



**PORTABLE IN-PLACE MACHINING AND REBUILDING**  
**SPECIALISTS**

- ★ CERTIFIED WELDING ★ MACHINING ★ BLAST CLEANING ★
- ★ PORTABLE IN-PLACE MACHINE SERVICES ★
- ★ LASER MACHINE ALIGNMENT AND LEVELING ★
- ★ LASER SHAFT AND COUPLING ALIGNMENT ★
- ★ HYDRAULIC TORQUE WRENCH SERVICES ★
- ★ MILLWRIGHT, HOISTING & HEAVY HAULING SERVICES ★
- ★ MACHINE FAILURE ANALYSIS ★

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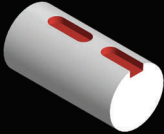

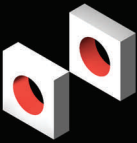


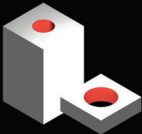




# Quick Reference Guide to

**Wizards of the I.D.**

Portable In-Place Machine Services

*"We Know The Ins and Outs of Our Business"*

APPLICATION		MODEL	SPECIFICATIONS		
<b>MILLING</b> 		<b>KEYWAY MILLING</b> KM87 KM65 KM72	Max. Shaft Dia.		Max. Keyway, <b>single setup</b>
			3.75" (95 mm) 10.50" (266.7 mm) 24" (609.6 mm)		.75" x 4.50" (19 x 114 mm) 1.50" x 6.0" (38.1 x 152.4 mm) 3.25" x 8.0" (82.5 x 203.2 mm)
<b>MILLING SLOTS, POCKETS, OR FLATS</b> 		<b>KM72</b> <b>PM820-878</b> <b>PM925</b> <b>PM975</b>	Max. Slot, Pocket, or Flat, <b>single setup</b>		
			3.25" 9.25" (82.5 x 234.9 mm) 8" (200 mm) x 20", 48", 78" (500, 1200 or 1900 mm) [PM820, 848, 878] 7.6" (193 mm) x bed length, 27" (697 mm) by bed length, milling overhead 16" (409 mm) x bed length, 47" (1200 mm) by bed length, milling overhead		
<b>BORING</b> 		<b>BB1020</b> <b>BB2020</b> <b>BB1149</b> <b>BB1160</b> <b>BB1162</b> <b>BB1680</b>	Max. Boring dia.	Max. Boring stroke	Max. Bar dia.
			4" (100 mm) 6" (152 mm) 24" (609 mm) 36" (914 mm) 40" (1016 mm) 80" (2032 mm)	36" (914 mm) 36" (914 mm) Bar Length Bar Length Bar Length Bar Length	1.25" (31.8 mm) 1.25" (31.8 mm) 2.25" (57.1 mm) 3.50" (88.9 mm) 5.0" (127 mm) 8.0" (203.2 mm)
<b>FACING</b> 		<b>BB1149</b> <b>BB1160</b> <b>BB1162</b> <b>BB1680</b>	Facing diameter range	Stroke	Face to Center?
			0" to 18.25" (0 to 60.3 mm) 10.50" to 36" (266.7 to 914.4 mm) 9.50" to 36" (241.3 to 914.4 mm) 16.0" to 80" (406.4 to 2032 mm)	Full Range 4" (101.6 mm) 4" (101.6 mm) 5" or 12" (127 or 304.8 mm)	Yes No No No
<b>TAPPING, THREADING</b> 		<b>H15010P</b> <b>BB1149</b> <b>TW-4</b> <b>VM1385</b>	Threading diameter range	Threads per inch range	
			.50" to 2" (12.7 to 51.8mm) 4.75" to 8.75" (120.7 to 222.3 mm) 2.0" to 8.0" (51.8 to 203.8 mm) 3.5" to 10.0" (88.9 to 254 mm)	4 to 20 tpi 4 to 20 tpi 8 to 20 tpi 8 to 20 tpi	
<b>HEAVY DRILLING</b> <b>TREPPANNING</b> 		<b>HH15010P</b> <b>BB1149</b> <b>BB1149</b>	Diameter range		
			.25" to 4" (6.3 to 101.6 mm) 1.50" to 3.38" (38.1 to 85.7 mm) with spade drill 2.36" to 11.8" (59.9 to 299.7 mm)		
<b>TURNING</b> 		<b>PL1100</b> <b>PL1150</b> <b>PL1174</b>	Diameter range	Max. turning reach	
			1.50" to 9.0" (38.1 to 228.6 mm) 4" to 11.25" (101.6 to 285.7 mm) 8" to 24" (203 to 609 mm)		12" (317.5 mm) 22" (558.8 mm) 27" (685 mm)
<b>CUTTING GROOVES, CHAMFERING</b> 		<b>PL1100</b> <b>PL1150</b> <b>PL1174</b>	Diameter range		
			1.50" to 9.0" (38.1 to 228.6 mm) 4" to 11.25" (101.6 to 285.7 mm) 8" to 24" (203 to 609 mm)		

