

IMPORTANT ANNOUNCEMENT



Skoda, a trusted name in general-purpose live centres, is exiting the metalworking business.

****** Once current stock is gone, both the products and replacement parts will no longer be available. ******

A TURN FOR THE BETTER



SKODA



Run-out precision	TIR of 0.0002".	✓ Guaranteed accuracy of 0.0001" TIR.
Bearing system	Heavy duty ball thrust single bearing takes all the axial thrust.	✓ 4-5 Bearing system: A double row angular contact bearing, a radial ball bearing and a rear needle roller bearing combine to provide excellent rigidity and high precision point concentricity.
Sealing & contamination protection	Built-in oil seal.	✓ High performance lip seal and deflected shaft design protects bearing space from ingress by dust and coolant.
Body strength & heat treatment	Not published.	✓ Heat treated drop-forged body HRc 50±2 for extra strength, rigidity and long life.
Tip point hardness	Standard steel tips with no hardness rating.	✓ Heat treated point to HRc 60±2.

Now is the time to choose GS Tooling High Performance Live Centers!

**BETTER QUALITY.
HIGHER PERFORMANCE.
LOWER PRICE.**

vs Skoda General-Purpose Live Centers

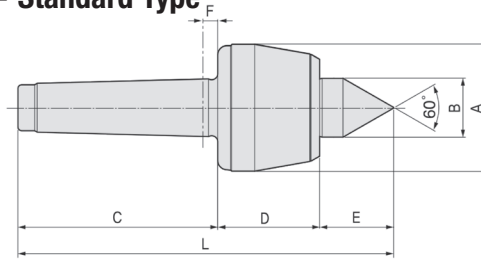


Learn more & buy

CNC High Speed Live Centers — Standard Type

For CNC and conventional machines.

- **Four Bearing System:** A double row angular contact bearing, thrust ball bearing, and a radial ball bearing combine to provide excellent rigidity and high precision point concentricity
- Shaft borehole for easy dismounting

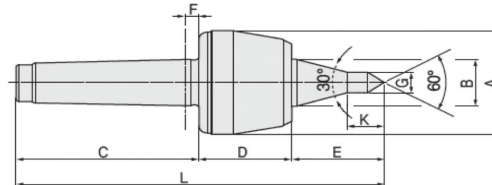


Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
2	1.968	0.984	2.677	1.712	29.5	6	141	1,100	5,000	1.5	0.0001	311011
3	1.968	0.984	3.346	1.712	29.5	6	158	1,100	5,000	1.8	0.0001	311012
4	2.716	1.256	4.252	2.165	40	8	203	1,800	3,800	4	0.0001	311013
5	3.465	1.575	5.354	2.756	50.5	8	256.3	4,400	3,000	9.25	0.0001	311014
6	4.134	1.968	7.441	3.208	57.5	10	328	8,000	2,800	19.2	0.0001	311015

CNC High Speed Live Centers — Extended A Type

For CNC and conventional machines.

- **Four Bearing System:** A double row angular contact bearing, thrust ball bearing, and a radial ball bearing combine to provide excellent rigidity and high precision point concentricity
- Specially shaped elongated center point improves tool clearance and machining flexibility for cramped area work

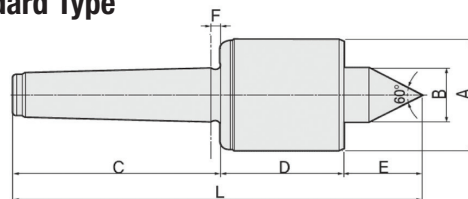


Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	K (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
2	1.968	0.984	2.677	1.713	0.077	0.236	0.394	0.748	6.358	1,100	5,000	1.5	0.0001	311016
3	1.968	0.984	3.346	1.713	0.077	0.236	0.394	0.748	7.028	1,100	5,000	1.8	0.0001	311017
4	2.716	1.260	4.252	2.165	2.500	0.315	0.492	0.925	8.917	1,210	3,800	4.2	0.0001	311018
5	3.465	1.575	5.354	2.756	3.150	0.315	0.492	0.925	11.260	3,300	3,000	9.7	0.0001	311019

High Speed Live Centers — Standard Type

For grinders, CNC machines, and high speed light duty machining

- **Five Bearing System:** A double row angular contact bearing, two single row angular contact bearings, and a rear needle roller bearing combine to provide improved runout, greater stability, longer tool life, and superior performance
- Shaft borehole for easy, efficient dismounting

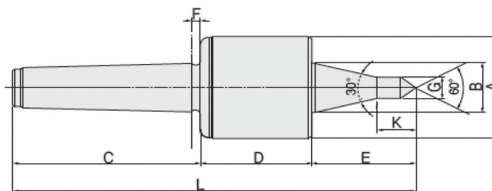


Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
3	1.969	0.787	3.346	2.283	0.906	0.177	6.535	1,650	6,000	4.2	0.0001	311034
4	2.598	1.181	4.252	2.795	1.378	0.209	8.425	2,870	6,000	5.3	0.0001	311026
5	3.150	1.378	5.354	2.992	1.496	0.248	9.843	4,410	5,000	11.7	0.0001	311027

High Speed Live Centers — Extended A Type

For grinders, CNC machines, and high speed light duty machining.

