OTHER

DINOX NC TOOLING SYSTEM

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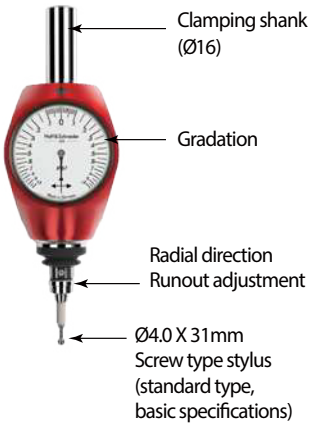
DIGITAL 3D-TASTER

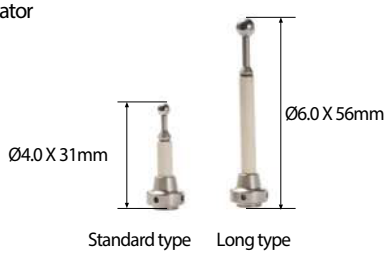
- High measurement accuracy: 0.01mm
- Display indication unit: 0.005mm
- Easy to check measured values through a highly visible display
- Omnidirectional movement and measurable stylus
- Highly waterproof and shockproof structure (IP65 class)
- Convenient and simple concentricity adjustment
- Compatible with conventional styluses
- -,+ indicated according to movement direction based on zero reference
- Built-in CR2032 battery

X, Y, Z axes Driving range	Measurement unit	Display range	Zero accuracy	Zero repetitive accuracy	Clamping shank	Battery classifications	Weight (g)
-2 / to 4mm	0.005mm (5μm)	±2mm	±0.01mm	±0.005mm	Ø16	CR2032	520

3D-TASTER 2007

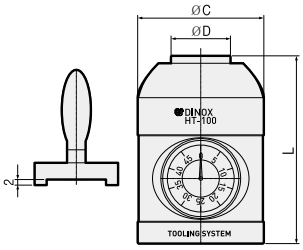
- High measurement accuracy: 0.01mm
- Easy zero adjustment
- Highly waterproof and vibration-proof structure (IP67 class)
- Screw-type stylus
  Prevents the stylus from falling out by vibration and shock
- Simple and accurate radial run-out measurement
  Radial run-out measured directly from the lower part of the scanning arm.
- Radial direction and axial direction measurable with one indicator





Measurement unit	Measurement precision	Clamping shank	Weight (g)
0.01mm	0.01mm	Ø16	397

HT HEIGHT TOUCH SETTER



Model No.	ØD	ØC	L
HT - 100	32	68	100

Features

- Enables the operator to easily sets up tool length at the CNC machining center
- Provides safe operation without interference between the height touch setter and tool
- Location precision : ±0.003mm

DOP DINE OPTICAL EDGE FINDER

Model No.	G.W.WEIGHT KGS	ACCURACY	LxWxH/UNIT:mm
DOP-20B	0.3kgs	±0.005	158X20X10

Features

- Long-time no rust as it is waterproof treated on the whole
- Note: An optical laser type cardiopulmonary system is not suitable for rotation applications.
- It sounds an alarm when touched.

DZH DINE Z AXIAL HEIGHT GAUGE

Model No.	HEIGHT	G.W.WEIGHT KGS	LxWxH/UNIT:mm
DZH-50	50.00±0.005mm	1.2kgs	50X63X63

Features

- For setting up the cutter length of MCT/Turning
- Design setting height: 50.00±0.005mm
- Wide plane face, easy operation
- Relatively less spring ejection and designed to prevent the milling cutter or bite from breaking
- Using a polished parallel plate enables an easy setting.
- Good parallelization degree, quick use response to each direction, and good accuracy
- Using a hexagonal wrench enables an easy adjustment of the height of the measuring stand.
- Using a hexagonal wrench enables an immediate zero (0) adjustment.
- Magnetic attachment type

DZP DINE Z AXIAL SETTING HEIGHT GAUGE

Model No.	HEIGHT	G.W.WEIGHT KGS	LxWxH/UNIT:mm
DZP-100	±0.005	0.73kgs	100X50X50

Features

- For setting the cutter length of MCT/turning
- Design setting height: 100.00±0.005mm
- Wide plane face, easy operation
- Magnetic attachment type
- Enables relatively less spring ejection; prevents the milling cutter or bite from breaking
- Using a polished parallel plate enables an easy setting.
- Good parallelization degree, quick use response to each direction, and good accuracy

