TOOL POST TURRETS

SERIES 300:



• 4 Tools can be mounted and quickly in-

Superior Import

- dexed 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 TP3 TP4 TP6	2-1/2 3-1/2 4-1/2 6			7250002 7250003 7250004 7250006	

Tel: 201-518-8461 / Fax: 201-596-3427 650 Huyler St / So. Hackensack, NJ 07

TAILSTOCK TURRETS

SERIES 300:

- 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

SERIES 316:





Hardened and ground to closest tolerances.

Morse	Carbo	on	H.S	.S.	Carbide Tipped		
Taper	Order No.	Price	Order No.	Price	Order No. Price		
1	1945001		1950001		1955001		
2	1945002		1950002		1955002		
3	1945003		1950003		1955003		
4	1945004		1950004		1955004		
5	1945005		1950005		1955005		
6	1945006		1950006		1955006		

DEAD CENTERS WITH NUT

SERIES 647:





Superior Import

+/-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.

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

FULL DEAD CENTERS

+/-0.0002"T.I.R.

8712

SERIES 647:





HALF DEAD CENTERS SERIES 647:











*LIMITED QUANTITY

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LIVE CENTERS SERIES 312:







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	1930001	
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**

SERIES 312:

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, clamp 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.









LIVE CENTERS WITH INTERCHANGEABLE INSERTS

SERIES 647:

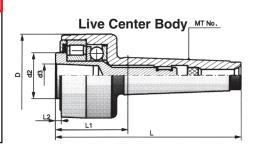
Set is provided with the main body and seven different style inserts in a

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
D	1.57	2.20	2.52	3.35	5.12
d_2	0.71	0.98	1.10	1.61	2.48
$d_3^{}$	0.28	0.47	0.59	0.87	1.89





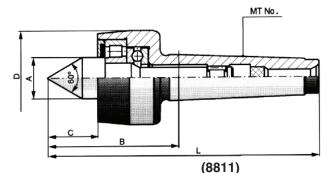
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SUPER PRECISION AND PRECISION LIVE CENTERS

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.





Two precision radial ball bearings

ing life.

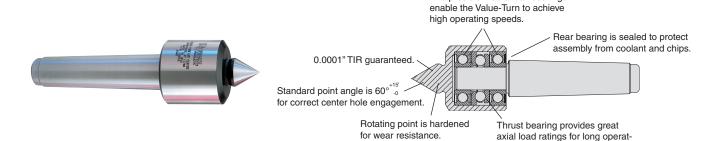
Morse Taper No.	1	2	3	4	5	6
Max. Weight of workpiece (lbs.)	220	460	925	1850	4400	7700
D	1.50	1.57	2.20	2.52	3.35	5.12
A	.59	.70	.98	1.10	1.61	2.48
L	4.07	4.74	6.14	7.24	9.33	13.13
С	.70	.87	1.12	1.24	1.77	2.52
В	1.97	2.22	2.95	3.21	4.23	5.96
Max. RPM	5000	5000	4000	3000	2500	2000
Weight Lbs.	.64	1.00	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.





Taper	В	E	F	G	Max Suggested RPM*	Weight of Workpiece (lbs.)	Thrust Load (lbs.)	Order No.	Price
1MT	1-11/16"	1-9/16"	7/8"	3/4"	5,000	390	3,730	10851	
2MT	1-11/16"	1-9/16"	7/8"	3/4"	5,000	390	3,730	10852	
ЗМТ	1-11/16"	1-9/16"	7/8"	3/5"	5,000	390	3,730	10853	
4MT	2-7/16"	2-1/32"	1-3/16"	1-1/8"	4,500	750	4.990	10854	
5MT	2-7/16"	2-1/32"	1-3/16"	1-1/8"	4.500	750	4.990	10855	

Gage Line

F

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

^{*}Maximum recommended operating limit.

ULTRA PRECISION ADJUSTABLE LIVE CENTERSSERIES 647:

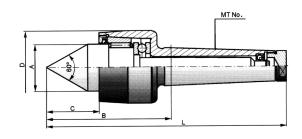
HEAVY DUTY, TRIPLE BEARING DESIGN

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.	١	В	C	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

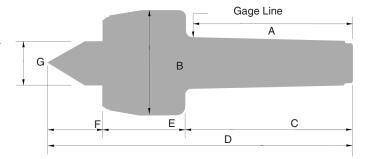
Construction:

- 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	Α	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	
ЗМТ	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

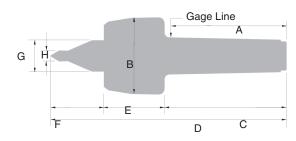
SERIES 450:

