

EXPANDING MANDRELS MILLING - GRINDING - TURNING



K.O.LEE's Expanding Mandrels are a time-tested tool for grinding, turning and milling operations. Used in production lines, tool rooms and home work shops, these mandrels will hold work from thin sleeves and bushings to heavy casting and forgings. **K.O.LEE's** mandrels are sized to fit 3/8 to 5-1/2 inch (9.5 to 139.7mm) holes.

There is a **K.O.LEE** expanding mandrel set for every shop. Any mandrel may be purchased separately for production operations. A full set of **K.O.LEE** expanding mandrels will eliminate making and stocking straight arbors for every job.

<u>FEATURES</u>

A Large Bearing Surface on all sleeves provides a positive grip on heavy jobs... prevents slip and chatter and holds thin sleeves and bushings without distortion. Work can be held in any position on sleeve and may overhang on either or both ends for facing operations.

Precision Ground arbors and sleeves provide accuracy of .001 inch (.025mm) or better. Large bearing surfaces minimize wear.

Auxiliary Centers are a K.O.LEE feature, providing a large bearing surface and oil reservoir. The auxiliary centers also prevent damage to arbor center, prolong arbor life and are inexpensive to replace. Available at extra cost.



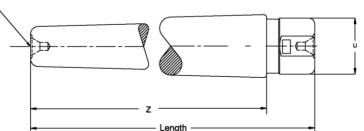


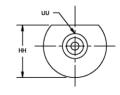


EXPANDING MANDRELS

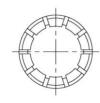
MILLING - GRINDING - TURNING

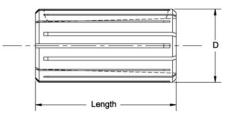
SPECIFICATIONS





Arbor Part		-		—— Length —		-		
Number	Capacity	Length	Z	U	HH	JJ	UU	Material
KM0A	.375 to .500	4.50	3.875	0.375	0.363	# 2	13 Bell	6150
KM1A	.500 to .687	5.75	5.000	0.500	0.473	12 Bell	14 Bell	6150
KM2A	.686 to 1.000	9.25	8.250	0.750	0.709	13 Bell	15 Bell	6150
KM3A	1.000 to 1.562	12.25	11.000	1.125	1.059	13 Bell	16 Bell	6150
KM4A	1.562 to 2.500	16.81	15.312	1.500	1.409	15 Bell	17 Bell	6150
KM46A	2.0312 to 2.500	15.50	14.000	1.750	1.642	17 Bell	17 Bell	6150
KM5A	2.500 to 3.250	17.75	16.000	1.750	1.642	17 Bell	18 Bell	6150
KM5-6A	3.250 to 4.750	18.19	16.000	2.000	1.876	18 Bell	18 Bell	6150
KM6A	4.750 to 5.500	18.25	16.000	2.500	2.342	18 Bell	18 Bell	6150
KM25A	0.687 to 0.843	8.25	7.250	0.687	0.660	13 Bell	15 Bell	6150
KM26A	0.843 to 1.000	8.25	7.250	0.750	0.709	14 Bell	15 Bell	6150
KM35A	1.000 to 1.281	12.25	11.000	0.938	0.879	15 Bell	15 Bell	6150
KM36A	1.281 to 1.562	12.25	11.000	1.125	1.059	16 Bell	16 Bell	6150
KM45A	1.562 to 2.032	12.25	14.000	1.500	1.409	16 Bell	17 Bell	6150





