

Lathe Centers

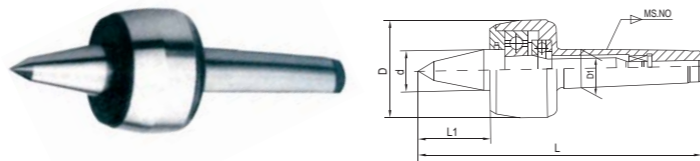
Morse Taper All Centers Are High Speed Steel Or Carbide Tipped With Carbon Shanks.



Tolerance guaranteed to 0.0004" TIR.

M.T.No.	High Speed Steel		Carbide Tipped	
	Full center Model No.	Half center Model No.	Full center Model No.	Half center Model No.
1	DC-1	DCH-1	DCC-1	DCCH-1
2	DC-2	DCH-2	DCC-2	DCCH-2
3	DC-3	DCH-3	DCC-3	DCCH-3
4	DC-4	DCH-4	DCC-4	DCCH-4
5	DC-5	DCH-5	DCC-5	DCCH-5
6	DC-6	DCH-6	DCC-6	DCCH-6

Precision Live Center



Model No.	M.T.No.	L (mm)	D (mm)	L1 (mm)	d (mm)	D1 (mm)	Max Load (kg)	Max Speed (rpm)	Accuracy (mm)
LCP-1	1	124	36	27	15	12.065	80	7000	0.005
LCP-2	2	139	45	34	20	17.780	140	7000	
LCP-3	3	176.5	60	47	25	23.825	400	5000	
LCP-4	4	217	70	53	32	31.267	500	3800	
LCP-5	5	273	90	65	40	44.399	1200	3000	0.01
LCP-6	6	354.5	105	78	50	63.348	2500	2600	

Precision Heavy Duty Live Center

• MAX R.P.M 1800.



Model.No.	M.T.No.	Accuracy	Model.No.	M.T.No.	Accuracy
LCH-1	1	.0003"	LCH-4	4	.0003"
LCH-2	2	.0003"	LCH-5	5	.0004"
LCH-3	3	.0003"	LCH-6	6	.0004"

Precision Light-duty Live Center



- Hardened to 61-65 Rockwell.
- Made of hardened steel & ground for high accuracy.
- Precise and high quality bearings. • Triple Bearing System.
- Bearings are immersed. Parts are sealed.
- Concentricity .0002" • Max r.p.m 2800.

Model No.	M.T.No.	Model No.	M.T.No.
LCL-1	1	LCL-4	4
LCL-2	2	LCL-5	5
LCL-3	3	LCL-6	6
		LCL-7	7

Medium Duty Multi-Purpose Live Center Sets

Features:

- Seven interchangeable points.
- Body made of special tool steel hardened and ground with special taper mount for quick change of points.
- Precision needle bearings used for high accuracy and long life.
- Accuracy guaranteed to 12 to 39 10,000ths of center head.
- Can be used for heavy-duty work since point and body act like solid.
- Less heat is generated due to spring plate used at end of angular bearing.



Includes 7 Interchangeable Points

Model.No.	M.T.No.
LCT-2	2
LCT-3	3
LCT-4	4
LCT-5	5
LCT-6	6

Medium-duty Live Center



Model No.	M.T.No.	Model No.	M.T.No.
LCM-1	1	LCM-4	4
LCM-2	2	LCM-5	5
LCM-3	3	LCM-6	6

- MAX R.P.M 5000.
- Tolerance guaranteed to 0.0004" TIR.

Morse Taper Drill Sleeves

Use to reduce hole size of machine spindle where the drill shank is smaller than spindle hole



Morse Taper					
Hardened Tang			Hardened And Ground Throughout		
Model No.	Inside	Outside	Model No.	Inside	Outside
SL-1 x 2	1 MT	2 MT	SE-1 x 2	1 MT	2 MT
SL-1 x 3	1 MT	3 MT	SE-1 x 3	1 MT	3 MT
SL-1 x 4	1 MT	4 MT	SE-1 x 4	1 MT	4 MT
SL-1 x 5	1 MT	5 MT	SE-1 x 5	1 MT	5 MT
SL-2 x 3	2 MT	3 MT	SE-2 x 3	2 MT	3 MT
SL-2 x 4	2 MT	4 MT	SE-2 x 4	2 MT	4 MT
SL-2 x 5	2 MT	5 MT	SE-2 x 5	2 MT	5 MT
SL-3 x 4	3 MT	4 MT	SE-3 x 4	3 MT	4 MT
SL-3 x 5	3 MT	5 MT	SE-3 x 5	3 MT	5 MT
SL-4 x 5	4 MT	5 MT	SE-4 x 5	4 MT	5 MT
SL-4 x 6	4 MT	6 MT	SE-4 x 6	4 MT	6 MT
SL-5 x 6	5 MT	6 MT	SE-5 x 6	5 MT	6 MT
SL-6 x 7	6 MT	7 MT	SE-6 x 7	6 MT	7 MT

