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TOOL POST TURRETS

SERIES 300:



TAILSTOCK TURRETS

SERIES 300:



- 4 Tools can be mounted and quickly indexed into any of 12 different positions.
- Indexing stations are spaced 30° apart.
- All essential parts are hardened for long life and made to highest accuracy standards for utmost precision.
- All models furnished with a machineable base to fit your machine.

Model No.	Size	Swing of Lathe	Tool Range	Order No.	Price
TP2	2-1/2	6-12	1/4-3/8	7250002	
TP3	3-1/2	10-13	3/8-1/2	7250003	
TP4	4-1/2	13-16	1/2-3/4	7250004	
TP6	6	14-21	7/8-1-1/4 or No.2 Tool Holder	7250006	

- Have 6 holes for holding 6 tools.
- Precision made for highest accuracy.
- Available in 2 sizes with different shanks.
- Conveniently located lever provides instant change-over from one tool to another.

Model No.	Dia. of Head	Hole Size	Shank	Order No.	Price
TTA	2-1/2	5/8	M.T.1	7301001	
TTA	2-1/2	5/8	M.T.2	7301002	
TTB	5	1	M.T.2	7302002	
TTB	5	1	M.T.3	7302003	
TTB	5	1	M.T.4	7302004	
TTB	5	1	1" S.S.	7302010	

SOLID LATHE CENTERS

Hardened and ground to closest tolerances.

Price

Carbon

Order No.

1945001

1945002

1945003

1945004

1945005

1945006

SERIES 316:

Morse

Taper

2

3

4

5



H.S.S.

Price

Order No.

1950001

1950002

1950003

1950004

1950005

1950006



Carbide Tipped

Order No. Price

1955001

1955002

1955003

1955004

1955005

1955006

DEAD CENTERS WITH NUT SERIES 647:





+/-0.0001"T.I.R.

- · Centers are provided with the Nut.
- Run out between shank and points is accurate to +/-0.0002" T.I.R.
- These dead centers are designed for use wherever high accuracies are required.
- Case hardened to 61-63 HRC.
- Carbide tipped centers give longer tool life and require less regrinding.
- Center 8725 is threaded and provided with the nut to remove the center from a tailstock.

ſ	MT No.	Alloy	Steel	Carbide Tipped				
l		8725 Order No.	Price	8726 Order No.	Price			
	2 3 4 5 6	7545002 7545003 7545004 7545005 7545006		7546002 7546003 7546004 7546005 7546006				

8731

FULL DEAD CENTERS

SERIES 647:

+/-0.0002"T.I.R.





HALF DEAD CENTERS SERIES 647:







мт	Carbide	Tipped	Ball Bear	ing Steel	1/2 Ball Bea	ring Steel	Half Carbide Tipped		
No.	8711 Order No.	Price	8712 Order No. Price		8730 Order No.	Price	8731 Order No.	Price	
1 2	7550005 7550010		7555005 7555010		7540001 7540002		7541001 7541002		
3	7550015		7555015		7540003		7541003		
4	7550020		7555020		7540004		7541004		
5	7550025		7555025		7540005		7541005		
6	7550030		7555030		7540006*		7541006		

*LIMITED QUANTITY

SHOP DISCOUNT SUPPLY

LIVE CENTERS SERIES 312:



LIVE CENTER SETS WITH SEVEN INSERTS **SERIES 313:**





These precision tools are made of the finest materials, to highest accuracy. Bodies are made of forgings, and a combination of amply proportioned thrust bearings, needle bearings and anti-friction bearings absorb the radial and axial pressures separately.

Morse Taper	Order No.	Price
1	1930001	
2	1930002	
3	1930003	
4	1930004	
5	1930005	
6	1930006	

The body of these sets are constructed similar to Series 312 Live Centers, however, for versatility, the bodies are provided with the following seven interchangeable inserts:

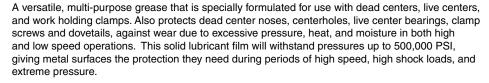
- 2 large Male centers
- 1 Female center
- 3 smaller, different sized Male centers
- 1 Bullnose center

Model	Morse	Order	Price
No.	Taper	No.	
LCS2	2	1935002	
LCS3	3	1935003	
LCS4	4	1935004	
LCS5	5*	1935005	

^{*}Supplied with three inserts only.

