



Precision Hydraulic Surface Grinders

Made in Taiwan

1. Model# GMSG - 1020AH, 8"x20" chuck, 2 axis automatic, 3 HP/220V
2. Model# GMSG - 1020AHD, 8"x20" chuck, 3 axis automatic, 3 HP/220V

Standard Features:

- ³⁵₁₇ ISO 9001
- ³⁵₁₇ Precision roller ball ways
- ³⁵₁₇ Heavy Duty "Meehanite" Casting
- ³⁵₁₇ Roller tracks are Turcite-B coated for long life
- ³⁵₁₇ "Turcite B" Coating on ways
- ³⁵₁₇ Double Vee on cross slide
- ³⁵₁₇ Model # GMSG-820AHD has automatic down feed
- ³⁵₁₇ Complete coolant system included
- ³⁵₁₇ Full splash guards
- ³⁵₁₇ Over 680 pounds table load capacity
- ³⁵₁₇ Hardened & precision ground & hand scraped ways
- ³⁵₁₇ Dynamically balanced spindle run-out within 0.00008"
- ³⁵₁₇ Automatic down feed is driven on V-type guideway
- ³⁵₁₇ Safety 24 low voltage electric controls & overload protection
- ³⁵₁₇ Automatic continuous lubrication for all ways & leadscrews
- ³⁵₁₇ Adjustable longitudinal table stops and cross feed lock
- ³⁵₁₇ (4) preloaded class 7 (P4) high precision angular contact spindle bearings for high precision grinding
- ³⁵₁₇ Power source: 208V / 220V/ 230V, 3 -phase (option: 440V/460V, 3-phase)
- ³⁵₁₇ One year industrial warranty for parts

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Specifications	GMSG – 1020AH	GMSG – 1020AHD
Table Size (chuck size)	8" x 20"	8" x 20"
Table Load Capacity	680 LBS	680 LBS
Table T-slot size	11/16" x 3/8" x 1"	11/16" x 3/8" x 1"
Grinding capacity, W x L	8-1/2" x 20"	8-1/2" x 20"
Max. longitudinal manual table travel	20"	20"
Hydraulic automatic longitudinal table travel	20"	20"
Automatic longitudinal travel speeds	3' to 82' / min.	3' to 82' / min.
Max. cross manual table travel	9"	9"
Cross rapid traverse	48" / min.	48" / min.
Automatic cross table increment feeds	0.006" – 0.30"	0.006" – 0.30"
Cross handwheel graduation	0.001"	0.001"
Cross handwheel per revolution	0.2"	0.2"
Vertical automatic down feed-rapid traverse	---	9" / min.
Automatic vertical down feed rate, variable	---	0.00004" – 0.0004"
Vertical downfeed handwheel graduation	0.0002"	0.0002"
Vertical downfeed handwheel per revolution	0.05"	0.05"
Max. spindle centerline to table surface	16-1/4"	16-1/4"
Spindle speed	3,600 rpm	3,600 rpm
Spindle motor	3 HP, 3-phase 230V	3 HP, 3-phase, 230V
Hydraulic pump motor	1 HP, 3-phase 230V	1 HP, 3-phase 230V
Cross feed motor	½ HP, 3-pahse 230V	½ HP, 3-pahse 230V
Automatic down feed motor	1/4 HP, 3-ph, 230V	1/4 HP, 3-ph, 230V
Coolant pump	1/8 HP, 3-ph, 230V	1/8 HP, 3-ph, 230V
Coolant tank capacity	8 Gal.	8 Gal.
Wheel size, Diameter x Thickness x Center Bore	8" x ¾" x 1-1/4"	8" x ¾" x 1-1/4"
Machine weight, LBS	2,870 LBS	2,960 LBS
Machine dimensions: L x W x H	66 x 50 x 78"	78 x 56 x 83"

Specifications are subject to change without prior notice

Standard Equipment:

1. COMPLETE COOLANT SYSTEM WITH SPLASH GUARDS
2. HALOGEN WORK LIGHT INSTALLED
3. (1) GRINDING WHEEL WITH FLANGE 8" DIA. X 1/2" THICK X 1-1/4" BORE
4. GRINDING WHEEL EXTRACTOR
5. DIAMOND WHEEL DRESSER WITH BASE
6. BALANCE STAND & WHEEL WRENCH & BALANCE ARBOR
7. AUTOMATIC LUBRICATION SYSTEM
8. TOOL BOX WITH TOOLS & LEVELING PADS
9. OPERATION AND PARTS MANUAL

Optional Equipment for Manual Surface Grinders # MSG – 618M & MSG – 818M:

- ³⁵/₁₇ 8"x20" standard permanent magnetic chuck # SMC-820.....
- ³⁵/₁₇ 8"x20" fine pole permanent magnetic chuck # FPMC-820.....
- ³⁵/₁₇ Dust collector system for MSG-820AHD, part # DC-820.....
- ³⁵/₁₇ 2 axis NEWALL # C 80 DRO for MSG-1020, USA, installed, # NW-820....
- ³⁵/₁₇ Parallel dresser, part # PDR.....
- ³⁵/₁₇ Variable spindle speeds from 50 rpm to 3,600 rpm, # VARI-SP...
- ³⁵/₁₇ Rotary phase converter, USA , 7 HP # R7-1020
- ³⁵/₁₇ Coolant system with paper filter & magnetic separator
- ³⁵/₁₇

GMC Manual Surface Grinder # MSG-1020AHD picture is shown below, next page

Model # GMSG-1020AHD