4 PC Morse Taper Drill Sleeve Sets

Hardened Tang Taper		Hardened & Ground Taper	
Inside	Outside	Inside	Outside
1	2	1	2
2	3	2	3
3	4	3	4
4	5	4	5

Model No. SLS-4 Model No. SES-4



Drill Drifts

Fully drop-forged, tools are used to knock taper shank drills, reamers, etc., out of Morse taper sleeves.



Model No.	For Ejection of:
DD-1MT	1 Morse Taper
DD-2MT	2 Morse Taper
DD-3MT	3 Morse Taper
DD-4MT	4 Morse Taper
DD-5MT	5 Morse Taper
DD-6MT	6 Morse Taper

3 Piece Drift Set
Set Includes: No. 1,2,3, Morse Tapers
DDS

Solid Sockets



Use for adapting Morse Taper Tools to Straight Turrets.

Model No.					
Hardened Tang	Hardened & Ground throughout	Socket No.	OAL	M.T Hole	Outside Dia.
SSS-1	SSH-1	1	3-1/2	1	1"
SSS-2	SSH-2	2	3-1/2	1	1-1/4"
SSS-3	SSH-3	3	3-1/2	1	1-1/2"
SSS-4	SSH-4	4	4"	2	1"
SSS-5	SSH-5	5	4"	2	1-1/4"
SSS-6	SSH-6	6	4"	2	1-1/2"
SSS-7	SSH-7	7	4"	2	1-3/4"
SSS-8	SSH-8	8	4"	2	2"
SSS-9	SSH-9	9	4-3/4	3	1-1/4"
SSS-10	SSH-10	10	4-3/4	3	1-1/2"
SSS-11	SSH-11	11	4-3/4	3	1-3/4"
SSS-12	SSH-12	12	4-3/4	3	2"
SSS-13	SSH-13	13	6"	4	1-1/2"
SSS-14	SSH-14	14	6"	4	1-3/4"
SSS-15	SSH-15	15	6"	4	2"
SSS-16	SSH-16	16	7-3/8	5	2-1/4"
SSS-17	SSH-17	17	7-3/8	5	2-1/2"
SSS-18	SSH-18	18	10-1/8	6	3-1/4"
SSS-19	SSH-19	19	10-1/8	6	3-1/2"

Morse Taper Extension Sockets



Model No.	MT Hole	MT Shank	OAL	Model No.	MT Hole	MT Shank	OAL
SMTE-2/1	2	1	6-1/4	SMTE-2/4	2	4	8-1/2
SMTE-1/2	1	2	6-1/4	SMTE-3/4	3	4	9-1/2
SMTE-2/2	2	2	6-7/8	SMTE-4/4	4	4	10-1/2
SMTE-3/2	3	2	7-3/4	SMTE-5/4	5	4	11-7/8
SMTE-4/2	4	2	8-1/2	SMTE-2/5	2	5	9-3/4
SMTE-1/3	1	3	6-7/8	SMTE-3/5	3	5	10-1/2
SMTE-2/3	2	3	7-5/8	SMTE-4/5	4	5	11-7/8
SMTE-3/3	3	3	8-1/2	SMTE-5/5	5	5	13-1/4
SMTE-4/3	4	3	9-1/2	SMTE-6/5	6	5	15-3/8
SMTE-5/3	5	3	10-1/2	SMTE-4/6	4	6	14"
SMTE-1/4	1	4	7-1/2	SMTE-5/6	5	6	15-3/8

R8 Jacobs Taper Adaptor



Model No.	Taper Size	Jacobs Taper
DCAR-1	R8	1
DCAR-2	R8	2
DCAR-3	R8	3
DCAR-4	R8	4
DCAR-6	R8	6
DCAR-33	R8	33

30-40-50 Drill Chuck Arbors



30,40,50 Shank to Jacobs Taper.

