5.5	
	CBT50-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	4.5	
	CBT50-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	5.3	
	CBT50-FMA31.75-105	31.75	105	60	30	12.7	7	M16	1	5.8	
	CBT50-FMA31.75-150	31.75	150	60	30	12.7	7	M16	1	6.3	
	CBT50-FMA38.1 -45	38.1	45	80	34	15.9	9	M20	1	4.3	
	CBT50-FMA38.1 -75	38.1	75	80	34	15.9	9	M20	1	5.6	
	CBT50-FMA38.1 -105	38.1	105	80	34	15.9	9	M20	1	6.0	
	CBT50-FMA38.1 -150	38.1	150	80	34	15.9	9	M20	1	6.5	
	CBT50-FMA50.8 -45	50.8	45	100	36	19.05	10	M24	1	4.9	
	CBT50-FMA50.8 -75	50.8	75	100	36	19.05	10	M24	1	6.8	
	CBT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.7	

FACE MILL ARBOR

FMA

JIS B6339 (MAS 403) - BT



FIG.1

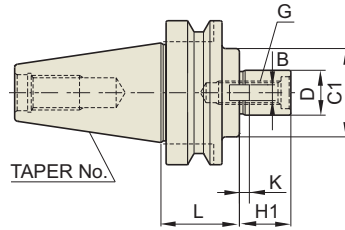
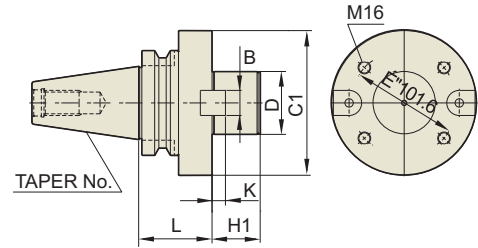


FIG.2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
G6.3

RPM
12,000

Coolant
System
AD

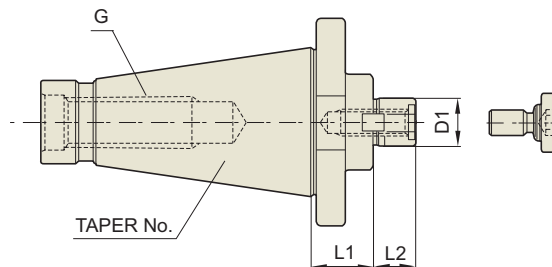
TAPER No.	MODEL No.	D	L1	C1	H1	B	K	G	FIG.	중량(kg)	재고
BT30	BT30-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.1	●
	BT30-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.2	●
BT40	BT40-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	1.5	●
	BT40-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	3.1	
	BT40-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	1.9	●
	BT40-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	2.7	
	BT40-FMA38.1 -60	38.1	60	80	34	15.9	9	M20	1	2.9	●
BT50	BT50-FMA25.4 -45	25.4	45	50	22	9.5	5	M12	1	3.7	●
	BT50-FMA25.4 -90	25.4	90	50	22	9.5	5	M12	1	4.6	●
	BT50-FMA25.4 -150	25.4	150	50	22	9.5	5	M12	1	5.5	●
	BT50-FMA25.4 -200	25.4	200	70	22	9.5	5	M13	1		
	BT50-FMA25.4 -250	25.4	250	70	22	9.5	5	M14	1		
	BT50-FMA25.4 -300	25.4	300	70	22	9.5	5	M15	1		
	BT50-FMA31.75-45	31.75	45	60	30	12.7	7	M16	1	4.5	●
	BT50-FMA31.75-75	31.75	75	60	30	12.7	7	M16	1	5.3	●
	BT50-FMA31.75-105	31.75	105	60	30	12.7	7	M16	1	5.8	●
	BT50-FMA31.75-150	31.75	150	60	30	12.7	7	M16	1	6.3	●
	BT50-FMA31.75-200	31.75	200	60	30	12.7	7	M17	1		
	BT50-FMA31.75-250	31.75	250	60	30	12.7	7	M18	1		
	BT50-FMA31.75-300	31.75	300	60	30	12.7	7	M19	1		
	BT50-FMA38.1 -45	38.1	45	80	34	15.9	9	M20	1	4.3	●
	BT50-FMA38.1 -75	38.1	75	80	34	15.9	9	M20	1	5.6	●
	BT50-FMA38.1 -105	38.1	105	80	34	15.9	9	M20	1	6.0	●
	BT50-FMA38.1 -150	38.1	150	80	34	15.9	9	M20	1	6.5	●
	BT50-FMA38.1 -200	38.1	200	80	34	15.9	9	M21	1		
	BT50-FMA38.1 -250	38.1	250	80	34	15.9	9	M22	1		
	BT50-FMA38.1 -300	38.1	300	80	34	15.9	9	M23	1		
	BT50-FMA50.8 -45	50.8	45	100	36	19.05	10	M24	1	4.9	●
	BT50-FMA50.8 -75	50.8	75	100	36	19.05	10	M24	1	6.8	●
	BT50-FMA50.8 -200	50.8	200	100	36	19.05	10	M25	1		
	BT50-FMA50.8 -250	50.8	250	100	36	19.05	10	M26	1		
	BT50-FMA50.8 -300	50.8	300	100	36	19.05	10	M27	1		
	BT50-FMA47.625-75	47.625	75	128.57	38	25.4	12.5	-	2	7.7	●
	BT50-FMA47.625-150	47.625	150	128.57	38	25.4	12.5	-	2		
	BT50-FMA47.625-200	47.625	200	128.57	38	25.4	12.5	-	2		

Face Mill
System

FACE MILL ARBOR

FMA

ANSI B5.18 - NT



DIN 2080
- NT

Taper
Accuracy
AT3

G Value

RPM

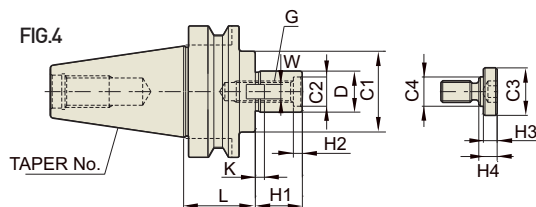
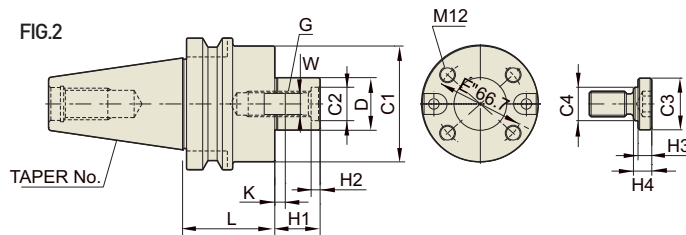
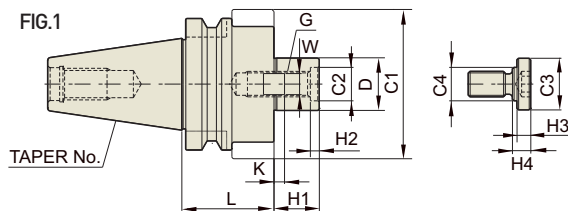
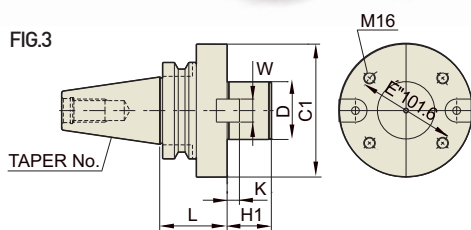
Coolant
System

TAPER No.	MODEL No.	CUTTERØ	D1	L1	L2	DRAW THREAD	구형 MODEL	중량(kg)	재고
NT30	NT30 - FMA 25.4	3"〔75Ø〕	25.4	30	22	U5/8-11〔M16x2〕	NT30-3R		
	NT30 - FMA 31.75	4"〔100Ø〕	31.75	30	30	U5/8-11〔M16x2〕	NT30-4R		
NT40	NT40 - FMA 25.4	3"〔76Ø〕	25.4	30	22	U5/8-11〔M16x2〕	NT40-3R	1.45	
	NT40 - FMA 31.75	4"〔100Ø〕	31.75	30	30	U5/8-11〔M16x2〕	NT40-4R	1.75	●
	NT40 - FMA 38.1	5"〔125Ø〕	38.1	30	34	U5/8-11〔M16x2〕	NT40-5R	1.93	●
	NT40 - FMA 50.8	6"〔120Ø〕	50.8	30	36	U5/8-11〔M16x2〕	NT40-6R	2.55	
NT50	NT50 - FMA 25.4 -30	3"〔76Ø〕	25.4	30	22	U1-8〔M24x3〕	NT50-3R	3.30	
	NT50 - FMA 25.4 -100	3"〔77Ø〕	25.4	100		U1-8〔M24x3〕			
	NT50 - FMA 25.4 -150	3"〔78Ø〕	25.4	150		U1-8〔M24x3〕			
	NT50 - FMA 31.75-30	4"〔100Ø〕	31.75	30	30	U1-8〔M24x3〕	NT50-4R	3.40	●
	NT50 - FMA 31.75-100	4"〔100Ø〕	31.75	100		U1-8〔M24x3〕			
	NT50 - FMA 31.75-150	4"〔100Ø〕	31.75	150		U1-8〔M24x3〕			
	NT50 - FMA 38.1 -30	5"〔125Ø〕	38.1	30	34	U1-8〔M24x3〕	NT50-5R	3.60	●
	NT50 - FMA 38.1 -100	5"〔125Ø〕	38.1	100		U1-8〔M24x3〕			
	NT50 - FMA 38.1 -150	5"〔125Ø〕	38.1	150		U1-8〔M24x3〕			
	NT50 - FMA 50.8 -30	6"〔120Ø〕	50.8	30	36	U1-8〔M24x3〕	NT50-6R	3.90	●
	NT50 - FMA 50.8 -100	6"〔120Ø〕	50.8	100		U1-8〔M24x3〕			
	NT50 - FMA 50.8 -150	6"〔120Ø〕	50.8	150		U1-8〔M24x3〕			
	NT50 - FMA 47.625-45	8"〔200Ø〕	47.625	45	38	U1-8〔M24x3〕	NT50-8R	4.90	●

FACE MILL ARBOR **NEW**

FMB

JIS B6339 (MAS 403) - BT



CBT (BT 2번 구속용)

■ METRIC TYPE

CBT	Taper Accuracy	G Value	RPM	Coolant System
	AT3	G2.5	25,000	AD

Unit : mm

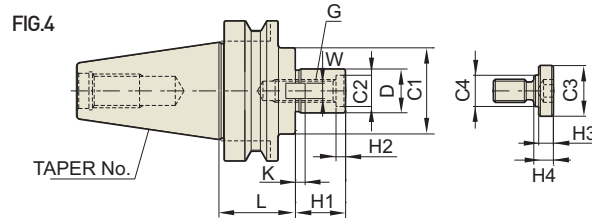
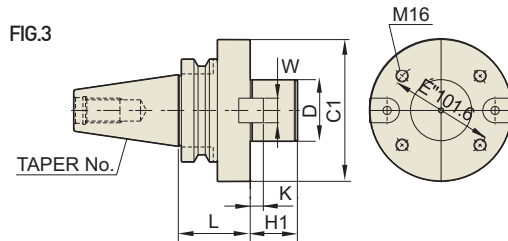
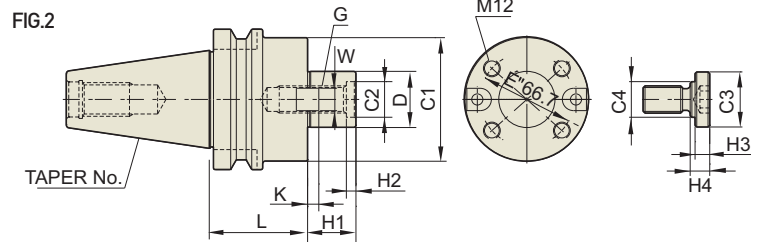
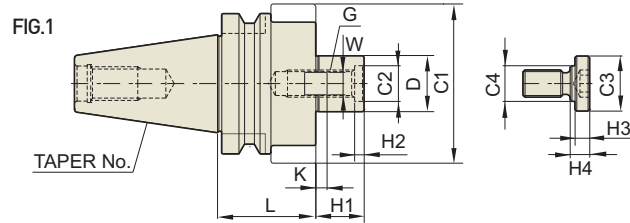
TAPER No.	MODEL No.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	FIG.	중량(kg)	재고
30	CBT30-FMB27- 40	27	40	80	-	26	-	12	6	M12	33	23	10	10	4	2.1	●
40	CBT40-FMB27- 60	27	60	80	-	26	-	12	6	M12	33	23	10	10	4	2.5	●
	CBT40-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	10	4	4.7	●
	CBT40-FMB40- 60	40	60	85	28	26	6	16	8.5	M20	50	27	14	20	4	7.4	●
50	CBT50-FMB27- 45	27	45	80	-	26	-	12	6	M12	33	23	10	12	1	4.0	
	CBT50-FMB27- 90	27	90	80	-	26	-	12	6	M12	33	23	10	12	1	5.8	
	CBT50-FMB27-150	27	150	80	-	26	-	12	6	M12	33	23	10	12	1	8.2	
	CBT50-FMB40- 45	40	45	85	28	26	6	16	8.5	M20	50	27	14	20	1	4.7	
	CBT50-FMB40- 75	40	75	85	28	26	6	16	8.5	M20	50	27	14	20	1	6.1	
	CBT50-FMB40- 105	40	105	85	28	26	6	16	8.5	M20	50	27	14	20	1	8.1	
	CBT50-FMB40F-75	40	75	110	28	26	6	16	8.5	M20	50	27	14	20	2	6.6	
	CBT50-FMB60- 75	60	75	140	-	25	-	25.4	12.5	-	-	-	-	-	3	7.9	

Face Mill
System

FACE MILL ARBOR

FMB

JIS B6339 (MAS 403) - BT



METRIC TYPE

JIS B6339 - BT	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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TAPER No.	MODEL No.	FIG.	D	L	C1	C2	H1	H2	W	K	G	C3	C4	H3	H4	중량(kg)	재고
30	BT30-FMB27-40	4	27	40	80	-	26	-	12	6	M12	33	23	10	10	2.1	
40	BT40-FMB27-60	4	27	60	80	-	26	-	12	6	M12	33	23	10	10	2.5	
	BT40-FMB27-90	4	27	90	80	-	26	-	12	6	M12	33	23	10	10	4.7	
	BT40-FMB40-60	4	40	60	85	28	26	6	16	8.5	M20	50	27	14	20	7.4	
50	BT50-FMB27-45	1	27	45	80	-	26	-	12	6	M12	33	23	10	10	4.0	
	BT50-FMB27-90	1	27	90	80	-	26	-	12	6	M12	33	23	10	10	5.8	
	BT50-FMB27-150	1	27	150	80	-	26	-	12	6	M12	33	23	10	10	8.2	
	BT50-FMB40-45	1	40	45	85	28	26	6	16	8.5	M20	50	27	14	20	4.7	●
	BT50-FMB40-75	1	40	75	85	28	26	6	16	8.5	M20	50	27	14	20	6.1	●
	BT50-FMB40-105	1	40	105	85	28	26	6	16	8.5	M20	50	27	14	20	8.1	
	BT50-FMB40-150	1	40	150	85	28	26	6	16	8.5	M20	50	27	14	20		
	BT50-FMB40-200	1	40	200	85	28	26	6	16	8.5	M20	50	27	14	20		
	BT50-FMB40F-75	2	40	75	110	28	26	6	16	8.5	M20	50	27	14	20	6.6	●
	BT50-FMB60-75	3	60	75	140	-	25	-	25.4	12.5	-	-	-	-	-	7.9	●



FIG.1

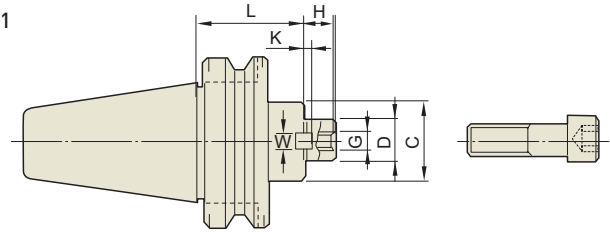
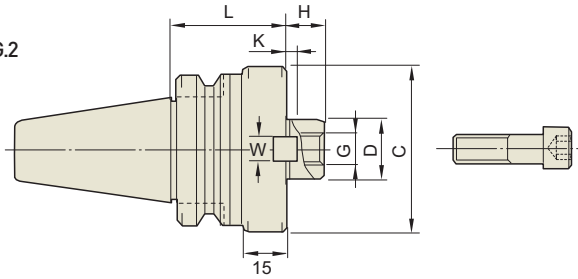


FIG.2



CBT

Taper Accuracy
AT3

G Value
G2.5

RPM
25,000

Coolant System
AD

CBT (BT 2면 구속용)

■ METRIC TYPE

Unit : mm

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	중량(kg)	재고
30	CBT30-FMC22- 45	22	45	45	18	10	5	M10	2	0.8	
40	CBT40-FMC22- 45	22	45	45	18	10	5	M10	1	1.3	
	CBT40-FMC27- 60	27	60	70	20	12	6	M12	2	1.5	
	CBT40-FMC32- 60	32	60	85	22	14	7	M16	2	2.3	
	CBT40-FMC32- 105	32	105	85	22	14	7	M16	1	5.5	
50	CBT50-FMC22- 60	22	60	45	18	10	5	M10	1	4.2	
	CBT50-FMC22-105	22	105	45	18	10	5	M10	1	4.7	
	CBT50-FMC22-150	22	150	45	18	10	5	M10	1	5.3	
	CBT50-FMC27- 45	27	45	70	20	12	6	M12	1	4.1	
	CBT50-FMC27- 90	27	90	70	20	12	6	M12	1	5.5	
	CBT50-FMC27-150	27	150	70	20	12	6	M12	1	7.3	
	CBT50-FMC32- 60	32	60	85	22	14	7	M16	1	4.2	
	CBT50-FMC32-105	32	105	85	22	14	7	M16	1	5.5	
	CBT50-FMC32-150	32	150	85	22	14	7	M16	1	7.0	

FACE MILL ARBOR

FMC

JIS B6339 (MAS 403) - BT



FIG.1

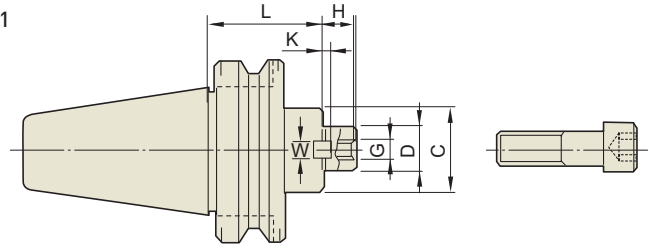
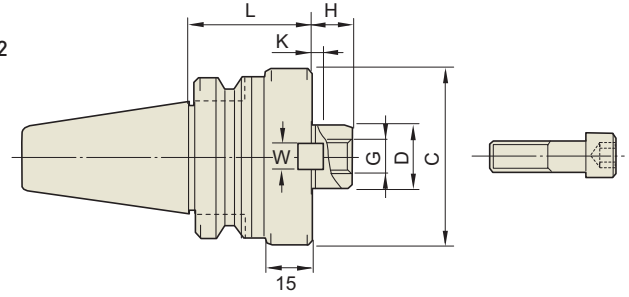


FIG.2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value
G6.3

RPM
15,000

Coolant
System
AD

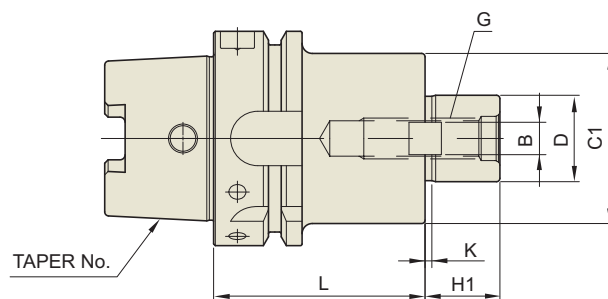
■ METRIC TYPE

TAPER No.	MODEL No.	D	L	C	H	W	K	G	FIG.	중량(kg)	재고
BT30	BT30-FMC22- 45	22	45	45	18	10	5	M10	3	0.8	●
BT40	BT40-FMC22- 45	22	45	45	15	10	5	M10	1	1.3	●
	BT40-FMC27- 60	27	60	70	20	12	6	M12	3	1.5	●
	BT40-FMC32- 60	32	60	85	22	14	7	M16	3	2.3	●
BT50	BT50-FMC22- 60	22	60	45	18	10	5	M10	1	4.2	
	BT50-FMC22-105	22	105	45	18	10	5	M10	1	4.7	●
	BT50-FMC22-150	22	150	45	18	10	5	M10	1	5.3	●
	BT50-FMC22-200	22	200	50	18	10	5	M10	1		
	BT50-FMC22-250	22	250	50	18	10	5	M10	1		
	BT50-FMC22-300	22	300	50	18	12	6	M10	1		
	BT50-FMC27- 45	27	45	70	20	12	6	M12	1	4.1	
	BT50-FMC27- 90	27	95	70	20	12	6	M12	1	5.5	●
	BT50-FMC27-150	27	150	70	20	12	6	M12	1	7.3	
	BT50-FMC27-200	27	200	70	20	12	6	M12	1		
	BT50-FMC27-250	27	250	70	20	12	6	M12	1		
	BT50-FMC27-300	27	300	70	20	12	6	M12	1		
	BT50-FMC32- 60	32	60	85	22	14	7	M16	1	4.2	
	BT50-FMC32-105	32	105	85	22	14	7	M16	1	5.5	●
	BT50-FMC32-150	32	150	85	22	14	7	M16	1	7.0	
	BT50-FMC32-200	32	200	85	22	14	7	M16	1		
	BT50-FMC32-250	32	250	85	22	14	7	M16	1		
	BT50-FMC32-300	32	300	85	22	14	7	M16	1		

FACE MILL ARBOR

FMA

DIN 69893/ISO 12164-1 HSK



DIN 69893 - HSK	Taper Accuracy	G Value 6.3	RPM 15,000	Coolant System AD
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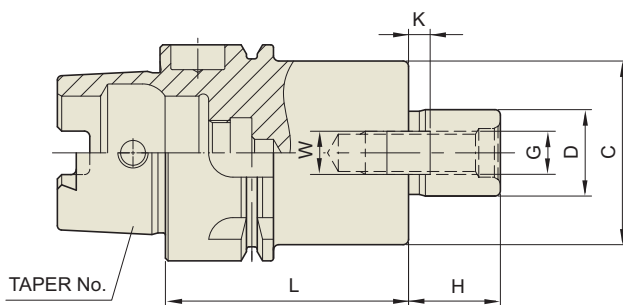
Unit : mm

TAPER No.	MODEL No.	D	C1	L	H1	B	K	G	중량(kg)	재고
40A	HSK40A-FMA25.4-50	25.4	50	50	22	9.5	5	M12		
50A	HSK50A-FMA25.4-60	25.4	50	60	22	9.5	5	M12		
63A	HSK63A-FMA25.4-45	25.4	50	45	22	9.5	5	M12		
	HSK63A-FMA31.75-50	31.75	60	50	30	12.7	7	M16		
100A	HSK100A-FMA25.4-45	25.4	50	45	22	9.5	5	M12		
	HSK100A-FMA31.75-50	31.75	60	50	30	12.7	7	M16		
	HSK100A-FMA38.1-55	38.1	80	55	34	15.9	9	M20		
	HSK100A-FMA50.8-60	50.8	100	60	36	19.05	10	M24		

FACE MILL ARBOR

FMC

DIN 69893/ISO 12164-1 HSK FORM A



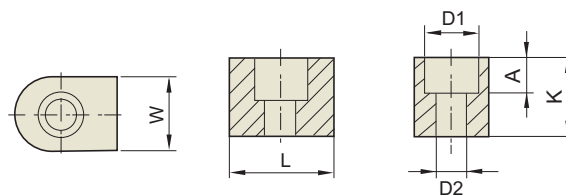
DIN 69893 - HSK	Taper Accuracy AT3	G Value G6.3	RPM 15,000	Coolant System AD
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TAPER No.	MODEL No.	D	C	L	H	W	K	G	중량(kg)	재고
40A	HSK40A-FMC16-45	16	34	45	17	8	4	M8	0.40	
	HSK40A-FMC22-50	22	45	50	18	10	5	M10	0.50	●
	HSK40A-FMC27-60	27	68	60	20	12	7	M12	0.70	
50A	HSK50A-FMC16-40	16	34	40	17	8	4	M8		
	HSK50A-FMC22-50	22	45	50	18	10	5	M10		
	HSK50A-FMC27-60	27	70	60	20	12	6	M12		
63A	HSK63A-FMC22-45	22	45	45	18	10	5	M10		
	HSK63A-FMC27-60	27	70	60	20	12	6	M12		
	HSK63A-FMC32-60	32	85	60	22	14	7	M16		
100A	HSK100A-FMC22-50	22	45	50	18	10	5	M10		
	HSK100A-FMC27-60	27	70	60	20	12	6	M12		
	HSK100A-FMC32-60	32	85	60	22	14	7	M16		