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	Α	В	С	D	E	F	G	н	Max Suggested RPM*		Thrust Load (lbs.)	Comparative Load Rating (lbs.)	Order No.	Price
	2MT	2-9/16"	1-3/4"	2-13/16"	5-5/8"	1-7/16"	1-3/8"	7/8"	3/8"	6,000	375	2,360	2,735	10212	
1	ЗМТ	3-3/16"	2-3/8"	3-7/16"	7-1/16"	1-3/4"	1-7/8"	1"	3/8"	5,000	740	3,900	4,640	910213	
-	4MT	4-1/16"	2-3/4"	4-7/16"	8-5/8"	1-31/32"	2-7/32"	1-1/4"	1/2"	4,500	1,120	4,050	5,170	9910214	
-	5MT	5-3/16"	3-1/2"	5-9/16"	11"	2-13/16"	2-5/8"	1-1/2"	1/2"	3,500	1,930	5,700	7,630	10215	
L	6MT	7-1/4"	4-5/32"	7-3/4"	13-29/32"	3-5/32"	3"	2"	3/4"	3,500	2,420	6,000	8,420	10216	

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

HEAVY DUTY CNC High Precision Bearings ^{™ I} Shank **QUAD-BEARING LIVE CENTERS HEAVY DUTY, HIGH SPEED** Hole for easy SERIES 647: Dismantling Spindle **High Precision Body Needle Bearing** (8814NC)

Morse Taper	Max. Weight of Workpiece lbs.	Max R.P.M.	Max Run out	A	В	С	D	L	Weight Ibs.	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.

Application:

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

	aper	Α	В	С	D	E	F	G	Max Suggested RPM*	Weight of Workpiece (lbs.)	Thrust Load (lbs.)	Comparative Load Rating (lbs.)	Order No.	Price
Г	2MT	2-9/16"	2-1/8"	2-13/16"	5-3/4"	2-3/16"	3/4"	1/2"	5,000	330	2,160	2,490	10831	
1	3МТ	3-3/16"	2-1/8"	3-7/16"	6-3/8"	2-3/16"	3/4"	1/2"	5,000	330	2,160	2,490	10832	
1	3MT	3-3/16"	2-1/2"	3-7/16"	6-15/16"	2-9/16"	15/16"	5/8"	4,000	685	5,000	5,685	10833	
1	4MT	4-1/16"	2-1/2"	4-7/16"	7-15/16"	2-9/16"	15/16"	5/8"	4,000	685	5,000	5,685	10834	
	4MT	4-1/16"	3-3/8"	4-7/16"	8-11/16"	3-1/8"	1-1/8"	3/4"	3,500	1,165	5,700	6,685	10835	
Т	5MT	5-3/16"	3-3/8"	5-9/16	9-13/16	3-1/8"	1-1/8"	3/4"	3,500	1,165	5,700	6,685	910836	

G

F

Ε

D





Gage Line

BULLNOSE LIVE CENTERS SERIES 314:



- 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	2 3 3 4 4 5 5	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	

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J & S HP919 CENTER POINT LUBRICANT SERIES 312:

T LUBRICANT
TOOL COMPANY, INC.
312:



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:	

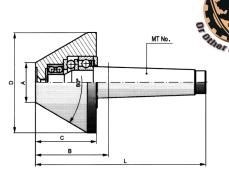
BULL HEAD LIVE CENTERS

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									

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В

Ε

D

Gage Line

С

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.

Taper	Α	В	С	D	E	G	Max Suggested RPM*	Weight of Workpiece (lbs.)	Thrust Load (lbs.)	Comparative Load Rating (lbs.)	Order No.	Price
3MT 3 4MT 4 5MT 5 4MT 4 5MT 5	3-3/16" 4-1/16" 5-3/16" 4-1/16" 5-3/16" 5-3/16"	4-1/8" 4-1/8" 4-1/8" 5-1/8 5-1/8" 6-1/8"	3-9/16" 3-9/16 4-9/16" 5-11/16" 4-9/16" 5-11/16" 7-7/8"	6-1/16" 6-9/16" 7-9/16" 8-11/16" 7-3/4" 8-7/8" 9-5/16" 11-1/2"	2-1/2" 3" 3" 3" 3-3/16" 3-3/16" 3-5/8" 3-5/8"	1" 1-1/4" 1-1/4" 1-1/4" 2" 2" 2-1/2"	5,000 4,500 4,500 4,500 4,000 4,000 3,500 3,500	615 860 860 860 1,145 1,450 1,450	1,780 2,550 2,550 2,550 3,450 3,450 4,500 4,500	2,395 3,410 3,410 3,410 4,595 4,595 5,950 5,950	9910902 9910903 9910904 910905 9910906 9910907 9910909 9990910	

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

Accuracy:

SERIES 450:

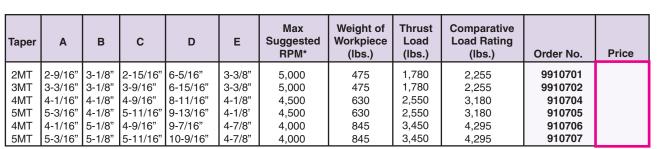
• ± 0.0001" TIR Guaranteed

- 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.

PIPE HEAD LIVE CENTER



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