Model No.			Jacobs Taper
ISO30	ISO40	ISO50	
DC30-0JT	DC40-0JT	DC50-0JT	JT0
DC30-1JT	DC40-1JT	DC50-1JT	JT1
DC30-2JT	DC40-2JT	DC50-2JT	JT2
DC30-3JT	DC40-3JT	DC50-3JT	JT3
DC30-4JT	DC40-4JT	DC50-4JT	JT4
DC30-5JT	DC40-5JT	DC50-5JT	JT5
DC30-6JT	DC40-6JT	DC50-6JT	JT6
DC30-33JT	DC40-33JT	DC50-33JT	JT33

Drill Chuck Arbors Morse Taper to Jacobs Taper



Model No.	Taper Size	Jacobs Taper	Model No.	Taper Size	Jacobs Taper
DCAM-00	OMT	0	DCAM-32	3MT	2
DCAM-03	OMT	3	DCAM-33	3MT	3
DCAM-033	OMT	33	DCAM-34	3MT	4
DCAM-10	1MT	0	DCAM-35	3MT	5
DCAM-11	1MT	1	DCAM-36	3MT	6
DCAM-12	1MT	2	DCAM-333	3MT	33
DCAM-13	1MT	3	DCAM-42	4MT	2
DCAM-14	1MT	4	DCAM-43	4MT	3
DCAM-16	1MT	6	DCAM-44	4MT	4
DCAM-133	1MT	33	DCAM-45	4MT	5
DCAM-20	2MT	0	DCAM-46	4MT	6
DCAM-21	2MT	1	DCAM-433	4MT	33
DCAM-22	2MT	2	DCAM-52	5MT	2
DCAM-23	2MT	3	DCAM-53	5MT	3
DCAM-24	2MT	4	DCAM-54	5MT	4
DCAM-25	2MT	5	DCAM-55	5MT	5
DCAM-26	2MT	6	DCAM-56	5MT	6
DCAM-233	2MT	33	DCAM-533	5MT	33
DCAM-31	3MT	1			

Straight Shank To Jacobs Taper Arbors



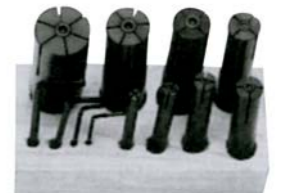
Model No.	Straight Shank Size	Jacobs Taper	Model No.	Straight Shank Size	Jacobs Taper
DCAS-1/20	1/2	0	DCAS-3/42	3/4	2
DCAS-1/21	1/2	1	DCAS-3/43	3/4	3
DCAS-1/22	1/2	2	DCAS-3/44	3/4	4
DCAS-1/23	1/2	3	DCAS-3/46	3/4	6
DCAS-1/26	1/2	6	DCAS-3/433	3/4	33
DCAS-1/233	1/2	33			
DCAS-5/81	5/8	1	DCAS-12	1"	2
DCAS-5/82	5/8	2	DCAS-13	1"	3
DCAS-5/83	5/8	3	DCAS-14	1"	4
DCAS-5/84	5/8	4	DCAS-16	1"	6
DCAS-5/86	5/8	6	DCAS-33	1"	33
DCAS-5/833	5/8	33			

Hand-E-Arbors

Expanding Arbor sets contain eight most popular sizes from 1/4" to 1-1/4" with Allen Wrenches in a handy wooden storage stand. For lathes, Milling machines, grinders, chucks, collets, fixtures.

How to use:

- Chuck arbor in machine to be used
- Tighten expanding screw so that arbor expands .005"
- Machining arbor to length and size required
- Loosen expanding screw
- Position part on arbor and tighten expanding Screw



EXPAS-8

Model No.	Size	Model No.	Size
EXPA-1	1/4	EXPA-9	1-1/2
EXPA-2	3/8	EXPA-10	1-3/4
EXPA-3	1/2	EXPA-11	2"
EXPA-4	5/8	EXPA-12	2-1/2
EXPA-5	3/4	EXPA-13	3"
EXPA-6	7/8	EXPA-14	4"
EXPA-7	1	EXPA-15	6"
EXPA-8	1-1/4		
EXPAS-8	8PC.SET 1/4"-1-1/4"		