

- ◆ Patented
- ◆ Replacement Products

FODBITS®

FODBITS PRECISION TECHNOLOGY CO.,LTD

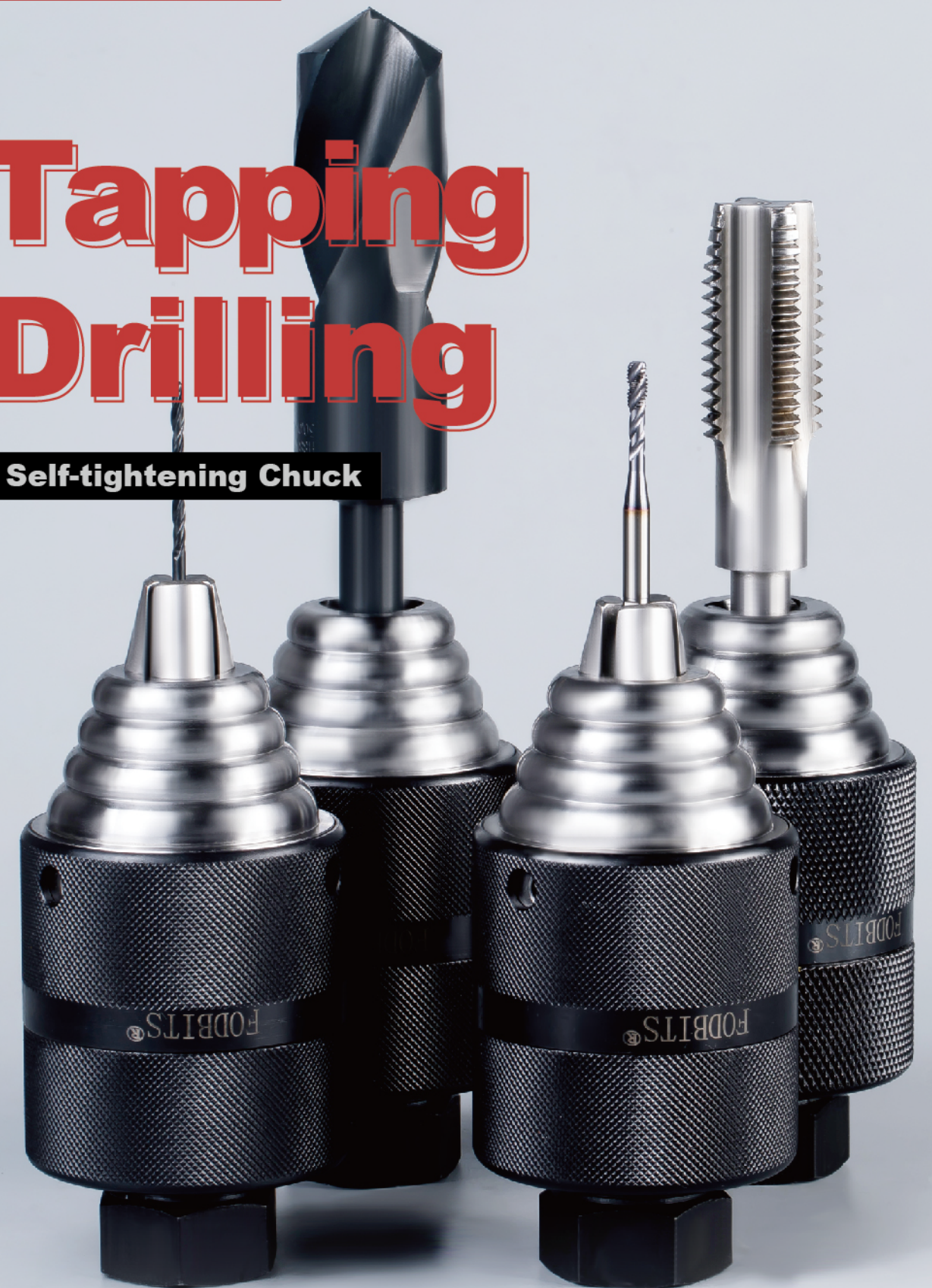
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FODBITS®

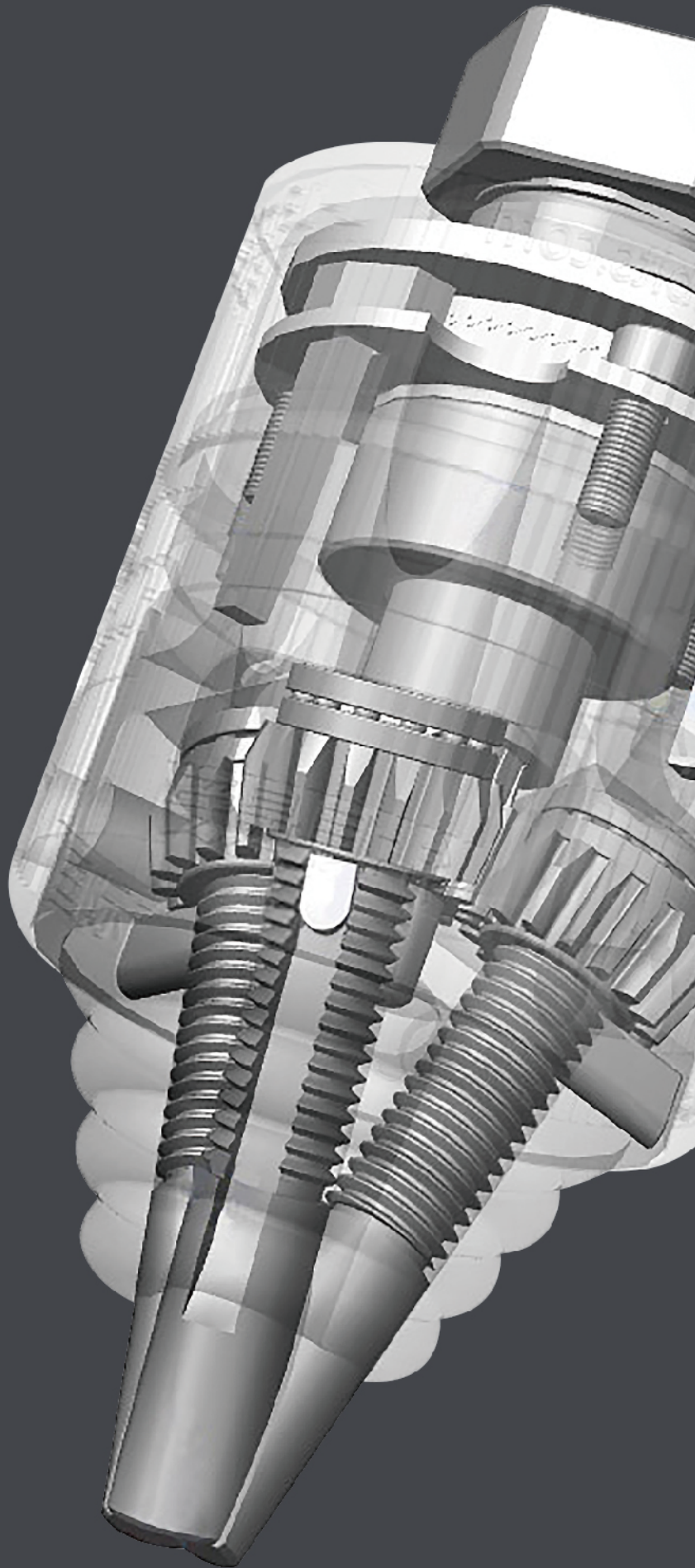
Tapping and Drilling
Self-tightening Chuck

Tapping Drilling

Self-tightening Chuck



- ◆ No Slippage, Tapping range M3-M24, Drilling range ϕ 1-30mm
- ◆ Loosen and Clamp by hand, no special tools are required.
- ◆ Super long working life, High precision



PRODUCT SERIES

PRODUCT SERIES

1	Tapping and drilling chuck series	
	Gear structure tapping and drilling self-tightening chuck series	04
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2	Drill chuck arbors	
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『Product Features』



FODBITS®

TAPPING AND DRILLING SELF-TIGHTENING CHUCK

- ◆ **No slippage during work, Greater clamping force up to 247N.m.**
FODBITS® tapping and drilling self-tightening chuck is one kind of drill chuck with the largest clamping force in the world. In the working process, with the increase of cutting resistance, the greater the clamping force, the tighter the tool clamp, and the maximum clamping force can reach 247N.m. There will be no slippage in the working process.
- ◆ **Tapping large threads and drilling large holes.**
The processing range of the drill chuck is widened.
The chuck with clamping 1-13mm drilling tools: Tapping range M1-M20, Drilling range 1-26mm (0.039"-1.024")
Drill chucks for clamping 1-16mm (0.039"-0.630") drilling tools: Tapping range M1-M24, Drilling range 1-30mm (0.039"-1.181")
- ◆ **Loosen and clamp by hand , no special tools are required.**
The tapping and drilling self-tightening chuck can quickly clamp the drill tool by hand before working; loosen the drill tool soon after work. No special tools are needed.
The clamping and loosening time of the drill tool is only a quarter of that of the keyed drill chuck. It increases the adequate working time of the operator and improves labor productivity. Easily clamp and loosen the drill tool by hand, reducing workers' work intensity.
- ◆ **Super long working life.**
Selection material, Special process treatment, long working life. Under the same working conditions, The working life is 5-20 times longer than the existing keyed drill chuck.
- ◆ **High precision and stability.**
High precision: The radial run-out of high-precision products is less than 0.05mm (0.002") ; The radial run-out of ordinary precision products is less than 0.16mm (0.0063") .Because of the clamping force of the FODBITS® tapping and drilling chuck, The drill tool will not slip concerning the chuck during operation, So the cutting edge of the three claws will not be damaged, So the precision of the product can be maintained well and longer.
- ◆ **High security.**
The safety factor is higher than the traditional keyed drill chuck and keyless self-tightening drill chuck. The product is designed with a mechanism to prevent backsliding. It can prevent the sudden stop of the machine tool and the accidental loss of the drill tool when reversing. Safety accident occurs.
- ◆ **Low cost and high performance.**
With strong clamping force and no slipping, the cutting edge of the clamping jaw is not easy to damage, which prolongs the service life of the chuck. The precision of the product is well maintained, which reduces the scrap rate in the drilling process. Manual, quick clamping and loosening reduces drilling tools' installation and disassembly time and improves labor productivity, so the cost of using them is lower.
- ◆ **Exclusive production advantage.**
More than 20 patents, international and domestic, have been applied for and obtained, filling gaps in the drill chuck history of the world. With the advantages of patent and exclusive production, the quality and after-sales service are reliable.
- ◆ **Upgrading products.**
Regarding processing and operating performance, FODBITS® tapping and drilling self-tightening chuck has more advantages than traditional keyed drill chuck and flat keyless self-tightening drill chuck, which expands its scope of use. The drilling range is extended to 30mm, and the tapping range is extended to M24. The scope of application is more extensive and can be applied to CNC machining centers, CNC lathes, CNC boring and milling centers, rocker drills, bench drills, tapping machines, milling machines, ordinary lathes, combined machine tools, etc.
- ◆ **Flexible disconnecting device.**
The thrust nut is convenient for removing the chuck and can effectively protect the back cone hole of the chuck. Prolong the service life of the chuck.
- ◆ **Operator's favorite.**
Simple operations and powerful functions make the operator's work easier.