Face Mill
System

PARTS for FACE MILL ARBOR

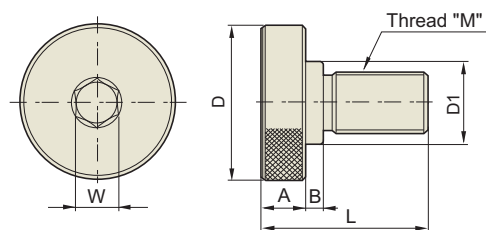
KEY



Unit : mm

Size	W	K	L	D1	D2	A	Applicable arbor
8×7×12.8	8	7	12.8	5.8	3.2	3.2	SMA16
10×7.8×15.5	10	7.8	15.5	7.5	4.2	4.3	SMA22
9.52×9.52×10.2	9.52	9.52	10.2	7.5	4.5	5.2	FMA25.4 / FMB25.4
9.5×12×11	9.5	12	11	7.5	4.2	5	FMC25.4
12×9×18.5	12	9	18.5	9	5.3	5.5	SMA27
10×10×11	10	10	11	7.5	4.2	5	FMC22
14×11.5×20.5	14	11.5	20.5	10.5	6.5	6.5	SMA32
12×13×18	12	13	18	9	5.3	8	FMB27 / FMC27
16×13.5×23.5	16	13.5	23.5	10.5	6.5	6.5	SMA40
12.7×12.7×12.7	12.7	12.7	12.7	7.5	4.5	5.2	FMA31.75
15.87×15.87×18.5	15.87	15.87	18.5	10.3	6.6	7.5	FMA38.1 / FMB40 / FMB40F
14×15×20	14	15	20	10.5	6.3	8	FMC32
18×18×28.5	18	18	28.5	10.5	6.5	10	SMA50
19×18×22	19	18	22	10.5	6.3	7	FMA50.8

MOUNTING BOLT



Unit : mm

Size	M	D	D1	L	A	B	W	Applicable arbor
MB8	8X1.25	20	15	23	7	2	6	SMA16
MB10	10X1.5	28	18	29	9	2	8	SMA22
MB12	12×1.75	33	23	32	10	2	10	SMA27 / FMB27 / FMA25.4
MB16	16×2.0	40	23	42	10	6	12	SMA32 / FMA3.1.75
MB20	20×2.5	50	27	54	14	6	14	SMA40 / FMA38.1 / FMB40 / FMB40F
MB24	24×3.0	65	37	62	14	10	17	FMA50.8

SHELL MILL ARBOR

JIS B6339(MAS403)-BT

DIN69893/ISO12164-1 HSK

DIN69871 - SK

SPARE PARTS

JIS B6339(MAS403)-BT

• 2면구속형 / 일반형

DIN69893/ISO12164-1 HSK

DIN69871 - SK

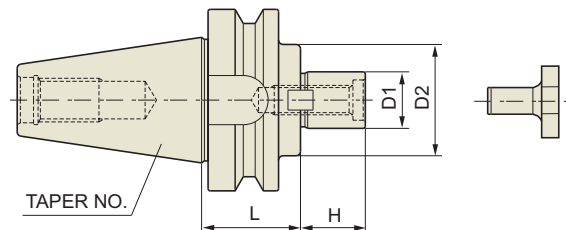
SPARE PARTS

• KEY / MOUNTING BOLT

SHELL MILL ARBOR **NEW**

SMA

JIS B6339 (MAS 403) - BT



CBT (BT 2면 구속용)

CBT	Taper Accuracy AT3	G Value 2.5	RPM 25,000	Coolant System AD
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STANDARD

Unit : mm

TAPER No.	MODEL No.	D1	D2	L	H	중량(kg)	재고
30	CBT30 - SMA16 - 50	16	32	50	17		
	CBT30 - SMA22 - 50	22	40	50	19		
	CBT30 - SMA27 - 50	27	48	50	21		
40	CBT40 - SMA16 - 60	16	32	60	17		●
	CBT40 - SMA22 - 60	22	40	60	19		●
	CBT40 - SMA27 - 60	27	48	60	21		●
	CBT40 - SMA32 - 60	32	58	60	24		●
	CBT40 - SMA40 - 60	40	70	60	27		●
50	CBT50 - SMA16 - 75	16	32	75	17		
	CBT50 - SMA22 - 75	22	40	75	19		●
	CBT50 - SMA27 - 75	27	48	75	21		●
	CBT50 - SMA32 - 75	32	58	75	24		●
	CBT50 - SMA40 - 75	40	70	75	27		●
	CBT50 - SMA50 - 75	50	90	75	30		

EXTENDED

TAPER No.	MODEL No.	D1	D2	L	H	중량(kg)	재고
40	CBT40 - SMA16 - 120	16	32	120	17		
	CBT40 - SMA22 - 120	22	40	120	19		
	CBT40 - SMA27 - 120	27	48	120	21		
	CBT40 - SMA32 - 120	32	58	120	24		
50	CBT50 - SMA16 - 120	16	32	120	17		
	CBT50 - SMA22 - 120	22	40	120	19		
	CBT50 - SMA27 - 120	27	48	120	21		
	CBT50 - SMA32 - 120	32	58	120	24		
	CBT50 - SMA40 - 120	40	70	120	27		

SHELL MILL ARBOR

SMA

JIS B6339 (MAS 403) - BT

FIG.1

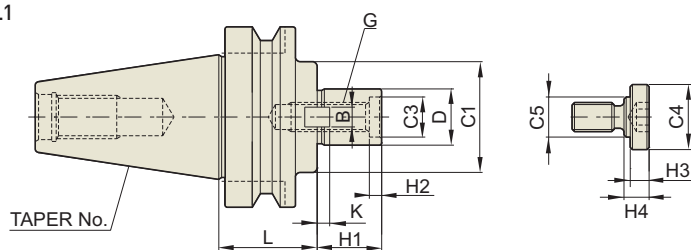
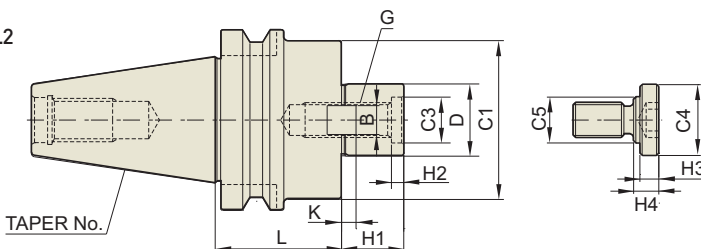
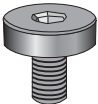


FIG.2



JIS B6339 - BT	Taper Accuracy AT3	G Value 6.3	RPM 15,000	Coolant System AD
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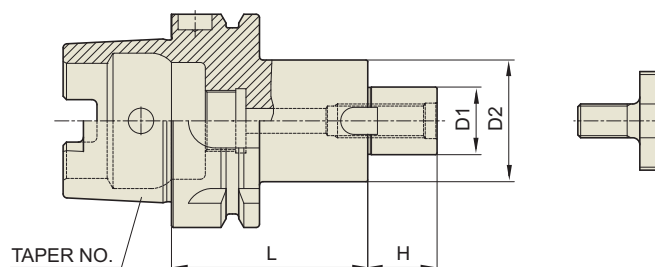
TAPER No.	MODEL No.	FIG.	D	L	C1	C2	C3	H1	H2	B	K	G	C4	C5	H3	H4	중량 (kg)	재고
30	BT30-SMA16-30	1	16	30	38	-	-	17	-	8	3	M8	20	15	7	9	0.9	
	BT30-SMA22-30	1	22	30	42	-	-	27	-	8	3.5	M10	28	18	9	11	1.0	
40	BT40-SMA16-60	1	16	60	38	-	-	17	-	8	3	M8	20	15	7	9	1.3	
	BT40-SMA16-120	1	16	120	38	-	-	17	-	8	3	M8	20	15	7	9	1.7	
	BT40-SMA22-60	1	22	60	42	-	-	27	-	8	3.5	M10	28	18	9	11	1.4	
	BT40-SMA22-120	1	22	120	42	-	-	27	-	8	3.5	M10	28	18	9	11	2.1	
	BT40-SMA27-45	2	27	45	50	-	-	36	-	10	4	M12	33	23	10	12	1.4	
	BT40-SMA27-105	2	27	105	50	-	-	36	-	10	4	M12	33	23	10	12	2.3	
	BT40-SMA32-45	2	32	45	60	-	-	38	-	10	4.5	M16	40	23	10	16	1.6	
	BT40-SMA32-75	2	32	75	60	-	-	38	-	10	4.5	M16	40	23	10	16	2.3	
	BT40-SMA40-60	2	40	60	80	-	28	38	6	12	5	M20	50	27	14	20	2.0	
50	BT50-SMA16-75	1	16	75	38	-	-	17	-	8	3	M8	20	15	7	9	4.2	
	BT50-SMA16-120	1	16	120	38	-	-	17	-	8	3	M8	20	15	7	9	5.8	
	BT50-SMA22-75	1	22	75	42	-	-	27	-	8	3.5	M10	28	18	9	11	4.3	
	BT50-SMA22-120	1	22	120	42	-	-	27	-	8	3.5	M10	28	18	9	11	4.8	
	BT50-SMA22-180	1	22	180	42	-	-	27	-	8	3.5	M10	28	18	9	11	5.5	
	BT50-SMA27-60	2	27	60	50	-	-	36	-	10	4	M12	33	23	10	12	4.3	
	BT50-SMA27-105	2	27	105	50	60	-	36	-	10	4	M12	33	23	10	12	5.2	
	BT50-SMA27-150	2	27	150	50	60	-	36	-	10	4	M12	33	23	10	12	5.8	
	BT50-SMA32-45	2	32	45	60	-	24	38	6	10	4.5	M16	40	23	10	16	4.2	
	BT50-SMA32-75	2	32	75	60	70	24	38	6	10	4.5	M16	40	23	10	16	5.2	
	BT50-SMA32-105	2	32	105	60	70	24	38	6	10	4.5	M16	40	23	10	16	6.2	
	BT50-SMA40-45	2	40	45	80	-	28	38	6	12	5	M20	50	27	14	20	4.3	
	BT50-SMA40-75	2	40	75	80	-	28	38	6	12	5	M20	50	27	14	20	5.5	

SPARE PARTS	TYPE	KEY		KEY BOLT		MOUNTING BOLT	
	SMA 16		W8		M3×8		MB 8
	SMA 22		W10		M4×10		MB10
	SMA 27		W12		M5×12		MB12
	SMA 32		W14		M6×16		MB16
	SMA 40		W16		M6×16		MB20

SHELL MILL ARBOR

SMA

DIN 69893/ISO 12164-1 HSK FORM A



DIN 69893
- HSK

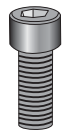
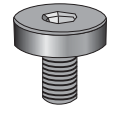
Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

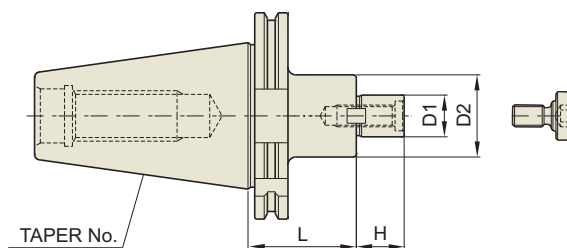
TAPER No.	MODEL No.	D1	D2	L	H	중량(kg)	재고
40A	HSK40A-SMA16-50	16	32	50	17	0.40	
	HSK40A-SMA22-50	22	40	50	19	0.50	
	HSK40A-SMA27-60	27	48	60	21	0.60	
50A	HSK 50A-SMA16-50	16	38	50	17	0.50	
	HSK 50A-SMA22-60	22	48	60	19	0.57	
	HSK 50A-SMA27-60	27	58	60	21	0.75	
	HSK 50A-SMA32-60	32	63	60	24	0.90	
63A	HSK 63A-SMA16-50	16	38	50	17	0.81	
	HSK 63A-SMA22-50	22	48	50	19	0.93	
	HSK 63A-SMA27-60	27	58	60	21	1.22	
	HSK 63A-SMA32-60	32	78	60	24	1.46	
	HSK 63A-SMA40-60	40	88	60	27	1.80	
100A	HSK100A-SMA16-50	16	38	50	17	2.14	
	HSK100A-SMA22-50	22	48	50	19	2.25	
	HSK100A-SMA27-50	27	58	50	21	2.40	
	HSK100A-SMA32-50	32	78	50	24	2.60	
	HSK100A-SMA40-60	40	88	60	27	3.25	
	HSK100A-SMA50-70	50	129	70	30	5.40	

SPARE PARTS	TYPE	KEY		KEY BOLT		MOUNTING BOLT	
	SMA 16		W8		M3×8		MB 8
	SMA 22		W10		M4×10		MB10
	SMA 27		W12		M5×12		MB12
	SMA 32		W14		M6×16		MB16
	SMA 40		W16		M6×16		MB20

SHELL MILL ARBOR

SMA

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value
6.3

RPM
15,000

Coolant
System
AD

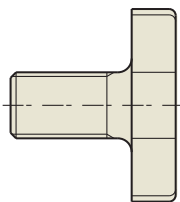
STANDARD

TAPER No.	MODEL No.	D1	D2	L	H	중량(kg)	재고
30	SK30-SMA16-50	16	32	50	17	0.85	
	SK30-SMA22-50	22	40	50	19	0.90	
	SK30-SMA27-50	27	48	50	21	1.03	
40	SK40-SMA16-60	16	32	60	17	0.35	
	SK40-SMA22-60	22	40	60	19	1.45	
	SK40-SMA27-60	27	48	60	21	1.70	
	SK40-SMA32-60	32	58	60	24	1.80	
	SK40-SMA40-60	40	70	60	27	3.10	
50	SK50-SMA16-75	16	32	75	17	2.80	
	SK50-SMA22-75	22	40	75	19	3.10	
	SK50-SMA27-75	27	48	75	21	3.40	
	SK50-SMA32-75	32	58	75	24	3.80	
	SK50-SMA40-75	40	70	75	27	4.50	
	SK50-SMA50-75	50	90	75	30	5.90	

EXTENDED

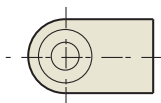
TAPER No.	MODEL No.	D1	D2	L	H	중량(kg)	재고
40	SK40-SMA16-120	16	32	120	17	1.70	
	SK40-SMA22-120	22	40	120	19	1.80	
	SK40-SMA27-120	27	48	120	21	2.40	
	SK40-SMA32-120	32	58	120	24	3.70	
50	SK50-SMA16-120	16	32	120	17	3.90	
	SK50-SMA22-120	22	40	120	19	4.40	
	SK50-SMA27-120	27	48	120	21	4.70	
	SK50-SMA32-120	32	58	120	24	5.00	
	SK50-SMA40-120	40	70	120	27	6.05	

PARTS for SHELL MILL ARBOR



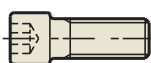
COLLAR BOLT

No.	COLLAR BOLT	Q'TY
33	M8×1.25	1
34	M10×1.5	1
35	M12×1.75	1
36	M16×2.0	1
37	M20×2.5	1
38	M24×3.0	1



DRIVE KEY

No.	DRIVE KEY	Q'TY
45	8×7×2.8	2
46	10×7.8×15.5	2
47	12×9×18.5	2
48	14×11.5×20.5	2
49	16×13.5×23.5	2
50	18×18×28.5	2



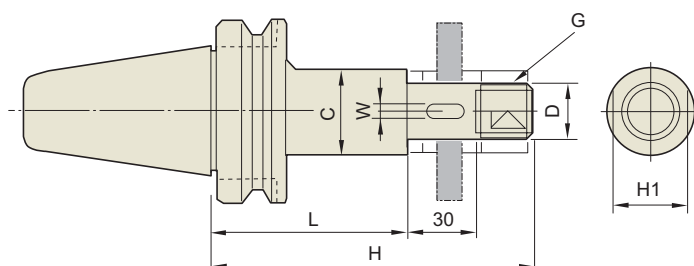
KEY BOLT

No.	KEY BOLT	Q'TY	SMA DIA.
51	M3×0.5×8L	2	16
52	M4×0.7×10L	2	22
53	M5×0.8×12L	2	27
54	M6×1.0×15L	2	32
55	M6×1.0×15L	2	40
56	M6×1.0×20L	2	50

SIDE CUTTER ARBOR

SCA

JIS B6339 (MAS 403) - BT



JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	H	H1	C	W	G	D	L	중량(kg)	재고
30	BT30-SCA12.7-60	105	17	20	-	M12	12.7	60	1.0	
	BT30-SCA15.875-60	106	23	26	3.18	M14	15.875	60	1.1	
	BT30-SCA22.225-60	110	29	34	3.18	M20	22.225	60	1.2	
	BT30-SCA25.4-60	115	32	40	6.35	M24	25.4	60	1.3	●
40	BT40-SCA12.7-75	120	17	20	-	M12	12.7	75	1.2	
	BT40-SCA12.7-105	150	17	20	-	M12	12.7	105	1.3	
	BT40-SCA15.875-75	121	23	26	3.18	M14	15.875	75	1.4	
	BT40-SCA15.875-120	151	23	26	3.18	M14	15.875	120	1.5	
	BT40-SCA22.225-75	126	29	34	3.18	M20	22.225	75	1.7	
	BT40-SCA22.225-120	171	29	34	3.18	M20	22.225	120	2.0	
	BT40-SCA25.4-75	130	32	40	6.35	M24	25.4	75	2.0	●
	BT40-SCA25.4-120	175	32	40	6.35	M24	25.4	120	2.4	●
50	BT40-SCA31.75-90	150	41	46	7.92	M30	31.75	90	2.6	
	BT50-SCA12.7-75	120	17	20	-	M12	12.7	75	4.1	
	BT50-SCA12.7-105	150	17	20	-	M12	12.7	105	4.2	
	BT50-SCA15.875-90	136	23	26	3.18	M14	15.875	90	4.2	
	BT50-SCA15.875-120	166	23	26	3.18	M14	15.875	120	4.2	
	BT50-SCA22.225-90	144	29	34	3.18	M20	22.225	90	4.4	
	BT50-SCA22.225-135	186	29	34	3.18	M20	22.225	135	4.7	
	BT50-SCA25.4-90	145	32	40	6.35	M24	25.4	90	4.5	
	BT50-SCA25.4-135	190	32	40	6.35	M24	25.4	135	4.9	●
	BT50-SCA31.75-90	150	41	46	7.92	M30	31.75	90	4.7	
	BT50-SCA31.75-135	195	41	46	7.92	M30	31.75	135	5.2	●
	BT50-SCA38.1-90	156	46	55	9.52	M36	38.1	90	4.9	
	BT50-SCA38.1-135	201	46	55	9.52	M36	38.1	135	5.9	

The Top Leader of World Toolholder Industry



HYDRAULIC CHUCK • SHRINK FIT HOLDER • ER COLLET CHUCK • END MILL HOLDER & SIDE LOCK ARBOR
SHELL MILL ARBOR & COMBI SHELL MILL ARBOR • MILLING CHUCK • MORSE TAPER ARBOR • SK SLIM CHUCK
TAPPING ER CHUCK • TAP CHUCK • FACE MILL SYSTEM

BORING SYSTEM

FINE BORING BAR

TWIN BORING BAR

MICRO BORING BAR

SQUARE BORING BAR

FINE BORING BAR

- SSK LINE / SWISS TOOL LINE

TWIN BORING BAR

- 소구경용/대구경용

MICRO BORING BAR

- BT / ST / 대경용 / MICRO UNIT

SQUARE BORING BAR

- BSA / BSB / BORING BITE

FINE BORING BAR (for Fine Boring of Small Bore)

Boring Range 20mm ~153mm

조립식 Modular 구조

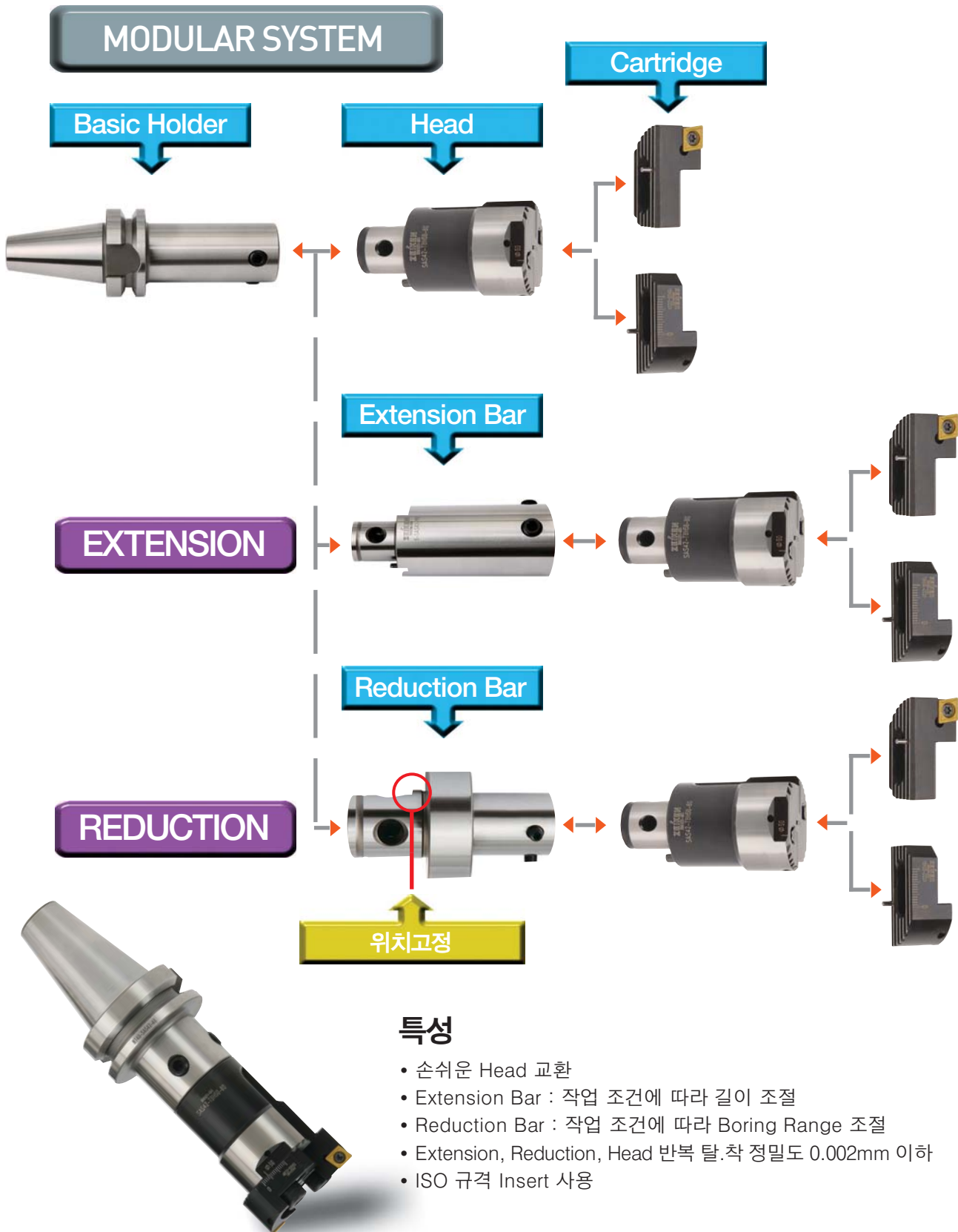


특성

- 정교한 보링에 의한 우수한 표면 조도
- 1/100mm 단위 조절다이얼에 의한 정교한 보링 범위 조절
- 다양한 size의 extension bar를 사용 가능하도록 모듈러 구조를 채택함으로써 길이 조절 용이
- extension bar의 견고한 2중 고정
 - 측면 잠금
 - 내부 고정핀
- ISO 규격과 일치하는 인서트를 사용하도록 설계됨

TWIN EDGE BORING BAR (for Rough Boring of Small Bore)

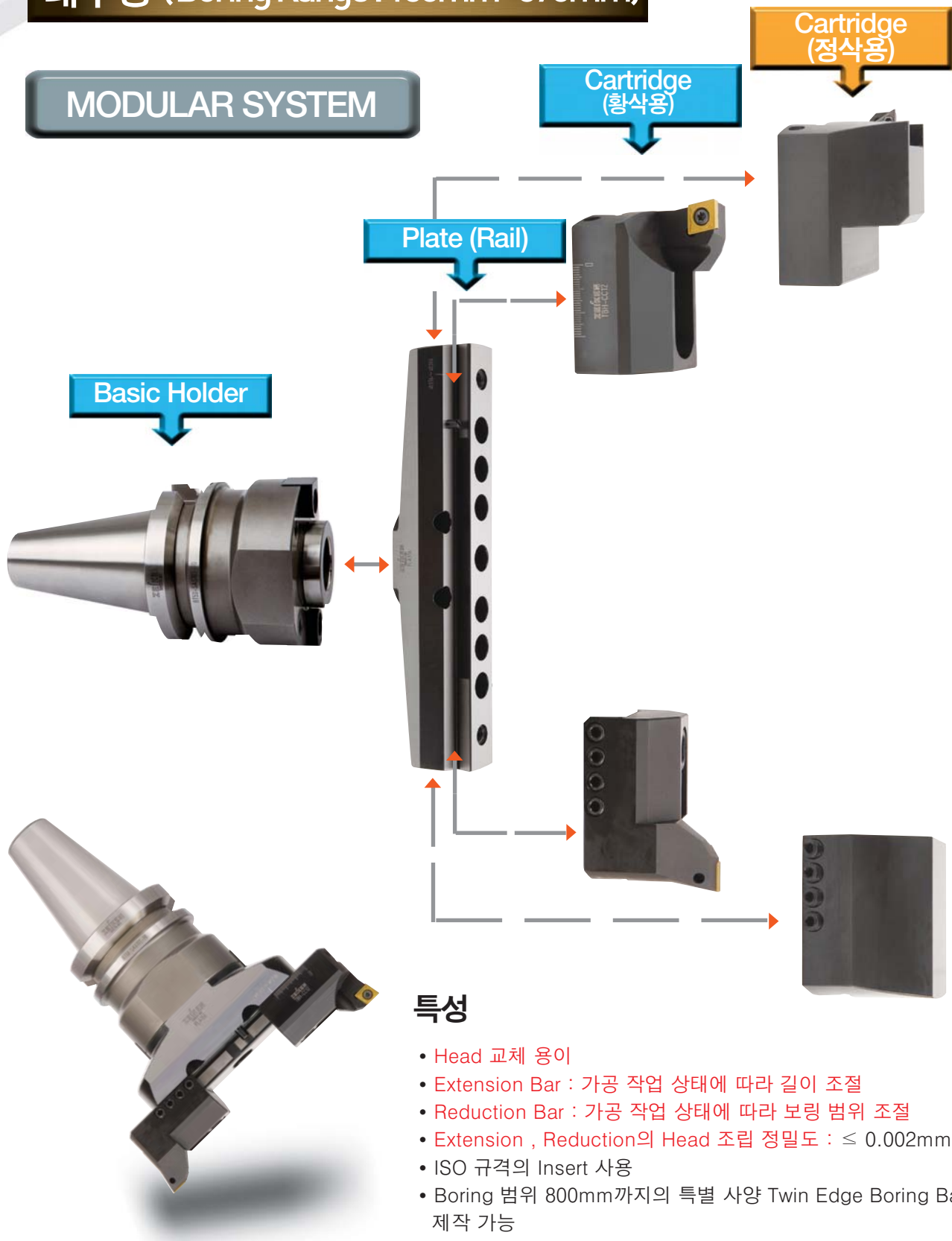
소구경 (Boring Range : 25mm~156mm)