J&S HP919 CENTER **POINT LUBRICANT**













LIVE CENTERS WITH INTERCHANGEABLE INSERTS

SERIES 647:

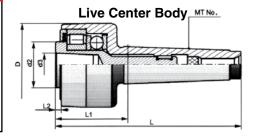
Set is provided with the main body and seven different style inserts in a

Body of the live center and inserts are made from forgings, hardened and precisely ground. Precision high quality bearings. Special sealing ring protects the bearings from coolant and dust. Inserts are easily interchangeable.

(8832)

Morse Taper No.	#2	#3	#4	#5	#6
Set Order No.	7570002	7570003	7570004	7570005	7570006
Price	\$25.95	\$28.00	\$33.05	\$42.95	\$63.60
Max R.P.M.	5000	4000	3000	2500	2000
Weight without insert approx. lbs.	0.98	2.02	3.71	8.00	25.40
Accuracy (inch)	0.0008	0.0008	0.0008	0.0012	0.0012
Workpiece weight max. lbs.	220	440	880	1770	3550
L	4.055	5.217	6.220	7.815	10.846
L,	1.54	2.03	2.19	2.72	3.70
L ₂ '	0.177	0.197	0.217	0.256	0.256
Ď	1.57	2.20	2.52	3.35	5.12
d_2	0.71	0.98	1.10	1.61	2.48
d _s	0.28	0.47	0.59	0.87	1.89





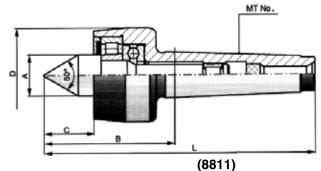
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SUPER PRECISION AND PRECISION LIVE CENTERS

SERIES 647:

Machined from one piece of forging, hardened and precisely ground. Three precision, high quality bearings are protected by a special steel shield and neoprene seal. Live centers are lubricated with special grease and do not require any additional lubrication.





Morse Taper No.	1	2	3	4	5	6
Max. Weight of workpiece (lbs.)	220	460	925	1850	4400	7700
D	1.50	1.57	2.20	2.52	3.35	5.12
Α	.59	.70	.98	1.10	1.61	2.48
L	4.07	4.74	6.14	7.24	9.33	13.13
С	.70	.87	1.12	1.24	1.77	2.52
В	1.97	2.22	2.95	3.21	4.23	5.96
Max. RPM	5000	5000	4000	3000	2500	2000
Weight Lbs.	.64	1.00	2.13	3.85	8.37	26.43
"P" Precision Accuracy	.0003	.0003	.0003	.0003	.0004	.0004
Order No.	7565001	7565002	7565003	7565004	7565005	7565006
Price						
"S" SuperPrecisionAccuracy	.0002	.0001	.0001	.0001	.0002	.0002
Order No.	7565101	7565102	7565103	7565104	7565105	7565106
Price						

ROYAL VALUE-TURN LIVE CENTERS

SERIES 450:

- A sturdy low-cost center designed for light/medium-duty turning applications.
- Precision three-bearing design enables the Royal Value-Turn to achieve both high RPM's and good load ratings
- A great American-made alternative to low quality imports.





high operating speeds.

Rear bearing is sealed to protect assembly from coolant and chips.

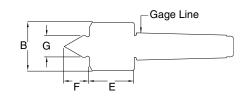
Standard point angle is 60° 40 for correct center hole engagement.

Two precision radial ball bearings enable the Value-Turn to achieve

Rotating point is hardened for wear resistance.

Thrust bearing provides great axial load ratings for long operating life.