Gear structure tapping and drilling self-tightening chuck

Exclusive
Production

Replacement
Products

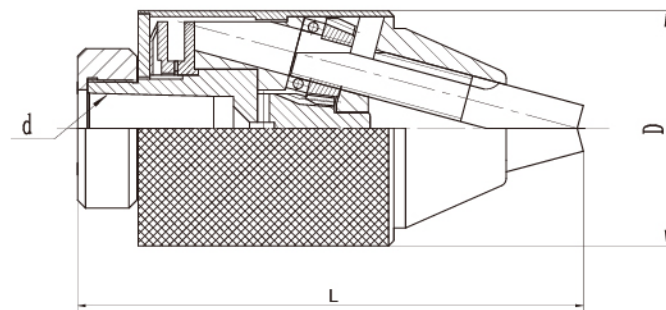
World
patent

FODBITS®

Gear structure tapping and drilling self-tightening chuck

- 01 Greater clamping force,
No slippage.
- 02 Tap big threads,
Drill big holes.
- 03 Loosen and clamp by hand,
Safety and time saving.
- 04 Super Long working life,
Cost-effective.

Taper mount tapping and drilling chuck



- ☆ Loosen and clamping by hand, easy and fast operation saving clamping time
- ☆ Gear structure on strong clamping force. no slippage while working
- ☆ Ratchet selflocking drilling and tapping can be used

- ☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

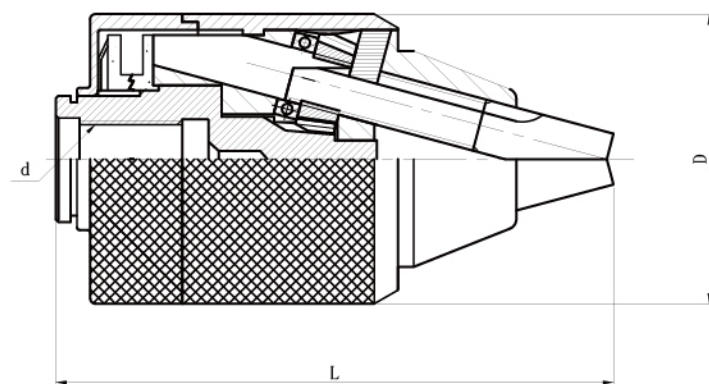
No.	Model	Mount	Clamping range		Drilling range		Tapping range		D		L	
			mm	in	mm	in	mm	in	mm	in	mm	in
012	J0116H-B18	B18	1-16	0.039-0.63	1-30	0.039-1.181	M3-M24	2/6-7/8	69	2.717	139.5	5.492
013	J0116H-JT6	JT6	1-16	0.039-0.63	1-30	0.039-1.181	M3-M24	2/6-7/8	69	2.717	139.5	5.492
014	J0120-B22	B22	5-20	0.197-0.787	1-30	0.039-1.181	M6-M24	1/4-7/8	69	2.717	139.5	5.492
015	J0120-JT3	JT3	5-20	0.197-0.787	1-30	0.039-1.181	M6-M24	1/4-7/8	69	2.717	139.5	5.492

Magnetic Drill Special Chuck

No.	Model	Mount	Clamping range		Drilling range		Tapping range		D		L	
			mm	in	mm	in	mm	in	mm	in	mm	in
001	J0113M-B12	B12	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	110	4.331
002	J0113M-B16	B16	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	110	4.331
003	J0113M-JT2	JT2	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	110	4.331
004	J0113M-JT33	JT33	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	110	4.331
005	J0113-B16	B16	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	118	4.646
006	J0113-JT33	JT33	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	118	4.646
007	J0113-JT6	JT6	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	118	4.646
008	J0116-B16	B16	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	130	5.118
009	J0116-B18	B18	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	130	5.118
010	J0116-JT33	JT33	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	130	5.118
011	J0116-JT6	JT6	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	130	5.118

No.	Model	Mount	Clamping range		Drilling range		Tapping range		D		L	
			mm	in	mm	in	mm	in	mm	in	mm	in
016	J0113-CZ-B16	B16	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/6-5/8	53	2.087	104	4.094
017	J0113-CZ-JT33	JT33	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/6-5/8	53	2.087	104	4.094
018	J0116-CZ-B18	B18	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/6-3/4	63	2.48	115	4.528
019	J0116-CZ-JT6	JT6	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/6-3/4	63	2.48	115	4.528

Thread mount self - tightening chuck

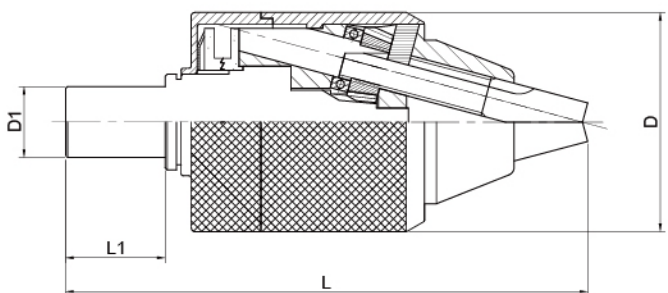


- ☆ Loosen and clamping by hand, easy and fast operation saving clamping time
- ☆ Gear structure on strong clamping force. no slippage while working
- ☆ Ratchet selflocking drilling and tapping can be used

- ☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole
- ☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

No.	Model	Mount	Clamping range		Drilling range		Tapping range		D		L	
			mm	in	mm	in	mm	in	mm	in	mm	in
020	J0313	1/2-20UNF	1-13	0.039-0.63	1-16	0.039-0.63	M3-M12	2/6-1/2	43.5	1.713	84	3.307
		M12X1.25	1-13	0.039-0.63	1-16	0.039-0.63	M3-M12	2/6-1/2	43.5	1.713	84	3.307

Tapping and drilling chuck with integrated shank - Straight shank

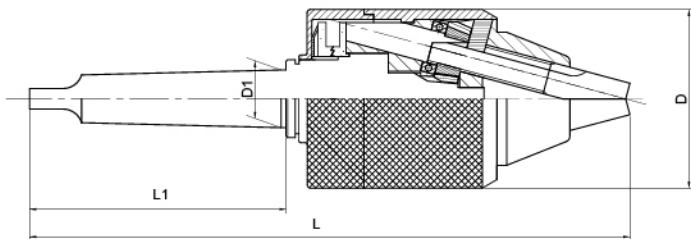


- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision
- ☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

- ☆ Gear structure, strong clamping force, no slippage while working
- ☆ Ratchet self-locking, drilling and tapping can be used

No.	Model	Clamping range		Drilling range		Tapping range		D		D1		L1		L	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
021	J0113M-C20	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	20	0.787	60	2.362	159	6.26
022	J0113-C20	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	20	0.787	60	2.362	166	6.535
023	J0116-C20	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	20	0.787	60	2.362	180	7.887
024	J0116-C25	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	25	0.984	80	3.15	200	7.874

Tapping and drilling chuck with integrated shank - Morse taper with tang



- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision

☆ Loosen and clamp by hand, easy and fast operating, saving clamping time
- ☆ Ratchet self-locking, drilling and tapping can be used

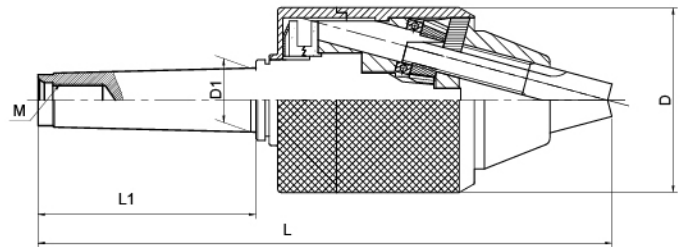
☆ Gear structure, strong clamping force, no slippage while working

☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, magnetic drills; etc

No.	Model	Clamping range		Drilling range		Tapping range		D		D1		L1		L	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
025	J0113M-MT2	1-13	0.039-0.512	1-16	0.039-0.630	M3-M14	2/16-9/16	50	1.968	17.78	0.7	78.5	3.09	178	7.008
026	J0113-MT2	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	17.78	0.7	78.5	3.09	184.5	7.264
027	J0116-MT2	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	17.78	0.7	78.5	3.09	198.5	7.815
028	J0116-MT3	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	23.825	0.938	98	3.858	218	8.583
029	J0116H-MT2	1-16	0.039-0.63	1-30	0.039-1.181	M3-M24	2/6-7/8	69	2.717	17.78	0.7	78.5	3.09	208	8.189
030	J0116H-MT3	1-16	0.039-0.63	1-30	0.039-1.181	M3-M24	2/6-7/8	69	2.717	23.825	0.938	98	3.858	228	8.976
031	J0120-MT2	5-20	0.197-0.787	1-30	0.039-1.181	M6-M24	1/4-7/8	69	2.717	17.78	0.7	78.5	3.09	208	8.189
032	J0120-MT3	5-20	0.197-0.787	1-30	0.039-1.181	M6-M24	1/4-7/8	69	2.717	23.825	0.938	78.5	3.858	228	8.976