		D	Number of		
Capacity	Length	(Free Size)	Slots	Slot Size	Material
.375 to .500	1.250	0.422	12	0.047	6150
.500 to .687	1.500	0.578	14	0.062	6150
.686 to 1.000	2.500	0.797	16	0.062	6150
1.000 to 1.562	3.000	1.125	22	0.062	6150
1.562 to 2.500	4.312	1.844	22	0.094	6150
2.500 to 4.000	7.000	2.890	24	0.125	6150
4.000 to 5.500	7.000	4.875	32	0.187	6150
2.032 to 2.500	4.250	2.203	20	0.125	6150
0.687 to 0.843	2.250	0.796	16	0.063	6150
0.843 to 1.000	2.500	0.937	16	0.063	6150
1.000 to 1.281	3.250	1.125	16	0.094	6150
1.281 to 1.562	3.250	1.375	16	0.125	6150
1.562 to 2.032	4.250	1.687	20	0.094	6150
	.375 to .500 .500 to .687 .686 to 1.000 1.000 to 1.562 1.562 to 2.500 2.500 to 4.000 4.000 to 5.500 2.032 to 2.500 0.687 to 0.843 0.843 to 1.000 1.000 to 1.281 1.281 to 1.562	.375 to .500	Capacity Length (Free Size) .375 to .500 1.250 0.422 .500 to .687 1.500 0.578 .686 to 1.000 2.500 0.797 1.000 to 1.562 3.000 1.125 1.562 to 2.500 4.312 1.844 2.500 to 4.000 7.000 2.890 4.000 to 5.500 7.000 4.875 2.032 to 2.500 4.250 2.203 0.687 to 0.843 2.250 0.796 0.843 to 1.000 2.500 0.937 1.000 to 1.281 3.250 1.125 1.281 to 1.562 3.250 1.375	Capacity Length (Free Size) Slots .375 to .500 1.250 0.422 12 .500 to .687 1.500 0.578 14 .686 to 1.000 2.500 0.797 16 1.000 to 1.562 3.000 1.125 22 1.562 to 2.500 4.312 1.844 22 2.500 to 4.000 7.000 2.890 24 4.000 to 5.500 7.000 4.875 32 2.032 to 2.500 4.250 2.203 20 0.687 to 0.843 2.250 0.796 16 0.843 to 1.000 2.500 0.937 16 1.000 to 1.281 3.250 1.125 16 1.281 to 1.562 3.250 1.375 16	Capacity Length (Free Size) Slots Slot Size .375 to .500 1.250 0.422 12 0.047 .500 to .687 1.500 0.578 14 0.062 .686 to 1.000 2.500 0.797 16 0.062 1.000 to 1.562 3.000 1.125 22 0.062 1.562 to 2.500 4.312 1.844 22 0.094 2.500 to 4.000 7.000 2.890 24 0.125 4.000 to 5.500 7.000 4.875 32 0.187 2.032 to 2.500 4.250 2.203 20 0.125 0.687 to 0.843 2.250 0.796 16 0.063 0.843 to 1.000 2.500 0.937 16 0.063 1.000 to 1.281 3.250 1.125 16 0.094 1.281 to 1.562 3.250 1.375 16 0.125