DZOP DINE Z AXIAL P RESET GAUGE

Model No.	HEIGHT	G.W.WEIGHT KGS	LxWxH/UNIT:mm
DZOP-50	50	0.6kgs	50X53X53

Features

- For setting the cutter length of MCT/turning
- Design height : 50.00
- Wide plane face, easy operation
- Relatively less spring ejection and designed to prevent the milling cutter or bite from breaking
- Using a polished parallel plate enables an easy setting.
- Good parallelization degree, quick use response to each direction, and good accuracy
- It emits light when touched.
- Magnetic attached type

HDG Hydraulic expansion Chuck gauge

* The following standard is the standard for hydraulic expansion chuck sold by DINE. Therefore, for third-party products, measured values may be different.

Model No.	HEIGHT	G.W.WEIGHT KGS	LxWxH/UNIT:mm
HDG6	Ø6	16	80이상
HDG8	Ø8	23	80이상
HDG10	Ø10	45	110이상
HDG12	Ø12	90	120이상
HDG16	Ø16	185	150이상
HDG20	Ø20	330	160이상

Features

- Able to minimize the defect rate due to low clamping force than required
- A hydraulic expansion chuck gauge that can determine whether clamping force is appropriate before machining
- Can prevent defective machining caused by tool fallout

ROT

Run-out tester

ISO

Shank 200mm=3㎛

Product Features

- Compatible with various shanks; provides diverse lineups
  - Compliant with ISO30~ISO50 (ISO: BT,SK, NT,CAT) affordable general type and multi-type that can measure the cutting edge height and outer diameter simultaneously

Model No.

ROTS	ROTM
ROTS-ISO30	ROTM-ISO30
ROTS-ISO40	ROTM-ISO40
ROTS-ISO50	ROTM-ISO50

Description

Main component				Separate sale		
Shank	Body	Housing	Retainer	Test bar	arm	Indicator
ISO50	ROTM-BD (Multi-type) ROTS-BD (General type)	ROT-HS-ISO50	ROT-RTB-ISO50	BTN50-50-300	MB -1030-2	DIAL GAUGE (0.002mm)
ISO40		ROT-HS-ISO40	ROT-RTB-ISO40	BTN40-50-300		
ISO30		ROT-HS-ISO30	ROT-RTB-ISO30	BTN30-30-200		

Simple measurements

Measure run-out easily by inserting and turn the tool

① After inserting the tool

② Check R/O by turning the tool

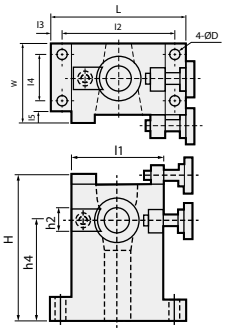
Convenient horizontal adjustability

Can check horizontality by the level installed.

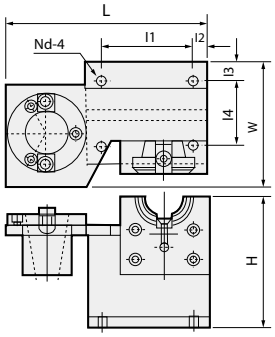
ROTS-General type (~Ø150)

ROTM-Multi type (~Ø400)

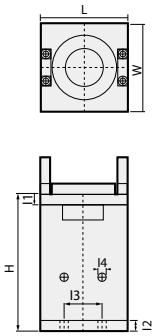
NTSS NEW TOOL SETTING STAND



Model No.	Type	L	l1	l2	l3	l4	H	W	G.W
NTSS-30	BT30	95	65	80	7.5	33	100	58	1kg
NTSS-40	BT40	118	77	99	9.2	44	130	75	1.7kg



Model No.	Type	L	l1	l2	l3	l4	H	W	G.W
NTSS-50	BT50	275	113	20	24	105	200	150	11.4kg

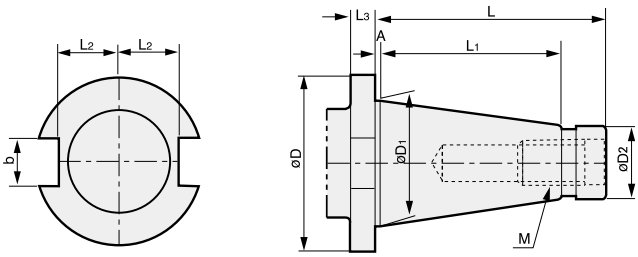


Model No.	Type	L	l1	l2	l3	l4	H	W	G.W
NTSS-HSK63A	HSK63A	106	11	11	50	9	160	106	4.1kg