Magnetic drill special chuck															
No.	Model	Clamping range		Drilling range		Tapping range		D		D1		L1		L	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
033	J0113-CZ-MT2	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/6-5/8	53	2.087	17.78	0.7	78.5	3.09	173	4.094
034	J0113-CZ-MT3	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/6-5/8	53	2.087	23.825	0.938	98	3.858	193	4.094
035	J0116-CZ-MT2	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/6-3/4	63	2.48	17.78	0.7	78.5	3.09	184	7.244
036	J0116-CZ-MT3	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/6-3/4	63	2.48	23.825	0.938	98	3.858	204	8.031

Tapping and drilling chuck with integrated shank - Morse taper with draw bar



- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision

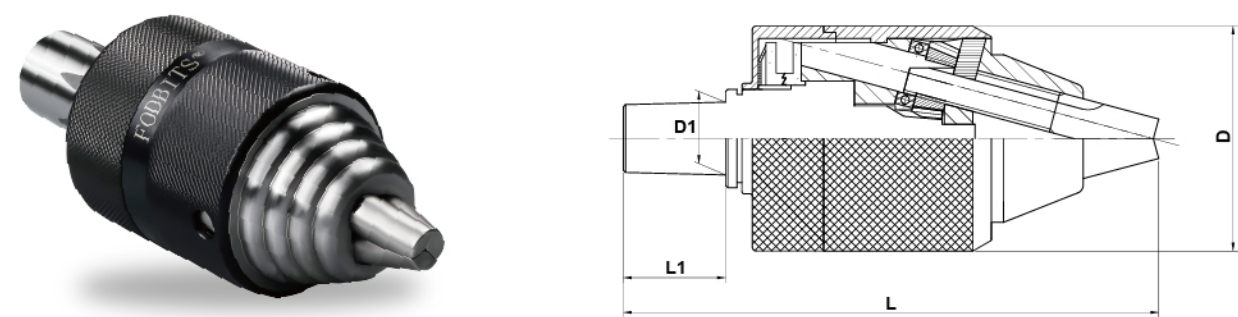
☆ Loosen and clamp by hand, easy and fast operating, saving clamping time
- ☆ Gear structure, strong clamping force, no slippage while working

☆ Ratchet self-locking, drilling and tapping can be used

☆ Used for bench drill, radial arm drilling machine, drilling and tapping machine, lathes, milling machine, etc

No.	Model	Clamping range		Drilling range		Tapping range		D		D1		L1		L		M
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
037	J0113M-MT2W	1-13	0.039-0.512	1-16	0.039-0.63	M3-M14	2/16-9/16	50	1.968	17.78	0.7	78.5	3.091	178	7.008	M10
038	J0113-MT2W	1-13	0.039-0.512	1-20	0.039-0.787	M3-M16	2/16-5/8	55	2.165	17.78	0.7	78.5	3.091	184.5	7.264	M10
039	J0116-MT2W	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	17.78	0.7	78.5	3.091	198.5	7.815	M10
040	J0116-MT3W	1-16	0.039-0.63	1-24	0.039-0.945	M3-M20	2/16-3/4	63	2.48	23.825	0.938	98	3.858	218	8.583	M12

Tapping and drilling chuck with integrated shank - Morse short taper

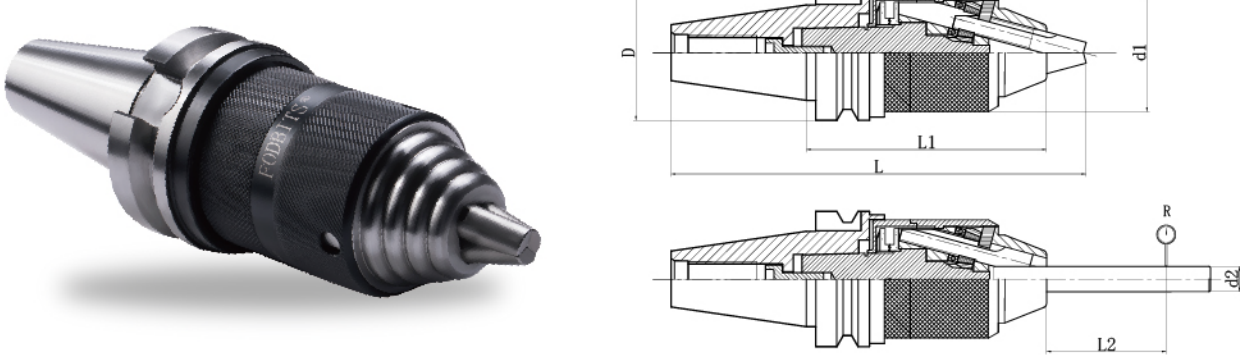


- ☆ One-piece design, taper shank and drill chuck are integrated, compact structure, eliminating accumulated tolerance, high precision
- ☆ Loosen and clamp by hand, easy and fast operating, saving clamping time

- ☆ Combined BT, CAT and DAT tool handles, used for CNC machine
- ☆ Gear structure, strong clamping force, no slippage while working
- ☆ Ratchet self-locking, drilling and tapping can be used

No.	Model	Clamping range		D		D1		L1		L	
		mm	in	mm	in	mm	in	mm	in	mm	in
041	J0113M-MT2D	1-13	0.039-0.512	50	1.968	17.78	0.7	25	0.984	124	4.882
042	J0113-MT2D	1-13	0.039-0.512	55	2.165	17.78	0.7	25	0.984	131	5.157
043	J0113-MT3D	1-13	0.039-0.512	55	2.165	23.825	0.938	26.5	1.043	132.5	5.217
044	J0116-MT2D	1-16	0.039-0.63	63	2.48	17.78	0.7	25	0.984	145	5.709
045	J0116-MT3D	1-16	0.039-0.63	63	2.48	23.825	0.938	26.5	1.043	146.5	5.768

Super precision short tapping and drilling chuck with integrated shank



- ☆ Drill chuck and tool handle are integrated, drill chuck not fall off under heavy cutting

- ☆ Loosen and clamp by hand, easy operating, saving clamping time
- ☆ Strong clamping force, self-locking device, drilling and tapping

MAS403-BT(JIS B 6339)

No.	Model	L1		L		L2		D		d1		d2		R	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
046	BT40-APU13-110	110	4.331	190.4	7.496	75	2.953	63	2.48	55	2.165	13	0.512	0.05	0.002
047	BT50-APU13-120	120	4.724	237	9.331	75	2.953	100	3.937	55	2.165	13	0.512	0.05	0.002
048	BT50-APU16-125	125	4.921	242	9.528	80	3.15	100	3.937	63	2.48	16	0.63	0.05	0.002

DIN-69871-A

No.	Model	L1		L		L2		D		d1		d2		R	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
049	DAT40-APU13-110	110	4.331	193.4	7.614	75	2.953	63.5	2.5	55	2.165	13	0.512	0.05	0.002
050	DAT50-APU13-110	110	4.331	226.75	8.927	75	2.953	97.5	3.839	55	2.165	13	0.512	0.05	0.002
051	DAT50-APU16-120	120	4.724	236.75	9.321	80	3.15	97.5	3.839	63	2.48	16	0.63	0.05	0.002

CAT-ANSI B5.50

No.	Model	L1		L		L2		D		d1		d2		R	
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
052	CAT40-APU13-110	110	4.331	193.3	7.608	75	2.953	63.5	2.5	55	2.165	13	0.512	0.05	0.002
053	CAT50-APU13-110	110	4.331	226.75	8.297	75	2.953	98.45	3.876	55	2.165	13	0.512	0.05	0.002
054	CAT50-APU16-120	120	4.724	236.75	9.321	80	3.15	98.45	3.876	63	2.48	16	0.63	0.05	0.002

Features of screw structure products.

- 01 Tapping and drilling are stable and reliable. Can drill holes of $\phi 1 - \phi 24\text{mm}$; Tapping M3-M20 threads.

- 02 The maximum clamping force is 87 Nm.

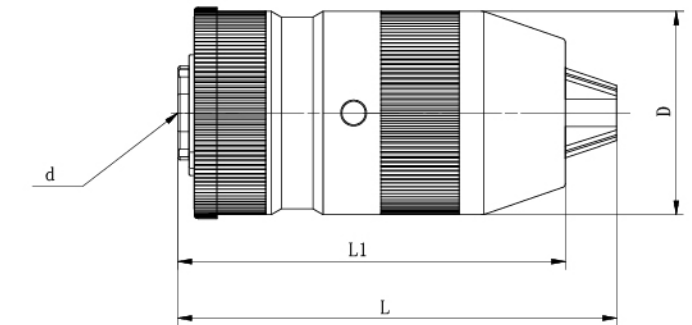
- 03 High precision, less than 0.05mm (0.002")

- 04 The positive and the reverse clamping force are the same.

- 05 Long working life, selected parts, special treatment.

- 06 Add safety lock device to prevent sudden stop or counter-clockwise rotation of the equipment, the chuck is accidentally released.

Taper mount tapping and drilling chuck



☆ High precision, the maximum radial runout of M-level products is not more than 0.05mm detected with a detection rod.

