

M300 Series Tapping Machines



- Power Options: Hydraulic
- Auto Feed Rate: 0.003 or 0.005/Rev.
- Manual Lower in Rate: 4.5 TPI

Description

The M300 series of tapping machines offer a variety of tapping options with the M312 providing a tapping size range of 3" to 12", with a boring bar travel of 42 inches; the M316 provides a 3" to 16" tapping range (66 inches of bar travel); with the M320 providing a 3" to 20" tapping range (66 inches of bar travel).

The M312 machine may be air powered by a vane-type air motor with 2:1 reduction gearing, or hydraulically powered via a dedicated diesel hydraulic power unit. The M316 and M320 are both hydraulically powered. While a gasoline powered unit is available, we recommend the use of a diesel engine unit for the hydraulic option. This provides for added safety in hazardous areas, as well as an engine with a flatter torque curve and longer life.

Features

As with all tapping machines, the Model M312 is capable of operating up to 1480 PSI, allowing safe operations on lines up to full ANSI 600# operating pressures. The M316 and M320 machine is operated by dual hydraulic motors, providing speed control features for ease of use.

Standard packing is rated at 1480 PSIG at 100°, or 700 PSIG at 400° F. Severe packing is rated at 700 PSIG at 700°F. We recommend that for most normal operations, standard packing be used. Severe service packing relies upon higher temperatures to provide sealing capabilities. For higher temperature operations, please consult Intervention Solutions Customer Service at: 918-583-3000.

M300 Series Tapping Machines

Description	Part Number
Tapping Machine w/42 Inches of Travel	M312
Tapping Machine w/66 Inches of Travel	M316
Tapping Machine w/66 Inches of Travel	M320

Model M300 includes the following items:

Description	Part Number
Transportation Skid	
Measuring Rod	
Bleeder Valve	
Valve Nipple	
Inner Packing Wrench	Consult Factory
Outer Packing Wrench	Consult Factory
Inner Standard Packing	
Outer Standard Packing	
Operations Manual	
4" 600 RTJ Ring Gasket	

Hydraulic Options	Part Number
Hydraulic Motor and Control System	M312-STD-HM1 M312-STD-HM2 M312-STD-HM3
Diesel/Hydraulic Power Unit	Per Machine

Hydraulic Power Unit	
Diesel Engine	Hatz 20HP
Pump	Vane type rated at 17-20 GPM at 1000psig
Tank	40 U.S. Gallons
Pressure Relief Valve	Factory preset @ 1100psig
Starting System	12V Electric
Fluid Level/Temperature	Indicator on Tank
Mounting	Skid mounted
Hoses	50 Ft. pressure and return hoses included
Couplings	Aeroquip quick release/positive shutoff or equivalent

M300 Series Accessories

	Description	Part Number
Pilot Drills	3" Standard Pilot Drill	5900-0003-00
	4" Standard Pilot Drill	5900-0004-00
	6" Standard Pilot Drill	5900-0006-00
	8" Standard Pilot Drill	5900-0008-00
	10" Standard Pilot Drill	5900-0010-00
	12" Standard Pilot Drill	5900-0012-00
	14" Standard Pilot Drill	5900-0014-00
	16" Standard Pilot Drill	5900-0016-00
	18" Standard Pilot Drill & 16" Line Stop Pilot Drill	5900-0018-00
	20" Standard Pilot Drill & 18" Line Stop Pilot Drill	5900-0020-00
	22" Standard Pilot Drill & 20" Line Stop Pilot Drill	5900-0022-00
Standard Cutters	3" Standard Cutter	3002-0438-00
	4" Standard Cutter	3003-0438-00
	6" Standard Cutter	3005-0469-00
	8" Standard Cutter	3007-0312-00
	10" Standard Cutter	3009-0500-00
	12" Standard Cutter	3011-0500-00
	14" Standard Cutter	3012-0750-00
	16" Standard Cutter	3014-0688-00
	18" Standard Cutter	3015-0062-00
	20" Standard Cutter	3017-0000-00
Line Stop Cutters	4" Line Stop Cutter	3003-0938-00
	6" Line Stop Cutter	3005-0938-00
	8" Line Stop Cutter	3007-0875-00
	10" Line Stop Cutter	3009-0875-00
	12" Line Stop Cutter	3011-0812-00
	14" Line Stop Cutter	3013-0062-00
	16" Line Stop Cutter	3015-0062-00
	18" Line Stop Cutter	3017-0000-00
	20" Line Stop Cutter	3019-0000-00
Cutter Holder	3" - 4" Cutter Holder	CH-M300-34
	6" - 12" Cutter Holder	CH-M300-612
	14" - 20" Cutter Holder	CH-M30-1420
Line Stop Plug Holder	4" - 12" Line Stop Plug Holder	M300-PH-4
	14" - 20" Line Stop Plug Holder	M300-PH-14
Tapping Adapters	3" - 20" 150RF Tapping Machine Adapter	TA-M300-XX-150
	3" - 20" 300RF Tapping Machine Adapter	TA-M300-XX-300
	3" - 20" 600RF Tapping Machine Adapter	TA-M300-XX-600

Note: High speed steel tips are standard on all cutters unless otherwise specified. The grade of high speed steel used allows for significantly higher hardness factors (Rockwell 67-68) without a corresponding loss of ductility and resistance to fracture.

All cutters other than hole saws and twist drills, are available tipped carbide for use on cast and ductile iron pipe.

Dresser, Inc., Intervention Solutions, or any subsidiary or associate company, reserve the right to vary or alter the specification of any equipment as quoted, while maintaining or improving the operating characteristics.

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