Features

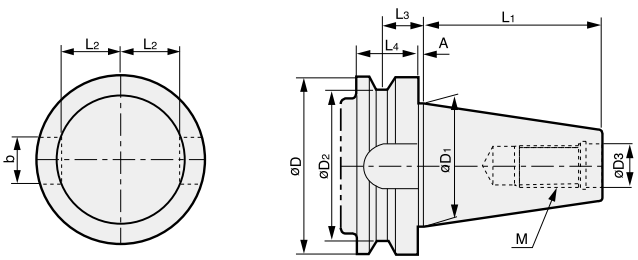
- Made of aluminium alloy
- Two types Vertical or Horizontal available All of BT, CAT, SK available

DIN 2080, JIS B 6101, ISO 297 : 1988(E)



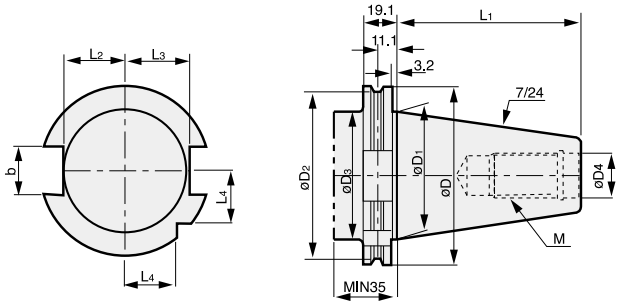
TAPER	ØD	ØD1	ØD2	L	L1	L2	L3	A	B	M
NT30	46	31.75	17.4	68.4	48.4	16.2	10	1.6	16.1	UNC 1/2-13
NT40	63	44.45	25.3	93.4	65.4	22.5	10	1.6	16.1	UNC 5/8 -11
NT50	100	69.85	39.6	126.8	101.8	35.3	14	3.2	25.7	UNC 1 - 8
NT60	155	107.95	60.2	206.8	161.8	60	15	3.2	25.7	UNC 1,1/4 -7

B OTTLE GRIP TAPER MAS403- BT



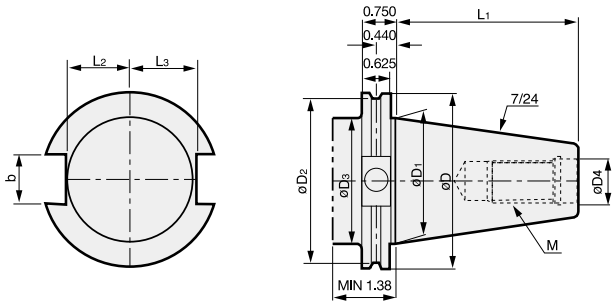
TAPER	ØD	ØD1	ØD2	ØD3	L1	L2	L3	L4	A	B	M
BT30	46	31.75	38	12.5	48.4	16.3	13.6	20	2	16.1	M12 x 1.75
BT40	63	44.45	53	17	65.4	22.6	16.6	25	2	16.1	M16 x 2
BT50	100	69.85	85	25	101.8	35.4	23.2	35	3	25.7	M24 x 3
BT60	155	107.95	135	31	161.8	60.1	28.2	45	3	25.7	M30 x 3.5

DIN 69871-1 A/ B, ISO 7388/1 : 1983(E)



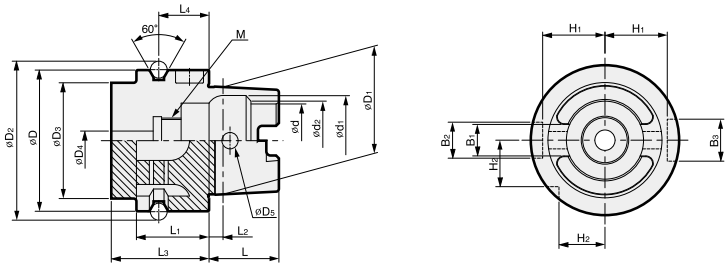
TAPER	ØD	ØD1	ØD2	ØD3	ØD4	L1	L2	L3	L4	B	M
SK30	50	31.75	44.3	45	13	47.8	16.4	19	15	16.1	M12 x 1.75
SK40	63.55	44.45	56.25	50	17	68.4	22.8	25	18.5	16.1	M16 x 2.0
SK50	97.5	69.85	91.25	80	25	101.75	35.5	37.7	30	25.7	M24 x 3.0