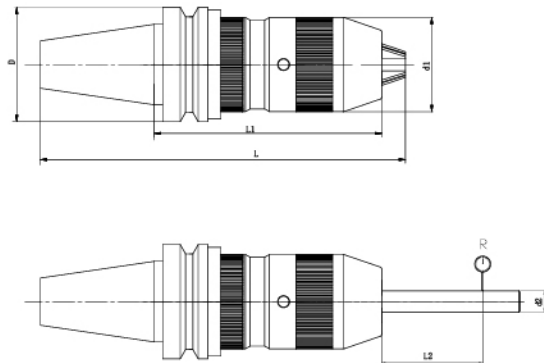
☆ Powerful clamping force, which increases with the increase of cutting resistance

☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

☆ Wide range of applications, to be used in drilling and tapping equipment such as bench drills, radial arm drilling machine, milling machines, lathes, CNC machine tools, etc

No.	Model	Mount	Clamping range		L1		L		D	
			mm	in	mm	in	mm	in	mm	in
055	J0113-BZ-B16	B16	1-13	0.0393-0.512	96	3.78	108	4.25	50	1.97
056	J0113-BZ-JT33	JT33	1-13	0.0393-0.512	96	3.78	108	4.25	50	1.97
057	J0113-BZ-JT6	JT6	1-13	0.0393-0.512	96	3.78	108	4.25	50	1.97
058	J0113-BZ-JT2	JT2	1-13	0.0393-0.512	96	3.78	108	4.25	50	1.97
059	J0116-BZ-JT6	JT6	1-16	0.0393-0.630	102	4.01	114	4.48	57	2.24
060	J0116-BZ-JT3	JT3	1-16	0.0393-0.630	108	4.25	120	4.72	57	2.24
061	J0116-BZ-JT33	JT33	1-16	0.0393-0.630	102	4.01	114	4.48	57	2.24
062	J0116-BZ-B16	B16	1-16	0.0393-0.630	102	4.01	114	4.48	57	2.24
063	J0116-BZ-B18	B18	1-16	0.0393-0.630	108	4.25	120	4.72	57	2.24

APU super precision short tapping and drilling chuck with integrated shank



- ☆ It can tap and drill, and the cutting torque is the same at turning forward and reverse
- ☆ It is suitable for CNC machine tools such as machining centers and CNC milling

☆ The drill chuck is combined with the tool holder as a whole, and the drill chuck will not fall off in the case of heavy cutting

MAS403-BT(JIS B 6339)

No.	Model	L1		L2		L		d1		D		d2		R(≤)
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
064	BT40-APU13ZT-126	126	4.96	75	2.95	202	7.95	50	1.97	63	2.48	13	0.51	0.05
065	BT40-APU16ZT-132	132	5.20	80	3.15	208	8.19	57	2.24	63	2.48	16	0.63	0.05
066	BT50-APU13ZT-126	126	4.96	75	2.95	249	9.80	50	1.97	100	3.94	13	0.51	0.05
067	BT50-APU16ZT-132	132	5.20	80	3.15	255	10.04	57	2.24	100	3.94	16	0.63	0.05

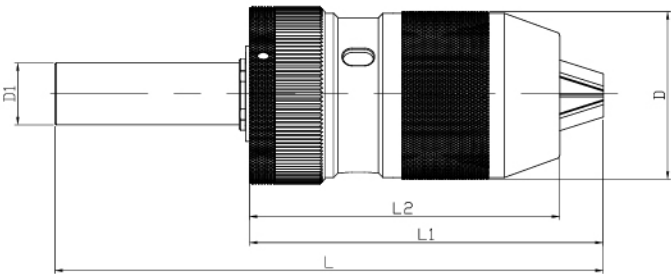
CAT-ANSI B5.50

No.	Model	L1		L2		L		d1		D		d2		R(≤)
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
068	CAT40-APU13ZT-115	115	4.53	75	2.95	195	7.68	50	1.97	63.5	2.5	13	0.51	0.05
069	CAT40-APU16ZT-121	121	4.76	80	3.15	211	8.31	57	2.24	63.5	2.5	16	0.63	0.05
070	CAT50-APU13ZT-115	115	4.53	75	2.95	229	9.02	50	1.97	98.42	3.87	13	0.51	0.05
071	CAT50-APU16ZT-121	121	4.76	80	3.15	235	8.25	57	2.24	98.42	3.87	16	0.63	0.05

DIN-69871-A

No.	Model	L1		L2		L		d1		D		d2		R(≤)
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
072	DAT40-APU13ZT-115	115	4.52	75	2.95	195	7.68	50	1.97	63.5	2.5	13	0.51	0.05
073	DAT40-APU16ZT-121	121	4.76	80	3.15	211	8.31	57	2.24	63.5	2.5	16	0.63	0.05
074	DAT50-APU13ZT-115	115	4.52	75	2.95	229	9.02	50	1.97	97.5	3.84	13	0.51	0.05
075	DAT50-APU16ZT-121	121	4.76	80	3.15	235	9.25	57	2.24	97.5	3.84	16	0.63	0.05

Tapping and drilling chuck with integrated shank - Straight shank



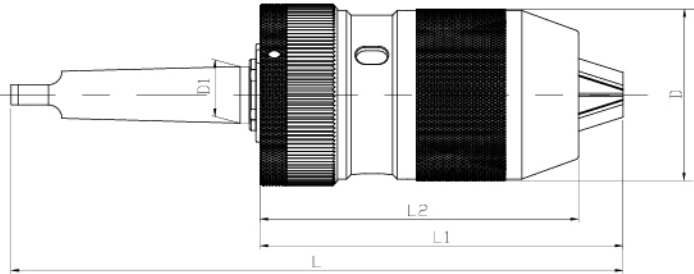
- ☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy

☆ Powerful clamping force, which increases with the increase of cutting resistance

☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

No.	Model	Mount	Clamping range		D		D1		L		L1		L2	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
076	J0113-BZ-C20	C20	1-13	0.0393-0.512	50	1.97	20	0.78	168	6.61	105	4.13	93	3.66
077	J0116-BZ-C20	C20	1-16	0.0393-0.630	57	2.24	20	0.78	174	6.85	111	4.37	99	3.90
078	J0116-BZ-C25	C25	1-16	0.0393-0.630	57	2.24	25	0.98	194	7.64	111	4.37	99	3.90

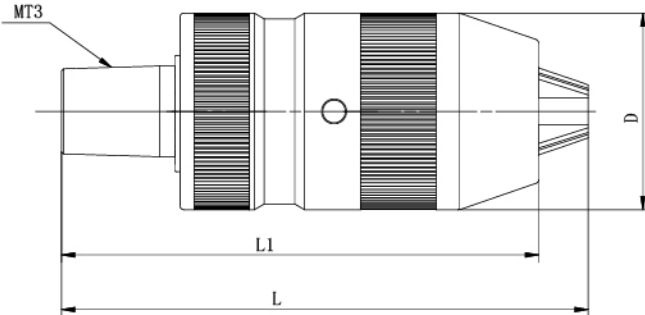
Tapping and drilling chuck with integrated shank - Morse taper with tang



- ☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy
- ☆ Powerful clamping force, which increases with the increase of cutting resistance
- ☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation

No.	Model	Mount	Clamping range		D		D1		L		L1		L2	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
079	J0113-BZ-MT2	MT2	1-13	0.0393-0.512	50	1.97	17.78	0.7	186	7.32	105	4.13	93	3.66
080	J0116-BZ-MT2	MT2	1-16	0.0393-0.630	57	2.24	17.78	0.7	192	7.56	111	4.37	99	3.90
081	J0116-BZ-MT3	MT3	1-16	0.0393-0.630	57	2.24	23.83	0.94	210	8.27	111	4.37	99	3.90

Tapping and drilling chuck with integrated shank - Morse short taper



- ☆ All-in-one design and compact structure, which reduce cumulative error and ensures high product accuracy
- ☆ Powerful clamping force, which increases with the increase of cutting resistance
- ☆ Be able to tap and drill, and keep the same cutting torque at forward and reverse rotation
- ☆ Have BT, BBT, DAT, CAT and other tool holders, being suitable for CNC machining centers, CNC milling and other CNC machine tools

No.	Model	Mount	Clamping range		L1		L		D	
			mm	in	mm	in	mm	in	mm	in
082	J0113-BZ-MT3D	MT3	1-13	0.0393-0.512	123	4.84	135	5.31	50	1.97
083	J0116-BZ-MT3D	MT3	1-16	0.0393-0.630	128	5.03	140	5.51	57	2.24



Drill Rod Series

Exclusive
Production

Replacement
Products

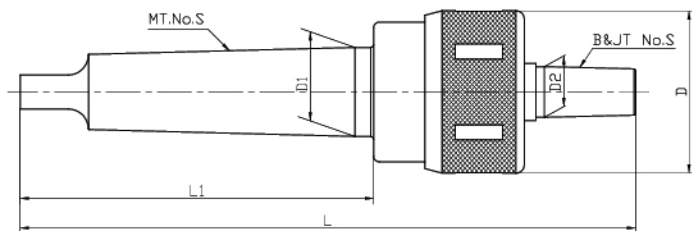
World
patent

FODBITS®

Adjustable torque drill arbors

- 01 Torque is adjustable
- 02 Overload protection function can effectively protect tapping without damaging the drill tool
- 03 Selection material, long working life
- 04 Fine workmanship, high precision products

Overload protection adjustable torque drill chuck arbors



☆ Torque is adjustable

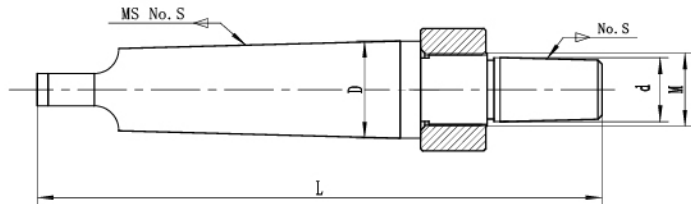
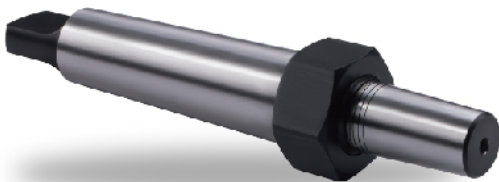
☆ overload protection; Effectively protect drilling and tapping from damaging drilling tools