- **Five Bearing System:** A double row angular contact bearing, two single row angular contact bearings, and a rear needle roller bearing combine to provide improved runout, greater stability, longer tool life, and superior performance
- Shaft borehole for easy, efficient dismounting



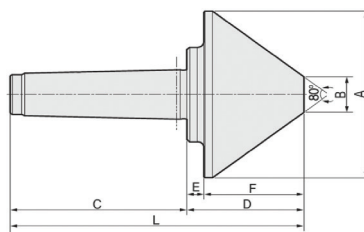
Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	K (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
3	1.969	0.787	3.346	2.283	1.457	0.177	0.394	0.591	7.087	1,100	6,000	4.2	0.0001	311028
4	2.598	1.220	4.213	2.795	2.500	0.209	0.492	0.906	9.508	1,980	6,000	5.3	0.0001	311029
5	3.150	1.378	5.354	3.071	2.756	0.248	0.492	0.925	11.181	3,750	5,000	11.7	0.0001	311030



80° Bull Nose Live Centers

For heavy duty lathe applications. For pipe work, tube work, and parts with extra-large center holes.

- **Triple Bearing System:** A taper roller bearing, thrust bearing, and a high-precision radial ball bearing combine to provide excellent rigidity and superior performance
- Shaft borehole for easy, efficient dismounting
- Heat treated point to 60±2HRC

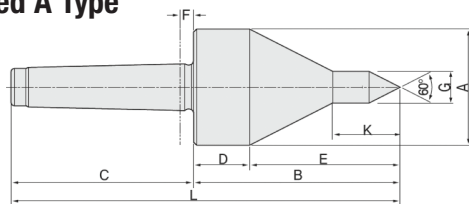


Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
4	4.921	1.142	4.252	3.031	0.512	2.520	7.283	1,760	3,000	8.6	0.0001	311036
5	5.906	1.260	5.354	3.543	0.512	3.031	8.898	3,530	2,000	15.2	0.0001	311035

60° Bull Head Live Centers — Extended A Type

For pipe work, tube work, and parts with extra-large center holes.

- **Four Bearing System:** A double row angular contact bearing, thrust ball bearing, and a radial ball bearing combine to provide excellent rigidity and high precision point concentricity
- Used both as a centering taper for hollow bodies and as a center for machining standard workpieces
- Elongated center point is specially shaped for improved tool clearance



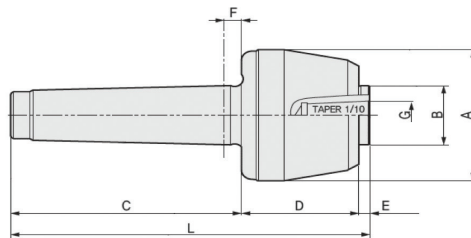
Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	K (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
3	2.205	3.386	3.346	1.138	2.248	0.236	0.472	0.748	6.732	705	5,000	2.2	0.0001	311032
4	3.071	4.075	4.252	1.035	3.039	0.315	0.630	0.925	8.327	1,230	3,800	5	0.0001	311023
5	3.780	5.512	5.354	1.638	3.874	0.315	0.748	1.181	10.866	2,650	3,000	11	0.0001	311033

Interchangeable Points Live Centers

Each holder comes with the 60° H insert. Four other inserts available individually (see below)

Excellent for individual production of various workpieces through different insert shafts

- **4-Bearing System:** A double row angular contact bearing, a radial ball bearing, and a rear needle roller bearing combine to provide excellent rigidity and superior performance
- Because of the insert shafts the allowed workpiece weight is limited
- Shaft borehole for easy, efficient dismounting

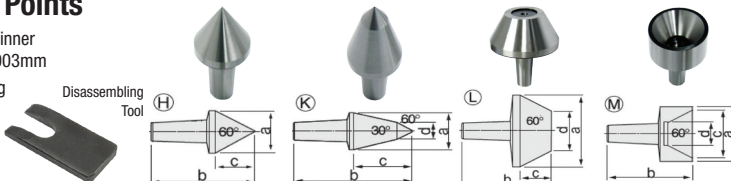


Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	L (in)	Workpiece Weight (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
3	1.969	0.984	3.346	1.713	0.197	0.236	0.472	5.256	330	5,000	1.8	0.019	311020
4	2.717	1.260	4.252	2.165	0.197	0.315	0.591	6.614	550	3,800	3.75	0.019	311021
5	3.465	1.575	5.354	2.756	0.236	0.315	0.866	8.346	1,430	3,000	8.6	0.019	311022

