The best return on your investment — earn more per hour of use

Fast set up and easy to operate

Achieve precision results every time

Exclusive solid cast table support means no deflection

Direct drive table — no belts or chains

Most productive and rugged flywheel grinders available

FG5000 & FG10,000
Flywheel Grinders

The First — and Still the Best — Flywheel Grinders
An FG grinder could be the most profitable machine you ever own!

Three models available:

- **Standard Machine** (FG 5000) with Manual Downfeed
- **PowerHead** (FG 5000 and FG 10,000) with PowerHead Up/Down to Flywheel and Manual Downfeed
- **PowerHead with AutoGrind™** (FG 5000 and FG 10,000) with PowerHead Up/Down to Flywheel and Automatic Grind to Pre-set Depth

**Standard FG 5000 with Manual Downfeed (shown)**

**PowerHead FG 10,000 with AutoGrind™ (shown)**

Electrical Components are recessed behind the side panel (above) and protected from the shop elements.

Standard 9.5 Gallon Internal Coolant Tank is easily accessible. It completely slides out the front door for easy emptying. The coolant pump is removable for easy cleaning.

Call for a Representative near you at 1-800-553-5953
FG5000 & FG10,000 features

- Exclusive, rugged base casting with cast-in table support.
- Unlimited grinding pressure is possible— with no table deflection.
- Oil reservoir with Optomatic Oiler gives constant column/table support lubrication.
- Thrust bearings or anti-friction material (which require field service) are not used.
- Direct Table Drive— No chains or belts to adjust or replace. Consistent torque to table.
- AutoGrind™ — Easy to set, easy to use, increases productivity... and is reliable.
- Double Cam Head Swivel Lock for positive head lock — lubricated for ease in swiveling.
- Our Flywheel Grinders are made larger, stronger, heavier, longer lasting — and they have more features.

FG5000 & FG10,000 benefits

- Grind your own flywheels... Finish the job fast... Keep all the profits!
- Set-up is extremely fast and accurate.
- Grind most automotive and light truck flywheels floor to floor in 5-10 minutes (slightly longer for the heavy duty stepped flywheels).
- The FG’s cost just a few dollars per day to own, take up very little floor space and will last for many years. The FG’s are an excellent investment!
- Supply costs are minimal and labor costs are low because a skilled machinist is not needed to operate the Van Norman flywheel grinders.
- It is the easiest machine to operate in your shop.
- If you’re currently sending flywheels out, or machining them on a brake lathe... you need a FG5000 or FG10,000 Flywheel Grinder!

Exclusive FG10,000 design

The FG10,000 was designed specifically for a 10 horsepower application — NOT a 10 hp motor hung on a 5 hp machine!

FG10,000 features:

- Larger column flange
- Larger 5.5" diameter column, with massive thick wall
- Larger motor flange
- Increased vertical head travel/clearance to 10.5"— the most clearance in the industry!
- Increased machine weight — 200 lbs heavier

Designed for ease of operation and the convenience to the operator

- Master Control Panel includes all switches
- Grinding Head Down Feed Wheel
- Wheel Dresser
- Coolant Nozzle
- Depth of Grind Dial
- Grinding Head Swivel Lock Lever
- Grinding Head Swivel Handle
- Truck Flat Flywheel
- Heavy Duty Truck Stepped Flywheel
- Automotive Stepped Flywheel
- Import Stepped Flywheel
- Racing Clutch Components
- Center Plate
The unique design of the FG’s ensures ease-of-use and longevity.

Rugged Cast Bearing supports 18" table

- Solid Cast Table (cut-a-way photo above) shows the Oil Reservoir, the Oil Film and the Table Bearing Support. The table rotates on the cast bearing support that prevents any deflection regardless of the flywheel size and weight, or grinding pressure.

- The oil level is set 1/16" above the Table Bearing Support for constant lubrication. The oil level is maintained at all times by the Optomatic Constant Oiler.

- There is absolutely no downward or sideward pressure on the spindle or spindle bearings — they merely "drive & guide" the table. If the table was only supported by the spindle and spindle bearings, they would be "wiped out" by the downward pressure required for grinding (see cross section illustration below).

- No costly thrust bearings used for support

- Unlimited grinding pressure

- No anti-friction material required

- Grind within closer tolerances

- No field service required on the table

Call for a Representative near you at 1-800-553-5953
The FG’s plunge grind fast & accurately. Hard spots and heat checks are NOT a problem!