☆ Selection material, quenching process, durable

☆ Fine workmanship, high precision products

No.	Model	MT.No.S	B & JT NO.S		D		D1		D2		L		L1	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
084	MT3-B16	MT3	B16		53	2.09	23.825	0.94	15.733	0.62	182	7.16	98	3.86
085	MT3-B18	MT3	B18		53	2.09	23.825	0.94	17.78	0.7	188	7.40	98	3.86
086	MT3-JT33	MT3	JT33		53	2.09	23.825	0.94	15.85	0.62	183	7.20	98	3.86
087	MT3-JT6	MT3	JT6		53	2.09	23.825	0.94	17.17	0.68	183	7.20	98	3.86
088	MT4-B16	MT4	B16		57	2.24	31.267	1.23	15.733	0.62	210	8.27	123	4.84
089	MT4-B18	MT4	B18		57	2.24	31.267	1.23	17.78	0.7	216	8.5	123	4.84
090	MT4-JT33	MT4	JT33		57	2.24	31.267	1.23	15.85	0.62	211	8.31	123	4.84
091	MT4-JT6	MT4	JT6		57	2.24	31.267	1.23	17.17	0.68	211	8.31	123	4.84
092	MT5-B16	MT5	B16		57	2.24	44.399	1.75	15.733	0.62	234	9.21	156	6.14
093	MT5-B18	MT5	B18		57	2.24	44.399	1.75	17.78	0.7	240	9.45	156	6.14
094	MT5-JT33	MT5	JT33		57	2.24	44.399	1.75	15.85	0.62	235	9.25	156	6.14
095	MT5-JT6	MT5	JT6		57	2.24	44.399	1.75	17.17	0.68	235	9.25	156	6.14

Flat tail morse taper drill chuck arbors with separation nut



☆ Processed with high quality and strength steel, stable performance and high wear resistance after heat treatment

☆ The shank is connected with the spindle or reducer sleeve of the machine, and the front end is connected with various inner cone drill chucks

☆ The contact area of the shank and the front end is more than 85% by coloring test

☆ Easy to remove the drill chuck of the thrust nut and effectively maintain the precision of the inner conical hole

☆ Patent No: ZL 2019 2 16306262

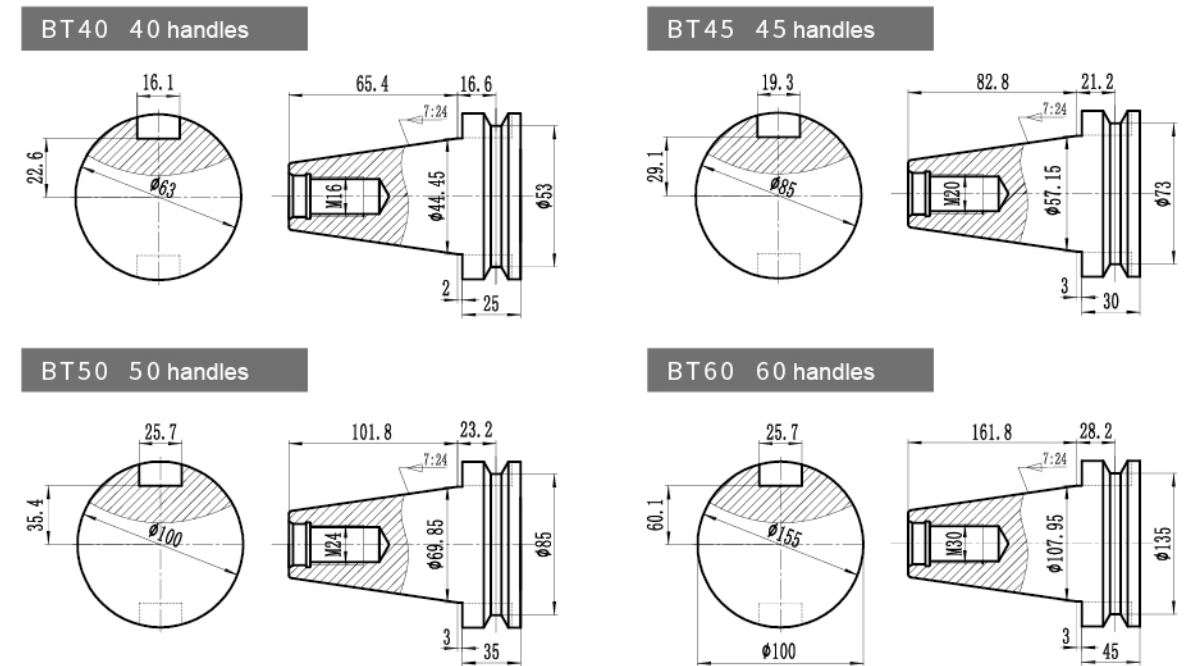
No	Model	D		d		L		M
		mm	in	mm	in	mm	in	
098	MT0-B6	9.045	0.356	6.35	0.250	93	3.661	M8X1
097	MT0-B10	9.045	0.356	10.094	0.397	98	3.858	M12X1.5
098	MT0-B12	9.045	0.356	12.065	0.475	102	4.016	M14X1.5
099	MT0-B16	9.045	0.356	15.733	0.619	109	4.291	M18X1.5
100	MT0-B18	9.045	0.356	17.78	0.700	117	4.606	M20X1.5
101	MT0-B22	9.045	0.356	21.793	0.858	126	4.961	M24X1.5
102	MT0-B24	9.045	0.356	23.825	0.938	136	5.354	M26X1.5
103	MT0-JT0	9.045	0.356	6.35	0.250	91	3.583	M8X1
104	MT0-JT3	9.045	0.356	20.599	0.811	111	4.370	M24X1.5
105	MT0-JT33	9.045	0.356	15.85	0.624	106	4.173	M18X1.5
106	MT1-B10	12.065	0.475	10.094	0.397	104	4.094	M12X1.5
107	MT1-B12	12.065	0.475	12.065	0.475	108	4.252	M14X1.5
108	MT1-B16	12.065	0.475	15.733	0.619	115	4.528	M18X1.5
109	MT1-B18	12.065	0.475	17.78	0.700	123	4.843	M20X1.5
110	MT1-B22	12.065	0.475	21.793	0.858	132	5.197	M24X1.5
111	MT1-B24	12.065	0.475	23.825	0.938	142	5.591	M26X1.5
112	MT1-JT0	12.065	0.475	6.35	0.250	97	3.819	M8X1
113	MT1-JT1	12.065	0.475	9.754	0.384	103	4.055	M12X1.5
114	MT1-JT2	12.065	0.475	14.199	0.559	108	4.252	M16X1.5
115	MT1-JT3	12.065	0.475	20.599	0.811	117	4.606	M24X1.5
116	MT1-JT6	12.065	0.475	17.17	0.676	112	4.409	M20X1.5
117	MT1-JT33	12.065	0.475	15.85	0.624	112	4.409	M18X1.5
118	MT2-B10	17.78	0.700	10.094	0.397	119	4.685	M12X1.5
119	MT2-B12	17.78	0.700	12.065	0.475	123	4.843	M14X1.5
120	MT2-B16	17.78	0.700	15.733	0.619	130	5.118	M18X1.5
121	MT2-B18	17.78	0.700	17.78	0.700	138	5.433	M20X1.5
122	MT2-B22	17.78	0.700	21.793	0.858	146	5.748	M24X1.5
123	MT2-B24	17.78	0.700	23.825	0.938	156	6.142	M26X1.5
124	MT2-JT0	17.78	0.700	6.35	0.250	112	4.409	M8X1
125	MT2-JT1	17.78	0.700	9.754	0.384	118	4.646	M12X1.5
126	MT2-JT2	17.78	0.700	14.199	0.559	123	4.843	M16X1.5
127	MT2-JT3	17.78	0.700	20.599	0.811	132	5.197	M24X1.5
128	MT2-JT6	17.78	0.700	17.17	0.676	126	4.961	M20X1.5
129	MT2-JT33	17.78	0.700	15.85	0.624	126	4.961	M18X1.5
130	MT3-B10	23.825	0.938	10.094	0.397	138	5.433	M12X1.5
131	MT3-B12	23.825	0.938	12.065	0.475	142	5.591	M14X1.5
132	MT3-B16	23.825	0.938	15.733	0.619	149	5.866	M18X1.5
133	MT3-B18	23.825	0.938	17.78	0.700	157	6.181	M20X1.5
134	MT3-B22	23.825	0.938	21.793	0.858	165	6.496	M24X1.5

No	Model	D		d		L		M
		mm	in	mm	in	mm	in	
135	MT3-B24	23.825	0.938	23.825	0.938	175	6.890	M26X1.5
136	MT3-JT0	23.825	0.938	6.35	0.250	131	5.157	M8X1
137	MT3-JT1	23.825	0.938	9.754	0.384	136	5.354	M12X1.5
138	MT3-JT2	23.825	0.938	14.199	0.559	142	5.591	M16X1.5
139	MT3-JT3	23.825	0.938	20.599	0.811	151	5.945	M24X1.5
140	MT3-JT6	23.825	0.938	17.17	0.676	145	5.709	M20X1.5
141	MT3-JT33	23.825	0.938	15.85	0.624	145	5.709	M18X1.5
142	MT4-B10	31.267	1.231	10.094	0.397	163	6.417	M12X1.5
143	MT4-B12	31.267	1.231	12.065	0.475	167	6.575	M14X1.5
144	MT4-B16	31.267	1.231	15.733	0.619	174	6.850	M18X1.5
145	MT4-B18	31.267	1.231	17.78	0.700	182	7.165	M20X1.5
146	MT4-B22	31.267	1.231	21.793	0.858	190	7.480	M24X1.5
147	MT4-B24	31.267	1.231	23.825	0.938	200	7.874	M26X1.5
148	MT4-JT0	31.267	1.231	6.35	0.250	156	6.142	M8X1
149	MT4-JT1	31.267	1.231	9.754	0.384	161	6.339	M12X1.5
150	MT4-JT2	31.267	1.231	14.199	0.559	167	6.575	M16X1.5
151	MT4-JT3	31.267	1.231	20.599	0.811	176	6.929	M24X1.5
152	MT4-JT6	31.267	1.231	17.17	0.676	170	6.693	M20X1.5
153	MT4-JT33	31.267	1.231	15.85	0.624	170	6.693	M18X1.5
154	MT5-B10	44.399	1.748	10.094	0.397	195	7.677	M12X1.5
155	MT5-B12	44.399	1.748	12.065	0.475	199	7.835	M14X1.5
156	MT5-B16	44.399	1.748	15.733	0.619	206	8.110	M18X1.5
157	MT5-B18	44.399	1.748	17.78	0.700	214	8.425	M20X1.5
158	MT5-B22	44.399	1.748	21.793	0.858	222	8.740	M24X1.5
159	MT5-B24	44.399	1.748	23.825	0.938	232	9.134	M26X1.5
160	MT5-JT3	44.399	1.748	20.599	0.811	208	8.189	M24X1.5
161	MT5-JT6	44.399	1.748	17.17	0.676	202	7.953	M20X1.5
162	MT5-JT33	44.399	1.748	15.85	0.624	202	7.953	M18X1.5
163	MT6-B16	63.348	2.494	15.733	0.619	268	10.551	M18X1.5
164	MT6-B18	63.348	2.494	17.78	0.700	276	10.866	M20X1.5
165	MT6-B22	63.348	2.494	21.793	0.858	284	11.181	M24X1.5
166	MT6-B24	63.348	2.494	23.825	0.938	294	11.575	M26X1.5
167	MT6-JT3	63.348	2.494	20.599	0.811	270	10.630	M24X1.5
168	MT6-JT6	63.348	2.494	17.17	0.676	264	10.394	M20X1.5
169	MT6-JT33	63.348	2.494	15.85	0.624	264	10.394	M18X1.5