FINE and TWIN EDGE BORING BAR (for Big Bore)

대구경 (Boring Range : 156mm~576mm)

MODULAR SYSTEM



특성

- Head 교체 용이
- Extension Bar : 가공 작업 상태에 따라 길이 조절
- Reduction Bar : 가공 작업 상태에 따라 보링 범위 조절
- Extension , Reduction의 Head 조립 정밀도 : $\leq 0.002\text{mm}$
- ISO 규격의 Insert 사용
- Boring 범위 800mm까지의 특별 사양 Twin Edge Boring Bar 제작 가능

FINE BORING BAR-SET

BAH

JIS B6339 (MAS 403) - BT



FIG. 1

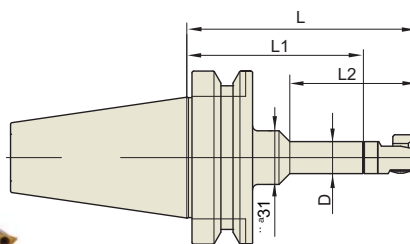
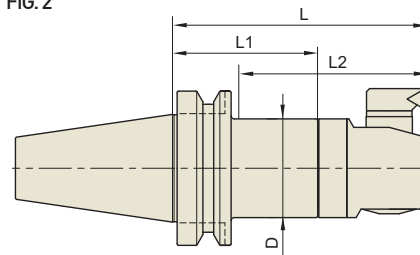


FIG. 2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	BORE RANGE (FRONT)	D	L	L1	L2	Fig	중량(kg)	재고
30	BT30-BAH1-105	20-26	19	104.5	72	73	1		
	BT30-BAH2-75	25-33	24	73	37.5	48	2		
	BT30-BAH2-120	25-33	24	118	82.5	93	2		
	BT30-BAH3-80	32-42	31	79	39	53	2		
	BT30-BAH3-120	32-42	31	119	79	93	2		
	BT30-BAH4-85	41-54	39	85	38	58	2		
	BT30-BAH4-120	41-54	39	120	73	93	2		
	BT30-BAH5-120	53-70	50	120	63	93	2		
40	BT40-BAH1-105	20-26	19	104.5	72	73	2		
	BT40-BAH2-80	25-33	24	78	42.5	48	2		
	BT40-BAH2-120	25-33	24	118	82.5	88	2		
	BT40-BAH3-85	32-42	31	84	44	53	2		
	BT40-BAH3-135	32-42	31	134	94	103	2		
	BT40-BAH4-90	41-54	39	90	43	58	2		
	BT40-BAH4-135	41-54	39	135	88	103	2		
	BT40-BAH5-105	53-70	50	105	48	73	2		
	BT40-BAH5-135	53-70	50	135	79	103	2		
	BT40-BAH6-135	68-100	64	135	64	103	2		
50	BT50-BAH1-135	20-26	19	134.5	102	73	1		
	BT50-BAH2-90	25-33	24	88	52.5	47	2		
	BT50-BAH2-150	25-33	24	148	112.5	107	2		
	BT50-BAH3-95	32-42	31	94	54	52	2		
	BT50-BAH3-165	32-42	31	164	124	122	2		
	BT50-BAH4-105	41-54	39	105	58	62	2		
	BT50-BAH4-165	41-54	39	165	118	122	2		
	BT50-BAH4-225	41-54	39	225	178	182	2		
	BT50-BAH5-120	53-70	50	120	63	77	2		
	BT50-BAH5-165	53-70	50	165	105	122	2		
	BT50-BAH5-240	53-70	50	240	183	197	2		
	BT50-BAH5-285	53-70	50	285	228	242	2		
	BT50-BAH6-165	68-100	64	165	94	122	2		
	BT50-BAH6-240	68-100	64	240	169	197	2		
	BT50-BAH6-300	68-100	64	300	229	257	2		
	BT50-BAH7-210	100-153	90	210	93	172	2		
	BT50-BAH7-360	100-153	90	360	243	322	2		

BASIC HOLDER

SAS

JIS B6339 (MAS 403) - BT



FIG. 1

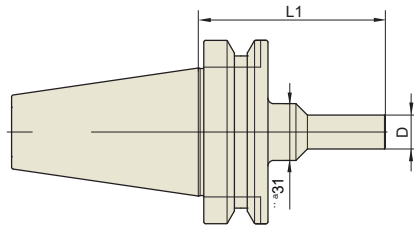
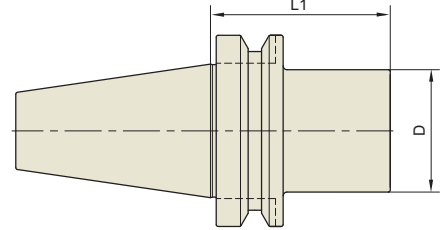


FIG. 2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

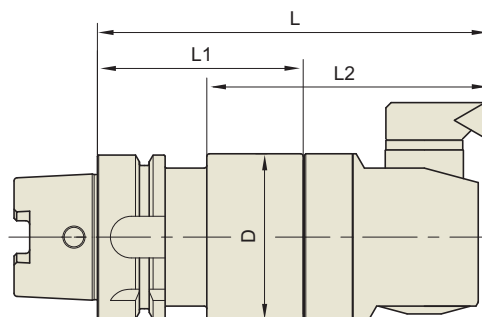
Coolant
System

TAPER No.	MODEL No.	D	L1	Fig	중량(kg)	재고
30	BT30-SAS19-72	19	72	1		
	BT30-SAS24-37.5	24	37.5	2		
	BT30-SAS24-82.5	24	82.5	2		
	BT30-SAS31-39	31	39	2		
	BT30-SAS31-79	31	79	2		
	BT30-SAS39-38	39	38	2		
	BT30-SAS39-73	39	73	2		
	BT30-SAS50-63	50	63	2		
40	BT40-SAS19-72	19	72	2		
	BT40-SAS24-42.5	24	42.5	2		
	BT40-SAS24-82.5	24	82.5	2		
	BT40-SAS31-44	31	44	2		
	BT40-SAS31-94	31	94	2		
	BT40-SAS39-43	39	43	2		
	BT40-SAS39-88	39	88	2		
	BT40-SAS50-48	50	48	2		
	BT40-SAS50-79	50	79	2		
	BT40-SAS64-64	64	64	2		
50	BT50-SAS19-102	19	102	1		
	BT50-SAS24-52.5	24	52.5	2		
	BT50-SAS24-112.5	24	112.5	2		
	BT50-SAS31-54	31	54	2		
	BT50-SAS31-124	31	124	2		
	BT50-SAS39-58	39	58	2		
	BT50-SAS39-118	39	118	2		
	BT50-SAS39-178	39	178	2		
	BT50-SAS50-63	50	63	2		
	BT50-SAS50-105	50	105	2		
	BT50-SAS50-183	50	183	2		
	BT50-SAS50-228	50	228	2		
	BT50-SAS64-94	64	94	2		
	BT50-SAS64-169	64	169	2		
	BT50-SAS64-229	64	229	2		
	BT50-SAS90-93	90	93	2		
	BT50-SAS90-243	90	243	2		

FINE BORING BAR (SMALL BORE)

SAS

DIN 69893/ISO 12164-1 HSK

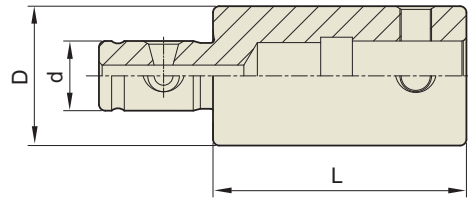


DIN 69893 - HSK	Taper Accuracy	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	BORE RANGE (FRONT)	D	L	L1	L2	중량(kg)	재고
40A	HSK40A-BAH1-72.5	20-26	19	105	72.5	73		
	HSK40A-BAH2-39.5	25-33	24	75	39.5	44		
	HSK40A-BAH2-84.5	25-33	24	120	84.5	89		
	HSK40A-BAH3-45	32-42	31	85	45	57		
	HSK40A-BAH3-80	32-42	31	120	80	92		
	HSK40A-BAH4-53	41-54	39	100	53			
	HSK40A-BAH4-73	41-54	39	120	73			
50A	HSK50A-BAH1-72.5	20-26	19	105	72.5	65		●
	HSK50A-BAH2-84.5	25-33	24	117	84.5	80		●
	HSK50A-BAH3-80	32-42	31	120	80	82		●
	HSK50A-BAH4-73	41-54	39	120	73	76		●
	HSK50A-BAH5-83	53-70	50	140	83			●
63A	HSK63A-BAH1-77.5	20-26	19	110	77.5	73		●
	HSK63A-BAH2-89.5	25-33	24	125	89.5	88		●
	HSK63A-BAH3-100	32-42	31	140	100	103		●
	HSK63A-BAH4-93	41-54	39	140	93	103		●
	HSK63A-BAH5-83	53-70	50	140	83	105		●
	HSK63A-BAH6-79	68-100	64	150	79			●
100A	HSK100A-BAH1-102.5	20-26	19	135	102.5	73		
	HSK100A-BAH2-114.5	25-33	24	150	114.5	107		
	HSK100A-BAH3-125	32-42	31	165	125	122		
	HSK100A-BAH4-118	41-54	39	165	118	122		
	HSK100A-BAH4-178	41-54	39	225	178	182		
	HSK100A-BAH5-108	53-70	50	165	108	122		
	HSK100A-BAH5-183	53-70	50	240	183	197		
	HSK100A-BAH5-228	53-70	50	285	228	242		
	HSK100A-BAH6-94	68-100	64	165	94	122		
	HSK100A-BAH6-169	68-100	64	240	169	197		
	HSK100A-BAH6-229	68-100	64	300	229	257		
	HSK100A-BAH7-123	100-153	90	210	123	181		
	HSK100A-BAH7-273	100-153	90	360	273	331		

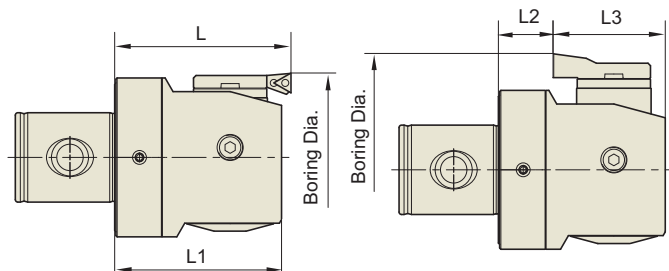
Boring
System

EXTENSION BAR



MODEL No.	d	D	L	중량(kg)	재고
E-BAH1-20	11	19	20		
E-BAH1-30	11	19	30		
E-BAH2-30	14	24	30		
E-BAH2-45	14	24	45		
E-BAH3-30	18	31	30		
E-BAH3-45	18	31	45		
E-BAH4-45	22	39	45		
E-BAH4-60	22	39	60		
E-BAH5-60	28	50	60		
E-BAH5-90	28	50	90		
E-BAH6-60	36	64	60		
E-BAH6-100	36	64	100		
E-BAH7-105	46	90	105		

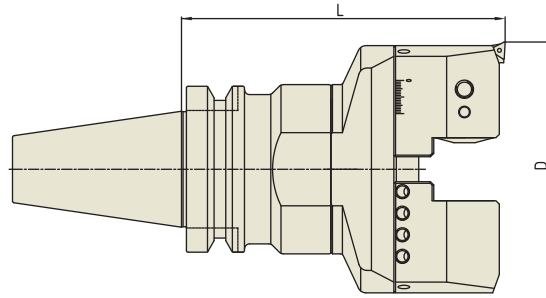
BORING HEAD



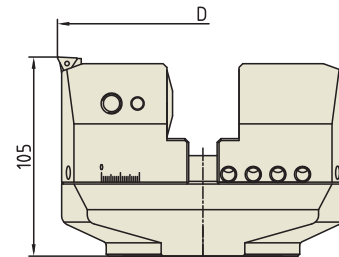
MODEL No.	CARTRIDGE	FRONT BORE			BACK BORE			INSERT	중량(kg)	재고
		BORE RANGE	L	L1	BORE RANGE	L2	L3			
FBH20	FBH1-1	20-26	32.5	29.5	-	10.5	19	TP08		
FBH25	FBH2-1	25-33	35.5	32.5	-	10.5	19	TP08		
FBH32	FBH3-1	32-42	40	35	-	10	25	TP08		
FBH41	FBH4-1	41-54	47	43	-	14	29	TP11		
FBH53	FBH5-1	53-70	57	53	52-70	19	34	TP11		
FBH68	FBH6-1	68-100	71	67.2	80-100	22	45.2	TP11		
FBH100	FBH6-1	100-153	71	67.2	112-153	22	45.2	TP11		
FBH100-2	FBH6-1	100-153	87	83.2	112-153	38	45.2	TP11		



CODE NO.	INSERT	Boring Range	Camp Bolt	Boring Head
FBH20-B	TPGT08	20-26	FTNA 0204	FBH 20
FBH25-B	TPGT08	25-33	FTNA 0204	FBH 25
FBH32-B	TPGT08	32-42	FTNA 0204	FBH 32
FBH41-B	TPGT1103	41-54	FTNA 0307	FBH41
FBH53-B	TPGT1103	53-70	FTNA 0307	FBH53
FBH68-B	TPGT1103	68-100	FTNA 0307	FBH68
FBH100-B	TPGT1103	100-153	FTNA 0307	FBH100
FBH100-2B	TPGT1103	100-560	FTNA 0307	FBH100



MODEL No.	D (BORE RANGE)		Body (Basic Holder)	Boring Head	중량(kg)	재고
	min	max				
BT50-FBH153-195	153	216	BT50-SAS102-90	FBH153S		
BT50-FBH153-265			BT50-SAS102-160			
BT50-FBH153-315			BT50-SAS102-210			
BT50-FBH153-365			BT50-SAS102-260			
BT50-FBH216-195	216	276	BT50-SAS102-90	FBH216S		
BT50-FBH216-265			BT50-SAS102-160			
BT50-FBH216-315			BT50-SAS102-210			
BT50-FBH216-365			BT50-SAS102-260			
BT50-FBH276-195	276	336	BT50-SAS102-90	FBH276S		
BT50-FBH276-265			BT50-SAS102-160			
BT50-FBH276-315			BT50-SAS102-210			
BT50-FBH276-365			BT50-SAS102-260			
BT50-FBH336-195	336	396	BT50-SAS102-90	FBH336S		
BT50-FBH336-265			BT50-SAS102-160			
BT50-FBH336-315			BT50-SAS102-210			
BT50-FBH336-365			BT50-SAS102-260			
BT50-FBH396-195	396	456	BT50-SAS102-90	FBH396S		
BT50-FBH396-265			BT50-SAS102-160			
BT50-FBH396-315			BT50-SAS102-210			
BT50-FBH396-365			BT50-SAS102-260			
BT50-FBH456-195	456	516	BT50-SAS102-90	FBH456S		
BT50-FBH456-265			BT50-SAS102-160			
BT50-FBH456-315			BT50-SAS102-210			
BT50-FBH456-365			BT50-SAS102-260			
BT50-FBH516-195	516	576	BT50-SAS102-90	FBH516S		
BT50-FBH516-265			BT50-SAS102-160			
BT50-FBH516-315			BT50-SAS102-210			
BT50-FBH516-365			BT50-SAS102-260			

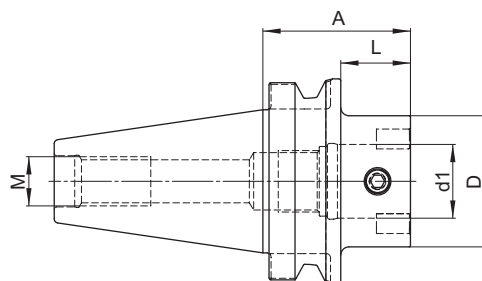


MODEL No.	D (BORE RANGE)		L (HEIGHT)	중량(kg)
	min	max		
FBH153S	153	216	105	
FBH216S	216	276	105	
FBH276S	276	336	105	
FBH336S	336	396	105	
FBH396S	396	456	105	
FBH456S	456	516	105	
FBH516S	516	576	105	

SPARE PART							
BORING HEAD	Plate	Cartridge	Clamp Bolt	Counter Weight	Wrench	Clamp Screw	T-Wrench
FBH153S	PLA153	FTP11	M10*30L	FBB153	L-W 5	FTNA0307	T7
FBH216S	PLA216						
FBH276S	PLA276						
FBH336S	PLA336						
FBH396S	PLA396						
FBH456S	PLA456						
FBH516S	PLA516						

BASIC HOLDER for FINE BORING BAR

JIS B6339/MAS 403-BT



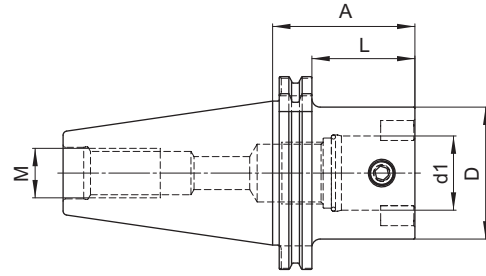
JIS B6339 - BT	Taper Accuracy AT3	G Value	RPM	Coolant System AD/B
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TAPER No.	CODE No.	ST	D	d1	A	L	M	
30	134.530.050.038	ST5	50	28	38	16	M12	
40	134.540.020.042	ST1	20	11	42	15	M16	
	134.540.025.042	ST2	25	14	42	15	M16	
	134.540.032.044	ST3	32	18	44	17	M16	
	134.540.039.048	ST4	39	22	48	21	M16	
	134.540.050.055	ST5	50	28	55	28	M16	
	134.540.064.046	ST6+	64	36	46	19	M16	
50	134.550.020.063	ST1	20	11	63	25	M24	
	134.550.025.063	ST2	25	14	63	25	M24	
	134.550.032.065	ST3	32	18	65	27	M24	
	134.550.039.069	ST4	39	22	69	31	M24	
	134.550.050.072	ST5	50	28	72	34	M24	
	134.550.064.072	ST6+	64	36	72	34	M24	
	134.550.090.086	ST7+	90	46	86	48	M24	

▶ ST+ shank 제품은 tension screw 없이 나사Ring과 같이 공급됩니다

BASIC HOLDER for FINE BORING BAR

DIN 69871-SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

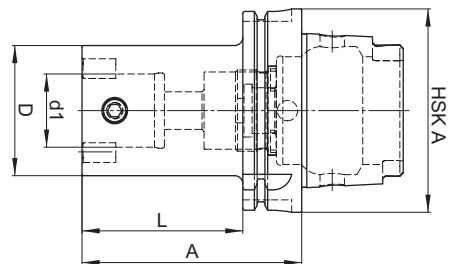
Coolant
System
AD/B

TAPER No.	CODE No.	ST	D	d1	A	L	M	중량(kg)
30	114.430.050.050	ST5	50	28	50	30.9	M12	
40	114.440.020.035	ST1	20	11	35	15.9	M16	
	114.440.025.040	ST2	25	14	40	20.9	M16	
	114.440.032.040	ST3	32	18	40	20.9	M16	
	114.440.039.043	ST4	39	22	43	23.9	M16	
	114.440.050.043	ST5	50	28	43	23.9	M16	
	114.440.064.059	ST6+	64	36	59	39.9	M16	
50	114.450.020.045	ST1	20	11	45	25.9	M24	
	114.450.025.050	ST2	25	14	50	30.9	M24	
	114.450.032.050	ST3	32	18	50	30.9	M24	
	114.450.039.053	ST4	39	22	53	33.9	M24	
	114.450.050.053	ST5	50	28	53	33.9	M24	
	114.450.064.069	ST6+	64	36	69	49.9	M24	
	114.450.090.085	ST7+	90	46	85	65.9	M24	

▶ ST+ shank 제품은 tension screw 없이 나사Ring과 같이 공급됩니다

BASIC HOLDER for FINE BORING BAR

DIN 69893/ISO 12164-1-HSK



DIN 69893
- HSK

Taper
Accuracy

G Value

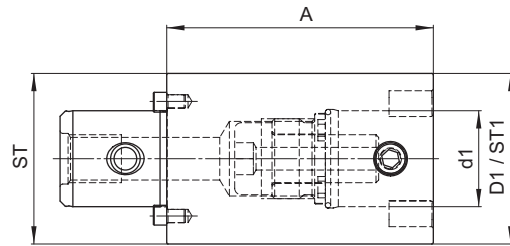
RPM

Coolant
System

TAPER No.	CODE No.	ST	D	d1	A	L	중량(kg)
63	144.806.020.042	ST1	20	11	42	16	
	144.806.025.042	ST2	25	14	42	16	
	144.806.032.044	ST3	32	18	44	18	
	144.806.039.048	ST4	39	22	48	22	
	144.806.050.059	ST5	50	28	59	33	
	144.806.064.070	ST6	64	36	70	44	
	144.806.064.100	ST6+	64	36	100	74	
100	144.810.020.055	ST1	20	11	55	26	
	144.810.025.055	ST2	25	14	55	26	
	144.810.032.057	ST3	32	18	57	28	
	144.810.039.061	ST4	39	22	61	32	
	144.810.050.072	ST5	50	28	72	43	
	144.810.064.078	ST6	64	36	78	49	
	144.810.064.108	ST6+	64	36	108	79	
	144.810.090.127	ST7+	90	46	127	98	

▶ ST+ shank 제품은 tension screw 없이 나사Ring과 같이 공급됩니다

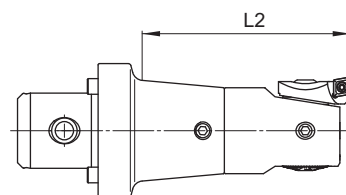
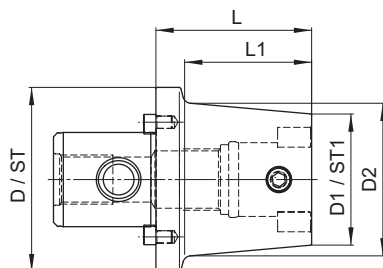
EXTENSION BAR for FINE BORING BAR



CODE No.	ST	ST1	D1	d1	A	중량(kg)
164.020.020.020	ST1	ST1	20	11	20	
164.020.020.030	ST1	ST1	20	11	30	
164.025.025.030	ST2	ST2	25	14	30	
164.025.025.045	ST2	ST2	25	14	45	
164.032.032.030	ST3	ST3	32	18	30	
164.032.032.045	ST3	ST3	32	18	45	
164.039.039.040	ST4	ST4	39	22	40	
164.039.039.060	ST4	ST4	39	22	60	
164.050.050.060	ST5	ST5	50	28	60	
164.050.050.090	ST5	ST5	50	28	90	
164.064.064.060	ST6+	ST6	64	36	60	
164.064.064.100	ST6+	ST6+	64	36	100	
164.090.090.100	ST7+	ST7+	90	46	100	
164.090.090.160	ST7+	ST7+	90	46	160	

▶ ST+ -shanks are supplied with threaded ring but without tension screw

REDUCTION BAR for FINE BORING BAR



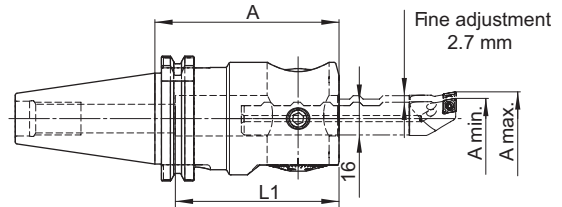
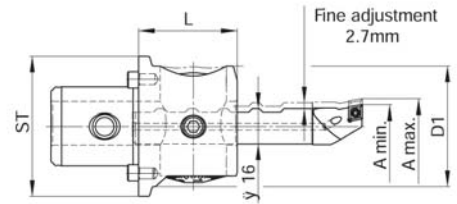
CODE No.	ST	D	ST1	D1	D2	L	L1	L2	중량(kg)
184.025.020.036	ST2	25	ST1	20	23	36	25	60.5	
184.032.020.040	ST3	32	ST1	20	23	40.5	28	63.5	
184.032.025.034	ST3	32	ST2	25	29	34.5	20	60	
184.039.020.057	ST4	39	ST1	20	23	57.5	42	77.5	
184.039.025.051	ST4	39	ST2	25	29	51.5	37	77	
184.039.032.047	ST4	39	ST3	32	38	47	35	82	
184.050.020.057	ST5	50	ST1	20	23	57.5	38.5	74	
184.050.025.051	ST5	50	ST2	25	29	51.5	33.5	73.5	
184.050.032.047	ST5	50	ST3	32	38	47.0	30.5	77.5	
184.050.039.040	ST5	50	ST4	39	48	40.0	25.5	82.5	
184.064.020.066	ST6+	64	ST1	20	23	66.5	45.5	81	
184.064.020.101	ST6+	64	ST1	20	23	101.5	80.5	116	
184.064.020.119	ST6+	64	ST1	20	23	119.5	100.5	136	
184.064.020.139	ST6+	64	ST1	20	23	139.5	120.5	156	
184.064.025.060	ST6+	64	ST2	25	29	60.5	40.5	80.5	
184.064.025.095	ST6+	64	ST2	25	29	95.5	75.5	115.5	
184.064.025.135	ST6+	64	ST2	25	29	135.0	115	155	
184.064.025.175	ST6+	64	ST2	25	29	175.0	155	195	
184.064.032.056	ST6+	64	ST3	32	38	56.0	37.5	84.5	
184.064.032.091	ST6+	64	ST3	32	38	91.0	72	119	
184.064.032.158	ST6+	64	ST3	32	38	158.0	139	186	
184.064.032.198	ST6+	64	ST3	32	38	198.0	179	226	
184.064.039.049	ST6+	64	ST4	39	48	49.0	32	89	
184.064.039.084	ST6+	64	ST4	39	48	84.0	66.5	123.5	
184.064.039.129	ST6+	64	ST4	39	48	129.0	111.5	168.5	
184.064.039.218	ST6+	64	ST4	39	48	218.0	200.5	257.5	
184.064.050.039	ST6+	64	ST5	50	60	39.0	24	104	
184.064.050.074	ST6+	64	ST5	50	60	74.0	58.5	138.5	
184.064.050.119	ST6+	64	ST5	50	60	119.0	103.5	183.5	
184.064.050.234	ST6+	64	ST5	50	60	234.0	218	298	
184.090.064.076	ST7+	90	ST6+	64	75	76	60	160	

▶ L2는 twin cutter 또는 boring head와 사용시 최대 boring 깊이입니다
▶ ST+ shank 제품은 tension screw 없이 나사Ring과 같이 공급됩니다

FINE BORING HEAD

보링 범위 : 3-88.1mm

- shank 직경 16mm의 보링바용
- 역방향 backlash를 최소화하는 직경 조정
- Nonius 0.002mm 단위 조절에 의한 0.01mm 단위의 직경 조정
- 내부 급유 방식
- 헤드 관통 보링바

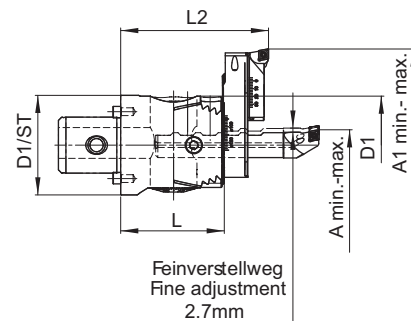


CODE No.		System	D1	ØA		L (A)	L1	중량(kg)
				min.	max.			
ST modular	204.050.025.045	ST5	55	3	88.1	45	-	
	204.064.025.045	ST6	55	3	88.1	45	-	
DIN 69893-HSK	208.806.055.095	HSK 63 A	55	3	88.1	95	69	
DIN 69871-SK	208.440.055.090	SK 40	55	3	88.1	90	70	
JIS B6339-BT	208.540.055.090	BT40	55	3	88.1	90	63	

- ▶ 보링바는 별도로 주문하여야 합니다.
- ▶ 최소 및 최대 보링경은 code 264 부터 294까지의 보링바와 함께 사용시 가능 합니다.

