

Hydraulic



- **Effortless Grinding**
- **Quality Construction**
- **Hand Scraped Ways**

American Made Since 1942

- Optional Variable Speed Spindle allows infinite adjustment from 500 to 6,000 RPM.
- Power longitudinal feed for effortless grinding. Low pressure, no-surge hydraulic system for powered longitudinal table travel. Built-in hydraulic cushions for smooth table reversal. Safety interlock keeps handwheel from turning when power feeding.
- PLC Electrics
- Stainless steel screws throughout, including wheel guard hardware and threads.
- Cartridge-type 2HP spindle with preloaded Class 7 duplex bearings. Temperature compensating spindle housing.
- Quality Construction. One-piece cast column. 30,000 PSI graphitic gray iron casting resist deflection under load.
- Automatic lubrication for long life accuracy. Harig's exclusive FLO-CLEAN Lubrication System continuously floods ways, bearings and lead screws with recirculated filtered oil.
- Quick Cylinder Disconnect For Manual Longitudinal Table Drive Operation.
- Front-mounted speed control for power longitudinal feed. Table speed infinitely variable from 3 to 70 FPM.
- Laser-accurate Sliprings
- Financing and leasing readily available.



**1 Year
Warranty on
Parts and
Labor!**



www.harigproducts.com

*Harig 618 Hydraulic Surface Grinder
(Shown with additional Options and Accessories)*

02-08

HARIG® Hydraulic Grinder

6"x18" platen

Power longitudinal feed

Harig® Hydraulic Machine Specifications

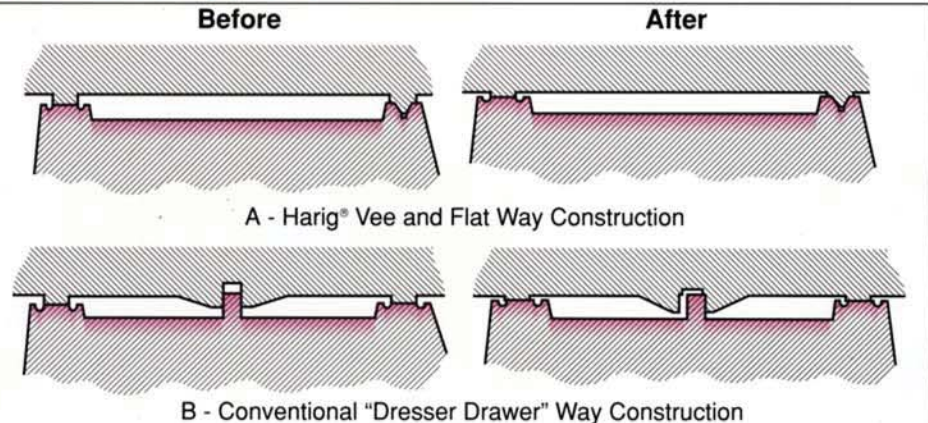
Longitudinal travel	20in. (508mm)
Longitudinal table speed	3 fpm-70 fpm (.9m/min.-21.3m/min.)
Cross feed travel	6-3/4in. (171mm)
Vertical working height (under 7" wheel)	11-3/4in. (298mm)
Platen work area	6x18in. (152x457mm)
Grinding wheel furnished	7x1/2x1-1/4in. I.D. (178x13x32mm)
Grinding wheel maximum capacity	8x1-1/4x1-1/4in. I.D. (203x32x32mm)
Elevating handwheel grad.	.0001in. (.0025mm)
Cross feed handwheel grad.	.001in. (.02mm)
Spindle motor	2 HP (1.38kW)
Spindle speed	3450 RPM
Floor area cabinet	40x31in. (1016x787mm)
Floor area operating space	72x45in. (1829x1143mm)
Net weight of machine	1360lbs (617kg)
Weight, domestic crated	1435lbs. (651kg)
Weight, export boxed	1710lbs. (776kg)
Export box dimensions	76x55x45in. (1.9x1.4x1.1m)

Note: Specifications subject to change without notice

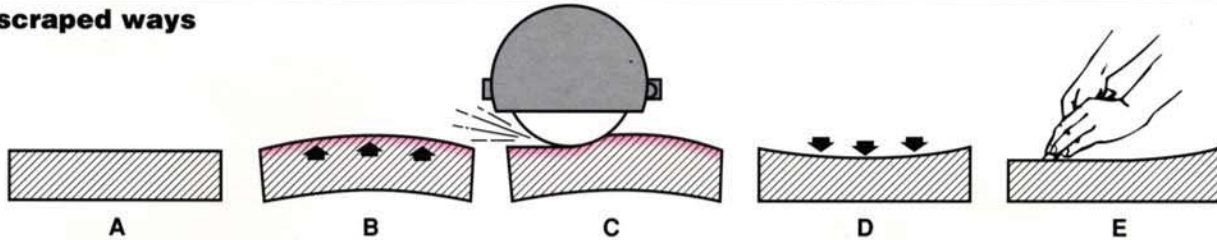
Harig® Features that prolong accurate machine life:

Vee and flat ways

Wear-compensating vee and flat ways maintain a perfect fit for the life of your grinder for both cross and longitudinal travel. This is extremely important in shoulder and slot grinding. Diagram (A) illustrates how vee and flat way design compensates for wear and maintains perfect fit. Conventional ways shown in (B) illustrate how side clearance increases with wear permitting the table to "yaw" under side pressure.



Hand scraped ways



(A) Harig hand scrapes cross, longitudinal and column ways for absolute flatness. (B) Grinding ways

cause heat expansion which bows the way surface toward the wheel. (C) The crest of this bow is ground off. (D)

When the casting cools, there is a slight depression. (E) Hand scraping brings ways back to absolute flatness.



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Safety Notice: Harig Products, Inc. provides protective devices for the safe use of this equipment. Operation of this equipment may cause injury if the protective devices are removed. A comprehensive safety manual is provided with all machines offered by Harig Products, Inc. and recommended safe operating procedures must be adhered to.