Technical date

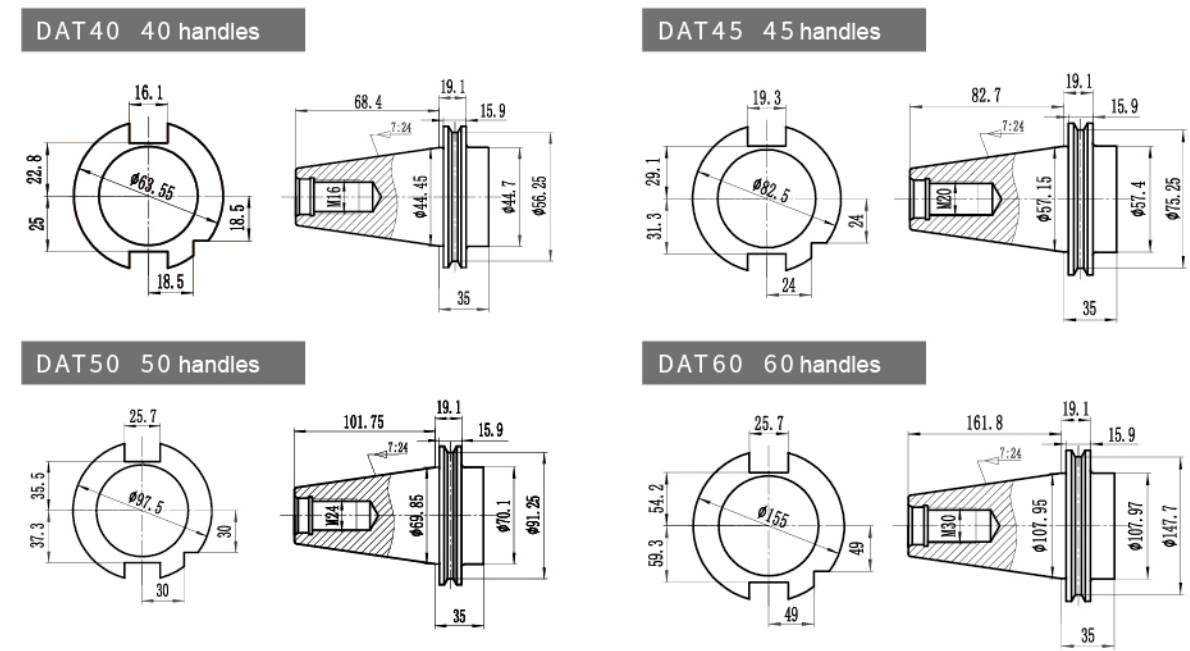
BT technical date

Taper shank form / Japan MAS 403BT



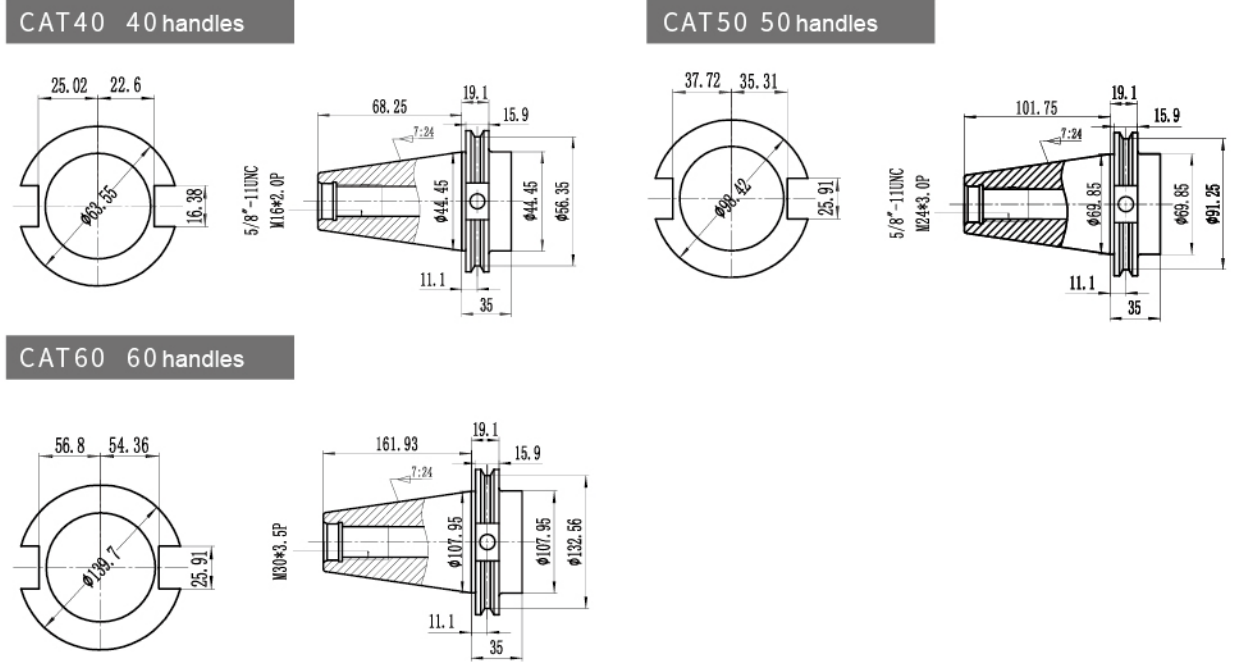
DAT technical date

Taper shank form / International 73881-A
Germany DIN69871-A / China GB10944



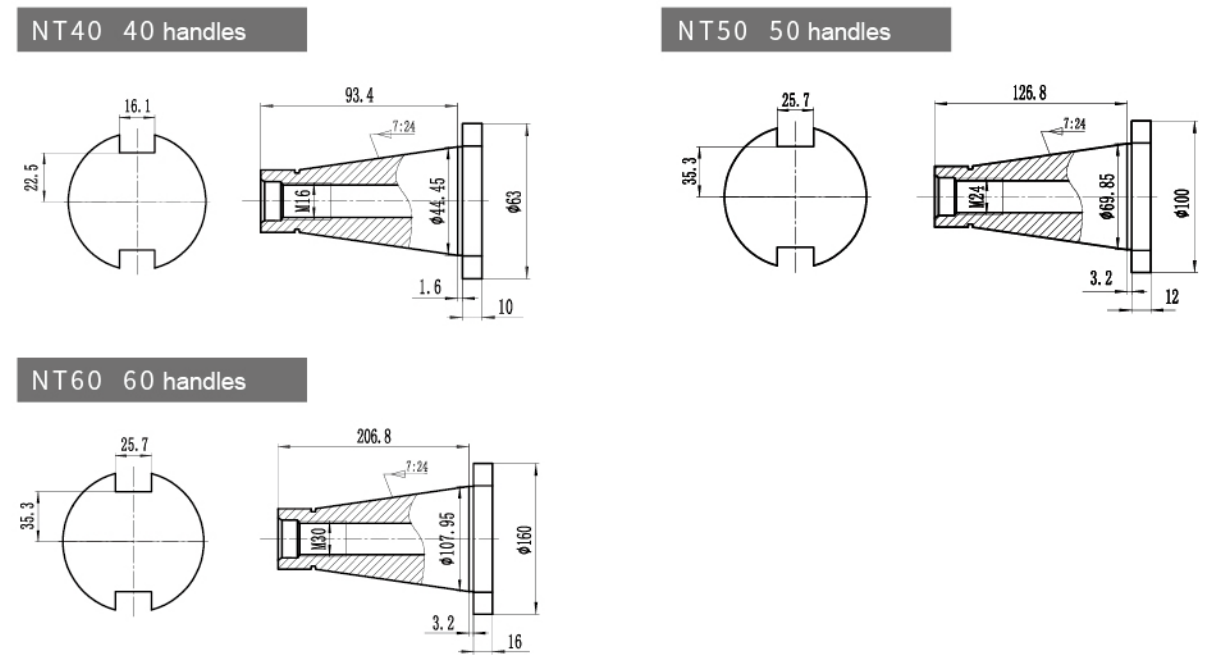
CAT technical date

Taper shank form / USA ANSI B5.59CAT



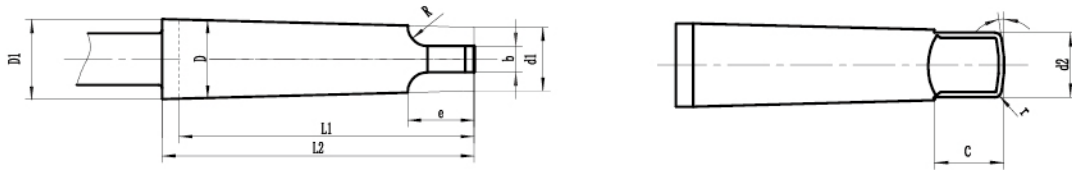
NT technical date

Taper shank form / China GB3837 / Germany DIN2080



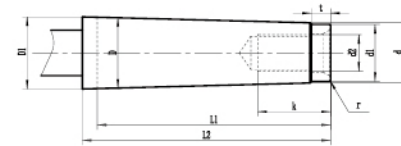
Common coarse thread tap

MTA Flat tail Morse taper shank DIN228-A



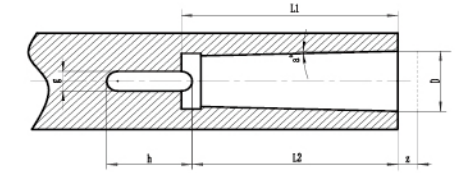
No.	Taper NO.	MTA0	MTA1	MTA2	MTA3	MTA4	MTA5	MTA6	MTA7
508	D(mm)	9.045	12.065	17.780	23.825	31.267	44.399	63.348	83.058
509	D1(mm)	9.201	12.240	18.030	24.076	31.605	44.741	65.765	83.578
510	d1(mm)	6.104	8.972	14.034	19.107	25.164	36.531	52.399	68.185
511	d2(mm)	6	8.7	13.5	18.5	24.5	35.7	51.0	66.8
512	L1(mm)	58.5	62.0	75.0	94.0	117.5	149.5	210.0	286.0
513	L2(mm)	59.5	65.5	80.0	99.0	124.0	156.0	218.0	296.0
514	b(mm)	3.9	5.2	6.3	7.9	11.9	15.9	19.0	28.6
515	c(mm)	6.5	8.5	10.0	13.0	16.0	19.0	27.0	35.0
516	e(mm)	10.5	13.5	16.0	20.0	24.0	29.0	40.0	54.0
517	R(mm)	4	5	6	7	8	10	13	19
518	r(mm)	1	1.2	1.6	2	2.5	3	4	5

MTB Back pull Morse taper shank DIN228-B



No.	Taper NO.	MTA0	MTA1	MTA2	MTA3	MTA4	MTA5	MTA6	MTA7
519	D(mm)	9.045	12.065	17.780	23.825	23.825	44.399	63.348	83.058
520	D1(mm)	9.201	12.240	18.030	24.076	24.076	44.741	65.765	83.578
521	d(mm)	6.442	9.396	14.583	19.759	19.759	37.584	53.859	70.052
522	d1(mm)	6	9	14	19	19	35.7	51	65
523	L1(mm)	50	53.5	64	81	81	129.5	182	250
524	L2(mm)	53	57	69	86	86	136	190	260
525	t(mm)	4	5	5	7	7	9	12	18.5
526	r(mm)	0.2	0.2	0.2	0.6	0.6	2.5	4.0	5.0
527	d2(mm)	-	M6	M10	M12	M12	M20	M24	M33
528	k(mm)	-	16	24	28	28	40	50	60

Flat tail Morse taper connection size DIN228-D

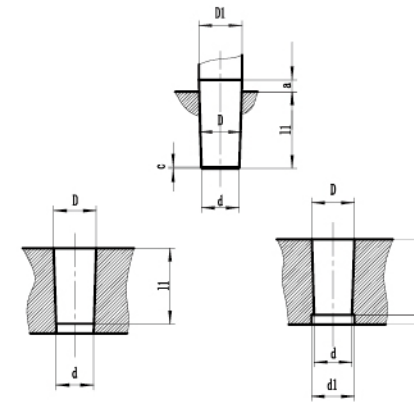


No.	Taper NO.	MTA0	MTA1	MTA2	MTA3	MTA4	MTA5	MTA6	MTA7
529	D(mm)	9.045	12.065	17.780	23.825	31.267	44.399	63.348	83.058
530	L1(mm)	52	56	67	84	107	135	188	258
531	L2(mm)	49	52	62	78	98	125	177	241
532	g(mm)	4.1	5.4	6.6	8.2	12.2	16.2	19.3	28.8
533	h(mm)	15	19	22	27	32	38	47	69
534	z(mm)	1	1	1	1	1.5	1.5	2	2
535	a°(mm)	1° 29'27"	1° 25'43"	1° 25'50"	1° 26'16"	1° 29'15"	1° 30'26"	1° 29'36"	1° 29'22"

Drill chuck short cone technical data

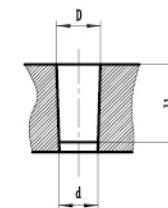
GB/T6090-2003/ISO239:1999

Morse taper type



No.	Morse taper NO.	B6	B10	B12	B16	B18	B22	B24
536	D(mm)	6.35	10.094	12.065	15.733	17.78	21.793	23.825
537	D1(mm)	6.5	10.3	12.2	16	18	22	24.1
538	d(mm)	5.85	9.4	11.1	14.5	16.2	19.8	21.3
539	d1(mm)	6.5	9.8	11.5	15	16.8	20.5	22
540	L1(mm)	10	14.5	18.5	24	32	40.5	50.5
541	amax(mm)	3	3.5	3.5	5	5	5	5
542	b(mm)	3	3.5	3.5	4	4	4.5	4.5
543	c(mm)	0.5	1	1	1.5	1.5	2	2
544	Taper (mm)	Mas.No	1	1	1	2	2	3
		Taper Value	0.05	0.04988	0.04988	0.04995	0.04995	0.0502

Jagger taper type



No.	Jagger taper NO.	JT0	JT1	JT2	JT33	JT6	JT3
545	D(mm)	6.35	9.754	14.199	15.85	17.17	20.599
546	d(mm)	5.802	8.459	12.386	14.237	15.852	18.951
547	L1(mm)	11.112	16.669	22.225	25.4	25.4	30.956
548	Taper (mm)	0.04923	0.07709	0.08155	0.0635	0.05191	0.05325

COMPANY PROFILE

Fodbits Precision Technology Co.,Ltd. is an exclusive product sales company authorized by Weihai Dawang Machinery Technology Co., Ltd. Weihai Dawang Machinery Technology Co., Ltd., was established in 2007 and located in Weihai, a beautiful coastal city. Since July 2010, the company has been focusing on the R&D, design and production of high-end drill chucks. In the past 10 years, the company has developed the self-tightening drill chucks with gear transmission structure, strong clamping force, while working without slipping during work, manual clamping quickly, and easy release of drill tools. It broke the traditional structure of the drill chucks industry for more than 120 years, filled seven industry gaps, and obtained invention patents in China, the United States, EU, Japan, Russia and other countries and regions. Dawang company is recognized as a high-tech enterprise by the government.

In order to ensure product quality, Dawang Company has successively introduced more than 30 sets of advanced CNC machining equipment and precise testing equipment from international well-known companies such as Hardinge Inc. (USA) and Tsugami Company (Japan). The company has strong technical force and an efficient and professional technical management team. There are 8 professional technical engineers with