Taper	В	E	F	G	Max Suggested RPM*	Suggested Workpiece		Order No.	Price
2MT 3MT 4MT	1-11/16" 1-11/16" 2-7/16"	1-9/16" 1-9/16" 1-9/16" 2-1/32" 2-1/32"	7/8" 7/8" 7/8" 1-3/16" 1-3/16"	3/4" 3/4" 3/5" 1-1/8" 1-1/8"	5,000 5,000 5,000 4,500 4,500	390 390 390 750 750	3,730 3,730 3,730 4.990 4,990	10851 10852 10853 10854 10855	



^{*}Maximum recommended operating limit.

Operating above this speed could result in heat build-up and accelerated bearing wear.



ULTRA PRECISION ADJUSTABLE LIVE CENTERS SERIES 647:

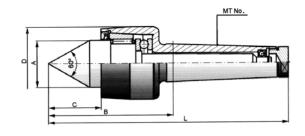
HEAVY DUTY, TRIPLE BEARING DESIGN

Accuracy +/-0.00012" T.I.R.



Machined from one piece of forging, hardened and precisely ground. Three precision, high quality bearings are protected by a special steel shield and neoprene seal. Adjustable, ultra precision radial bearing reduces run out to minimum after much use.





(8823)

Morse Taper	Max. Weight of Workpiece lbs.	Thrust/ lbs. at 1000 R.P.M.	L	В	С	D	A	Max R.P.M.	Weight lbs.	Order No.	Price
2	660	400	5.41	2.87	1.02	1.73	0.91	8000	1.33	7567002	
3	1320	530	6.53	3.37	1.26	1.89	1.10	6000	1.95	7567003	
4	2860	770	7.89	3.88	1.69	2.36	1.53	4500	3.62	7567004	
5	4400	990	9.80	4.70	2.01	2.76	1.77	4000	7.17	7567005	
6	8800	1580	12.64	5.47	2.44	3.70	2.40	3000	17.20	7567006	

SPINDLE TYPE LIVE CENTERS

SERIES 450:

Accuracy:

• ± 0.0001" TIR Guaranteed

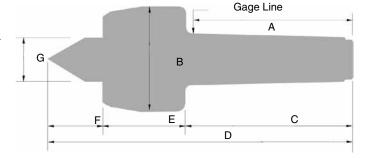
Construction:

- The special spindle-like point extends into the shank where it is supported by a needle roller bearing. This design increases rigidity, reduces point deflection and dampens vibration.
- Double-row angular contact bearing in front (single row on 1,2, and 3 Morse Tapers).
- · Thrust ball bearing to maximize axial load capacity.
- Bearings are protected by a combination steel shield and neoprene seal.
- Point is heat treated high carbon alloy steel.
- Point has a 60° included point angle.

Application:

- Excellent for manual lathes and CNC lathes.
- Designed for long life, heavy use, heavy loads, high thrust.





Taper	A	В	С	D	E	F	G	Max Suggested RPM*	Weight of Workpiece (lbs.)		Comparative Load Rating (lbs.)	Order No.	Price
2MT	2-9/16"	1-3/4"	2-13/16"	5-9/32"	1-7/16"	1-1/32"	7/8"	6,000	725	2,360	3,085	10102	
3MT	3-3/16"	2-3/8"	3-7/16"	6-13/32"	1-3/4"	1-1/4"	1"	5,000	970	3,900	4,870	10103	
4MT	4-1/16"	2-3/4"	4-7/16"	7-7/8"	1-31/32"	1-1/2"	1-1/4"	4,500	1,720	4,050	5,770	9910104	
5MT	5-3/16"	3-1/2"	5-9/16"	10-1/4"	2-13/16"	1-7/8"	1-1/2"	3,500	3,260	5,700	8,960	9910105	
6MT	7-1/4"	4-5/32"	7-3/4"	13-7/32"	3-5/32"	2-5/32"	2"	3,500	4,080	6,000	10,080	10106	

^{*}Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.