The entire friction surface is ground at once, assuring fast, accurate results every time. Plunge grinding produces a “swirl finish”, or a “cross hatch finish”, if preferred. Also, the operator has total control over the surface finish — the longer the sparkout, the smoother the finish.

Grinding head tilt can be adjusted for precision results
The grinding head assembly is set at the factory with a .023” rear tilt of the grinding wheel and the side to side setting of .000” for the fastest grinding and the best surface finish. The head tilt can be set flatter for even greater grinding precision.

Resurfaced flywheel with a “swirl finish”.
Resurfaced flywheel with the alternate “cross hatch” pattern.

Heavy-Duty Column Assembly
The FG column diameters are the largest in the industry — the FG5000 is 4.437” and the FG10,000 is 5.50”. Both are chromed and precision ground and are constantly lubricated by a felt wick installed within the column mounting flange.

The Heavy Duty Column is completely protected from chips and coolant. The columns are totally protected from grinding debris and coolant by a rubber boot.

Optomatic Constant Oilier
Double Cam Head Lock

The Heavy-Duty Column is completely protected from chips and coolant.

Column is constantly oiled by a wick in the column flange.

Machine Mounted Tool Board

1.250” ACME Lead Screw

Adjustable lead screw nut

2 Grease Zerks added for easier Head Swivel

Heavier Head Lock Casting Boss

The FG5000 Column is 4.437” Diameter

FG 10,000 Column is 5.50” Diameter

Drilled and tapped holes for optional radius cutter

Most Vertical Clearance:
FG5000 = 8.75”
FG10,000 = 10.5”

The Coolant Shroud has a removable cap to install the Shop Vac Adapter, part #794-8685-54 (optional). Using a vacuum cleaner with the FG’s will reduce the mist and grinding debris in the shop.

The Coolant Shroud

Shop Vac Adapter

Call for a Representative near you
1-800-553-5953

Van Norman, a division of KW Products • 500 57th Street
Marion, IA 52302 USA • 319-377-9421 • (FAX) 319-377-9101
(E-MAIL) vannorman@kwik-way.com • international@kwik-way.com
(WEB) www.van-norman.com
The FG’s are built solid for rugged strength, precision and reliability.

One-Piece 480 lb. Base Casting
- Heaviest and most rugged in the industry
- Cast-in column mounting flange supported by heavy gussets
- All machining of base casting with one set up for maximum accuracy and perfect perpendicularity

Exclusive Direct Drive Gear Reduction Unit
- Rugged, Industrial Design
- Heavy Duty 1/3 H.P. Motor
- Delivers consistent torque to the table
- Requires no maintenance
- Has no chains or belts to lubricate, adjust or replace

Column Mounting Flange
- Cast integrally for more strength, stability and perfect alignment
- Increased diameter to properly support the massive columns
- Column is constantly lubricated by internal wick

Exclusive Cast-In Table Support — No Deflection, Ever
- 94 sq. in. Table Bearing Support
- Cast in oil reservoir
- Prevents any table deflection
- Faster, more accurate grinding — superior finish
- Rugged, life-time design

Fast, simple, accurate set-up...in less than one minute!
1. Select the flange adapter and place it on the rotary table
2. Lay the flywheel on the adapter
3. Install the centering cone, hold down the bolt, and tighten

That's the entire set-up!
The flywheel sits on a precision ground flange adapter ring assuring parallelism to the crankshaft flange. No indicating, no guessing, no scratch tests. Precision results—every time.

Call for a Representative near you at 1-800-553-5953
Control Panels for all three models are easy to use and simple to understand.

Standard Machine (FG5000)
Manual Downfeed

- Raising and lowering the grinding head is easy with the assistance of heavy tapered coil springs
- Easy for the operator
- Increases production

PowerHead (FG5000 & FG10,000)
Power Up/Down to Flywheel Manual Downfeed

- PowerHead — ideal feature for grinding deep stepped flywheels
- Speeds up production
- Reduces operator fatigue

Electronic AutoGrind™ (FG5000 & FG10,000)
Power Up/Down to Flywheel Automatic Grind to Pre-set Depth

- Variable controlled feed
- Will sense overload & reduce feed rate
- Frees up the operator
- Increases productivity
- Reliable electronics

Optional Accessories for FG Flywheel Grinders

Optional 32 Gallon Coolant Tank
- 3-1/2 times the coolant capacity of a standard tank.
- Has two baffles and three settling compartments assuring clean coolant to the nozzle.
- Coolant Tank has handle with 2 wheels — roll away for easy disposal.
- 1/15 H.P., 12 GPM pump is removable for easy cleaning.
- Stainless steel pump shaft provides high torsional strength and is corrosion resistant.
- Requires 2-3/4" drain hole in base cabinet — order optional coolant tank with Flywheel Grinder.