intermediate and senior professional titles, who can provide technical support for the users at any time. The company has a perfect and scientific management system, and all production is managed by ERP system, and the quality is stable. In 2021, the company got the ISO9001 Quality System Certification.

Since the establishment, the company has been pursuing honest management, and has invested more in R&D continuously and paid attention to the production of high-quality, refined and new cost-effective products that are urgently needed in the market, so that to reduce the cost of customers directly and provide support to customers. At the same time, the company has been improving the working efficiency of products and expanding the processing range of product, and helping customers to get more profits. Whether it is product performance or customer service, customer satisfaction is the goal of the company for ever. Strive to become a well-known enterprise in the drill chucks industry within 5 years and a leading enterprise in the industry within 10 years. Fodbits is your choice, trust and satisfaction!



I Story of Miss. Fodbits Chuck

Since the birth of Mr. Drill Bit in 1864, it has been more than 150 years. 120 years ago, an American, Mr. Arthur Irving Jacobs, invented Miss drill chuck, a gear key wrench drill chuck. Since then, the drill bit and the drill chuck have cooperated to open the door of hole processing in the machinery industry.

90 years ago, Mr. Albrecht, a German, invented the self-tightening drill chuck with higher clamping force, which brought a better choice for customers.

So far, there are many members in the drill chuck family as well-known members Miss Jacobs, born in the United States, is 120 years old; Rohm, born in Germany, is 120 years old; Miss Albrecht is 90 years old; Miss Chum Power, born in Taiwan, is 40 years old; and the young are Miss WeiDa, born in China, 25 years old; and Miss Sanou, 24 years old; All of them have made outstanding contributions to round-hole processing in the machinery industry worldwide.

Unfortunately, 7 problems in the drill chucks industry have not been solved for over a hundred years. The main problem was that the clamping force couldn't meet all kinds of requirements of the drill bit, and slipping often occurred while working, which made the work of the drill bit unable to continue, and stopping and clamping again and again, which not only affected the work efficiency but also affected the profit of the enterprise. In addition, due to the slipping, the clamped part of the drill bit and the blade part of the clamping jaw of the drill chuck were damaged by friction, which significantly reduced the service life of both the drill bit and drill chuck, which also directly increased the cost of using a drill bit and drill chuck for enterprises.

The drill bit knew his strong working abilities were affected by the drill chuck, so he often complained about the drill chuck. The relationship between the drill bit and drill chuck could have been better.

The drill chuck felt that it was not her own reason. She did her best but still needed help to meet the requirements of the drill bit. She also felt helpless and cried all day. She prayed and hoped that the Creator could help her become more robust, help the drill bit realize his value, and improve her relationship with the drill bit.

The enterprises also hoped that the innovative drill chuck could overcome the world's problems that have existed for 120 years. The drill bit with strong capability was even more eager for the Creator to deliver the new drill chuck with super-large clamping force and no slipping while working with him one day earlier.

The Creator was faithful. In July 2010, he entrusted this arduous task to a person who knew nothing about the drill chuck to lead to solving this industry problem for more than a century. The road of R & D was tough, with detours going round and round, and suffered failure repeatedly. Also, funds have been invested year after year, and he has come to the end of despair four times. But he was an unwilling layman; with his small R & D team, he continued to explore and verify one possibility after another with different mechanical principles and pursued the seemingly impending success, but the reality was very slim.

