



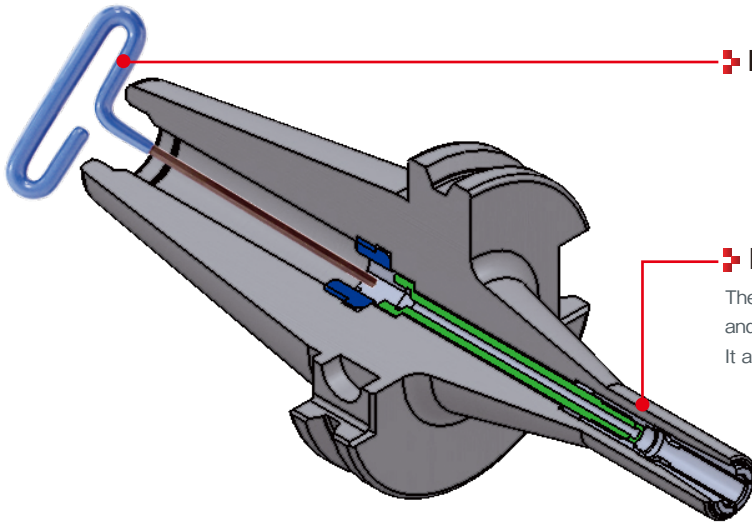
MX mini chuck

Ultimate performance in finishing



**NUT FREE,
ULTIMATE ACCURACY,
HIGH SPEED
G2.5 at 25,000rpm**

Features

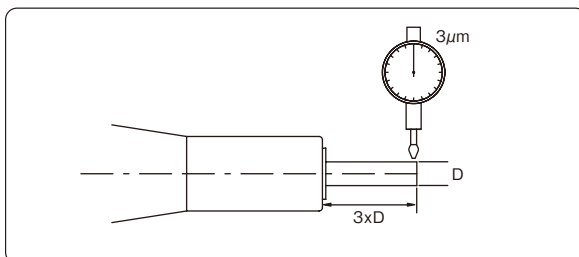


❖ **Rear draw bar locking system**

❖ **Nut Free Design**

The MX nut-free design eliminates collets twist and provides ultra fine run-out. It also provides less interference and excellent holder balance.

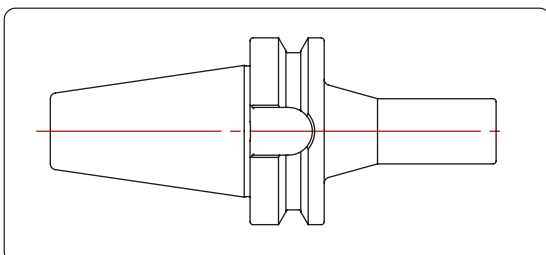
❖ **Ultimate Accuracy**



3μm at 3×D away from the nose

❖ **High Speed Capability**

Symmetric & nut-free design
Ideal design for high speed

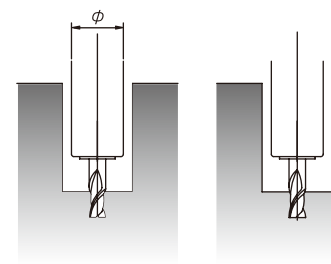


Dynamically balanced G2.5 at 25,000rpm as standard.

❖ **Slim & Compact**

For hard-to-reach places

Nose diameters,
MX06 ϕ 12.7mm
MX08 ϕ 20.0mm
MX12 ϕ 25.4mm



Minimum Interference

The MX slim & compact design, along with its nut-free system minimizes interference issues and maximizes machining reach capability for those hard to reach places.