보링 범위 : 3-320mm

- shank 직경 16mm의 보링바용
- 역방향 backlash를 최소화하는 직경 조정
- Nonius 0.002mm 단위 조절에 의한 0.01mm 단위의 직경 조정
- 내부 급유 방식
- 헤드 관통 보링바

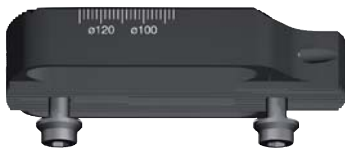
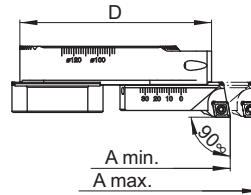


CODE No.		System	D1	ØA		L (A)	L1	L2	중량(kg)
				min.-max.	ØA1 min.-max.				
ST modular	210.064.025.065	ST6	63	3 - 88.1	86 - 320	67	-	95	
DIN 69893-HSK	210.806.063.095	HSK 63 A	63	3 - 88.1	86 - 320	96	72	125	
DIN 69871-SK	210.440.063.090	SK 40	63	3 - 88.1	86 - 320	91	81	120	
JIS B6339-BT	210.540.063.090	BT40	63	3 - 88.1	86 - 320	91	81	120	

- ▶ 보링바, 정삭보링브릿지, 그리고 인서트 홀더는 별도로 주문하여야 합니다.
- ▶ 최소 및 최대 보링경은 code 264 부터 294까지의 보링바와 함께 사용시 가능 합니다.
- ▶ 최소 및 최대 보링경은 code 212 부터의 w정삭용 보링브릿지와와 함께 사용시 가능 합니다

BORING BRIDGE for FINE BORING BAR

보링 범위 : 86-320mm



알루미늄 브릿지

• 내부급유 방식

Unit : mm

CODE No.	D	ØA		중량(kg)
		min.	max.	
212.086.164.080	80	86	164	
212.162.320.158	158	162	320	

Aluminium bridges

• 내부급유 방식

Unit : mm



CODE No.	Insert	ØA		중량(kg)
		min.	max.	
256.048.006.014	CC . . 06 02 . .	86	320	
256.048.009.014	CC . . 09 T3 . .	86	320	

Aluminium bridges

• 고속 회전용

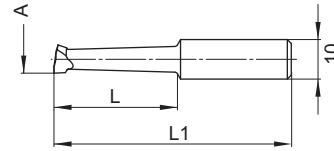
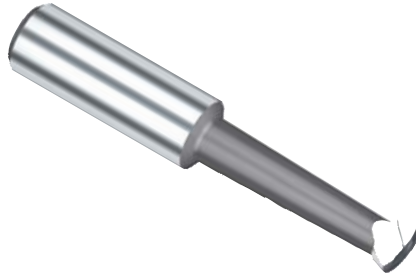
Unit : mm



CODE No.		중량(kg)
212.038.045.012		

BORING BAR for FINE BORING

carbide tip 부착형



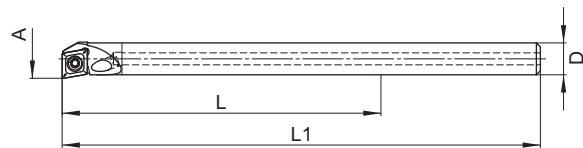
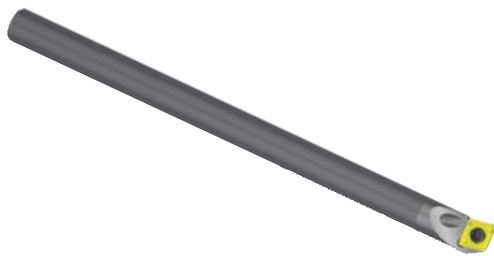
Unit : mm

CODE No.	ØA		L	Carbide quality	중량(kg)
	min.	max.			
264.003.010.020	3.0	8.0	20	K10	
264.003.020.020	3.0	8.0	20	P20	
264.004.010.023	4.0	9.0	23	K10	
264.004.020.023	4.0	9.0	23	P20	
264.005.010.025	5.0	10.0	25	K10	
264.005.020.025	5.0	10.0	25	P20	
264.006.010.028	6.0	11.0	28	K10	
264.006.020.028	6.0	11.0	28	P20	
264.007.010.031	7.0	12.0	31	K10	
264.007.020.031	7.0	12.0	31	P20	
264.009.010.034	9.0	14.0	34	K10	
264.009.020.034	9.0	14.0	34	P20	
264.010.010.037	10.0	15.0	37	K10	
264.010.020.037	10.0	15.0	37	P20	
264.012.010.040	12.0	17.0	40	K10	
264.012.020.040	12.0	17.0	40	P20	
264.014.010.043	14.0	19.0	43	K10	
264.014.020.043	14.0	19.0	43	P20	

▶ 최소 및 최대 보링경은 code 204 부터 210까지의 정삭용 보링 head와 함께 사용시 가능 합니다.

▶ 카바이드 재질 K10 : 주철,알루미늄 등
▶ 카바이드 재질 P20 : 강철,크롬니켈 합금

solid carbide shank 형



Unit : mm

CODE No.	ØA		D	L	L1	Insert	중량(kg)
	min.	max.					
274.006.002.080	5.8	11.2	5	50	85	WC . . 02 01 . .	
274.008.002.100	7.8	13.2	6	60	95	WC . . 02 01 . .	
274.010.006.120	9.8	15.0	8	80	120	CC . . 06 02 . .	
274.014.006.140	13.8	19.0	10	100	140	CC . . 06 02 . .	
274.018.009.170	17.8	23.0	12	120	170	CC . . 09 T3 . .	
274.022.009.210	21.8	27.0	16	160	210	CC . . 09 T3 . .	

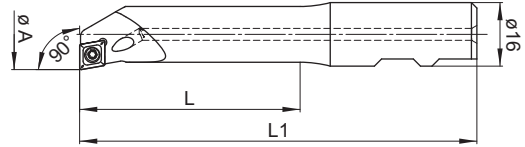
▶ L은 최대 boring 길이 입니다.

▶ 최소 및 최대 보링경은 code 204 부터 210까지의 보링 head와 함께 사용시가능합니다.

BORING BAR for FINE BORING

Boring bars : $\varnothing$ 9.75-48.1

- 내부 급유 방식
- 보링바가 중심에 맞게 조립되었을 경우의 최소경은 아래표의 $\varnothing$ A임



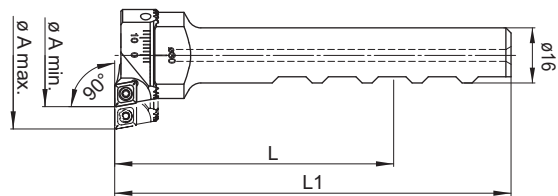
Unit : mm

CODE No.	$\varnothing$ A		L	L1	Insert	중량(kg)
	min.	max.				
254.010.006.075	9.75	15.1	30	75	CC . . 06 02 . .	
254.012.006.080	11.75	17.1	37	80	CC . . 06 02 . .	
254.014.006.085	13.75	19.1	43	85	CC . . 06 02 . .	
254.015.006.090	14.75	20.1	51	90	CC . . 06 02 . .	
254.016.006.095	15.75	21.1	57	95	CC . . 06 02 . .	
254.018.006.100	17.75	23.1	67	100	CC . . 06 02 . .	
254.020.006.105	19.75	25.1	72	105	CC . . 06 02 . .	
254.020.009.105	19.75	25.1	72	105	CC . . 09 T3 . .	
254.022.009.110	21.75	27.1	77	110	CC . . 09 T3 . .	
254.025.006.115	24.75	30.1	82	115	CC . . 06 02 . .	
254.025.009.115	24.75	30.1	82	115	CC . . 09 T3 . .	
254.028.009.115	27.75	33.1	82	115	CC . . 09 T3 . .	
254.030.006.115	29.75	35.1	82	115	CC . . 06 02 . .	
254.032.009.115	31.75	37.1	82	115	CC . . 09 T3 . .	
254.035.006.115	34.75	40.1	82	115	CC . . 06 02 . .	
254.035.009.115	34.75	40.1	82	115	CC . . 09 T3 . .	
254.039.009.115	38.75	44.1	82	115	CC . . 09 T3 . .	
254.043.009.115	42.75	48.1	82	115	CC . . 09 T3 . .	

▶ 길이 L은 최대보링 깊이입니다

▶ 최소 및 최대 보링경은 code 204 부터 210까지의 정삭용 보링 head와 함께 사용시 가능 합니다.

조절 가능 보링바 : $\varnothing$ 29.75-88.1



Unit : mm

Shanks

- with inner coolant supply

CODE No.	$\varnothing$ A		L	L1	For insert holder	중량(kg)
	min.	max.				
256.030.048.115	29.75	48.1	85	115	256.030.006.012	
256.048.088.115	47.75	88.1	85	115	256.048.xxx.014	

Insert holders

- with inner coolant supply

CODE No.	$\varnothing$ A		Insert	중량(kg)
	min.	max.		
256.030.006.012	29.75	48.1	CC . . 06 02 . .	
256.048.006.014	47.75	88.1	CC . . 06 02 . .	
256.048.009.014	47.75	88.1	CC . . 09 T3 . .	

▶ L 은 최대 보링 깊이입니다.

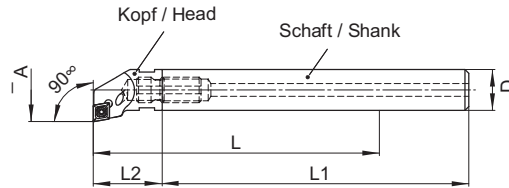
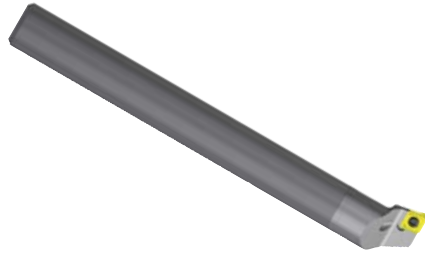
▶ $\varnothing$ 67 혹은 그보다 큰 보링바를 사용할 때 code 164부터의 extension을 사용하여 최대 보링 깊이를 늘릴수가 있습니다.

▶ 최소 및 최대 보링경은 code 204 부터 210까지의 정삭용 보링 head와 함께 사용시 가능 합니다.

SOLID CARBIDE BORING BAR for FINE BORING

나사 연결형

- 장공 가공
- 솔리드 카바이드 Shank
- 내부 급유 방식



Unit : mm

Head CODE No.	ØA		D	L max.	L2	Insert	For shank CODE No.	중량(kg)
	min.	max.						
294.009.006.018	8.75	14.1	8	56	18	CC . . 06 02 . .	284.008.005.073	
294.010.006.018	9.75	15.1	9	63	18	CC . . 06 02 . .	284.009.005.080	
294.011.006.023	10.75	16.1	10	70	23	CC . . 06 02 . .	284.010.006.082	
294.012.006.023	11.75	17.1	11	77	23	CC . . 06 02 . .	284.011.006.089	
294.013.006.023	12.75	18.1	12	84	23	CC . . 06 02 . .	284.012.006.096	
294.014.006.023	13.75	19.1	13	91	23	CC . . 06 02 . .	284.013.006.103	
294.015.006.023	14.75	20.1	14	98	23	CC . . 06 02 . .	284.014.006.110	
294.016.006.023	15.75	21.1	14	98	23	CC . . 06 02 . .	284.014.006.110	
294.017.006.027	16.75	22.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.018.006.027	17.75	23.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.020.006.027	19.75	25.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.022.006.027	21.75	27.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.025.006.027	24.75	30.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.028.006.027	27.75	33.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.032.006.027	31.75	37.1	16	112	27	CC . . 06 02 . .	284.016.010.120	
294.035.006.027	34.75	40.1	16	112	27	CC . . 06 02 . .	284.016.010.120	

Solid carbide shank



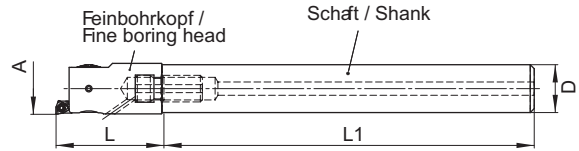
Unit : mm

Shank CODE No.	D	L1	For head CODE No.	중량(kg)
284.008.005.073	8	91	294.009.006.018	
284.009.005.080	9	98	294.010.006.018	
284.010.006.082	10	105	294.011.006.023	
284.011.006.089	11	112	294.012.006.023	
284.012.006.096	12	119	294.013.006.023	
284.013.006.103	13	126	294.014.006.023	
284.014.006.110	14	133	294.015.006.023	
284.016.010.120	16	147	294.016.006.023	
			294.017.006.027	
			294.018.006.027	
			294.020.006.027	
			294.022.006.027	
			294.025.006.027	
			294.028.006.027	
			294.032.006.027	
			294.035.006.027	

연결형 보링 Head

나사 연결형

- 역방향 backlash를 최소화하는 직경 조정
- Nonius 0.002mm 단위 조절에 의한 0.01mm 단위의 직경 조정
- 내부 급유 방식



Unit : mm

Fine boring head CODE No.	ØA		D	L	For insert holder	중량(kg)
	min.	max.				
300.014.015.040	14.7	17.1	14	40	302.005.017.002	
300.016.017.040	16.7	20.1	16	40	302.005.017.002	
300.019.020.040	19.7	24.1	18	40	302.005.017.002	
300.020.024.080	23.9	31.1	20	80	314.011.024.006	
300.025.031.100	30.9	40.1	25	100	314.013.031.006	
300.032.040.128	39.9	51.1	32	128	314.017.040.006	

Solid carbide shank



Unit : mm

Shank CODE No.	D	L1	For fine boring head	중량(kg)
284.014.006.110	14	110	300.014.015.040	
284.016.010.120	16	120	300.016.017.040	
284.018.010.140	18	140	300.019.020.040	
284.020.010.170	20	170	300.020.024.080	
284.025.012.206	25	206	300.025.031.100	
284.032.016.252	32	252	300.032.040.128	

Steel shank

Unit : mm

Shank CODE No.	D	L1	For fine boring head	중량(kg)
282.014.006.060	14	60	300.014.015.040	
282.016.010.070	16	70	300.016.017.040	
282.018.010.080	18	80	300.019.020.040	

- ▶정삭보링헤드,shank및 인서트 홀더는 각각 별도로 주문하여야 합니다.
▶인서트 홀더:code 314부터



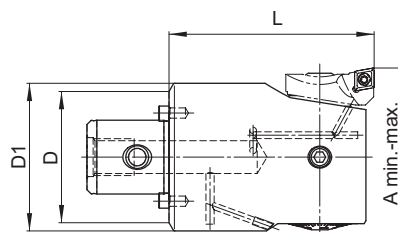
Insert holders

Unit : mm

CODE No.	Insert	Fine boring head	중량(kg)
302.005.017.002	WC .. 02 01 ..	300.014.015.040	
		300.016.017.040	
		300.019.020.040	

FINE BORING HEAD

- 역방향 backlash를 최소화하는 직경 조정
- Nonius 0.002mm 단위 조절에 의한 0.01mm 단위의 직경 조정
- 내부 급유 방식



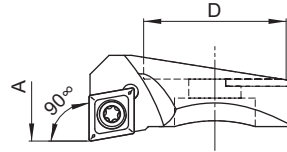
Unit : mm

CODE No.	ØA		ST	D	D1	L	Insert holder	중량(kg)
	min.	max.						
304.020.024.035	23.9	31.1	ST1	20	20	35.5	314.011.024.006	
	29.9	37.1					314.011.030.006	
304.025.031.040	30.9	40.1	ST2	25	25	47	314.013.031.006	
	37.9	47.1					314.013.038.006	
304.032.040.047	39.9	51.1	ST3	32	32	80	314.017.040.006	
	47.9	59.1					314.017.048.006	
304.039.051.057	50.9	67.1	ST4	39	42	130	314.022.051.006	
	64.9	81.1					314.022.065.006	
304.050.067.080	66.9	87.1	ST5	50	55		314.030.067.009	
	66.9	87.1					314.030.067.006	
	84.9	105.1					314.030.085.006/9	
304.064.087.100	86.9	116.1	ST6+	64	72		314.030.067.009	
	86.9	116.1					314.030.067.006	
	104.9	134.1					314.030.085.006/9	
304.090.116.130	115.9	153.1	ST7+	90	94		314.030.067.009	
	115.9	153.1					314.030.067.006	
	133.9	171.1					314.030.085.006/9	

▶인서트 홀더는 별도로 주문하여야 합니다.

INSERT HOLDER (90°) for FINE BORING BAR

- code304부터의 정삭보링헤드용



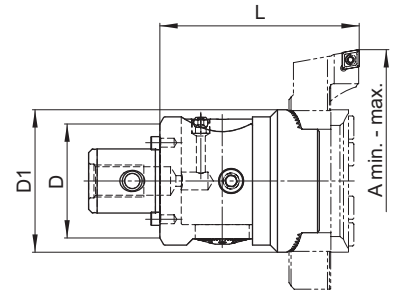
Unit : mm

CODE No.	ØA		D	Insert	Fine boring head	중량(kg)
	min.	max.				
314.011.024.006	23.9	31.1	11	CC .. 06 02 ..	304.020.024.035	
314.011.030.006	29.9	37.1	11	CC .. 06 02 ..	304.020.024.035	
314.013.031.006	30.9	40.1	13	CC .. 06 02 ..	304.025.031.040	
314.013.038.006	37.9	47.1	13	CC .. 06 02 ..	304.025.031.040	
314.017.040.006	39.9	51.1	17	CC .. 06 02 ..	304.032.040.047	
314.017.048.006	47.9	59.1	17	CC .. 06 02 ..	304.032.040.047	
314.022.051.006	50.9	67.1	22	CC .. 06 02 ..	304.039.051.057	
314.022.065.006	64.9	81.1	22	CC .. 06 02 ..	304.039.051.057	
314.030.067.006	66.9	87.1	30	CC .. 06 02 ..	304.050.067.080	
314.030.067.009	66.9	87.1	30	CC .. 09 T3 ..	304.050.067.080	
314.030.085.006	84.9	105.1	30	CC .. 06 02 ..	304.050.067.080	
314.030.085.009	84.9	105.1	30	CC .. 09 T3 ..	304.050.067.080	
314.030.067.006	86.9	116.1	30	CC .. 06 02 ..	304.064.087.100	
314.030.067.009	86.9	116.1	30	CC .. 09 T3 ..	304.064.087.100	
314.030.085.006	104.9	134.1	30	CC .. 06 02 ..	304.064.087.100	
314.030.085.009	104.9	134.1	30	CC .. 09 T3 ..	304.064.087.100	
314.030.067.006	115.9	153.1	30	CC .. 06 02 ..	304.090.116.130	
314.030.067.009	115.9	153.1	30	CC .. 09 T3 ..	304.090.116.130	
314.030.085.006	133.9	171.1	30	CC .. 06 02 ..	304.090.116.130	
314.030.085.009	133.9	171.1	30	CC .. 09 T3 ..	304.090.116.130	

FINE BORING HEAD

보링 범위 : 86-402mm

- 역방향 backlash를 최소화하는 직경 조정
- Nonius 0.002mm 단위 조절에 의한 0.01mm 단위의 직경 조정
- 내부 급유 방식

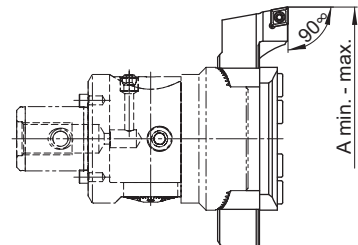


Unit : mm

CODE No.	ØA		ST	D	D1	L	중량(kg)
	min.	max.					
344.064.086.112	86	402	ST6+	64	80	112	

▶ code354부터의 인서트 홀더는 별도로 주문하여야 합니다.

Clamp plate and support block (인서트 홀더 포함)

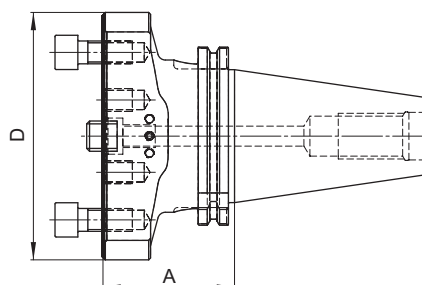


Unit : mm

CODE No.	ØA		Insert	중량(kg)
	min.	max.		
354.086.138.009	86	138	CC .. 09 T3 ..	
354.086.138.012	86	138	CC .. 12 04 ..	
354.136.220.009	136	220	CC .. 09 T3 ..	
354.136.220.012	136	220	CC .. 12 04 ..	
354.188.302.009	188	302	CC .. 09 T3 ..	
354.242.402.009	242	402	CC .. 09 T3 ..	

BASIC HOLDER for FINE BORING BAR

With bridge adapter



ANSI B5.50-CAT

Unit : mm

TAPER No.	CODE No.	D	A	중량(kg)
40	504.340.130.069	130	69.1	
50	504.350.130.069	130	69.1	

DIN 69871-SK

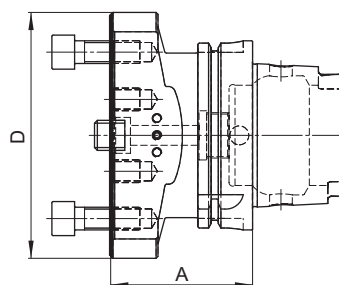
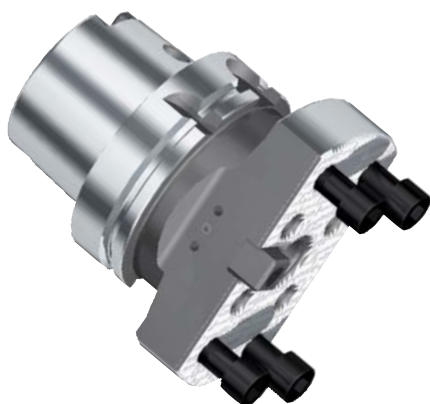
Unit : mm

TAPER No.	CODE No.	D	A	중량(kg)
40	514.440.130.069	130	69.1	
50	514.450.130.069	130	69.1	

JIS B6339/MAS 403-BT

Unit : mm

TAPER No.	CODE No.	D	A	중량(kg)
40	534.540.130.077	130	77	
50	534.550.130.088	130	88	



DIN 69893/ISO 12164-1-HSK FORM A

Unit : mm

TAPER No.	CODE No.	D	A	중량(kg)
63A	544.806.130.075	130	77	
100A	544.810.130.075	130	88	

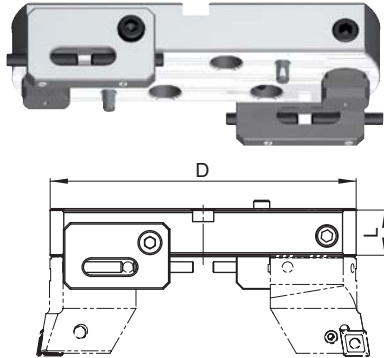
▶ 쿨링셋트는 별도로 주문하셔야 합니다.