Optional Radius Cutter
The Radius Cutter quickly removes the slight radius left by the grinding wheel on stepped flywheels. In certain applications, the radius interferes with pressure plate mounting. The rugged boring bar removes the radius and produces a square corner. This heavy duty assembly bolts to the grinding head casting. The holes for mounting are already drilled and tapped.

AT P5000 Kit — Transmission Pump & Cover Rebuilding
Rebuild parts to close tolerances fast. The FG 5000/FG 10,000 grinds bodies and covers from the GM THM 700-4R and THM 200-R4 transmissions. Tooling is precise, yet very easy to use. Save time and money by rebuilding these parts in-house!

10K Kits — Top Fuel/Funny Car & Pro Stock Kits
The 10K Clutch Buddy Tooling will resurface flywheels without removing studs, resurface pressure plates, resurface floater plates and resurface clutch discs.
<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>794-8017-39</td>
<td>Hex Wrench, 375 AL</td>
</tr>
<tr>
<td>000-0601-00</td>
<td>Hex Wrench, 25</td>
</tr>
<tr>
<td>794-8107-90</td>
<td>Small Bore Centering Cone Set</td>
</tr>
<tr>
<td>794-8684-78</td>
<td>Flywheel Dowel Pin Puller Kit - Automotive &amp; Import</td>
</tr>
<tr>
<td>794-8685-49</td>
<td>WW/Universal Flywheel Kit</td>
</tr>
<tr>
<td>794-8685-32</td>
<td>Head Tilt Setting Kit</td>
</tr>
<tr>
<td>794-8627-83</td>
<td>Dial Indicator/Indicator Bar Set</td>
</tr>
<tr>
<td>794-8625-27</td>
<td>Radius Cutter Assembly</td>
</tr>
<tr>
<td>794-8107-88</td>
<td>Heavy Duty Universal Centering Cone &amp; Spacer Set</td>
</tr>
<tr>
<td>794-8683-18</td>
<td>Heavy Duty Centering Adapter Set</td>
</tr>
<tr>
<td>794-8684-77</td>
<td>0.7” - 4” Depth Micrometer</td>
</tr>
<tr>
<td>794-8688-34</td>
<td>32 Gallon External Coolant Tank w/Baffles, 230V 60Hz 1 Ph</td>
</tr>
<tr>
<td>794-8690-94</td>
<td>Rinse Nozzle Kit</td>
</tr>
<tr>
<td>794-8688-53</td>
<td>Diamond Dresser Arm w/Diamond</td>
</tr>
<tr>
<td>794-8010-67</td>
<td>Centering Cone Bolt 3.5”</td>
</tr>
<tr>
<td>794-8677-99</td>
<td>Centering Cone Bolt 4.25”</td>
</tr>
<tr>
<td>794-8010-40</td>
<td>Clutch Tooling</td>
</tr>
<tr>
<td>794-8633-33</td>
<td>ATP Automatic Transmission Rebuilding Kit</td>
</tr>
</tbody>
</table>