CAT SHANK (ANSI/ASME B5.50-1985)



TAPER	ØD	ØD1	ØD2	ØD3	ØD4	L1	L2	L3	B	M
CAT30	1.812	1.250	1.531	1.250	0.516	1.875	0.640	0.735	0.645	UNC 0.500-13
CAT40	2.500	1.750	2.219	1.750	0.641	2.687	0.890	0.985	0.645	UNC 0.625-11
CAT50	3.875	2.750	3.594	2.750	1.031	4.000	1.390	1.485	1.020	UNC 1.000-8
CAT60	5.500	4.250	5.219	4.250	1.281	6.375	2.140	2.235	1.020	UNC 1.250-7

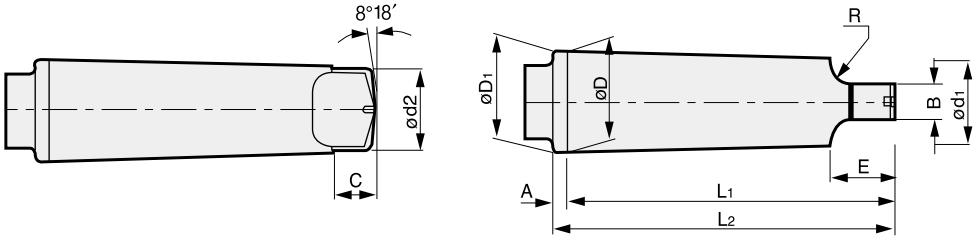
HSK SHANK DIN 69893-1, ISO 12164-1 : 2001



TAPER	ØD	ØD1	ØD3	ØD2	ØD4	ØD5	L	L1	L2	L3	L4
HSK 40A	40	30	34	45	5.0	4.6	20	20	4.0	35	16
HSK 50A	50	38	42	59.3	6.8	6.0	25	26	5.0	42	18
HSK 63A	63	48	53	72.3	8.4	7.5	32	26	6.3	42	18
HSK100A	100	75	88	109.75	12.0	12.0	50	29	10.0	45	20

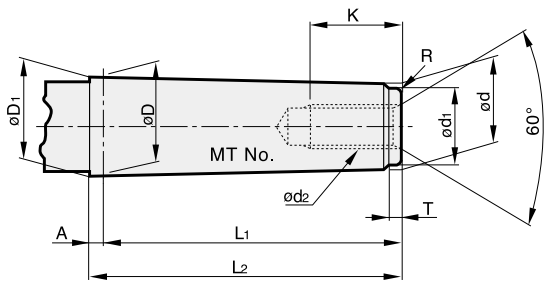
TAPER	Ød	Ød1	Ød2	B1	ØD4	ØD5	H1	H2	M
HSK 40A	21	25.5	23	8.05	11	9	17.0	12.0	M12×1.0
HSK 50A	26	32.0	29	10.54	14	12	21.0	15.5	M16×1.0
HSK 63A	34	40.0	37	12.54	18	16	26.5	20.0	M18×1.0
HSK 100A	53	63.0	58	20.02	22	20	44.0	31.5	M24×1.5

MORSE TAPER (TANG TYPE)



TAPER	Taper	Taper Angle(α)	ØD	A	ØD1	Ød1	L1	L2	Ød2	B	C	E	R	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	1
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	1.2
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	1.6
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	2
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	2.5
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	3
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	4
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	5

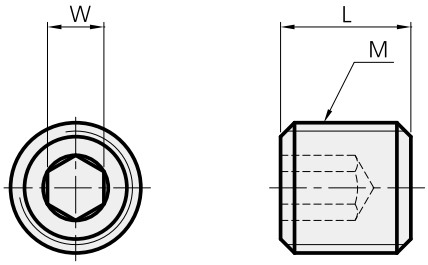
MORSE TAPER (SCREW TYPE)



TAPER	Taper	Taper Angle(α)	ØD	A	ØD1	d	L1	L2	Ød1	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

SPARE PARTS

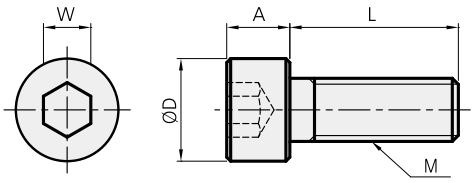
SET SCREW (BSA, BKA, FZ, FF, SLA, SMH)