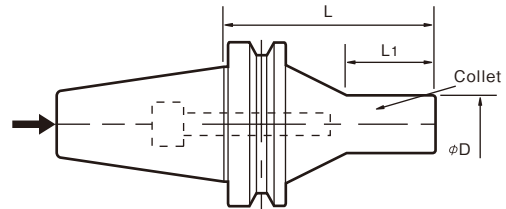
MX mini chuck

BT/SK

Ultimate performance in finishing



- Min. 80% taper fit
 - 3μm T.I.R. at 3×D from nose
 - Taper 30 & 40 dynamically balanced to G2.5 at 25,000rpm
Taper 50 dynamically balanced to G2.5 at 20,000rpm
 - High speed machining up to 30,000rpm
 - Center-thru coolant
 - DIN AD/B available upon request.
- Please add "-D" at the end of Code No. when ordering.
ex) BT40-MX08-085-D



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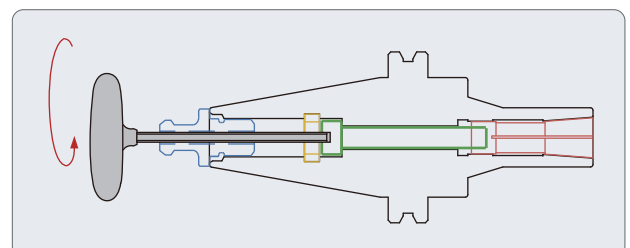
Taper	Code No.	Chucking range	L	L1	φD	Collet
BT30	BT30-MX06-090	2~6	90	31.75	12.7	MX06
	BT30-MX08-090	3~10	90	36	20	MX08
	BT30-MX12-105	3~12	105	35	25.4	MX12
BT40	BT40-MX06-085	2~6	85	31.75	12.7	MX06
	BT40-MX06-120		120			
	BT40-MX06-150		150			
	BT40-MX08-085	3~10	85	40	20	MX08
	BT40-MX08-120		120	43		
	BT40-MX12-090		90	35		
BT50	BT50-MX08-105	3~10	105	40	20	MX08
	BT50-MX08-135		135	43		
	BT50-MX08-165		165	43		
	BT50-MX12-105	3~12	105	35	25.4	MX12
SK40	SK40-MX06-085	2~6	85	31.75	12.7	MX06
	SK40-MX06-120		120			
	SK40-MX06-150		150			
	SK40-MX08-085	3~10	85	40	20	MX08
	SK40-MX08-120		120	43		
	SK40-MX12-090		90	35		
SK50	SK50-MX08-105	3~10	105	40	20	MX08
	SK50-MX12-105	3~12	105	35	25.4	MX12

◇Wrench is not included. Please order separately.

How to use

How to use MX

1. Clean up the taper bore of the chuck, O.D. and I.D. of MX collet and cutter shank by using air blow.
2. Insert wrench from the back of the holder or through coolant hole of the pull stud. Pull the collet into the chuck by rotating the wrench clockwise. Tightening torque is 42-63Nm.





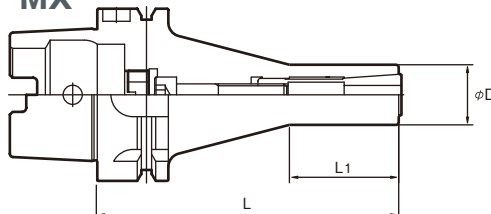
MX mini chuck /VX mini chuck+

HSK

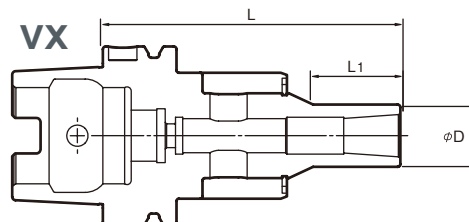


- Min. 80% taper fit
- 3μm T.I.R. at 3×D from nose
- HSK63A dynamically balanced to G2.5 at 25,000rpm
- HSK100A dynamically balanced to G2.5 at 20,000rpm
- Center-thru coolant
- Front Locking system for VX