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HEAVY DUTY CNC SPINDLE TYPE LIVE CENTERS

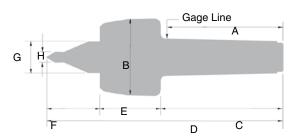
SERIES 450:

Accuracy:

± 0.0001" TIR Guaranteed

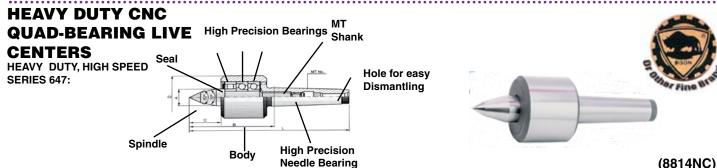
Construction:

- The special spindle-like point extends into the shank where it is supported by a needle roller bearing. This design increases rigidity, reduces point deflection and dampens vibration.
- Double-row angular contact bearing (single row on 1, 2 and 3 Morse Tapers).
- · Thrust ball bearing to maximize axial load capacity. Bearings are protected by a combination steel shield and neoprene seal.
- Point is high-carbon alloy steel heat treated to RC 61-63 and specially designed to provide tool clearance.
- Point has a 60° included angle.
- Body is hardened for extra strength, extra rigidity and long life. Application:
- · Designed for long life, heavy use, heavy loads and high thrust.
- Excellent for manual lathes and CNC lathes.
- Extended point provides additional tool clearance often needed on CNC lathes.



Taper	A	В	С	D	E	F	G	н	Max Suggested RPM*	Weight of Workpiece (lbs.)	Thrust Load (lbs.)	Comparative Load Rating (lbs.)	Order No.	Price
3MT 4MT	3-3/16" 4-1/16" 5-3/16"	2-3/8" 2-3/4"	5-9/16"	7-1/16" 8-5/8"	1-7/16" 1-3/4" 1-31/32" 2-13/16" 3-5/32"	2-5/8"	7/8" 1" 1-1/4" 1-1/2" 2"	3/8" 3/8" 1/2" 1/2" 3/4"	6,000 5,000 4,500 3,500 3,500	375 740 1,120 1,930 2,420	2,360 3,900 4,050 5,700 6,000	2,735 4,640 5,170 7,630 8,420	10212 910213 9910214 10215 10216	

*Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.



Morse Taper	Max. Weight of Workpiece lbs.	Max R.P.M.	Max Run out	A	В	С	D	L	Weight lbs.	Order No.	Price
4	2200	7000	.0002"	1.10	4.58	1.91	2.76	8.62	5.50	7566004	
5	4400	6000	.0002"	1.57	5.87	2.64	3.47	11.00	11.00	7566005	

VERSA-TURN LIVE CENTERS

SERIES 450:

Construction:

- Two radial ball bearings.
- 60° included point angle.
- ±.0001" TIR guaranteed.
- Thrust bearings provide a very high axial load capacity.

5-9/16

Application:

5MT

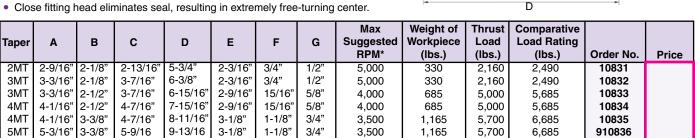
5-3/16

3-3/8"

- Excellent for manual lathes and general shop use.
- Combination extended point for clearance and bull head for small tubes and
- Close fitting head eliminates seal, resulting in extremely free-turning center.

9-13/16

3-1/8"



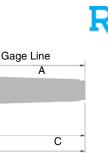
3,500

G

F

1-1/8"

3/4"



910836

В

Е

5,700

6,685

^{*}Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.

MACHINE SHOP DISCOUNT SUPPLY

BULLNOSE LIVE CENTERS SERIES 314:



J & S HP919 CENTER POINT LUBRICANT SERIES 312:





- Designed to hold pipe and hollow work.
- Preloaded bearings to achieve good thrust and radial capacities.
- Head made from heat treated hardened high carbon alloy steel.