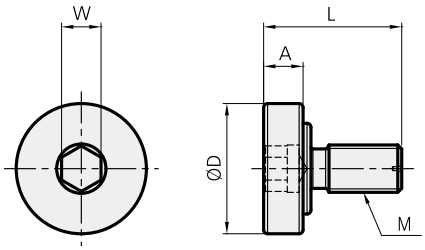
Model No.	M	L	W
BTF0505	M5x0.8	5	2.5
BTF0606	M6x10	6	3
BTF0608	M6x1.0	8	3
BTF0808	M8x1.25	8	4
BTF0812	M8x1.25	12	4
BTF1010	M10x1.5	10	5
BTF1012	M10x1.5	12	5
BTF1016	M10x1.5	16	5
BTF1060	M10x1.5	60	5
BTF1212	M12x1.75	12	6
BTF1212-1.5	M12x1.5	12	6
BTF1414-1.5	M14x1.5	14	6
BTF1216	M12x1.75	16	6
BTF1220	M12x1.75	20	6
BTF1225	M12x1.75	25	6
BTF1230	M12x1.75	30	6
BTF1616	M16x2.0	16	6
BTF1616-1.5	M16x1.5	16	8
BTF1624-1.5	M16x1.5	24	8
BTF1818-1.5	M18x1.5	18	8
BTF2020	M20x2.5	20	10
BTF2020-1.5	M20x1.5	20	10

SPARE PARTS

CLAMP BOLT (FMA, FMC, TBC, FBC, DBC)



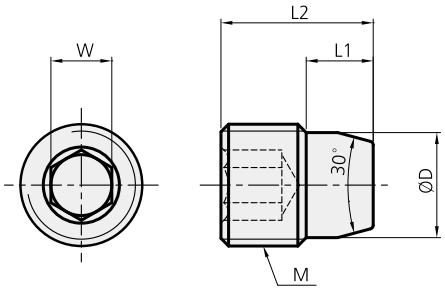
Model No.	M	A	L	ØD	W
BX0310	M3x0.5	3	10	5.5	2.5
BX0412	M4x0.7	4	12	7	3
BX0416	M4x0.7	4	16	7	3
BX0515	M5x0.8	5	15	8.5	4
BX0516	M5x0.8	5	16	8.5	4
BX0616	M6x1.0	6	16	10	5
BX0620	M6x1.0	6	20	10	5
BX0625	M6x1.0	6	25	10	5
BX0630	M6x1.0	6	30	10	5
BX0820	M8x1.25	8	20	13	6
BX0825	M8x1.25	8	25	13	6
BX0830	M8x1.25	8	30	13	6
BX1020	M10x1.5	8	20	16	8
BX1030	M10x1.5	8	30	16	8
BX1035	M10x1.5	8	35	16	8
BX1230	M12x1.75	12	30	18	10
BX1235	M12x1.75	12	35	18	10
BX1640	M16x2.0	16	40	24	14
BX1645	M16x2.0	16	45	24	14



Model No.	M	A	L	ØD	W
MBA-M8	M8x1.25	7	26	20	6
MBA-M10	M10x1.5	9	32	28	8
MBA-M12	M12x1.75	10	35	33	10
MBA-M16	M16x2.0	10	50	40	14
MBA-M20	M20x2.5	14	54	50	17
MBA-M24	M24x3.0	14	62	65	19

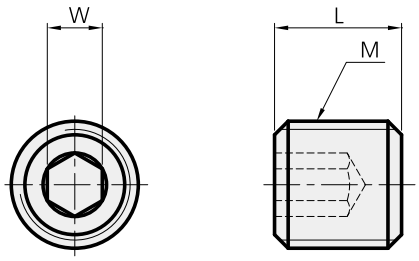
SPARE PARTS

TAPER SCREW (BASIC HOLDER) (SLA, FF, MD, EXT, RDC)



Model No.	M	L1	L2	ØD	W
BTT0506F	M5x0.5	2.8	5.5	4.1	2.5
BTT0608F	M6x0.75	3.8	8	4.9	3
BTT0810F	M8x0.75	4.8	10	6.9	4
BTT1013F	M10x1.0	5.75	13	8.5	5
BTT1215F	M12x1.0	6.8	16	10.5	6
BTT1620F	M16x1.5	8.8	20	13.8	8
BTT1626F	M16x1.5	10.75	26	13.8	8
BTT1631F	M16x1.5	10.75	31	13.8	8