EXTENSION BRIDGE for FINE BORING BAR

보링 범위 : 150-655mm

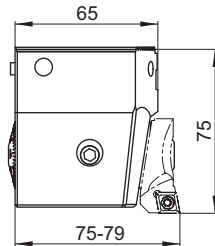
• Code514부터 554까지의 브리지 어댑터에 사용

Unit : mm



CODE No.	D	L	Boring range	중량(kg)
560.130.130.030	130	30	150 - 205	
560.130.180.030	180	30	200 - 255	
560.130.230.035	230	35	250 - 305	
560.130.280.035	280	35	300 - 355	
560.130.330.040	330	40	350 - 405	
560.130.380.040	380	40	400 - 455	
560.130.430.040	430	40	450 - 505	
560.130.480.040	480	40	500 - 555	
560.130.530.050	530	50	550 - 605	
560.130.580.050	580	50	600 - 655	

Fine boring head

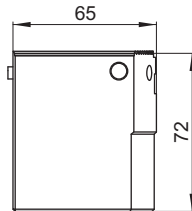


- code 560~564까지의 extension bridge에 사용
- 역방향 backlash를 최소화하는 직경 조정
- 0.01mm 직경 조절

CODE No.		중량(kg)
590.070.030.075	314.030.067.006	
	314.030.067.009	

▶ code354부터의 인서트 홀더는 별도로 주문하여야 합니다.

Counter weight

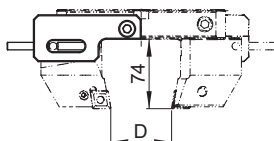


- code 590부터의 정삭보링헤드용

CODE No.	Weight (kg)
594.070.065.072	

ADJUSTMENT PLATE for FINE BORING BAR

For pin turning



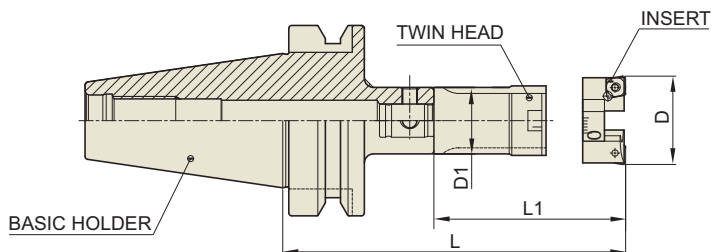
Unit : mm

Adjustment plate CODE No.	For extensions bridge	D	중량(kg)
900.561.080.012	560.130.180.030	10 - 65	
900.561.080.012	560.130.230.035	60 - 115	
900.561.080.012	560.130.280.035	110 - 165	
900.561.080.012	560.130.330.040	160 - 215	
900.561.080.012	560.130.380.040	210 - 265	
900.561.080.012	560.130.430.040	260 - 315	
900.561.080.012	560.130.480.040	310 - 365	
900.561.080.012	560.130.530.050	360 - 415	
900.561.080.012	560.130.580.050	410 - 465	

TWIN EDGE BORING BAR SET (소구경)

TBH

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

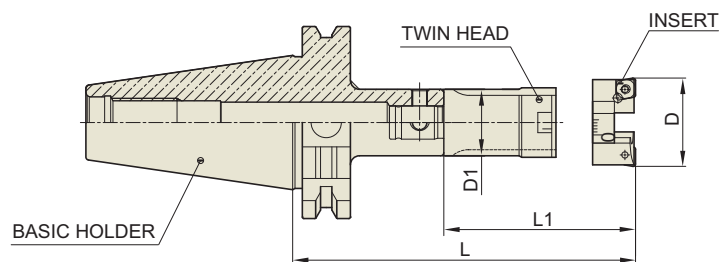
Coolant
System

MODEL No.	D	L	BASIC HOLDER	TWIN HEAD	D1	L1	INSERT	중량(kg)	재고
	Min - Max								
BT30-TBH25-90	Ø25 - Ø34	90	BT30-SAS22-40	SAS22-TBH25-50	22	50	CCMT060200		
BT30-TBH25-140	Ø25 - Ø34	140	BT30-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
BT30-TBH34-110	Ø34 - Ø50	110	BT30-SAS31-50	SAS31-TBH34-60	31	60	CCMT060200		
BT30-TBH34-150	Ø34 - Ø50	150	BT30-SAS31-90	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH25-100	Ø25 - Ø34	100	BT40-SAS22-50	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH25-140	Ø25 - Ø34	140	BT40-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH25-155	Ø25 - Ø34	155	BT40-SAS22-105	SAS22-TBH25-50	22	50	CCMT060200		
BT40-TBH34-120	Ø34 - Ø50	120	BT40-SAS31-60	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH34-160	Ø34 - Ø50	160	BT40-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH34-180	Ø34 - Ø50	180	BT40-SAS31-120	SAS31-TBH34-60	31	60	CCMT060200		
BT40-TBH50-140	Ø50 - Ø76	140	BT40-SAS42-60	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH50-185	Ø50 - Ø76	185	BT40-SAS42-105	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH50-200	Ø50 - Ø76	200	BT40-SAS42-120	SAS42-TBH50-80	42	80	CCMT09T300		
BT40-TBH76-180	Ø76 - Ø116	180	BT40-SAS65-70	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-200	Ø76 - Ø116	200	BT40-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-220	Ø76 - Ø116	220	BT40-SAS65-110	SAS65-TBH76-110	65	110	CCMT120400		
BT40-TBH76-240	Ø76 - Ø116	240	BT40-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH25-110	Ø25 - Ø34	110	BT50-SAS22-60	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH25-130	Ø25 - Ø34	130	BT50-SAS22-80	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH25-150	Ø25 - Ø34	150	BT50-SAS22-100	SAS22-TBH25-50	22	50	CCMT060200		
BT50-TBH34-130	Ø34 - Ø50	130	BT50-SAS31-70	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH34-160	Ø34 - Ø50	160	BT50-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH34-190	Ø34 - Ø50	190	BT50-SAS31-130	SAS31-TBH34-60	31	60	CCMT060200		
BT50-TBH50-150	Ø50 - Ø76	150	BT50-SAS42-70	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH50-190	Ø50 - Ø76	190	BT50-SAS42-110	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH50-240	Ø50 - Ø76	240	BT50-SAS42-150	SAS42-TBH50-80	42	80	CCMT09T300		
BT50-TBH76-200	Ø76 - Ø116	200	BT50-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH76-240	Ø76 - Ø116	240	BT50-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH76-280	Ø76 - Ø116	280	BT50-SAS65-170	SAS65-TBH76-110	65	110	CCMT120400		
BT50-TBH116-225	Ø116 - Ø156	225	BT50-SAS84-80	SAS84-TBH116-145	84	145	CCMT120400		
BT50-TBH116-275	Ø116 - Ø156	275	BT50-SAS84-130	SAS84-TBH116-145	84	145	CCMT120400		
BT50-TBH116-325	Ø116 - Ø156	325	BT50-SAS84-180	SAS84-TBH116-145	84	145	CCMT120400		

TWIN EDGE BORING BAR SET (소구경)

TBH

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

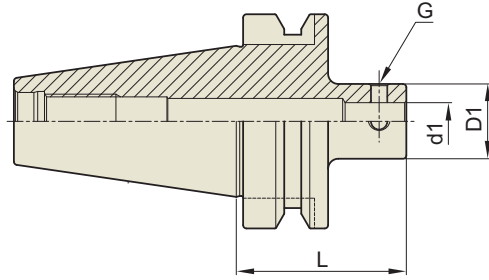
Coolant
System

MODEL No.	D	L	BASIC HOLDER	TWIN HEAD	D1	L1	INSERT	중량(kg)	재고
	Min - Max								
SK30-TBH25-90	Ø25 - Ø34	90	SK30-SAS22-40	SAS22-TBH25-50	22	50	CCMT060200		
SK30-TBH25-140	Ø25 - Ø34	140	SK30-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
SK30-TBH34-110	Ø34 - Ø50	110	SK30-SAS31-50	SAS31-TBH34-60	31	60	CCMT060200		
SK30-TBH34-150	Ø34 - Ø50	150	SK30-SAS31-90	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH25-100	Ø25 - Ø34	100	SK40-SAS22-50	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH25-140	Ø25 - Ø34	140	SK40-SAS22-90	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH25-155	Ø25 - Ø34	155	SK40-SAS22-105	SAS22-TBH25-50	22	50	CCMT060200		
SK40-TBH34-120	Ø34 - Ø50	120	SK40-SAS31-60	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH34-160	Ø34 - Ø50	160	SK40-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH34-180	Ø34 - Ø50	180	SK40-SAS31-120	SAS31-TBH34-60	31	60	CCMT060200		
SK40-TBH50-140	Ø50 - Ø76	140	SK40-SAS42-60	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH50-185	Ø50 - Ø76	185	SK40-SAS42-105	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH50-200	Ø50 - Ø76	200	SK40-SAS42-120	SAS42-TBH50-80	42	80	CCMT09T300		
SK40-TBH76-180	Ø76 - Ø116	180	SK40-SAS65-70	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-200	Ø76 - Ø116	200	SK40-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-220	Ø76 - Ø116	220	SK40-SAS65-110	SAS65-TBH76-110	65	110	CCMT120400		
SK40-TBH76-240	Ø76 - Ø116	240	SK40-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH25-110	Ø25 - Ø34	110	SK50-SAS22-60	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH25-130	Ø25 - Ø34	130	SK50-SAS22-80	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH25-150	Ø25 - Ø34	150	SK50-SAS22-100	SAS22-TBH25-50	22	50	CCMT060200		
SK50-TBH34-130	Ø34 - Ø50	130	SK50-SAS31-70	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH34-160	Ø34 - Ø50	160	SK50-SAS31-100	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH34-190	Ø34 - Ø50	190	SK50-SAS31-130	SAS31-TBH34-60	31	60	CCMT060200		
SK50-TBH50-150	Ø50 - Ø76	150	SK50-SAS42-70	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH50-190	Ø50 - Ø76	190	SK50-SAS42-110	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH50-240	Ø50 - Ø76	240	SK50-SAS42-150	SAS42-TBH50-80	42	80	CCMT09T300		
SK50-TBH76-200	Ø76 - Ø116	200	SK50-SAS65-90	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH76-240	Ø76 - Ø116	240	SK50-SAS65-130	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH76-280	Ø76 - Ø116	280	SK50-SAS65-170	SAS65-TBH76-110	65	110	CCMT120400		
SK50-TBH116-225	Ø116 - Ø156	225	SK50-SAS84-80	SAS84-TBH116-145	84	145	CCMT120400		
SK50-TBH116-275	Ø116 - Ø156	275	SK50-SAS84-130	SAS84-TBH116-145	84	145	CCMT120400		
SK50-TBH116-325	Ø116 - Ø156	325	SK50-SAS84-180	SAS84-TBH116-145	84	145	CCMT120400		

BASIC HOLDER

SAS

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

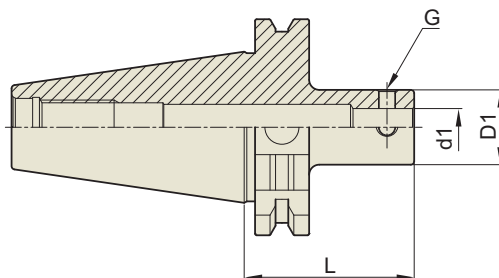
Coolant
System

TAPER No.	MODEL No.	d1	D1	L	G	중량(kg)	재고
30	BT30-SAS22-40	Ø11	Ø22	40	M5	0.30	
	BT30-SAS22-90	Ø11	Ø22	90	M5	0.40	
	BT30-SAS31-50	Ø18	Ø31	50	M8	0.40	
	BT30-SAS31-90	Ø18	Ø31	90	M8	0.50	
40	BT40-SAS22-50	Ø11	Ø22	50	M5	1.70	
	BT40-SAS22-90	Ø11	Ø22	90	M5	1.90	
	BT40-SAS22-105	Ø11	Ø22	105	M5	1.90	
	BT40-SAS31-60	Ø18	Ø31	60	M8	1.90	
	BT40-SAS31-100	Ø18	Ø31	100	M8	2.30	
	BT40-SAS31-120	Ø18	Ø31	120	M8	2.40	
	BT40-SAS42-60	Ø24	Ø42	60	M10	2.70	
	BT40-SAS42-105	Ø24	Ø42	105	M10	2.90	
	BT40-SAS42-120	Ø24	Ø42	120	M10	3.10	
	BT40-SAS65-70	Ø34	Ø65	70	M16	3.30	
	BT40-SAS65-90	Ø34	Ø65	90	M16	3.60	
	BT40-SAS65-110	Ø34	Ø65	110	M16	4.60	
50	BT50-SAS22-60	Ø11	Ø22	60	M5	4.30	
	BT50-SAS22-80	Ø11	Ø22	80	M5	4.50	
	BT50-SAS22-100	Ø11	Ø22	100	M5	4.70	
	BT50-SAS31-70	Ø18	Ø31	70	M8	4.50	
	BT50-SAS31-100	Ø18	Ø31	100	M8	5.10	
	BT50-SAS31-130	Ø18	Ø31	130	M8	5.40	
	BT50-SAS42-70	Ø24	Ø42	70	M10	5.00	
	BT50-SAS42-110	Ø24	Ø42	110	M10	5.20	
	BT50-SAS42-150	Ø24	Ø42	150	M10	5.50	
	BT50-SAS65-90	Ø34	Ø65	90	M16	6.80	
	BT50-SAS65-130	Ø34	Ø65	130	M16	7.50	
	BT50-SAS65-170	Ø34	Ø65	170	M16	8.00	
	BT50-SAS84-80	Ø46	Ø84	80	M16	9.00	
	BT50-SAS84-130	Ø46	Ø84	130	M16	9.70	
	BT50-SAS84-180	Ø46	Ø84	180	M16	9.90	

BASIC HOLDER

SAS

DIN 69871 - SK

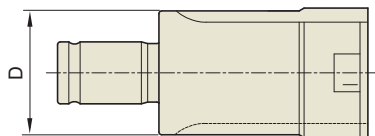


DIN 69871 - SK	Taper Accuracy	G Value	RPM	Coolant System
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TAPER No.	MODEL No.	d1	D1	L	G	중량(kg)	재고
30	SK30-SAS22-40	Ø11	Ø22	40	M5	0.30	
	SK30-SAS22-90	Ø11	Ø22	90	M5	0.40	
	SK30-SAS31-50	Ø18	Ø31	50	M8	0.40	
	SK30-SAS31-90	Ø18	Ø31	90	M8	0.50	
40	SK40-SAS22-50	Ø11	Ø22	50	M5	1.70	
	SK40-SAS22-90	Ø11	Ø22	90	M5	1.90	
	SK40-SAS22-105	Ø11	Ø22	105	M5	1.90	
	SK40-SAS31-60	Ø18	Ø31	60	M8	1.90	
	SK40-SAS31-100	Ø18	Ø31	100	M8	2.30	
	SK40-SAS31-120	Ø18	Ø31	120	M8	2.40	
	SK40-SAS42-60	Ø24	Ø42	60	M10	2.70	
	SK40-SAS42-105	Ø24	Ø42	105	M10	2.90	
	SK40-SAS42-120	Ø24	Ø42	120	M10	3.10	
	SK40-SAS65-70	Ø34	Ø65	70	M16	3.30	
	SK40-SAS65-90	Ø34	Ø65	90	M16	3.60	
	SK40-SAS65-110	Ø34	Ø65	110	M16	4.60	
	SK40-SAS65-130	Ø34	Ø65	130	M16	4.70	
50	SK50-SAS22-60	Ø11	Ø22	60	M5	4.30	
	SK50-SAS22-80	Ø11	Ø22	80	M5	4.50	
	SK50-SAS22-100	Ø11	Ø22	100	M5	4.70	
	SK50-SAS31-70	Ø18	Ø31	70	M8	4.50	
	SK50-SAS31-100	Ø18	Ø31	100	M8	5.10	
	SK50-SAS31-130	Ø18	Ø31	130	M8	5.40	
	SK50-SAS42-70	Ø24	Ø42	70	M10	5.00	
	SK50-SAS42-110	Ø24	Ø42	110	M10	5.20	
	SK50-SAS42-150	Ø24	Ø42	150	M10	5.50	
	SK50-SAS65-90	Ø34	Ø65	90	M16	6.80	
	SK50-SAS65-130	Ø34	Ø65	130	M16	7.50	
	SK50-SAS65-170	Ø34	Ø65	170	M16	8.00	
	SK50-SAS84-80	Ø46	Ø84	80	M16	9.00	
	SK50-SAS84-130	Ø46	Ø84	130	M16	9.70	
	SK50-SAS84-180	Ø46	Ø84	180	M16	9.90	

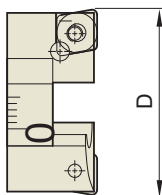
Boring
System

TWIN HEAD



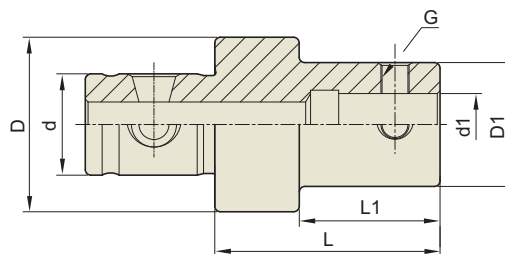
TWIN HEAD	D	중량(kg)	재고
SAS22-TBH25-50	22		
SAS31-TBH34-60	31		
SAS42-TBH50-80	42		
SAS65-TBH76-110	65		
SAS84-TBH116-145	84		

INSERT HOLDER (CARTRIDGE)



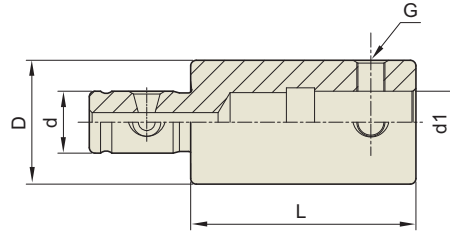
INSERT HOLDER	D		중량(kg)	재고
	MIN	MAZ		
TBH25-CC06	Ø25 - Ø34			
TBH34-CC06	Ø34 - Ø50			
TBH50-CC09	Ø50 - Ø76			
TBH76-CC12	Ø76 - Ø116			
TBH116-CC12	Ø116 - Ø156			

REDUCTION BAR



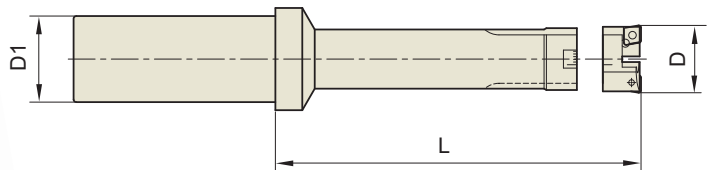
TWIN HEAD	d	d1	D	D1	L	L1	G	중량(kg)	재고
R-SAS31-22-40	Ø18	Ø11	Ø31	Ø22	40	25	M5		
R-SAS42-22-45	Ø24	Ø11	Ø42	Ø22	45	25	M5		
R-SAS42-31-50	Ø24	Ø18	Ø42	Ø31	50	30	M8		
R-SAS65-22-50	Ø34	Ø11	Ø65	Ø22	50	25	M5		
R-SAS65-31-55	Ø34	Ø18	Ø65	Ø31	55	30	M8		
R-SAS65-42-65	Ø34	Ø24	Ø65	Ø42	65	40	M10		
R-SAS84-22-55	Ø46	Ø11	Ø84	Ø22	55	25	M5		
R-SAS84-31-60	Ø46	Ø18	Ø84	Ø31	60	30	M8		
R-SAS84-42-65	Ø46	Ø24	Ø84	Ø42	65	40	M10		
R-SAS84-65-70	Ø46	Ø34	Ø84	Ø65	70	40	M16		

EXTENSION BAR



TWIN HEAD	d	d1	D	L	G	중량(kg)	재고
E-SAS22-40	Ø11	Ø11	Ø22	40	M5		
E-SAS22-60	Ø11	Ø11	Ø22	60	M5		
E-SAS31-50	Ø18	Ø18	Ø31	50	M8		
E-SAS31-80	Ø18	Ø18	Ø31	80	M8		
E-SAS42-60	Ø24	Ø24	Ø42	60	M10		
E-SAS42-90	Ø24	Ø24	Ø42	90	M10		
E-SAS65-70	Ø34	Ø34	Ø65	70	M16		
E-SAS65-100	Ø34	Ø34	Ø65	100	M16		
E-SAS84-90	Ø46	Ø46	Ø84	90	M16		
E-SAS84-100	Ø46	Ø46	Ø84	100	M16		

STRAIGHT TWIN EDGE BORING BAR



ST	Taper Accuracy AT3	G Value	RPM	Coolant System
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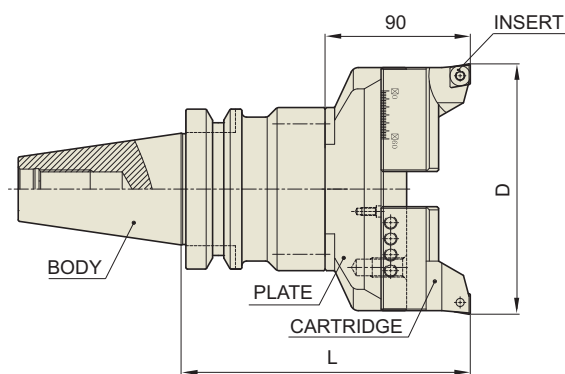
ST

MODEL No.	D		L	D1	INSERT	중량(kg)	재고
	Min	Max					
ST32-TBH25-125	Ø25	Ø34	125	32	CCMT060200		
ST32-TBH34-130	Ø34	Ø50	130	32	CCMT060200		
ST32-TBH50-155	Ø50	Ø76	155	32	CCMT09T300		
ST40-TBH76-185	Ø76	Ø116	185	40	CCMT120400		
ST42-TBH76-185	Ø76	Ø116	185	42	CCMT120400		

TWIN EDGE BORING BAR SET (대구경 - 황삭용)

TBH

JIS B6339 (MAS 403) - BT



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

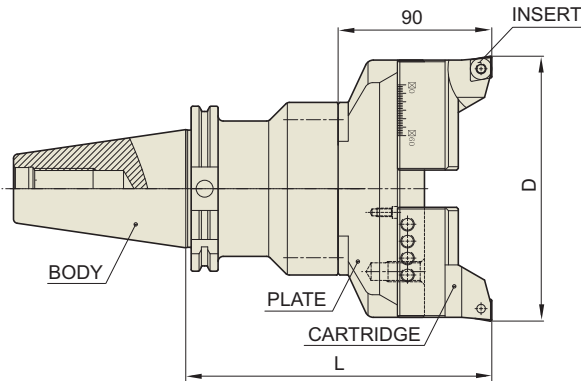
Coolant
System

MODEL No.	D		L	BODY	PLATE	INSERT	중량(kg)	재고
	Min	Max						
BT50-TBH156-180	Ø156	Ø216	180	BT50-SAS102-90	PLA156	CCMT120400		
BT50-TBH156-230	Ø156	Ø216	230	BT50-SAS102-140	PLA156	CCMT120400		
BT50-TBH156-280	Ø156	Ø216	280	BT50-SAS102-190	PLA156	CCMT120400		
BT50-TBH216-180	Ø216	Ø276	180	BT50-SAS102-90	PLA216	CCMT120400		
BT50-TBH216-230	Ø216	Ø276	230	BT50-SAS102-140	PLA216	CCMT120400		
BT50-TBH216-280	Ø216	Ø276	280	BT50-SAS102-190	PLA216	CCMT120400		
BT50-TBH276-180	Ø276	Ø336	180	BT50-SAS102-90	PLA276	CCMT120400		
BT50-TBH276-230	Ø276	Ø336	230	BT50-SAS102-140	PLA276	CCMT120400		
BT50-TBH276-280	Ø276	Ø336	280	BT50-SAS102-190	PLA276	CCMT120400		
BT50-TBH336-180	Ø336	Ø396	180	BT50-SAS102-90	PLA336	CCMT120400		
BT50-TBH336-230	Ø336	Ø396	230	BT50-SAS102-140	PLA336	CCMT120400		
BT50-TBH336-280	Ø336	Ø396	280	BT50-SAS102-190	PLA336	CCMT120400		
BT50-TBH396-180	Ø396	Ø456	180	BT50-SAS102-90	PLA396	CCMT120400		
BT50-TBH396-230	Ø396	Ø456	230	BT50-SAS102-140	PLA396	CCMT120400		
BT50-TBH396-280	Ø396	Ø456	280	BT50-SAS102-190	PLA396	CCMT120400		
BT50-TBH456-180	Ø456	Ø516	180	BT50-SAS102-90	PLA456	CCMT120400		
BT50-TBH456-230	Ø456	Ø516	230	BT50-SAS102-140	PLA456	CCMT120400		
BT50-TBH456-280	Ø456	Ø516	280	BT50-SAS102-190	PLA456	CCMT120400		
BT50-TBH516-180	Ø516	Ø576	180	BT50-SAS102-90	PLA516	CCMT120400		
BT50-TBH516-230	Ø516	Ø576	230	BT50-SAS102-140	PLA516	CCMT120400		
BT50-TBH516-280	Ø516	Ø576	280	BT50-SAS102-190	PLA516	CCMT120400		