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	Con	Complete Mandrel and Sleeve Sets			Arbors Only			Sleeves Only			
	Part	Range		Part Length			Part Length				
	Number	Inch	Millimeter	Number	Inch	Millimeter	Number	Inch	Millimeter		
GENERAL PURPOSE	KM0	3/8" to 1/2"	9.53 to 12.7mm	KM0A	4-1/2"	114.3mm	KM0S	1-1/4"	31.75mm		
	KM1	1/2" to 11/16"	12.7 to 17.46mm	KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
E S	KM2	11/16" to 1"	17.46 to 25.4mm	KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
道が	KM3	1" to 1-9/16"	25.4 to 39.68mm	KM3A	12-1/4"	311.15mm	KM3S	3"	76.2mm		
0 1	KM4	1-9/16" to 2-1/2"	39.68 to 63.5mm	KM4A	16-3/4"	425.45mm	KM4S	4-1/4"	107.95mm		
	KM25	11/16" to 27/32"	17.46 to 21.43mm	KM25A	8-1/4"	209.55mm	KM25S	2-1/4"	57.15mm		
	KM26	27/32" to 1"	21.43 to 25.4mm	KM26A	8-1/4"	209.55mm	KM26S	2-1/2"	63.5mm		
	KM35	1" to 1-9/32"	25.4 to 32.53mm	KM35A	12-1/4"	311.15mm	KM35S	3-1/4"	82.55mm		
	KM36	1-9/32" to 1-9/16"	32.53 to 39.69mm	KM36A	12-/14"	311.15mm	KM36S	3-1/4"	82.55mm		
	KM45	1-9/16" to 2-1/32"	39.69 to 51.58mm	KM45A	15-1/2"	393.7mm	KM45S	4-1/4"	107.95mm		
	KM46	2-1/32" to 2-1/2"	51.58 to 63.5mm	KM46A	15-1/2"	393.7mm	KM46S	4-1/4"	107.95mm		
	KM5B	2-1/2" to 3-1/4"	63.5 to 82.55mm	KM5A	17-3/4"	450.85mm	KM5S	7"	177.8mm		
Ţ	KM5C	3-1/4" to 4"	82.55 to 101.6mm	KM5-6A	18"	457.2mm	KM5S	7"	177.8mm		
2	KM55	3-1/4" to 4-3/4"	82.55 to 120.65mm	KM5-6A	18"	457.2mm	KM5S	7"	177.8mm		
≥							KM6S	7"	177.8mm		
HEAVY DUTY	KM6B	4" to 4-3/4"	101.6 to 120.65mm	KM5-6A	18"	457.2mm	KM6S	7"	177.8mm		
	KM6C	4-3/4" to 5-1/2"	120.65 to 139.7mm	KM6A	18-1/4"	463.55mm	KM6S	7"	177.8mm		
	KM5	2-1/2" to 4"	63.5 to 101.6mm	KM5A	17-3/4"	450.85mm	KM5S	7"	177.8mm		
				KM5-6A	18"	457.2mm					
	KM6	4" to 5-1/2"	101.6 to 139.7mm	KM5-6A	18"	457.2mm	KM6S	7"	177.8mm		
				KM6A	18-1/4"	463.55mm					
	KM7	2-1/2" to 5-1/2"	63.5 to 139.7mm	KM5A	17-3/4"	450.85mm	KM5S	7"	177.8mm		
				KM5-6A	18"	457.2mm	KM6S	7"	177.8mm		
				KM6A	18-1/4"	463.55mm					
	KM90	3/8" to 1"	9.53 to 25.4mm	KM0A	4-1/2"	114.3mm	KM0S	1-1/4"	31.75mm		
				KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
				KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
ш	KM100	3/8" to 1-9/16"	9.53 to 39.68mm	KM0A	4-1/2"	114.3mm	KM0S	1-1/4"	31.75mm		
SC				KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
SP(KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
P				KM3A	12-1/4"	311.15mm	KM3S	3"	76.2mm		
_ _	KM100X	1/2" to 1-9/16"	12.7 to 39.68mm	KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
ΙZ				KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
岜				KM3A	12-1/4"	311.15mm	KM3S	3"	76.2mm		
GENERAL PURPOSE	KM101	3/8" to 2-1/2"	9.53 to 63.5mm	KM0A	4-1/2"	114.3mm	KM0S	1-1/4"	31.75mm		
9				KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
				KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
				KM3A	12-1/4"	311.15mm	KM3S	3"	76.2mm		
				KM4A	16-3/4"	425.45mm	KM4S	4-1/4"	107.95mm		
НЕАVY DUTY	KM200	3/8" to 1"	9.53 to 25.4mm	KM0A	4-1/2"	114.3mm	KM0S	1-1/4"	31.75mm		
				KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
				KM25A	8-1/4"	209.55mm	KM25S	2-1/4"	57.1mm		
				KM26A	8-1/4"	209.55mm	KM26S	2-1/2"	63.5mm		
	KM200X	1/2" to 1-9/16"	12.7 to 39.68mm	KM1A	5-3/4"	146.05mm	KM1S	1-1/2"	38.1mm		
				KM2A	9-1/4"	234.95mm	KM2S	2-1/2"	63.5mm		
				KM35A	12-1/4"	311.15mm	KM35S	3-1/4"	82.55mm		
				KM36A	12-/14"	311.15mm	KM36S	3-1/4"	82.55mm		
王	KM201	1" to 1-9/16"	25.4 to 39.68mm	KM35A	12-1/4"	311.15mm	KM35S	3-1/4"	82.55mm		
		,		KM36A	12-/14"	311.15mm	KM36S	3-1/4"	82.55mm		
	KM202	1-9/16" to 2-1/2"	39.68 to 63.5mm	KM45A	15-1/2"	393.7mm	KM45S	4-1/4"	107.95mm		
		<u>.</u>	33.22.23.30.0	KM46A	15-1/2"	393.7mm	KM46S	4-1/4"	107.95mm		