After stumbling and escaping 4 times, in a development period of more disappointment than hope and frustration than joy, the time seems extraordinarily long. On July 17, 2019, the tenth year of R&D, the dawn of success appeared; the last one of the seven industry's century-old problems (the backstop device to ensure that the self-tightening drill chuck can be reversed reliably) was finally overcome by this layman's 4-person R & D team and completed the last puzzle piece of the drill chuck with powerful functions, excellent performance, and outstanding performance. The early design goals of R & D were finally completed. A member with new functions was born in the drill chucks family. It's time for Mr. drill bit and the customer to get to know and understand the little member's functions and performance.

With trepidation, they provided seven immature samples to seven companies for testing. Received feedback from one company the next day; they exclaimed, "It's great. Didn't expect to have such an easy-to-use drill chuck; the clamping force is powerful, even when holding a 30mm drill bit when drilling without slipping, and what surprised them was that after the work was completed, the drill chuck could be easily loosened by hand without tools, which saved time and labor, and significantly improved the work efficiency. In addition, what's more, magical was that this self-tightening drill chuck could fasten screws. Even if the size of the clamping tap was as large as M24, the fastening screws were without slipping and were loosened by hand.

The boss of this company was so happy that he wanted to be the general agent of the region at that time. After receiving feedback from other testing companies, they were surprised, especially those processing stainless steel.

However, the happiest thing is the drill bit, looking forward to the stars and the moon, and finally looking forward to the magic drill chuck that he has dreamed of and loves wholeheartedly once used, which meets all his expectations for the performance of the drill chuck and believes that this is his future destination.

With the witness and blessing of the Creator, all members of drill chucks, and customers, Mr. drill bit couldn't wait to take out the most exquisite round hole ring made by him as a drilling expert and proposed to the drill chuck, which satisfied all his fantasies for the first time in his life.

The unexpected drill chuck was excited. She had been looking forward to waiting for this moment for more than 120 years. She felt Mr. Drill bit heartfelt love for her for the first time. For the first time, she felt that her own value was recognized and affirmed by him. And she saw the smile of approval of his ability from the customers present. For the first time, she saw the praise of many family members for the power of this little member, and she experienced the honor of being proposed in the history of drill chuck for the first time. The grievances and sadness of the past disappeared, and she was full of joy and happiness. She agreed to Mr. drill bit's proposal and walked into the marriage hall hand in hand with him, officially becoming Mr. drill bit's favorite wife.

They no longer complained about each other and found their true love. They loved, depended on each other, and embraced and integrated passionately. They tacitly and smoothly completed the work undertaken by their families, greatly improved work efficiency, and realized more value.

They sincerely thank the Creator for choosing a layman out of the inherent design ideas of experts, designing a new structure, and being able to continuously invest financial resources, and took 10 years to solve seven problems of drill chuck successfully that have not been solved for more than 120 years, which are, a. Weak clamping force, b. Slipping while working, c. The complex operation, d. Self-tightening drill chuck can only drill holes but not tighten screws, e. Wrench drill chuck can only drill small holes, not large ones, and only tighten small screws, not tightening large ones, f. Short service life, g. Long closing and loosening time. In addition, it also has new powerful functions (drilling large holes, tightening large screws) that the old one does not have. With one specification of the new drill chuck, it can replace several specifications of the old one. So, the existing industry standards of the drill chucks industry are entirely overturned.

With the strong support of this newly born and great drill chuck, the drill bit was full of vitality again, fully realized its value, improved efficiency, reduced cost, and returned the company's trust.

Winning back the love of the drill bit, the newly-born Chuck was also full of pride. She was very proud and confident and showed her powerful functions heartily, helped the lover to realize all values, and helped companies to create new values, and she felt happy for this.

Similarly, the small R&D team of laymen also thanked the Creator. The Creator chose them to complete this seemingly impossible task and created a long-awaited partner of the drill bit, benefiting the whole round hole processing industry in the world, realizing the dream with wisdom and value.

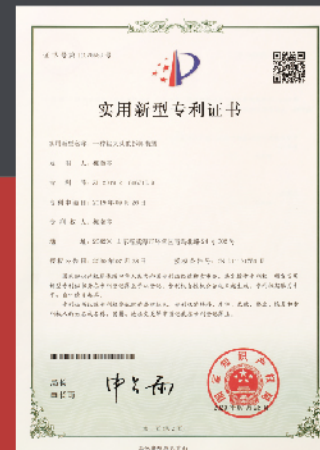
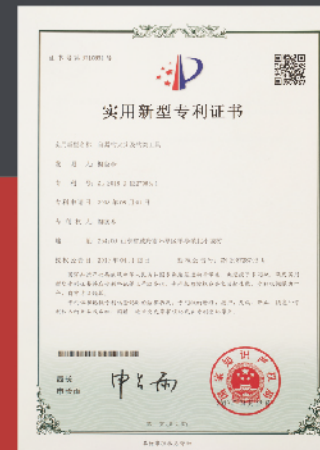
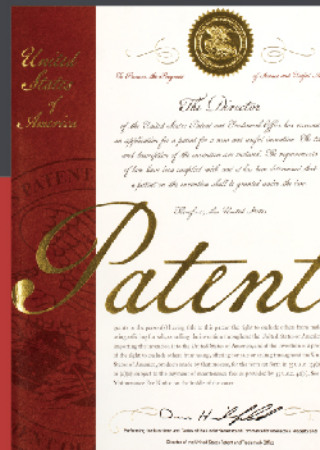
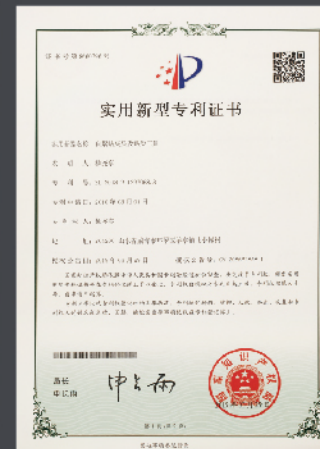
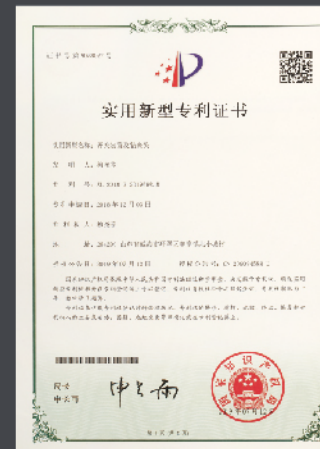
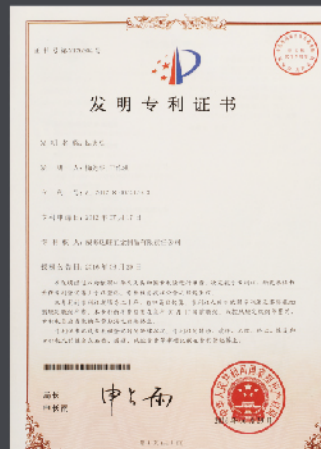
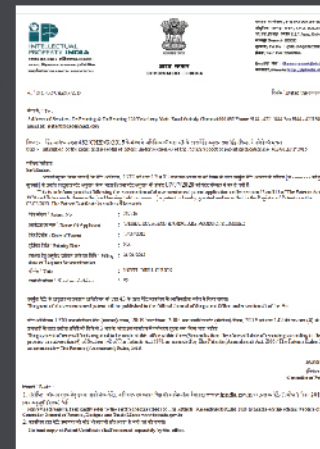
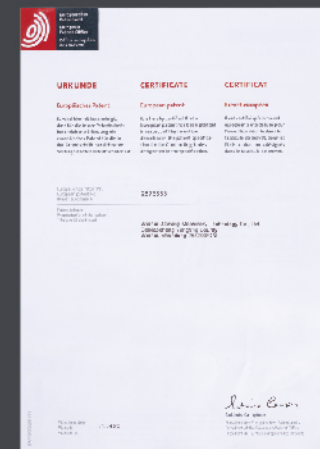
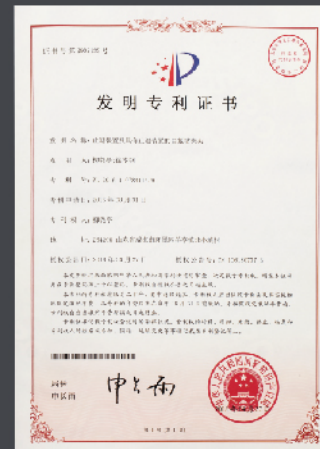
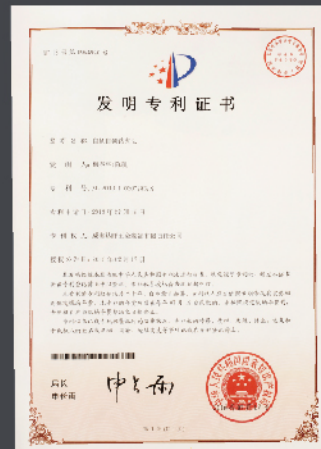
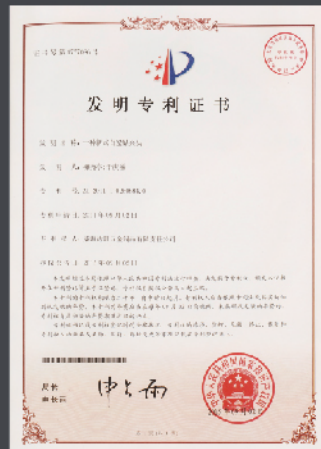
Inspired by the Creator, laymen named this magical drill chuck FODBITS in English, the abbreviation of Fate of Drill Bits, which means that this drill chuck is the favorite of all drill bits ever! The Chinese translation is 福比特.

We wish them to love forever and ever and expect the new couple to dedicate the highest value and contribute more to the world's mechanical round hole processing industry for a long time.

Fodbits Precision Technology Co.,Ltd

FODBITS®

Certificate of honor



FODBITS®