TWIN EDGE BORING BAR SET (대경용)

TBH

DIN 69871 - SK



DIN 69871
- SK

Taper
Accuracy
AT3

G Value

RPM

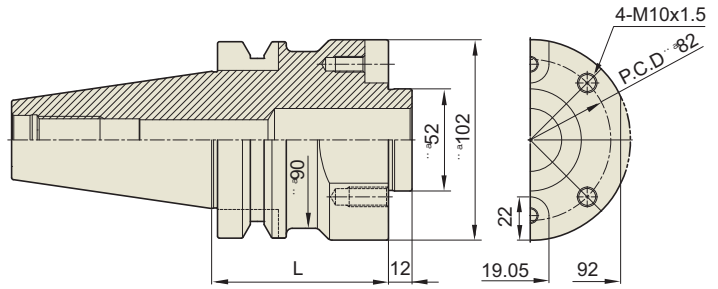
Coolant
System

MODEL No.	D		L	BODY	PLATE	INSERT	중량(kg)	재고
	Min	Max						
SK50-TBH156-180	Ø156	Ø216	180	SK50-SAS102-90	PLA156	CCMT120400		
SK50-TBH156-230	Ø156	Ø216	230	SK50-SAS102-140	PLA156	CCMT120400		
SK50-TBH156-280	Ø156	Ø216	280	SK50-SAS102-190	PLA156	CCMT120400		
SK50-TBH216-180	Ø216	Ø276	180	SK50-SAS102-90	PLA216	CCMT120400		
SK50-TBH216-230	Ø216	Ø276	230	SK50-SAS102-140	PLA216	CCMT120400		
SK50-TBH216-280	Ø216	Ø276	280	SK50-SAS102-190	PLA216	CCMT120400		
SK50-TBH276-180	Ø276	Ø336	180	SK50-SAS102-90	PLA276	CCMT120400		
SK50-TBH276-230	Ø276	Ø336	230	SK50-SAS102-140	PLA276	CCMT120400		
SK50-TBH276-280	Ø276	Ø336	280	SK50-SAS102-190	PLA276	CCMT120400		
SK50-TBH336-180	Ø336	Ø396	180	SK50-SAS102-90	PLA336	CCMT120400		
SK50-TBH336-230	Ø336	Ø396	230	SK50-SAS102-140	PLA336	CCMT120400		
SK50-TBH336-280	Ø336	Ø396	280	SK50-SAS102-190	PLA336	CCMT120400		
SK50-TBH396-180	Ø396	Ø456	180	SK50-SAS102-90	PLA396	CCMT120400		
SK50-TBH396-230	Ø396	Ø456	230	SK50-SAS102-140	PLA396	CCMT120400		
SK50-TBH396-280	Ø396	Ø456	280	SK50-SAS102-190	PLA396	CCMT120400		
SK50-TBH456-180	Ø456	Ø516	180	SK50-SAS102-90	PLA456	CCMT120400		
SK50-TBH456-230	Ø456	Ø516	230	SK50-SAS102-140	PLA456	CCMT120400		
SK50-TBH456-280	Ø456	Ø516	280	SK50-SAS102-190	PLA456	CCMT120400		
SK50-TBH516-180	Ø516	Ø576	180	SK50-SAS102-90	PLA516	CCMT120400		
SK50-TBH516-230	Ø516	Ø576	230	SK50-SAS102-140	PLA516	CCMT120400		
SK50-TBH516-280	Ø516	Ø576	280	SK50-SAS102-190	PLA516	CCMT120400		

BASIC HOLDER (대구경)

SAS

JIS B6339 (MAS 403) - BT



JIS B6339
-BT

Taper
Accuracy
AT3

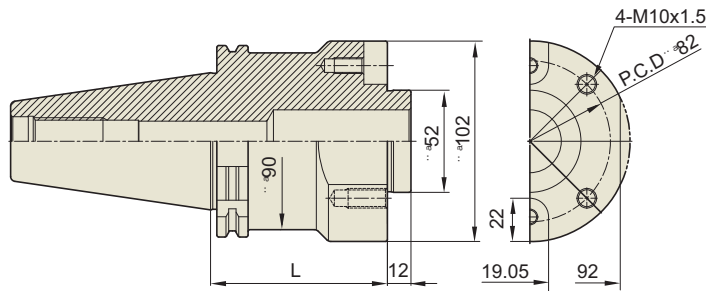
G Value

RPM

Coolant
System

MODEL No.	L	중량(kg)	재고
BT50-SAS102-90	90		
BT50-SAS102-140	140		
BT50-SAS102-190	190		

DIN69871-SK



DIN 69871
-SK

Taper
Accuracy
AT3

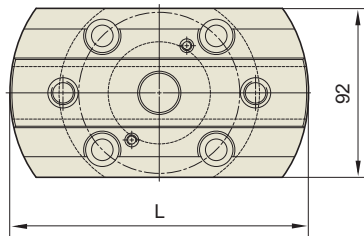
G Value

RPM

Coolant
System

MODEL No.	L	중량(kg)	재고
SK50-SAS102-90	90		
SK50-SAS102-140	140		
SK50-SAS102-190	190		

PLATE



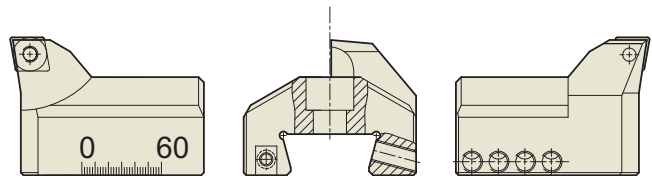
Taper Accuracy	G Value	RPM	Coolant System
AT3			

PLATE	L		
PLA156	152		
PLA216	212		
PLA276	272		
PLA336	332		
PLA396	392		
PLA456	452		
PLA516	512		

CARTRIDGE



(황삭용)



Taper Accuracy	G Value	RPM	Coolant System
AT3			

CARTRIDGE (황삭용)		
CN120		

MICRO BORING BAR

BCA

JIS B6339 (MAS 403) - BT



FIG. 1

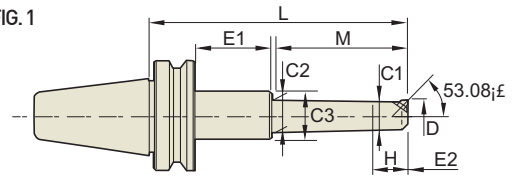
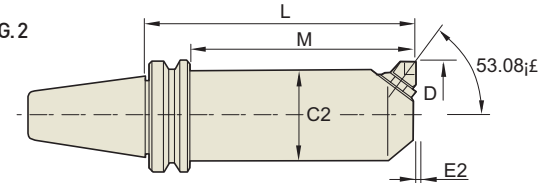


FIG. 2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	FIG.	D		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	중량 (kg)	재고
			Min	Max												
30	BT30-BCA13.5-105	1	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT30-BCA14.5-105	1	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT30-BCA16-105	3	16	22.5	105	73	14	15	-	18	-	0.2	M1A2 E/F	BRAZED TYPE		
	BT30-BCA19-120	1	19	23	120	85	16	18	44	23	3	0.2	M2B 2XC	CCGT0401	0.70	
	BT30-BCA23-135	3	23	29	135	105	19	22	-	24	-	0.2	M3B 2XT	CCGT0601	0.70	
	BT30-BCA29-150	1	29	41	150	115	25	28	44	30	8	0.2	M3A 2XT	CCGT0601	0.90	
	BT30-BCA29-195	1	29	41	195	115	25	28	44	30	53	0.2	M3A 2XT	CCGT0601		
	BT30-BCA38-150	1	38	49	150	115	33	35	55	41	8	0.2	M5B 2XT	TCMT1102	1.40	
	BT30-BCA38-210	1	38	49	210	175	33	37	55	41	8	0.2	M5B 2XT	TCMT1102		
	BT30-BCA46-150	1	46	66	150	115	38	41	55	45	8	0.2	M5A 2XT	TCMT1102	2.10	
	BT30-BCA46-210	1	46	66	210	175	38	45	55	45	8	0.2	M5A 2XT	TCMT1102		
	BT30-BCA62-165	2	62	87	165	135	51	-	-	-	-	0.2	M7A 2XT	TCMT16T3		
40	BT40-BCA13.5-105	1	13.5	16	105	68	12	13.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT40-BCA14.5-105	1	14.5	17	105	68	13	14.0	44	15	5	0.2	M1B2 E/F	BRAZED TYPE		
	BT40-BCA16-105	3	16	22.5	105	73	14	15	-	18	-	0.2	M1A2 E/F	BRAZED TYPE		
	BT40-BCA19-120	1	19	23	120	85	16	18	44	23	3	0.2	M2B2XC	CCGT0401	1.50	
	BT40-BCA23-135	3	23	29	135	105	19	22	-	24	-	0.2	M3B2XT	CCGT0601	1.50	
	BT40-BCA29-150	1	29	41	150	115	25	28	44	30	8	0.2	M3A2XT	CCGT0601	1.50	
	BT40-BCA29-195	1	29	41	195	115	25	28	44	30	53	0.2	M3A2XT	CCGT0601	2.00	
	BT40-BCA38-150	1	38	49	150	115	33	35	55	41	8	0.2	M5B2XT	TCMT1102	1.80	
	BT40-BCA38-210	1	38	49	210	175	33	37	55	41	8	0.2	M5B2XT	TCMT1102	2.20	
	BT40-BCA46-150	1	46	66	150	115	38	41	55	45	8	0.2	M5A2XT	TCMT1102	2.10	
	BT40-BCA46-210	1	46	66	210	175	38	45	55	45	8	0.2	M5A2XT	TCMT1102	2.30	
	BT40-BCA62-165	2	62	87	165	135	51	-	-	-	-	0.2	M7A2XT	TCMT16T3	2.90	
	BT40-BCA62-210	2	62	87	210	180	51	-	-	-	-	0.2	M7A2XT	TCMT16T3	3.60	
	BT40-BCA83-150	2	83	108	150	120	63	-	-	-	-	0.2	M7A2XT	TCMT16T3		
	BT40-BCA83-210	2	83	108	210	180	63	-	-	-	-	0.2	M7A2XT	TCMT16T3		
	BT40-BCA98-150	4	98	142	150	120	83	-	-	-	-	0.2	M10A2XT	TCMT16T3		

MICRO BORING BAR

BCA

JIS B6339 (MAS 403) - BT

FIG.3

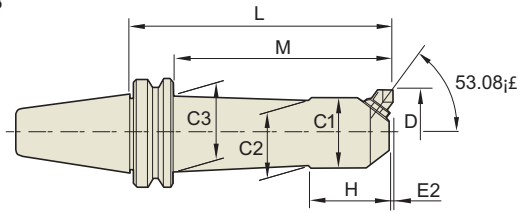
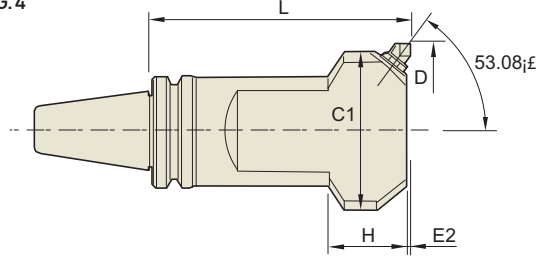


FIG.4



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	FIG.	D		L	M	C1	C2	C3	H	E1	E2	UNIT	INSERT	중량 (kg)	재고
			Min	Max												
50	BT50-BCA13.5-120	1	13.5	16	120	67	12	13	44	15	10	0.2	M1B2 E/F	-		
	BT50-BCA13.5-195	1	13.5	16	195	67	12	13	44	15	85	0.2	M1B2 E/F	-		
	BT50-BCA14.5-120	1	14.5	17	120	67	13	14	44	15	10	0.2	M1B2 E/F	-		
	BT50-BCA14.5-195	1	14.5	17	195	67	13	14	44	15	85	0.2	M1B2 E/F	-		
	BT50-BCA16-120	1	16	22.5	120	73	14	15	44	18	4	0.2	M1A2 E/F	-		
	BT50-BCA16-195	1	16	22.5	195	73	14	15	44	18	79	0.2	M1A2 E/F	-		
	BT50-BCA19-135	1	19	23	135	86	16	18	44	23	6	0.2	M2B2XC	CCGT0401	3.80	
	BT50-BCA19-210	1	19	23	210	86	16	18	44	23	81	0.2	M2B2XC	CCGT0401		
	BT50-BCA23-150	1	23	29	150	105	19	22	44	24	2	0.2	M3B2XT	CCGT0601	3.90	
	BT50-BCA23-225	1	23	29	225	105	19	22	44	24	77	0.2	M3B2XT	CCGT0601		
	BT50-BCA29-165	1	29	41	165	115	25	28	44	30	7	0.2	M3A2XT	CCGT0601	4.50	
	BT50-BCA29-225	1	29	41	225	115	25	28	44	30	67	0.2	M3A2XT	CCGT0601		
	BT50-BCA38-165	1	38	49	165	115	33	35	55	41	7	0.2	M5B2XT	TCMT1102		
	BT50-BCA38-225	1	38	49	225	172	33	37	55	41	10	0.2	M5B2XT	TCMT1102	5.00	
	BT50-BCA46-165	1	46	66	165	115	38	41	55	45	7	0.2	M5A2XT	TCMT1102	5.20	
	BT50-BCA46-225	3	46	66	225	182	38	-	-	45	-	0.2	M5A2XT	TCMT1102		
	BT50-BCA46-255	1	46	66	255	206	38	-	55	45	6	0.2	M5A2XT	TCMT1102	5.70	
	BT50-BCA62-180	2	62	87	180	137	51	-	-	-	-	0.2	M7A2XT	TCMT16T3	7.00	
	BT50-BCA62-240	1	62	87	240	184	51	57	70	60	13	0.2	M7A2XT	TCMT16T3	7.60	
	BT50-BCA62-330	1	62	87	330	280	51	60	70	60	7	0.2	M7A2XT	TCMT16T3	9.50	
	BT50-BCA83-165	2	83	108	165	122	63	-	-	-	-	0.2	M7A2XT	TCMT16T3		
	BT50-BCA83-240	1	83	108	240	190	63	62	90	95	7	0.2	M7A2XT	TCMT16T3		
	BT50-BCA83-345	1	83	108	345	295	63	62	90	95	7	0.2	M7A2XT	TCMT16T3		
	BT50-BCA98-165	2	98	142	165	122	83	-	-	-	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA98-240	2	98	142	240	197	83	-	-	-	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA98-345	3	98	142	345	302	83	92	-	85	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA132-210	4	132	176	210	-	108	-	-	65	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA132-315	4	132	176	315	-	108	-	-	65	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA166-225	4	166	210	225	-	142	-	-	70	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA166-315	4	166	210	315	-	142	-	-	70	-	0.2	M10A2XT	TCMT16T3		
	BT50-BCA200-210	4	200	244	210	-	176	-	-	75	-	0.2	M10A2XT	TCMT16T3		

MICRO BORING BAR

BCA

ST



FIG. 1

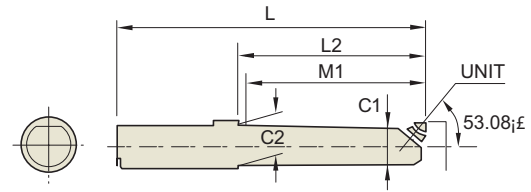
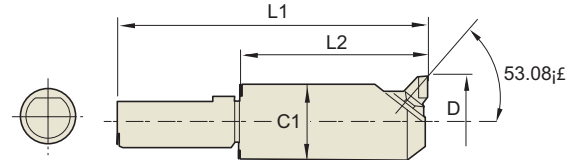


FIG. 2

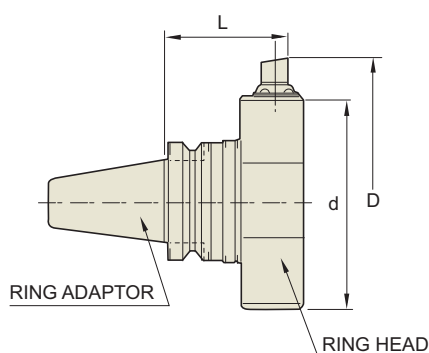


K	Taper Accuracy AT3	G Value	RPM	Coolant System
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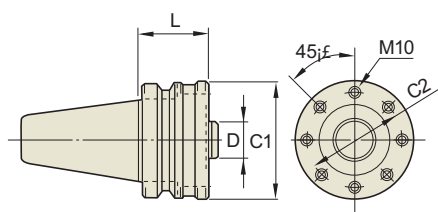
STYLE	MODEL No.	FIG.	D		L1	L2	M1	C1	C2	MICRO UNIT	중량 (kg)	재고
			Min	Max								
32	ST32-BCA13.5-75	1	13.5	16	135	75	67	12	13	M1B2E/F	0.5	
	ST32-BCA14.5-75	1	14.5	17	145	75	67	12	14	M1B2E/F	0.5	
	ST32-BCA16-90	1	16	22.5	160	90	82	14	15	M1A2E/F	0.5	
	ST32-BCA19-90	1	19	23.0	160	90	82	16	18	M2B-2XC	0.5	●
	ST32-BCA23-120	1	23	29.0	190	120	110	19	22	M3B-2XT	1	●
	ST32-BCA29-120	1	29	41.0	190	120	110	25	28	M3A-2XT	1	●
	ST32-BCA38-120	2	38	49.0	190	120	115	33	35	M5B-2XT	1.5	●
	ST32-BCA46-120	2	46	66	190	120	115	38	-	M5A-2XT	1.5	●
	ST32-BCA62-120	2	62	87.0	190	120	115	51	-	M7A-2XT	2.5	
42	ST42-BCA13.5-85	1	13.5	16	165	85	67	12	13	M1B2E or F	1.0	
	ST42-BCA14.5-85	1	14.5	17	165	85	67	12	14	M1B2E or F	1.0	
	ST42-BCA16-100	1	16	22.5	180	100	82	14	15	M1A2E or F	1.0	
	ST42-BCA19-100	1	19	23.0	180	100	82	16	18	M2B2E or F	1.0	
	ST42-BCA23-120	1	23	29.0	200	120	110	19	22	M3B-2XT	1.5	●
	ST42-BCA29-120	1	29	41.0	200	120	110	25	28	M3A-2XT	1.5	●
	ST42-BCA38-130	1	38	49.0	210	130	125	33	35	M5B-2XT	1.5	●
	ST42-BCA46-135	1	46	66.0	215	135	130	38	44	M5A-2XT	1.5	●
	ST42-BCA62-135	2	62	87.0	215	135	130	51	-	M7A-2XT	2.5	●
	ST42-BCA83-150	2	83	108	230	150	145	63	-	M7A-2XT	3.0	●

LARGE SIZE MICRO CUT BORING BAR(BRA) - MAS403 BT

■ BORING RING HOLDER

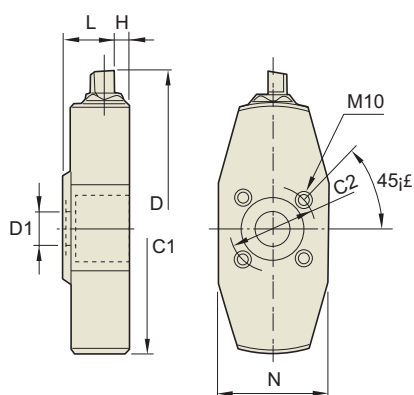


MODEL No.	d	D	L
BT50-BRA140-105	140	197	105
BT50-BRA140-165	140	197	165
BT50-BRA191-105	191	248	105
BT50-BRA191-165	191	248	165
BT50-BRA242-105	242	299	105
BT50-BRA242-165	242	299	165
BT50-BRA293-105	293	350	105
BT50-BRA293-165	293	350	165
BT50-BRA344-105	344	401	105
BT50-BRA344-165	344	401	165
BT50-BRA395-105	395	452	105
BT50-BRA395-165	395	452	165



■ RING ADAPTER

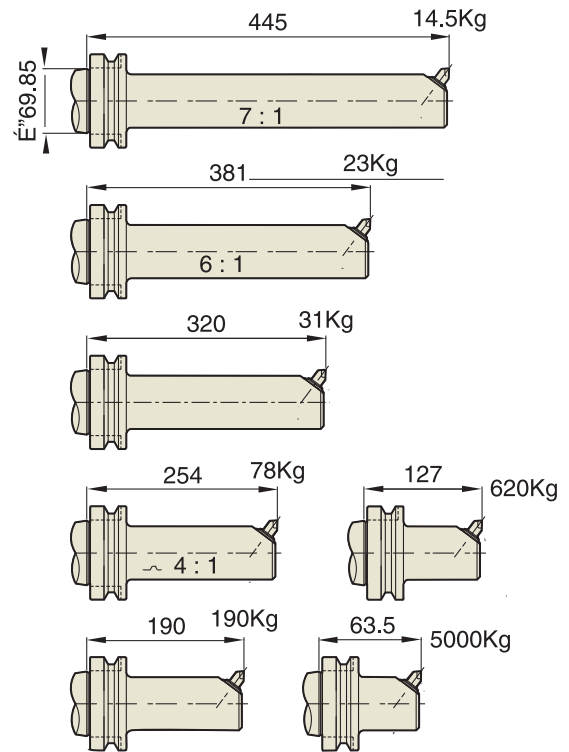
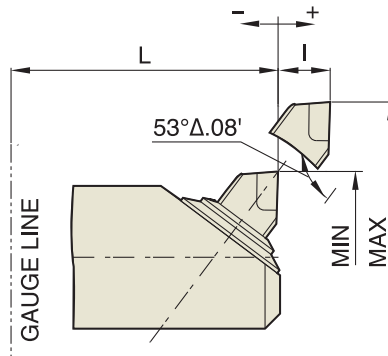
MODEL No.	D(h6)	L	C1	C2
BT50-RAA32- 60	32	60	102	82
BT50-RAA32-120	32	120	102	82



■ RING HEAD

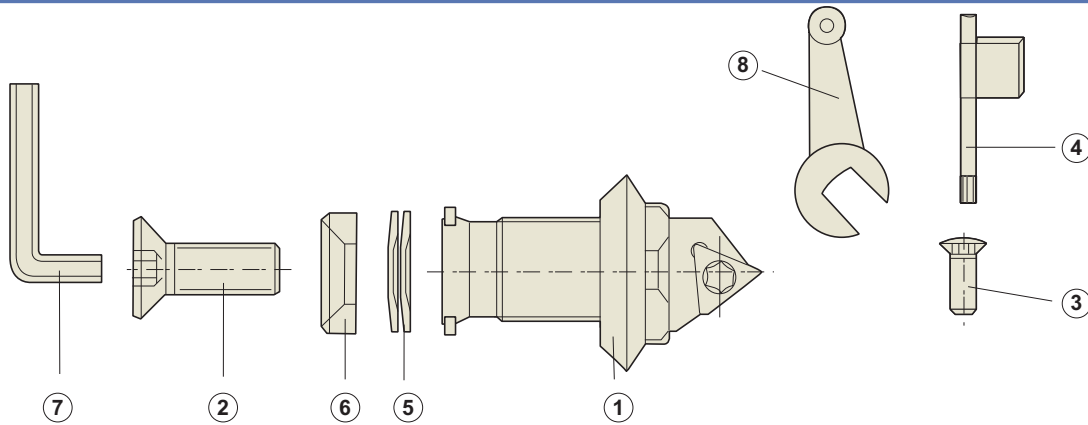
MODEL No.	D1 (H7)	D		L	C1	C2	H	N	MICRO UNIT
		MIN	MAX						
RH32-BCA140	32	140	197	45	102	82	14	-	M10A2XT
RH32-BCA191	32	191	248	45	136	82	14	-	M10A2XT
RH32-BCA242	32	242	299	45	184	82	14	103	M10A2XT
RH32-BCA293	32	293	350	45	234	82	14	103	M10A2XT
RH32-BCA344	32	344	401	45	284	82	14	103	M10A2XT
RH32-BCA395	32	395	452	45	36	82	14	103	M10A2XT