MX



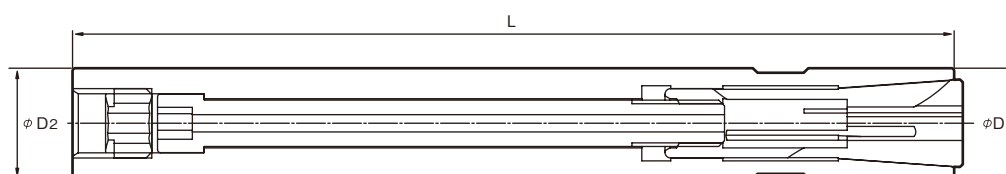
VX



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Taper	Holder type	Code No.	Chuckling range	L	L1	φD	Collet
HSK 63A	MX	HSK 63A-MX06-100	2~6	100	45	12.7	MX06
		HSK 63A-MX08-100	3~10	100	40	20	MX08
		HSK 63A-MX12-110	3~12	110	35	25.4	MX12
HSK 63A	VX	HSK 63A-VX06-105	2~6	105	26.5	12.7	MX06
		HSK 63A-VX06-150		150	40		
		HSK 63A-VX08-105	3~10	105	30.8	20	MX08
		HSK 63A-VX08-150		150	40		
		HSK 63A-VX12-115	3~12	115	48	25.4	MX12
		HSK 63A-VX12-150		150	83		
HSK100A	MX	HSK100A-MX08-115	3~10	115	40	20	MX08
		HSK100A-MX08-150		150	40		
		HSK100A-MX12-120	3~12	120	35	25.4	MX12
		HSK100A-MX12-150		150	35		
HSK100A	VX	HSK100A-VX06-110	2~6	110	29.5	12.7	MX06
		HSK100A-VX06-150		150	40		
		HSK100A-VX08-110	3~10	110	30.8	20	MX08
		HSK100A-VX08-150		150	40		
		HSK100A-VX12-120	3~12	120	48	25.4	MX12
		HSK100A-VX12-165		165	83		

MX Straight shank



Code No.	Chuckling range	φD	φD2	L	Collet
S12-MX06-100	2~6	12.7	12	100	MX06
S12-MX06-150				150	
S20-MX08-100	3~10	20	20	100	MX08
S20-MX08-150				150	
S25-MX12-150	3~12	25.4	25	150	MX12



Collet for MX/VX

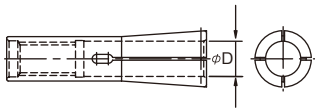


Fig.1

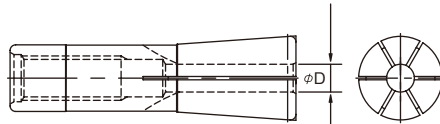


Fig.2

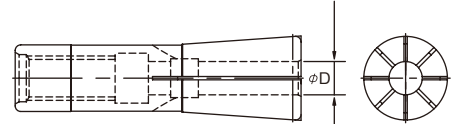
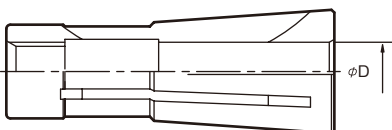


Fig.3

Accuracy : $3\mu\text{m}$ at $4\times D$

ϕD	MX06		MX08		MX12	
	Code No.	Fig	Code No.	Fig	Code No.	Fig
2	MX06-M020	1		2		2
3	MX06-M030		MX08-M030		MX12-M030	
4	MX06-M040		MX08-M040		MX12-M040	
5	MX06-M050		MX08-M050		MX12-M050	
6	MX06-M060		MX08-M060	3	MX12-M060	3
7			MX08-M070		MX12-M070	
8			MX08-M080		MX12-M080	
9			MX08-M090		MX12-M090	
10			MX08-M100		MX12-M100	
11					MX12-M110	
12					MX12-M120	

- MX collet with coolant slots is also available for cutting tools without coolant hole.
Please add "J" at the end of Code No. when ordering. ex) MX08-M030J



1/2 moon Jet-blast,
only used when collet wall is too thin
for full diameter Jet-Blast holes



