HEAVY DUTY HIGH LOAD LIVE CENTER

Brief introduction

Heavy Duty Lathe MT5 Adjustablle Live Center, machine tool parts in machining. Tail with a taper shank, installed in the machine tool spindle taper or tailstock shaft hole, with its head against the workpiece cone. Can be used to face the complex parts and do not allow the central hole of the supporting parts. The top is mainly composed of a thimble, a clamping device, a shell, a fixed pin, a bearing and a core shaft. Thimble is the top of the inner hole of the center hole or pipe material, on the other end can be top end is a spherical or conical parts, thimble by the clamping device fixed. When the parts are not allowed or can not hit the central hole, the use of the clamping device to clamp the turning. The shell and the core shaft drill with pin hole, removing of the fixed pin pin or, to achieve the top two. Top can also be used for the work of the drilling, casing and hinge hole.

Specifications

1. model No.:MT1,MT2,MT3,MT4,MT5

2. material:mandrel use bearing stell GCr15

3. hardness:HRC58-60,high rigidity and high durability

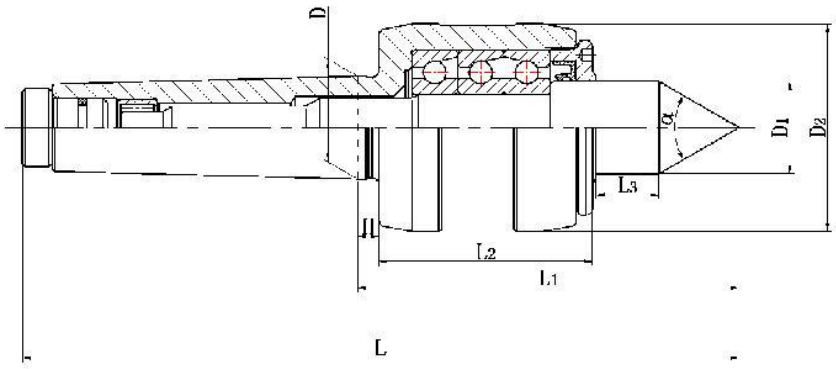
4. precision≤5μ,high speed 12000rpm

5. Live center adopts precision matched angular contact bearing and integration with roller bearing,ensure high concentric precision.

6. Sealing ring at the fron end is dust proof and water proof,can avoid coolant influene the bearing,prolong the life of the live center.

Model.No	MS.NO	L	L1	d	(N) Max Radial Load	(rpm) Max Speed	Accuracy
D511S	MT1	109.6	18.5	16	1400	3600	0.008

D512S	MT2	128.3	23.8	22	3500	3400	0.01
D513S	MT3	156	28.5	25	5500	3200	0.01
D514S	MT4	184	31.5	28	8000	3000	0.01
D515S	MT5	239.5	45	41	10000	2500	0.012
D516S	MT6	333.5	64	63	15000	1500	0.015



Royal Heavy Duty Spindle Type Live Centers

TAPER	D	D1	D2	L	L1	L2	L3	H	α	MAX SUGGESTED RPM	WEIGHT OF WORKPIECE (kg)
4MT	31.267	28	63	218	116	65	19	8	60°	6000	800

1. Application and features:

It is an necessary accessory used on medium type lathe for such machi ne tools as spindle sleeve,tubes and other parts on lathe,locked by cent er hole.

This product can take big axial load with high precision,and easy operati on,spare time and strength reliable performance.

2. Operation steps:

A.Clean the taper hole of the tail-stock of the lathe and the shank of cent er,before putting the shank in the tail stock.

B. Push the tail-stock to clamp the workpiece,if contacting well,lock the t ail-stock,then ready for cutting.

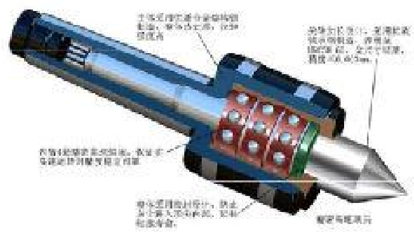
C. After finishing cutting,cut off the power,loosen the stock to lgrease th e bearing by period.

B. lf long stored,cleaning ad covering oad down the workpiece.

3. Maintenance:

A.Turn down the nut to it with oil.

Heavy-Duty Spindle-Type
Live Centers



- The Heavy-Duty Spindle-Type Live Center is our most popular live center model. Its strong universal design enables it to handle virtually all manual and CNC turning applications.
- The Heavy-Duty Spindle-Type Live Center is extremely accurate with runout guaranteed to +/-0.003mm TIR or better.
- Bearing life is significantly extended with the exclusive Roto-Shield contact slinger and upgraded, long-life spring-loaded seal that is resistant to abrasion, high temperatures, and virtually all metalworking fluids.
- The Heavy-Duty Spindle-Type Live Center incorporates a double-row angular contact bearing that provides high workpiece weight ratings for turning large, heavy parts.
- A high-capacity thrust bearing, precision angular contact ball bearing, the combination of needle bearing and ball bearing, four bearings enables this live center to handle extreme axial loads, one of the primary enemies of any live center.
- The thick, rigid point of the Heavy-Duty Spindle-Type Live Center extends into the center's shank where it is supported by a large needle bearing for increased strength and vibration dampening.
- Both the point and body of this live center are hardened and ground for strength and extended operating life and durability. body material 40Cr alloy steel, hardened HRC 45-50; point centre material GCr15, hardened HRC 58-62.
- Standard point angle is 60 degree +15/-0.