BORING BAR의 강성 및 MICRO UNIT 비교표



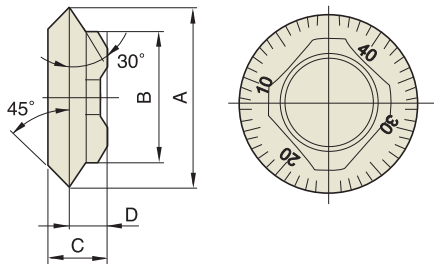
BORING BAR MODEL No.	BRAZED TYPE B EF		SCREW ON TYPE			사용INSERT 규격
	MIN	MAX	MIN	MAX	ΔL	
BCA 19	M2B2	M2B2				CCGT0401
	19	23			-1.9	CCGT0401
BCA 23	M3B2	M3B2	M3B2XT	M3B2XT	M3B2XT	CCGT 060102
	23	29	24.9	30.9	-1.9	CCGT 060102
BCA 29	M3A2	M3A2	M3A2XT	M3A2XT	M3A2XT	CCGT 060102
	29	41.8	30.9	43.8	-1.9	CCGT 060102
BCA 38	M5B2	M5B2	M5B2XT	M5B2XT	M5B2XT	TCMT 110204
	38	49.2	40.9	52.1	-1.9	TCMT 110204
BCA 46	M5A2	M5A2	M5A2XT	M5A2XT	M5A2XT	TCMT 110204
	46	66.6	48.9	69.5	-1.9	TCMT 110204
BCA 62	M7A2	M7A2	M7A2XT	M7A2XT	M7A2XT	TCMT 16T304
	62	87.4	62	87.4	0	TCMT 16T304
BCA 83	M7A2	M7A2	M7A2XT	M7A2XT	M7A2XT	TCMT 16T304
	83	108.4	83	108.4	0	TCMT 16T304
BCA 98	M10A2	M10A2	M10A2XT	M10A2XT	M10A2XT	TCMT 16T304
	98	142.4	98	142.4	0	TCMT 16T304
BCA 132	M10A2	M10A2	M10A2XT	M10A2XT	M10A2XT	TCMT 16T304
	132	176.4	132	176.4	0	TCMT 16T304
BCA 166	M10A2	M10A2	M10A2XT	M10A2XT	M10A2XT	TCMT 16T304
	166	210.4	166	210.4	0	TCMT 16T304
BCA 200	M10A2	M10A2	M10A2XT	M10A2XT	M10A2XT	TCMT 16T304
	200	244.4	200	244.4	0	TCMT 16T304

MICRO UNIT SPARE PART

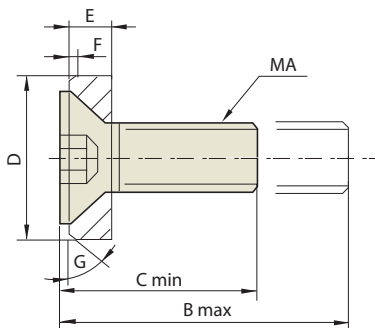


PART NAME			ORDER No.	M1A-B	M2A-B	M3A-B	M5A-B	M5A-B	M7A-B	M10A-B
1	DIAL NUT	경사취부형		1-40	2-40	3-40	5-40	5-40	7-80	10-80
	DIAL NUT	직각취부형		1-50	2-50	3-50	5-50	5-50	7-100	10-100
2	CARTRIDGE BOLT	M-A		F-M3-0.5-8	F-M3-0.5-12	F-M4-0.7-15	F-M6-1.0-25	F-M6-1.0-25	F-M10-1.5-30	M12-1,75-50
	CARTRIDGE BOLT	M-B		M-M3-0.5-6	M-M3-0.5-10	M-M4-0.7-12	M-M6-1.0-20	M-M6-1.0-20	M-M10-1.5-25	M12-1,75-35
3	INSERT SCREW			S1845L5	S1845L5	S2045L6	S2555L6	S2555L6	S4095L6	S4095L6
4	T-WRENCH			T6	T6	T6	T8	T8	T15	T15
5	SPRING WASHER				CB-2	CB-3	CB-5	CB-5	CB-7	CB-10
6	MOUNTING WASHER				2306	3306	5306	5306	7306	10306
7	L-WRENCH			WR-2	WR-2	WR-2.5	WR-4	WR-4	WR-6	WR-8
8	SPANNER			GS12	GS12	GS35	GS35	GS35	GS710	GS710

GRADUATED DIAL UNIT



SIZE	A	B	C	D
M1	9.53	6.99	4.45	2.54
M2	12.7	9.53	5.08	3.30
M3	15.88	11.3	5.59	3.56
M5	25.4	19.05	8.76	4.83
M7	34.93	25.40	11.68	7.11
M10	44.45	34.93	13.84	7.49



LOCK SCREW AND WASHER

SIZE	A	B	C	D	E	F	G
M1	M3	8	6	-	-	-	-
M2	M3	12	10	7.82	1.83	0.5	45°
M3	M4	15	12	10.9	2.46	1.0	45°
M5	M6	25	20	15.7	4.32	0.8	37°
M7	M10	30	25	23.7	6.35	1.30	37°
M10	M12	50	35	31.6	7.92	2.5	37°

SQUARE BORING BAR (45°)

BSA

JIS B6339 (MAS 403) - BT



FIG. 1

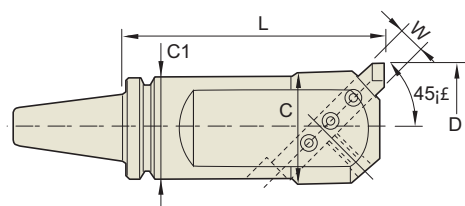
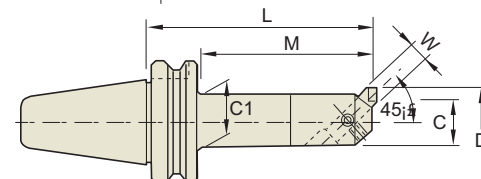


FIG. 2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

RPM

Coolant
System

TAPER No.	MODEL No.	D		L	C	C1	W	M	중량(kg)	재고
		Min	Max							
30	BT30-BSA25-120	25	38	120	20	22	8	90	1.0	
	BT30-BSA30-135	30	42	135	24	26	8	105	1.1	
	BT30-BSA38-150	38	52	150	30	33	10	120	1.4	
	BT30-BSA42-150	42	56	150	34	37	10	125	1.6	
	BT30-BSA50-150	50	65	150	40	44	13	125	1.8	
40	BT40-BSA25-135	25	38	135	20	22	8	108	1.3	
	BT40-BSA30-165	30	42	165	24	26	8	138	1.5	
	BT40-BSA38-180	38	52	180	30	33	10	153	1.8	
	BT40-BSA42-210	42	56	210	34	37	10	183	2.3	
	BT40-BSA50-180	50	65	180	40	44	13	153	2.4	
	BT40-BSA50-225	50	65	225	40	44	13	198	2.9	
	BT40-BSA62-180	62	90	180	50	54	16	153	3.2	
	BT40-BSA62-240	62	90	240	50	54	16	213	4.2	
	BT40-BSA72-180	72	110	180	60	63	19	153	4.4	
	BT40-BSA72-240	72	110	240	60	63	19	213	5.7	
	BT40-BSA90-180	90	125	180	75	63	19	153	5.4	
50	BT50-BSA25-135	25	38	135	20	22	8	95	4.4	
	BT50-BSA30-165	30	42	165	24	26	8	125	4.6	
	BT50-BSA38-180	38	52	180	30	33	10	140	4.8	
	BT50-BSA42-210	42	56	210	34	37	10	170	5.0	
	BT50-BSA50-180	50	65	180	40	44	13	140	5.4	
	BT50-BSA50-240	50	65	240	40	44	13	200	5.7	
	BT50-BSA62-195	62	90	195	50	54	16	155	6.1	
	BT50-BSA62-270	62	90	270	50	54	16	230	7.5	
	BT50-BSA72-195	72	110	195	60	66	19	155	6.9	
	BT50-BSA72-285	72	110	285	60	66	19	245	9.3	
	BT50-BSA90-210	90	125	210	75	80	19	170	9.2	
	BT50-BSA90-300	90	125	300	75	80	19	260	12.3	
	BT50-BSA105-195	105	160	195	90	90	25	157	10.5	
	BT50-BSA105-285	105	160	285	90	90	25	247	14.8	

SQUARE BORING BAR (90°)

BSB

JIS B6339 (MAS 403) - BT

FIG.1

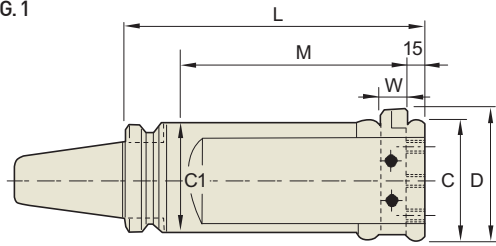
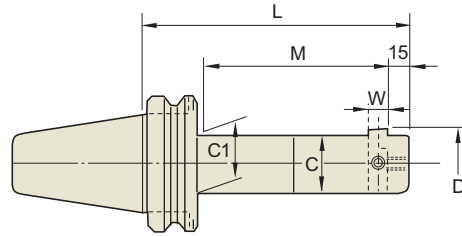


FIG.2



JIS B6339
- BT

Taper
Accuracy
AT3

G Value

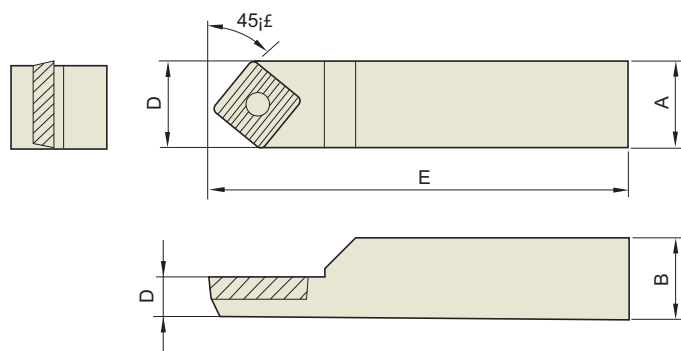
RPM

Coolant
System

TAPER No.	MODEL No.	D		L	C	C1	W	M	중량(kg)	재고
		Min	Max							
30	BT30-BSB25-120	25	50	120	20	22	8	90	1.1	
	BT30-BSB38-150	38	70	150	30	33	10	120	1.5	
	BT30-BSB50-150	50	90	150	40	44	13	125	2.2	
40	BT40-BSB25-135	25	50	135	20	22	8	108	1.3	
	BT40-BSB38-180	38	70	180	30	33	10	153	1.9	
	BT40-BSB50-180	50	90	180	40	44	13	153	2.6	
	BT40-BSB50-225	50	90	225	40	44	13	198	3.1	
	BT40-BSB62-180	62	115	180	50	56	16	153	3.4	
	BT40-BSB62-225	62	115	225	50	56	16	198	4.1	
	BT40-BSB72-180	72	135	180	60	66	19	153	4.7	
	BT40-BSB72-225	72	135	225	60	66	19	198	5.6	
	BT40-BSB90-180	90	150	180	75	80	19	153	5.7	
	BT40-BSB90-225	90	150	225	75	80	19	198	6.6	
50	BT50-BSB25-135	25	50	135	20	22	8	95	4.1	
	BT50-BSB38-180	38	70	180	30	33	10	140	4.8	
	BT50-BSB50-180	50	90	180	40	44	13	140	5.5	
	BT50-BSB50-240	50	50	240	40	44	13	200	5.7	
	BT50-BSB62-195	62	115	195	50	56	16	155	6.4	
	BT50-BSB62-270	62	115	270	50	56	16	230	7.9	
	BT50-BSB72-195	72	135	195	60	66	19	155	7.3	
	BT50-BSB72-285	72	135	285	60	66	19	245	9.6	
	BT50-BSB90-210	90	150	210	75	80	19	170	9.6	
	BT50-BSB90-300	90	150	300	75	80	19	260	12.6	
	BT50-BSB105-195	105	190	195	90	-	25	155	11.1	
	BT50-BSB105-285	105	190	285	90	94	25	245	15.4	

스퀘어바이트 SQUARE BITE

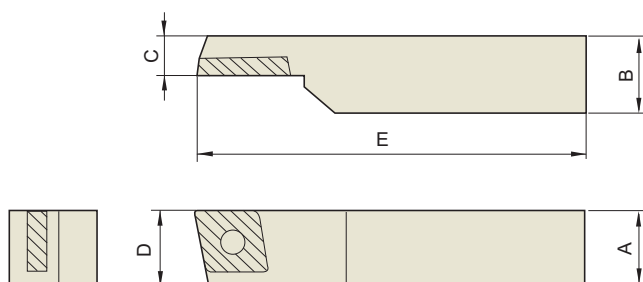
BSA



구분 규격	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC08-45	08	08	6.3	8.39	70	SSB-2506	T7	CCMT0602
SBC10-45	10	10	7	10.39	70	SSB-2506	T7	CCMT0602
SBC13-45	13	13	10	13.6	80	SSB-4009	T15	CCMT09T3
SBC16-45	16	16	11	16.68	100	SSB-5012	T15	CCMT1204
SBC19-45	19	19	11	19.68	100	SSB-5012	T15	CCMT1204
SBC25-45	25	25	12.5	25.68	120	SSB-5012	T15	CCMT1204

스퀘어바이트 SQUARE BITE

BSB



구분 규격	A	B	C	D	E	SCREW	WRENCH	INSERT
SBC08-90	08	08	6.3	8.4	70	SSB-2506	T7	CCMT0602
SBC10-90	10	10	7	10.4	70	SSB-2506	T7	CCMT0602
SBC13-90	13	13	10	13.6	80	SSB-4009	T15	CCMT09T3
SBC16-90	16	16	11	16.7	100	SSB-5012	T15	CCMT1204
SBC19-90	19	19	11	19.7	100	SSB-5012	T15	CCMT1204
SBC25-90	25	25	12.5	25.7	120	SSB-5012	T15	CCMT1204

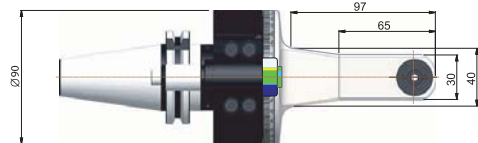


ANGLE HEAD

RIGHT ANGLE HEAD
UNIVERSAL ANGLE HEAD
MODULAR ANGLE HEAD

RIGHT ANGLE HEAD
UNIVERSAL ANGLE HEAD
MODULAR ANGLE HEAD

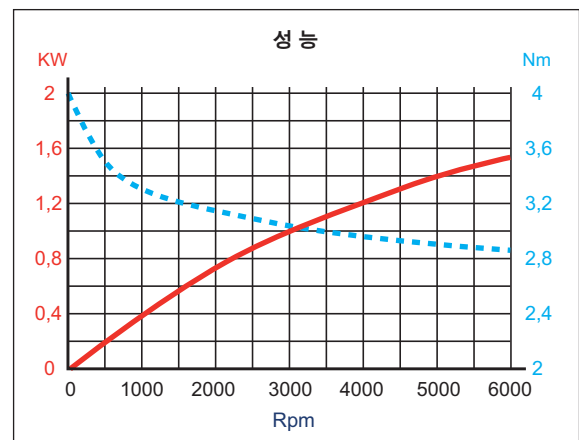
열처리된 shank부와 shaft 일체형



Unit : mm

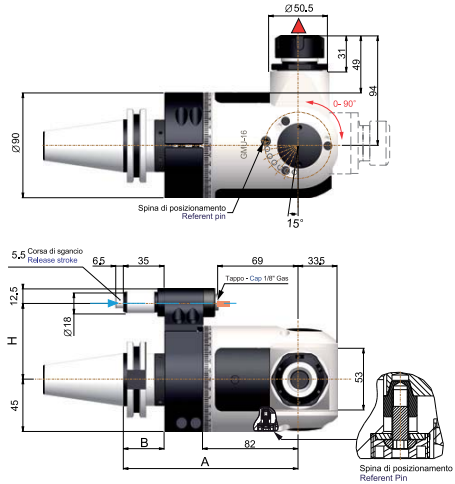
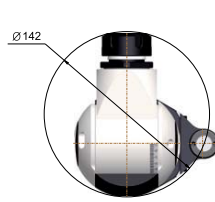
TAPER	MODEL No.	L	D	A	L1	RATIO (IN : OUT)	MAX. RPM	MAX. TORQUE (Nm)	COLLET	Weight (kg)
30	BT30-AGH/ER11-170	170	30	65	15	1:1	6,000	5	ER11	4
	BT30-AGH/ER16-150	150	40	65	20	1:1	6,000	7	ER16	4.3
40	BT40-AGH/ER11-170	170	30	65	15	1:1	6,000	20	ER11	4
	BT40-AGH/ER16-150	150	40	65	20	1:1	6,000	5	ER16	4.3
	BT40-AGH/ER25-150	150	58	65	29	1:1	4,000	7	ER25	5.4
50	BT50-AGH/ER11-170	170	30	80	15	1:1	6,000	20	ER11	6
	BT50-AGH/ER16-150	150	40	80	20	1:1	6,000	40	ER16	6.3
	BT50-AGH/ER25-150	150	58	80	29	1:1	4,000		ER25	7
	BT50-AGH/ER32-160	160	75	80	37.5	1:1	4,000		ER32	11

1. 환경기준 360도 조절 가능
2. Stopper part의 연결부는 Taper 형상
3. 주축의 회전방향은 절삭공구의 회전방향과 동일
(회전방향은 기계스핀들과 같지 않을수 있습니다.)
4. 디스트리뷰터 회전을 통한 내부급유 : 10bar
5. 표준 구성품은 다음을 포함합니다.
 - * 내부 급유가능 위치 조정핀 : 10bar
 - * 내부 가압장치
 - * 특수 백
 - * ER Nut
 - * 렌치
 - * 그리스 튜브
 - * 설명서



범용 Angle head (일체형)

열처리된 shank부와 shaft 일체형

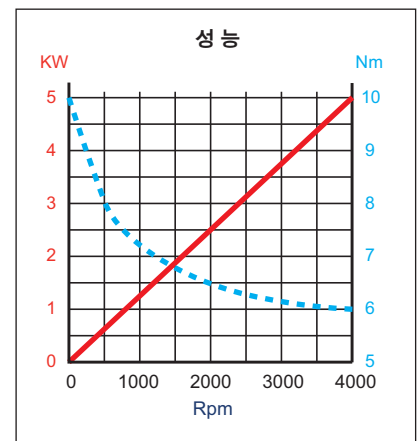


JIS B6339/MAS 403-BT

Unit : mm										Weight (kg)
TAPER	MODEL No.	L	D	A	L1	RATIO (IN : OUT)	MAX. RPM	MAX. TORQUE (Nm)	COLLET	
30	BT30-AGHU/ER20-130	130	43	80	27.5	1:1	4,000	6	ER20	4.2
40	BT40-AGHU/ER20-130	130	43	80	27.5	1:1	4,000	6	ER20	4.5
	BT40-AGHU/ER25-150	150	52.5	80	33.5	1:1	4,000	18	ER25	6.8
50	BT50-AGHU/ER20-130	130	43	110	27.5	1:1	4,000	32	ER20	9.5
	BT50-AGHU/ER25-150	150	52.5	110	33.5	1:1	4,000		ER25	11
	BT50-AGHU/ER32-160	160	64.5	110	41	1:1	4,000		ER32	13

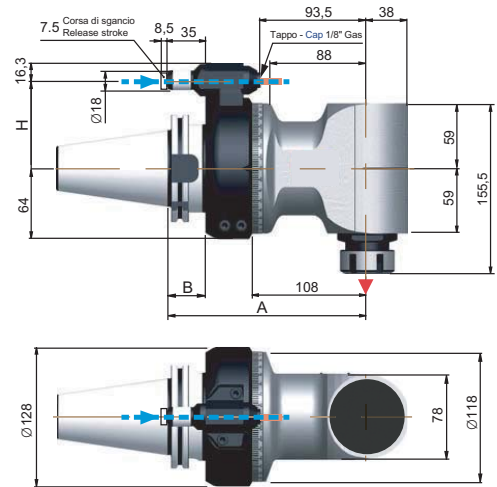
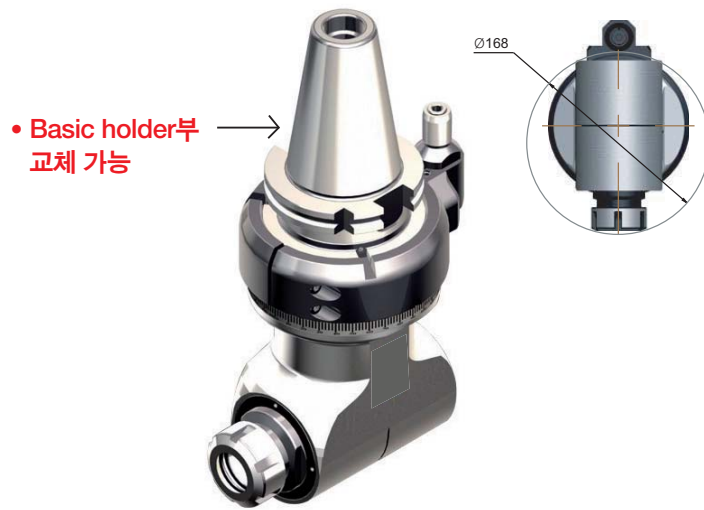
▶ 특성

- 축 기준 90도 반경기준 360도 조절 가능
- Stopper part의 연결부는 Taper 형상 (15도 단위)
- 주축의 회전방향은 절삭공구의 회전방향과 동일 (회전방향은 기계스핀들과 같지 않을수 있습니다.)
- 디스트리뷰터 회전을 통한 내부급유 : 10bar
- 표준 구성품은 240 의 품목들을 포함합니다



우측 방향 Angle head (Modular형)

열처리된 shank부 (교체가능) 와 Shaft

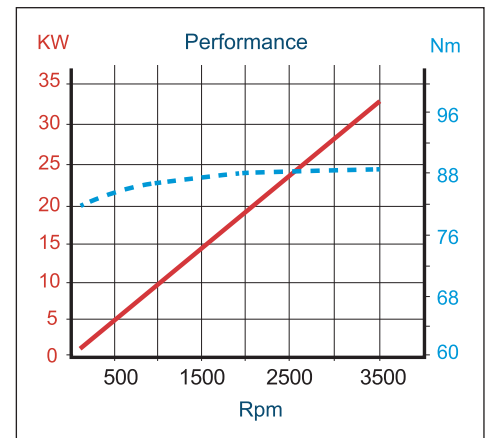


TAPER	MODEL No.	NAX. RPM	MAX. TORQUE (Nm)	COLLET	Weight (kg)
All BT, SK and HSK shanks available	F90/ER16	10,000	11	ER16	5.5
	F90/ER25	5,000	46	ER25	11
	F90/ER32	3,500	85	ER32	13.2

▶ 제품 사양 관련 상세사항은 별도로 협의하십시오.

▶ 특성

- 모듈러 구조
 - 한가지 angle head에 대해서 다른 shank의 base holder로 교체 가능
 - 한가지의 base holder에 대해서 다른 angle head로 교체 가능
- 회전 디스트리뷰터에 의한 내부 급유 : 10bar
- 표준 구성품은 240쪽의 품목들을 포함합니다.
 - * 렌치
 - * 그리스 튜브
 - * 설명서



SSK OTHER PRODUCTS

TOOL CLAMPER - TCP
TOUCH POINT SENSOR -TP
SPINDLE CLEANER - SC
TEST BAR - TB
CENTERING PLUG - CP
BLANK BAR - BL
PULL SATUD BOLT - PS
PULL SATUD BOLT SPANNER - PSWB
HEIGHT PRESETTER - HP / MHP

TOOL CLAMPER - TCP
TOUCH POINT SENSOR -TP
SPINDLE CLEANER - SC
TEST BAR - TB
CENTERING PLUG - CP
BLANK BAR - BL
PULL SATUD BOLT - PS
PULL SATUD BOLT SPANNER - PSWB
HEIGHT PRESETTER - HP / MHP

TOOL CLAMP

FIG.1

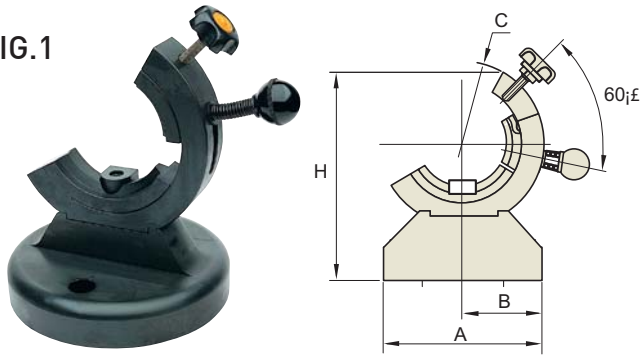
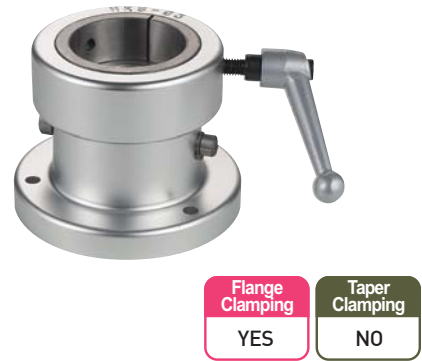


FIG.2



Flange Clamping	Taper Clamping
YES	NO

TAPER No.	MODEL No.	A	B	C	H	중량(kg)
BT30	TCP30	125	65	108	135	3.0
BT40	TCP40	160	80	138	180	7.6
BT50	TCP50	180	90	165	205	8.6
SK30	TSK30	125	65	108	135	3.0
SK40	TSK40	160	80	138	180	7.6
SK50	TSK50	180	90	165	205	8.6
HSK32/40/50	THSK32/40/50	125	65	108	135	
HSK63	THSK63	160	80	138	180	
HSK100	THSK100	180	90	165	205	

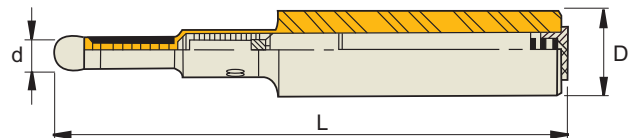
※ HSK 40/50/63/100 Type도 제작가능합니다. (FIG.2)

터치 포인트 센서 (TOUCH POINT SENSOR)



TP-20

- 측정할 때 계속해서 터치 포인트 센서를 돌릴 필요 없음
- 가공물 끝을 빠르게 셋팅함
- 밀링 작업을 할 때나 다른 머신 툴을 사용할 때 포지션 파인디의 시간 단축을 가능하게 함
- 정밀도 : 0.0005 M/M
- 빨간 램프를 밝히기 위해 건조배터리를 채택함

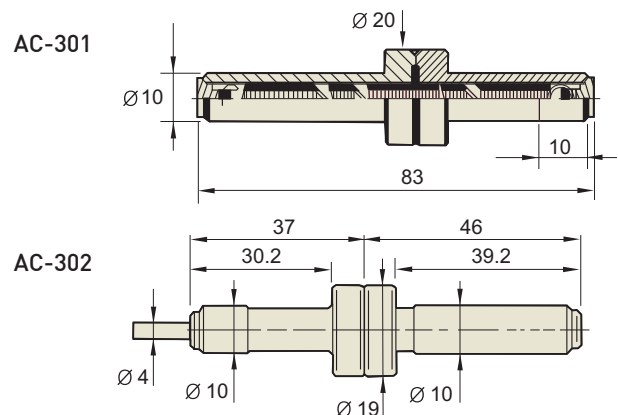


BATTERY TYPE :
UM5#, 1.5V×2PCS (SOE-20L, 32L)
UM5#, 23A×12V×1PCS (SOE-20S, 20LB)

터치 포인트 센서 (TOUCH POINT SENSOR Mechanical Type)



- Accuracy of zero point to point is within 0.003.
- R.P.M. within 450-600.
- Max.flange can be clear your sight sense.
- MIN. (4mm) can be test mini hole for your workpiece.