# Portable In-Place Machining

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APPLICATION		MODEL	SPECIFICATIONS	
<b>FLANGE FACING</b>			Facing diameter range	Clamping diameter range
	<b>FLANGE REFACING</b>	<b>FF12, O.D.</b> <b>FF20</b> <b>FF24, I.D.</b> <b>FF40, I.D.</b> <b>FF1208, O.D.</b> <b>FF3096, I.D.</b> <b>FF3096, O.D.</b>	0" to 12" (0 to 305 mm) 6" to 20" (152 to 508 mm) 6" to 24" (152 to 609 mm) 14" to 60" (356 to 1524 mm) 10" to 40" (254 to 1016 mm) 30" to 120" (762 to 3048 mm) 30" to 120" (762 to 3048 mm)	2" to 13" (50 to 380 mm) 6" to 20" (152 to 508 mm) 6" to 18" (152 to 455 mm) 14" to 60" (356 to 1524 mm) 12" to 40" (305 to 1016 mm) 30" to 120" (762 to 3048 mm) 42.5" to 133" (1080 to 3378 mm)
	<b>CUTTING GROOVES</b>	<b>FF12</b> <b>FF20</b> <b>FF24</b> <b>FF40</b> <b>FF1208</b> <b>FF3096</b>	Maximum Diameter 12" (305 mm) 20" (508 mm) 24" (609 mm) 60" (1524 mm) 40" (1016 mm) 120" (3048 mm) I.D., 105" (2667 mm) O.D.	
	<b>CHAMFERING</b>	<b>FF12</b> <b>FF20</b> <b>FF24</b> <b>FF40</b> <b>FF1208</b> <b>FF3096</b>	12" (305 mm) 20" (508 mm) 24" (609 mm) 60" (1524 mm) 40" (1016 mm) 120" (3048 mm) I.D., 105" (2667 mm) O.D.	
	<b>TURNING FLANGE EDGES</b>	<b>FF20</b> <b>FF24</b> <b>FF40</b> <b>FF1208</b> <b>FF3096</b>	20" (508 mm) 24" (609 mm) 60" (1524 mm) 40" (1016 mm) 120" (3048 mm) I.D., 105" (2667 mm) O.D.	
	<b>WELD PREPS</b>	<b>FF20</b> <b>FF24</b> <b>FF40</b> <b>FF3096</b> <b>BT4000</b> <b>BT8000</b> <b>BT14000</b>	Diameter range 6" to 20" (152 to 508 mm) 6" to 24" (152 to 609 mm) 14" to 60" (356 to 1524 mm) 30" to 120" (762 to 3048 mm) .863" to 4.25" (21.9 to 107.9 mm) 1.90" to 8.60" (48.3 to 218.5 mm) 5.75" to 14.75" (146 to 374.6 mm)	
<b>VALVE REPAIR</b>			Seat diameter range	Mounting diameter range
	<b>GLOBE VALVES</b>	<b>VM1310</b> <b>VM1572</b> <b>BB1149</b>	2.50" to 13" (64 to 330 mm) 16" to 28" (406 to 711 mm) 6" to 16" (152.4 to 406.4 mm)	3.50" to 17" (89 to 431 mm) O.D. Mount 16" to 28" (406 to 711 mm) I.D. Mount
	<b>HIGH PRESSURE SAFETY VALVES</b>	<b>VM1265</b>	1.50" to 6" (38 to 152 mm)	Fits Dresser Consolidated Maxi-Flow valves, orifice sizes 1 thru 6 and many Crosby valves.
	<b>CONTROL VALVES</b>	<b>VM1385</b>	2.50" to 10" (63.5 to 254 mm)	Fisher control valves up to 14.7" (374 mm) in diameter.