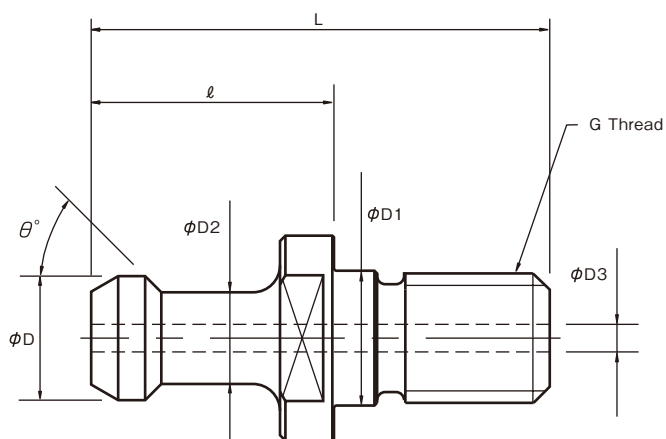
Accessory

Code No.	description
45-48 PIN	VX Pin spanner





Pull Stud



It is critical that the correct pull stud is used with each machining center. Please verify all dimensions prior to ordering. Machine specifications will be located in your machine manual.

Spindle	Code No.	ϕD	L	l	D2	D1	G	θ°	D3	Note
BT30	HPS-16	11	43	23	7	12.5	M12	45	-	MAS P30T-1
	HPS-16C	11	43	23	7	12.5	M12	45	2.5	HPS-16 Coolant
	HPS-17	11	43	23	7	12.5	M12	60	-	MAS P30T-2
	HPS-17C	11	43	23	7	12.5	M12	60	2.5	HPS-17 Coolant
BT40	HPS- 1	15	60	35	10	17	M16	45	-	MAS P40T-1
	HPS- 2	15	60	35	10	17	M16	60	-	MAS P40T-2
	HPS-806-1	19	54	29	14	17	M16	75	6	JIS B6339. Coolant
	HPS-G51	18.796	44.106	19.106	12.446	17	M16	45	7	Mazak type. Coolant
	HPS-O8	15	60	35	10	17	M16	90	-	90 degree angle type
	HPS-301	15	60	35	11	17	M16	60	-	
	HPS-302	19	54	26	14	17	M16	75	-	DIN69872.
	HPS-366E-1	19	54	29	14	17	M16	75	7	P-9, S 15 O-ring
	HPS-805	19	54	29	14	17	M16	75	-	JIS B6339-89
	HPS-813-1	19	54	29	14	17	M16	75	6	JIS B6339-89
BT50	HPS-B62-1	19	54	29	14	17	M16	75	4	S 15 O-ring
	HPS- 5	23	85	45	17	25	M24	45	-	MAS P50T-1
	HPS- 6	23	85	45	17	25	M24	60	-	MAS P50T-2
	HPS-G41	28.956	65.2	25.2	20.828	25	M24	45	10	
SK30	HPS-122	13	44	24	9	13	M12	75	-	DIN69872 SK30 FORM A
SK40	HPS-302	19	54	26	14	17	M16	75	-	DIN69872 SK40 FORM A
	HPS-309	19	54	26	14	17	M16	75	7	DIN69872 SK40 FORM A Coolant
	HPS-309C	19	54	26	14	17	M16	75	7	DIN69872 SK40 FORM B
	HPS-A1	19	54	26	14	17	M16	75	7	ISO-7388/2-1984-A
	HPS-A4	18.95	44.5	16.4	12.95	17	M16	45	7.35	ISO-7388/2-1984-B
SK50	HPS-581	28	74	34	21	25	M24	75	-	DIN69872 SK50 FORM A
	HPS-512	28	74	34	21	25	M24	75	11.5	DIN69872 SK50 FORM A Coolant
	HPS-512B	28	74	34	21	25	M24	75	11.5	DIN69872 SK50 FORM B
	HPS-A3	28	74	34	21	25	M24	75	11.5	ISO-7388/2-1984-A
	HPS-A6	29.1	65.5	25.55	19.6	25	M24	45	11.55	ISO-7388/2-1984-B

◇Other Pull Studs are available upon request.