Morse Taper	Inserts	a (in)	b (in)	c (in)	d (in)	Code No.
3	H	0.945	2.028	0.787	-	311037
	K	0.709	2.126	0.984	0.315	311038
	L	1.772	2.008	0.689	0.984	311039
	M	0.866	2.362	0.709	0.256	311040
		Disassembling Tool				311068
4	H	1.102	2.421	0.925	-	311041
	K	1.024	2.874	1.417	0.472	311042
	L	2.165	2.421	0.846	1.189	311043
	M	1.575	2.165	1.378	0.650	311044
		Disassembling Tool				311069
5	H	1.496	3.071	1.260	-	311045
	K	1.260	3.543	1.811	0.512	311046
	L	2.756	2.913	0.787	1.575	311047
	M	2.047	2.559	1.772	1.000	311048
		Disassembling Tool				311070

Interchangeable Points

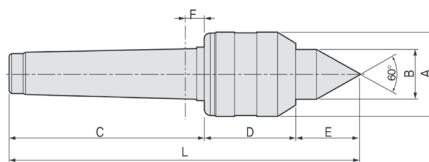
- Accuracy for holder center inner diameter guaranteed to 0.003mm
- Accuracy after point locking guaranteed to 0.005mm
- Mounting taper of point is 1/10



Value Turn Live Centers – Standard Type

For light/medium duty work on conventional lathe machines.

- **Triple Bearing System:** 2 radial ball bearings and a thrust bearing provide good overall load ratings and improved performance
- Rear bearing is sealed, protecting the assembly from coolant and chips
- Slim diameter improves tool clearance



Morse Taper	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	L (in)	Workpiece Weight (lb)	Max Axial Load (lb)	Max RPM	Weight (lb)	Max Runout (in)	Code No.
3	1.752	0.984	3.346	1.732	1.280	0.209	6.358	880	1,320	5,000	2.2	0.0001	311024
4	1.752	0.984	4.252	1.732	1.280	0.209	7.264	880	1,320	5,000	2.65	0.0001	311025
5	2.480	1.102	5.354	2.283	1.378	0.248	9.016	1,100	1,650	4,000	6.15	0.0001	311031

SKODA

BETTER QUALITY. HIGHER PERFORMANCE. LOWER PRICE.



vs Skoda General-Purpose Live Centers

Heavy Duty Live Centers – CSN 243324M



MT	Max RPM	Load (lbs)	Code No.	List Price \$
2	6,000	750	310110	234.35
3	5,000	880	310115	353.20
4	4,000	2,860	310120	408.27
5	3,500	4,400	310125	589.04
6	2,500	8,800	310130	1,186.35

CNC High Speed Live Centers – Standard Point



MT	Max RPM	Load (lbs)	Code No.	List Price \$
2	5,000	1,100	311011	241.49
3	5,000	1,100	311012	300.14
4	3,800	1,800	311013	408.24
5	3,000	4,400	311014	584.19
6	2,800	8,000	311015	1,167.24

Precision CNC Live Centers – CSN 243327-II



MT	Max RPM	Load (lbs)	Code No.	List Price \$
2	6,000	594	310010	444.97
3	5,000	704	310015	540.25
4	4,000	2,200	310020	627.83
5	3,500	3,520	310025	790.45

CNC High Speed Live Centers – Extended A-Point



MT	Max RPM	Load (lbs)	Code No.	List Price \$
2	5,000	1,100	311016	499.17
3	5,000	1,100	311017	499.17
4	3,800	1,220	311018	540.83
5	3,000	3,300	311019	707.50

Live Center with Optional Points (Available separately)



MT Body	Point (Add'l cost)	Code No.	Combo Price \$
3	A-Point (310724)	310722	802.47
4	A-Point (310744)	310742	972.94
5	A-Point (310764)	310762	1,436.73

Interchangeable Points Live Centers (Each holder includes a 60° H-Point, other point options available)



MT Body	Point (Included)	Code No.	List Price \$
3	H-Point (311037)	311020	687.50
4	H-Point (331041)	311021	790.83
5	H-Point (331045)	311022	875.00

To view all specs visit www.SowaTool.com



Sowa Tool & Machine Co. Ltd.

Order online at www.SowaTool.com, email sales@sowatool.com or call 1-800-265-8221.