Model	Morse	Small	Large	Order	Price
No.	Taper	End Dia.	End Dia.	No.	
BLC22 BLC33 BLC34 BLC35 BLC45 BLC46 BLC56 BLC58	233344555	1/2 3/4 1-1/4 1-1/2 1-3/8 2 1-3/8 2-1/8	2-7/16 3 4 5 5 6 6	1940022 1940033 1940034 1940035 1940045 1940056 1940058	

3.5 FLUID OZ.



A versatile, multi-purpose grease that is specially formulated for use with dead centers, live centers, and work holding clamps. Also protects dead center noses, centerholes, live center bearings, damp screws and dovetails, against wear due to excessive pressure, heat and moisture in both high and low speed operations. This solid lubricant film will withstand pressures up to 500,000 PSI, giving metal surfaces the protection they need during periods of high speed, high shock loads, and extreme pressure.

Order No. 31	20000
Price:	

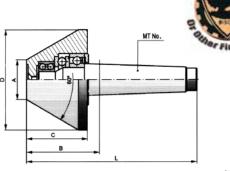
BULL HEAD LIVE CENTERS

SERIES 647:

TRIPLE BEARING DESIGN

- Three matched bearings are preloaded at the factory providing good thrust and radial capabilities.
- Bearing are protected by a special seal.
- Head is made of high carbon alloy steel, heat treated to RC 61-63.
- 60° head angle.
- Designed to hold pipe and hollow work.





(8825)

MT No.	1	2	2	3	3	4	4	5	6
D	1.97	2.36	3.15	3.15	3.93	3.93	5.51	6.69	11.50
А	0.79	1.18	1.18	1.18	1.57	1.57	2.76	3.94	7.09
В	1.56	1.60	2.32	2.32	2.64	2.70	3.05	3.05	4.57
С	1.38	1.38	2.09	2.09	2.40	2.40	2.76	2.76	4.21
L	3.66	4.11	4.84	5.51	5.83	6.73	7.09	8.15	11.73
R.P.M.	5000	5000	4500	4500	3000	3000	3000	2000	1000
Max. weight of workpiece lbs.	220	400	660	770	1210	1320	1540	1653	4400
Weight lbs.	.77	1.32	2.76	2.98	5.07	5.62	11.00	17.60	75
Max. run out	.0003	.0003	.0003	.0003	.0003	.0003	.0004	.0008	.002
Order No.	7575010	7575020	7575021	7575030	7575031	7575040	7575042	7575051	7575060
Price									

D

Gage Line

С

В

Ε

D

G

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BULL HEAD LIVE CENTERS

SERIES 450:

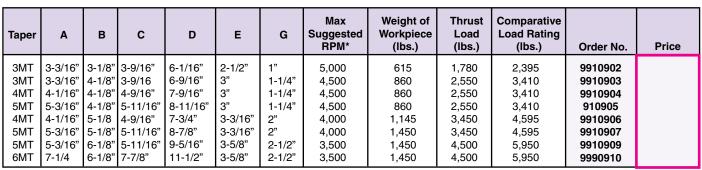
Accuracy:

• ± 0.0001" TIR Guaranteed

Construction:

- Two matched angular Contact bearings provides good thrust and radial capacities.
- Bearings are protected by a combination steel shield and neoprene seal.
- Point has a 60° included angle.
- Oversized head diameter, 1/8" larger then normal size.
- · Reduced knockout diameter prevents taper from mushrooming.

Designed for pipe work, tube work, parts with extra large center holes.



^{*}Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.

PIPE HEAD LIVE CENTER

SERIES 450:

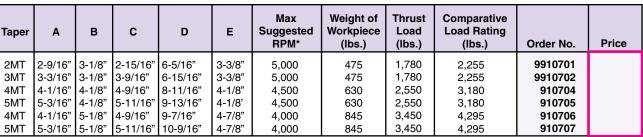
Accuracy:

• ± 0.0001" TIR Guaranteed

- Two matched angular Contact bearings provides good thrust and radial capa
- Bearings are protected by a combination steel shield and neoprene seal.
- Point has a 60° included angle.
- Oversized head diameter, 1/8" larger then normal size.
- Reduced knockout diameter prevents taper from mushrooming.

Application:

Designed for pipe work, tube work, parts with extra large center holes.



^{*}Maximum recommended operating limit. Operating above this speed could result in heat build-up and accelerated bearing wear.