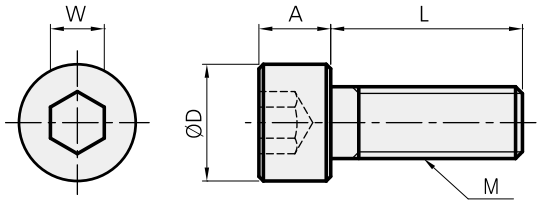
SET SCREW (TBC/FBC)



Model No.	M	L1	W
BT0645	M6x1.0	45	3
BT0660	M6x1.0	60	3

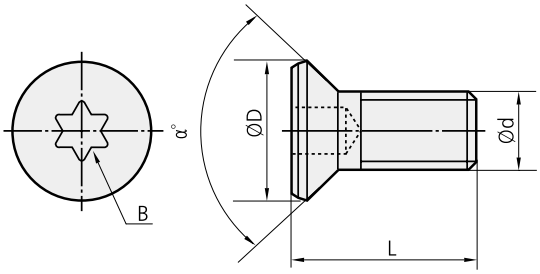
SPARE PARTS

CLAMP BOLT (FBB BITE)



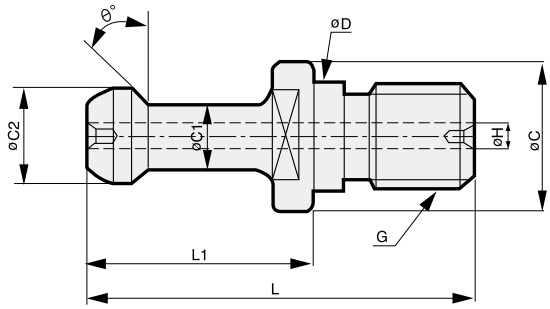
Model No.	M	A	L	ØD	W
BXC0304	M3x0.5	2	5	5.5	2
BXC0405	M4x0.7	2.8	6	7	2.5
BXC0506	M5x0.8	3.5	6	8.5	3
BXC0610	M6x1.0	4	10	10	4
BXC0810	M8x1.25	5	10	13	5

INSERT SCREW



Model No.	M	L	ØD	B	α°	(N·m)
BFTX0203A	2×0.4	3.0	2.7	T6	90	0.5
BFTX0204A	2×0.4	4.3	2.7	T6	90	0.5
BFTX0307A	3×0.5	6.8	4.3	T10	90	2.0
BFTX0410A	4×0.7	10.3	5.6	T15	90	3.4
BFTX02506N	2.5×0.45	5.5	3.45	T8	60	1.5

Pull stud bolt



Model No.	ØD	ØC	ØC1	ØC2	L1	L	θ	G	ØH
P20T-1	8.5	12	6	8.5	17.5	31.5	15°	M8	
P30T-1	12.5	16.5	7	11	23	43	45°	M12	
P30T-1(Ø2.5)	12.5	16.5	7	11	23	43	45°	M12	Ø2.5
P30T-2	12.5	16.5	7	11	23	43	30°	M12	
P30T-2(2.5)	12.5	16.5	7	11	23	43	30°	M12	Ø2.5
P40T-1	17	23	10	15	35	60	45°	M16	
P40T-1(3)	17	23	10	15	35	60	45°	M16	Ø3
P40T-2	17	23	10	15	35	60	30°	M16	
PS40-3F	17	23	10	15	35	60	0°	M16	
PS-G51	17	22	12.45	18.8	19.11	44.11	45°	M16	Ø7
DIN69872-A40	17	23	14	19	26	54	15°	M16	Ø7
DIN69872-B40	17	23	14	19	26	54	15°	M16	
JISB6339-A40(PS806)	17	23	14	19	29	54	15°	M16	Ø7
JISB6339-B40(PS-805)	17	23	14	19	29	54	15°	M16	
P50T-1	25	38	17	23	45	85	45°	M24	
P50T-1(7)	25	38	17	23	45	85	45°	M24	Ø7
P50T-2	25	38	17	23	45	85	30°	M24	
PS50-1F	25	38	17	23	45	85	0°	M24	
PS50-1FH	25	38	17	23	45	85	0°	M24	Ø8
PS-G41	25	37	20.83	28.96	25.2	65.2	45°	M24	Ø10
DIN69872-A50	25	36	21	28	34	74	15°	M24	Ø11.5
P50T-1HS	25	38	17	23	45	85	45°	M24	Ø5.7