



Precision Hydraulic Surface Grinders

Made in Taiwan

Model# GMSG - 820AHD, 8"x20" chuck, 3 axis automatic,3 HP/220V..

Standard Features:

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

Specifications	GMSG – 820AHD
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Table Size (chuck size)	8" x 20"
Table Load Capacity	680 LBS
Table T-slot size	11/16" x 3/8" x 1"
Grinding capacity, W x L	8-1/2" x 20"
Max. longitudinal manual table travel	20"
Hydraulic automatic longitudinal table travel	20"
Automatic longitudinal travel speeds	3' to 82' / min.
Max. cross manual table travel	9"
Cross rapid traverse	48" / min.
Automatic cross table increment feeds	0.006" – 0.30"
Cross handwheel graduation	0.001"
Cross handwheel per revolution	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"
Vertical downfeed handwheel per revolution	0.05"
Max. spindle centerline to table surface	16-1/4"
Spindle speed	3,600 rpm
Spindle motor	3 HP, 3-phase, 230V
Hydraulic pump motor	1 HP, 3-phase 230V
Cross feed motor	½ HP, 3-phase 230V
Automatic down feed motor	1/4 HP, 3-ph, 230V
Coolant pump	1/8 HP, 3-ph, 230V
Coolant tank capacity	8 Gal.
Wheel size, Diameter x Thickness x Center Bore	8" x 3/4" x 1-1/4"
Machine weight, LBS	2,960 LBS
Machine dimensions: L x W x H	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 # GMSG – 820AHD:

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

[GMC Manual Surface Grinder # GMSG-820AHD picture is shown below, next page](#)

[Model # GMSG-820AHD](#)