**GRINDING WHEELS & SUPPLIES**

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>794-8011-16</td>
<td>Grinding Wheel 6” Flared Cup</td>
</tr>
<tr>
<td>794-8011-32</td>
<td>Grinding Wheel 6” Straight Sided</td>
</tr>
<tr>
<td>794-8011-34</td>
<td>Grinding Wheel 6” Flared Cup</td>
</tr>
<tr>
<td>794-8011-36</td>
<td>Grinding Wheel 6” Flared Cup</td>
</tr>
<tr>
<td>794-8013-32</td>
<td>Grinding Wheel 4” Straight Sided</td>
</tr>
<tr>
<td>794-8688-97</td>
<td>3” Wheel Mounting Range</td>
</tr>
<tr>
<td>794-8011-41</td>
<td>Coolant Additive, 1 Gal (3.8 liter)</td>
</tr>
<tr>
<td>794-8011-42</td>
<td>Coolant Additive, 5 Gal (18.9 liter)</td>
</tr>
<tr>
<td>794-8686-97</td>
<td>3” Wheel Mounting Flange</td>
</tr>
<tr>
<td>794-8684-77</td>
<td>0” - 4” Depth Micrometer</td>
</tr>
<tr>
<td>794-8685-32</td>
<td>Head Tilt Setting Kit</td>
</tr>
<tr>
<td>794-8689-53</td>
<td>Diamond Dresser Arm w/Diamond</td>
</tr>
<tr>
<td>794-8690-84</td>
<td>Rinse Nozzle Kit</td>
</tr>
<tr>
<td>794-8688-34</td>
<td>32 Gallon External Coolant Tank w/Baffles, 230V 60Hz 1 Ph</td>
</tr>
<tr>
<td>794-8684-78</td>
<td>Flywheel Dowel Pin Puller Kit - Automotive &amp; Import</td>
</tr>
<tr>
<td>794-8685-49</td>
<td>WW/Universal Flywheel Kit</td>
</tr>
<tr>
<td>794-8685-32</td>
<td>Head Tilt Setting Kit</td>
</tr>
<tr>
<td>794-8627-83</td>
<td>Dial Indicator/Indicator Bar Set</td>
</tr>
<tr>
<td>794-8625-27</td>
<td>Radius Cutter Assembly</td>
</tr>
<tr>
<td>794-8107-88</td>
<td>Heavy Duty Universal Centering Cone &amp; Spacer Set</td>
</tr>
<tr>
<td>794-8683-18</td>
<td>Heavy Duty Centering Adapter Set</td>
</tr>
<tr>
<td>794-8684-77</td>
<td>0.7” - 4” Depth Micrometer</td>
</tr>
<tr>
<td>794-8688-34</td>
<td>32 Gallon External Coolant Tank w/Baffles, 230V 60Hz 1 Ph</td>
</tr>
<tr>
<td>794-8690-94</td>
<td>Rinse Nozzle Kit</td>
</tr>
<tr>
<td>794-8688-53</td>
<td>Diamond Dresser Arm w/Diamond</td>
</tr>
<tr>
<td>794-8010-67</td>
<td>Centering Cone Bolt 3.5”</td>
</tr>
<tr>
<td>794-8677-99</td>
<td>Centering Cone Bolt 4.25”</td>
</tr>
<tr>
<td>794-8010-40</td>
<td>Clutch Tooling</td>
</tr>
<tr>
<td>794-8633-33</td>
<td>ATP Automatic Transmission Rebuilding Kit</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>FG5000</th>
<th>FG10,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work Piece Capacity</td>
<td>24” (600 mm)</td>
</tr>
<tr>
<td>Table Diameter</td>
<td>18” (450 mm)</td>
</tr>
<tr>
<td>T Slots in Table</td>
<td>6</td>
</tr>
<tr>
<td>Table Support Diameter</td>
<td>15” (381 mm)</td>
</tr>
<tr>
<td>Column Diameter</td>
<td>4.44” (111.8)</td>
</tr>
<tr>
<td>Vertical Head Travel</td>
<td>8.75” (222.3 mm)</td>
</tr>
<tr>
<td>Max Height Table Wheel</td>
<td>8.75” (222.3 mm)</td>
</tr>
<tr>
<td>Grind Motor @ RPM</td>
<td>5 hp</td>
</tr>
<tr>
<td>Table Motor @ RPM</td>
<td>1 HP (233 kW)</td>
</tr>
<tr>
<td>Coolant Capacity, Standard</td>
<td>9.5 Gal (36 liters)</td>
</tr>
<tr>
<td>Coolant Capacity, Optional</td>
<td>32 Gal (121.1 liters)</td>
</tr>
<tr>
<td>Height (Overall)</td>
<td>69” (1752 mm)</td>
</tr>
<tr>
<td>Height (To table)</td>
<td>34.5” (878 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>34.5” (878 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>36” (914.4 mm)</td>
</tr>
<tr>
<td>Net Wt</td>
<td>1350 Lbs. (612.4 kg)</td>
</tr>
<tr>
<td>Ship Wt</td>
<td>1500 Lbs. (680.4 kg)</td>
</tr>
</tbody>
</table>