MODEL No.	Model	D	L	d	N.W (kg)
55030-1	AC-301	Ø10	83	Ø10	0.1
55030-2	AC-302	Ø10	83	Ø4	0.1

SPINDLE CLEANER

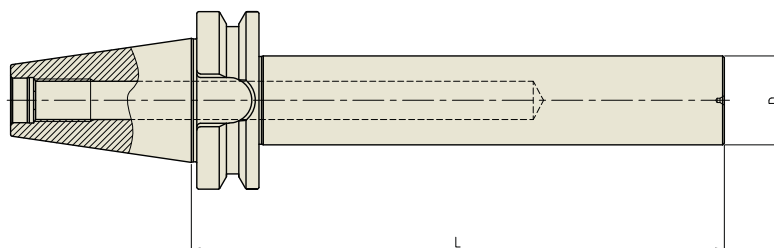
SC



MODEL No.	TAPER	N.W.(kg)	G.W.(kg)	재고
SC - BT30	BT30	0.06	0.08	
SC - BT40	BT40	0.07	0.1	
SC - BT50	BT50	0.16	0.2	
SC - HSK50	HSK50	0.08	0.12	
SC - HSK63	HSK63	0.1	0.13	
SC - HSK100	HSK100	0.5	0.7	

TEST BAR

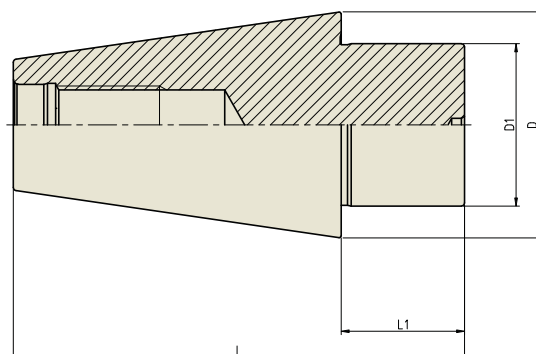
TB



MODEL No.	D	L	재고
HSK40A - TB25 - 200	25	200	
HSK50A- TB32 - 250	32	250	
HSK63A - TB40 - 300	40	300	
HSK100A - TB40 - 350	40	350	
BTN30 - TB30 - 200	30	200	
BTN40 - TB50 - 300	50	300	
BTN50 - TB50 - 300	50	300	

CENTERING PLUG

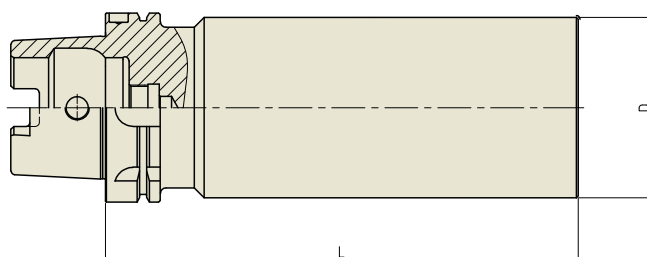
CP



MODEL No.	TAPER No.	D	d1	L	L1	G	재고
NT50 - CP47.625	NT50	200(8"이상)	47.625	164.00	38	U1"-8(M24)	
NT50 - CP60	NT50		60	164.00		U1"-8(M24)	
BT50 - CP47.625	BT50		47.625	138.8		M24	
BT50 - CP60	BT50		60	138.8		M24	

BLANKBAR

BL



MODEL No.	TAPER No.	D	C	L	L1	재고
HSK40A - BL42 - 180	HSK40	42	34	180	35	
HSK50A - BL52 - 200	HSK50	52	42	200	42	
HSK63A - BL63 - 150	HSK63	63	52	150	42	
HSK63A - BL63 - 250	HSK63	63	52	250	42	
HSK63A - BL82 - 200	HSK63	82	52	200	42	
HSK100A - BL102 - 150	HSK100	102	85	150	45	
HSK100A - BL102 - 250	HSK100	102	85	250	45	
HSK100A - BL126 - 200	HSK100	126	85	200	45	
BT30 - BL48 - 180	BT30	48	44	180	30	
BT40 - BL63 - 150	BT40	63	61	150	35	
BT40 - BL63 - 250	BT40	63	61	250	35	
BT40 - BL82 - 200	BT40	82	61	200	35	
BT50 - BL102 - 150	BT50	102	98	150	48	
BT50 - BL102 - 250	BT50	102	98	250	48	
BT50 - BL126 - 200	BT50	126	98	200	48	

PULL STUD BOLT & PULL STUD BOLT SPANNER

PULL STUD BOLT



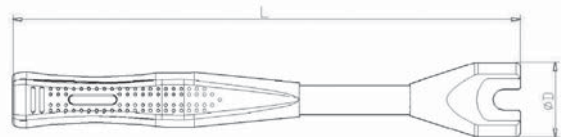
PULL STUD No.

Unit : mm

MODEL No.	D	d2	d1	d	L	l	G	θ	TYPE
PS-1	15		17	10	60	35	M16	45°	BT40- I standard type
PS-2	15		17	10	60	35	M16	60°	BT40- II standard type
PS-5	23		25	17	85	45	M24	45°	BT50- I standard type
PS-6	23		25	17	85	45	M24	60°	BT50- II standard type
PS-16	11		12.5	7	43	23	M12	45°	BT30- I standard type
PS-17	11		12.5	7	43	23	M12	60°	BT30- II standard type
PS-0	23		25	17	85	45	M24	90°	For BT50 OKK
PS-08	15		17	10	60	35	M16	90°	For BT40 OKK
PS-P	24		25	18	71	31	M24	90°	For BT50 MITISUI SEIKI
PS-P5	15		17	10	50	25	M16	90°	For BT40 MITISUI SEIKI
PS-G41	29		25	21	65.2	25.2	M24	45°	For BT50 MASAK
PS-G51	18.8		17	12.45	44.1	19.1	M16	45°	For BT40 MASAK
PS-S2	25		25	18	95	55	M24	60°	For SHIN NIPPON KOKI
PS-F1	23		25	18	104	64	M24	45°	For MITSUBISHI
PS-B1	22		25	16	112	72	M24	60°	For OKUMA
PSS-1	19		17	14	54	26	M16	75°	For SK40
PSS-5	28		25	21	74	34	M24	75°	For SK50

- ▶ 재고 관리 제품
- ▶ 요청에 의해 special 규격사양의 PS 볼트도 생산 및 공급 가능합니다.
- ▶ 내부 급유 타입("H"type)도 요청에 의해 공급 가능 합니다.

PULL STUD BOLT SPANNER



MODEL No.	D	L	중량(Kg)	For
PSWB-30	27	210	0.3	BT30
PSWB-40	37	230	0.4	BT40
PSWB-50	49	280	0.8	BT50

PULL STUD BOLT

ANZUGBOLZEN
BOULONS DE SERRAGE
TIRANTI PER MANDRINI UNIVERSALI
TIRANTES PARA PORTAHERRAMIENTAS

APPLICATION TABLE OF PULL STUD BOLT

MACHINE MANUFACTURER	MACHINE MODEL No.	TAPER No.	PS BOLT	MACHINE MANUFACTURER	MACHINE MODEL No.	TAPER No.	PS BOLT
DOOSAN	ACE-TC400	BT30	PS-16	SEMC	Any Mill LCV30A/B	BT30	PS-17
	ACE-TC320D	BT30	PS-16		Any Mill LCV55S	BT50	PS-6
	Mynx NM410	BT40	PS-1		Any Mill LCV650S	BT50	PS-5
	Mynx 410	BT40	PS-5		Any Mill ICV66	BT50	PS-5
	Mynx 500	BT50	PS-5		Any Mill ICV80	BT50	PS-5
	Mynx 650	BT50	PS-5		DMC-3000	BT50	PS-0
	Mynx 750	BT50	PS-1		PCH40	BT40	PS-1
	ACE-VM5410/510	BT40	PS-1		PCH50	BT50	PS-5
	ACE-VM710	BT50	PS-5	HWACHEON	SIRIUS-1	BT30	PS-16
	ACE-VM900/950	BT50	PS-1		SIRIUS-550	BT40	PS-1
	ACE-V430	BT40	PS-1		SIRIUS-UL/ULG	BT40	PS-1
	ACE-VC500	BT40	PS-1		SIRIUS-7040	BT50	PS-0
	ACE-VMD450	BT40	PS-1		SIRIUS-650/650N	BT50	PS-0
	ACE-VMD600	BT40	PS-1		SIRIUS-850/850N	BT50	PS-0
	NR 510M	BT50	PS-5		SIRIUS-700	BT50	PS-0
	NR 700	BT50	PS-5		SIRIUS-12580	BT50	PS-0
	VM560/50	BT50	PS-5	S&T	TCH-45	BT40	PS-1
	VM 70(H)	BT50	PS-5		TCH-50	BT50	PS-6
	VM 84	BT50	PS-5		TCH-80	BT50	PS-6
	VM 925L	BT50	PS-5		TCH-80TS	BT50	PS-6
	NX 5000	BT50	PS-5		FX-500H	BT40	PS-2
	ACE-HC400/500	BT40	PS-1		TNV-40A	BT40	PS-1
	ACE-HM500/630/800	BT50	PS-5		TNV-80A	BT40	PS-1
	ACE-H100	BT50	PS-5		TNV-650V	BT50	PS-6
	ACE-HP4000/5100	BT40	PS-1	HASS	TM-1/2	BT40	PS-1
	ACE-HP400	BT40	PS-1		VF-4SS/3SS/2SS	BT40	PS-1
	ACE-HP500/630	BT50	PS-5		VF-2TR	BT40	PS-1
					VF-5/50TR	BT50	PS-5
					VF-9/50	BT50	PS-5
WIA	VX380T/420T	BT30	PS-16		VF-8/50	BT50	PS-5
	MX380/420	BT30	PS-16	MAZAK		BT40	PS-G51
	VX400/460	BT40	PS-1			BT50	PS-G41
	KV45/45P	BT40	PS-1	MORI SEKI		BT40	PS-08
	VX500	BT40	PS-1			BT50	PS-51
	VX510M/660M	BT40	PS-1				
	VX700/40	BT40	PS-1				
	VX700/50	BT50	PS-5				
	VX750	BT50	PS-5				
	VX500/50	BT50	PS-6				
	KV60N/90	BT50	PS-5				

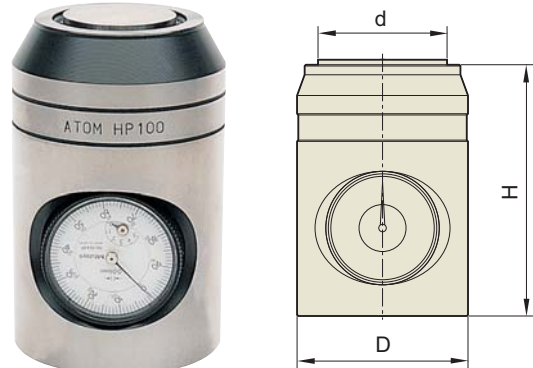
HEIGHT PRESETTER MHP-100/HP-100

• Magnetic Height Pesetter



- Vertical(수직), Horizontal(수평) 모두사용
- Slim design

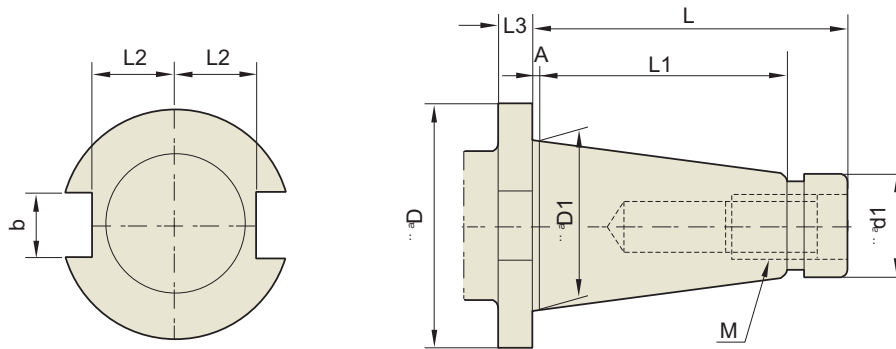
• Height Presetter



- Vertical(수직) 전용

MODEL No.	D	H	d	DIAL
MHP-100(magnetic)	98	100	62	0.01
HP-100	68	100 +/- 0.01	62	0.01

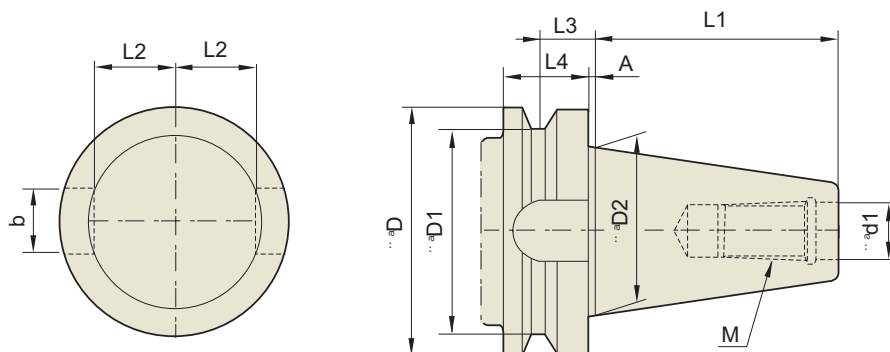
DIN 2080 - NT



TAPER No.	ØD	ØD1	Ød1	L	L1	L2	L3	A	b	M
NT30	46	31.75	17.4	68.4	48.4	16.2	10	1.6	16.1	1/2-13UNC
NT40	63	44.45	25.3	93.4	65.4	22.5	10	1.6	16.1	UNC 5/8-11
NT50	100	69.85	39.6	126.8	101.8	35.3	12	3.2	25.7	UNC 1-8
NT60	155	107.95	60.2	206.8	161.8	60	15	3.2	25.7	UNC 1,1/4-7

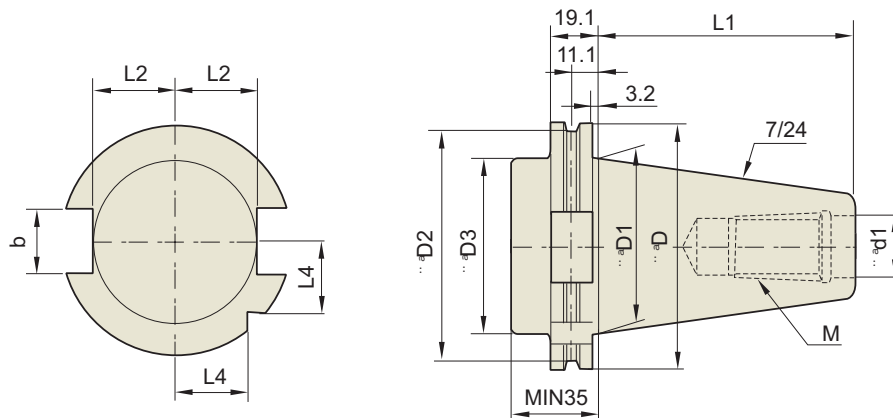
MAS403-BT

Bottle Grip Taper



TAPER No.	ØD	ØD1	ØD2	Ød1	L1	L2	L3	L4	A	b	M
BT30	46	31.75	38	12.5	48.4	16.3	13.6	20	2	16.1	M12x1.75
BT40	63	44.45	53	17	65.4	22.6	16.6	25	2	16.1	M16x2
BT50	100	69.85	85	25	101.8	35.4	23.2	35	3	25.7	M24x3
BT60	155	107.95	135	31	161.8	60.1	28.2	45	3	25.7	M30x3.5

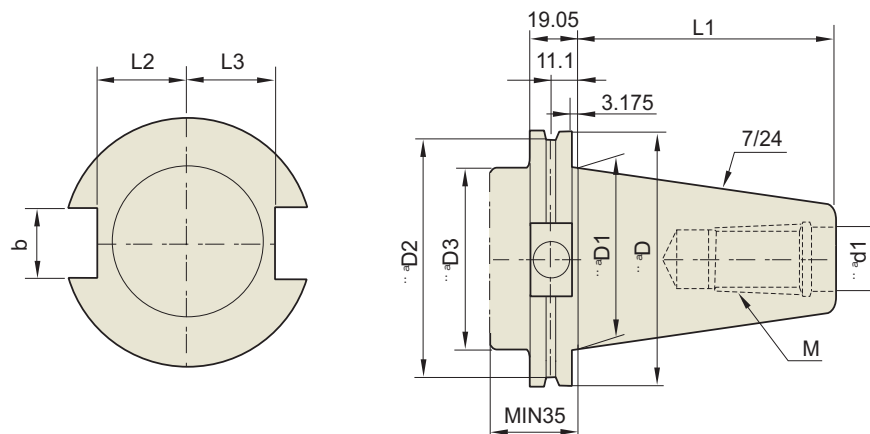
DIN69871-SK



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

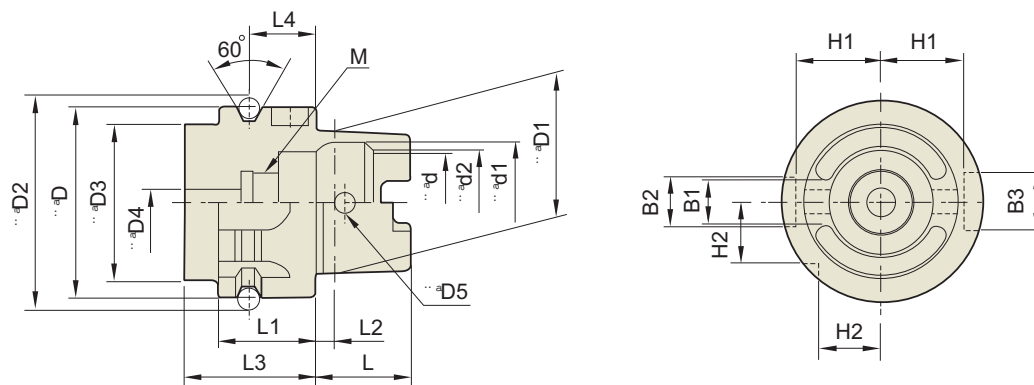
CAT Shank

ANSI B5.50 CH



TAPER No.	ØD	ØD1	ØD2	ØD3	Ød1	L1	L2	L3	b	M
CAT30	50	31.75	44.3	31.75	13	47.625	16.25	18.67	16.1	UNC1/2-13
CAT40	63.55	44.45	56.25	44.45	17	68.25	22.60	25	16.1	UNC5/8-11
CAT50	97.5	69.85	91.25	70.1	25	101.6	35.3	37.7	25.7	UNC1-18
CAT60	155	107.95	132.56	108	32	161.93	54	59.3	25.7	UNC1,1/4-7

DIN 69893/ISO12164-1-HSK SHANK



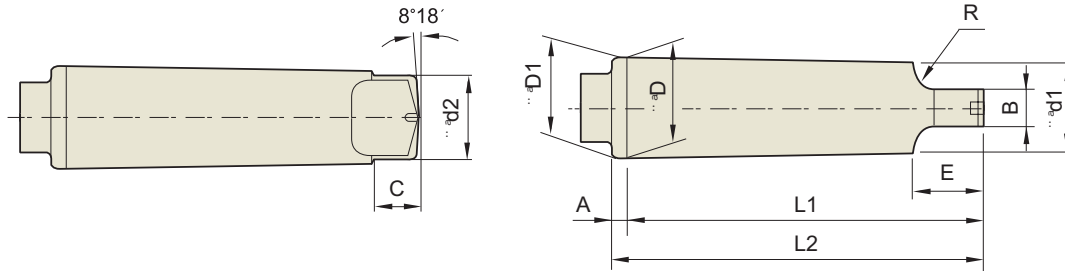
Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	ØD4	ØD5	L	L1	L2	L3	L4
HSK 32A	32	24	37.00	26	4.2	4.0	16	20	3.2	35	16
HSK 40A	40	30	45.00	34	5.0	4.6	20	20	4.0	35	16
HSK 50A	50	38	59.30	42	6.8	6.0	25	26	5.0	42	18
HSK 63A	63	48	72.30	53	8.4	7.5	32	26	6.3	42	18
HSK100A	100	75	109.75	85	12.0	12.0	50	29	10.0	45	20

Unit : mm

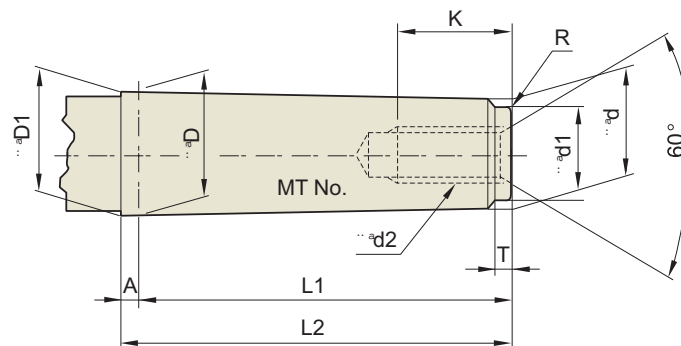
TAPER No.	Ød	Ød1	Ød2	B1	B2	B3	H1	H2	M
HSK 32A	17	20.5	19	7.05	9	7	13.0	9.5	M10×1.0
HSK 40A	21	25.5	23	8.05	11	9	17.0	12.0	M12×1.0
HSK 50A	26	32.0	29	10.54	14	12	21.0	15.5	M16×1.0
HSK 63A	34	40.0	37	12.54	18	16	26.5	20.0	M18×1.0
HSK100A	53	63.0	58	20.02	22	20	44.0	31.5	M24×1.5

Morse Taper - Tang type (MTA)



TAPER	Taper	Taper Angle(α)	$\varnothing D$	A	$\varnothing D1$	$\varnothing d1$	L1	L2	$\varnothing d2$	B	C	E	R
MT0	1/19.212	1°29'27"	9.045	3	9.201	6.104	56.5	59.5	6.0	3.9	6.5	10.5	4
MT1	1/20.047	1°25'43"	12.065	3.5	12.240	8.972	62.0	65.5	8.7	5.2	8.5	13.5	5
MT2	1/20.020	1°25'50"	17.780	5	18.030	14.034	75.0	80.0	13.5	6.3	10	16	6
MT3	1/19.922	1°26'16"	23.825	5	24.076	19.107	94.0	99.0	18.5	7.9	13	20	7
MT4	1/19.254	1°29'15"	31.267	6.5	31.605	25.164	117.5	124.0	24.5	11.9	16	24	8
MT5	1/19.002	1°30'26"	44.399	6.5	44.741	36.531	149.5	156.0	35.7	15.9	19	29	10
MT6	1/19.180	1°29'36"	63.348	8	63.765	52.399	210.0	218.0	51.0	19.0	27	40	13
MT7	1/19.231	1°29'22"	83.058	10	83.578	68.186	286.0	296.0	66.8	28.6	35	54	19

Morse Taper - Screw type



TAPER	Taper	Taper Angle(α)	$\varnothing D$	A	$\varnothing D1$	d	L1	L2	$\varnothing d1$	d2	K	T	R
MT0	1/19.212	1°29'27"	9.045	3	9.201	6.442	50	53	6.4	-	-	4	0.2
MT1	1/20.047	1°25'43"	12.065	3.5	12.230	9.396	53.5	57	9.4	M6	16	5	0.2
MT2	1/20.020	1°25'50"	17.780	5	18.030	14.583	64	69	14.6	M10	24	5	0.2
MT3	1/19.922	1°26'16"	23.825	5	24.076	19.759	81	86	19.8	M12	28	7	0.6
MT4	1/19.254	1°29'15"	31.267	6.5	31.605	25.943	102.5	109	25.9	M16	32	9	1
MT5	1/19.002	1°30'26"	44.399	6.5	44.741	37.584	129.5	136	37.6	M20	40	9	2.5
MT6	1/19.180	1°29'36"	63.348	8	63.765	53.859	182	190	53.9	M24	50	12	4
MT7	1/19.231	1°29'22"	83.058	10	83.578	70.058	250	260	70.0	M33	80	18.5	5

MEMO

