



Industrial Contractors' Supplies, Inc.

- Dust Director Division -

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21" Propane Grinder / Burnisher



\$6,900.00

#PE420GPHD

Versatile, Compact, Portable —

One Machine. One Solution.

Handles 95% of Restoration & Maintenance Projects:

- HD Grinding
- Light Sanding
- Rip'n Tear Coating Removal
- Cleaning, Scrubbing
- Polishing, Burnishing

✳ SMARTER ✳ FASTER ✳ EASIER ✳ BETTER ✳

Grind 11,000 ft²/hr on an open floor to manageably handle the machine when the project is down a set of basement stairs.

For use on any type of Hard Surface:
Concrete, Terrazzo, Stone, VCT

PE420GPHD - Grinder, Polisher & Burnisher. Specifically designed with High Torque (belt driven) and the necessary HD Power to take on Heavy Stock & Coatings Removal Projects. Additionally, its "fine" Head Pressure Adjustment Feature actually does preserve a harden trowel finishes.

Maneuverability, Flexibility and High Production Output. A complete range of diamond tooling is available: Easily switch from one application to the next as you change between Metal, Semi-Metal, Resin, PCD and Diamond Impregnated Cleaning and Polishing Pads.

The tooling compliments the *absolute* Best Driver Technology in the Industry: Everyone always comments on the smooth and uniform finished results - regardless of the floor type or application (grinding, coatings removal, polishing).

Boosting an 18 HP Kawasaki Engine, HD Gear Box and the Flex-Hub Driver that automatically adjusts the metal driver or pad to the floor surface for maximum effect (which reduces the number of passes). The PE420GPHD is Fast, Efficient and Extremely Easy to Operate:

2-Speeds: 1000 RPM for Grinding, Coatings Removal; 1500 RPM for Polishing & Burnishing. Additional Features: Combination vacuum dust and splash guard, on-board water supply, adjustable rear wheels, removable head weights, Guidance Power System provides 34% *lower* operational costs than any other machine in its class



✧ FEATURES ✧ SPECIFICATIONS ✧

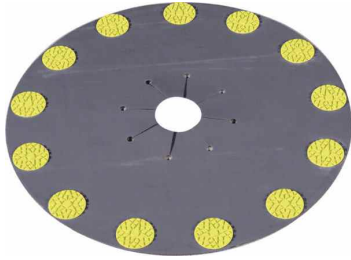
- 12 volt on-board battery starter
- 7 gallon on board water supply
- "Above pad" water dosing for even floor wetting & prevention of wetting walls and merchandise plus integral skirt for further splashing protection
- Tilt back design for easy diamond and pad changing
- Easy access to filters for quick maintenance
- HD "steel" Diamond Driver for 3" Diamonds
- HD "spike" Pad Driver for 21" Std., DIP & DOT Pads
- Adjustment of Head Pressure - 3 Separate Ways: Weight Plates (5), Rear Wheels, 2-speeds (1000 & 1500)

- Grinding / Polishing: 11,000 ft²/hr, Burnishing: 25,000 ft²/hr
- Driver Size: 21", Width: 22.75", Vibration: < 2.5m/s²
- Noise Level: 89 dBA, Weight: 380 lb.
- Propane power eliminates cords, pigtailed, having to make a friend with an electrician, or having to purchase a pull-along generator for this size of machine
- Powerful 18 HP Propane 603cc Kawasaki engine runs clean and efficient, extending engine life vs. any other engine
- 3-way catalytic muffler lowers CO, HD and Nox emissions plus monitoring to protect the operator by

Diamond Tooling for the PE420GPHD Grinder, Polisher, Burnisher

21" RUBBER MATT DIAMOND DOTS - For light grinding, sanding, coatings removal, polishing. These brazed, semi-metal and resin pads provide the longest diamond life in the industry. The Rubber Matt DOTS along with the Diamond Impregnated Floor Pads preserve the thin layer of harden, troweled and dense concrete.

- Deep cutting, most aggressive diamonds - Easily removes scratches and imperfections
- DOT Pads provide the deepest and longest lasting polish
- Longest lasting diamond, lowest cost per square foot (10,000 - 65,000 ft²)
- Vacuum Brazed, Semi-Metal & Resin Bonds with available grits from 30 - 3000
- For Concrete, Terrazzo & Marble Floors



Semi-Metal DOT - Medium Aggressive. For the Initial to Secondary *Grinding* of New or Previously Unfinished (but smooth) Hard Floors.

- 30 Grit (Lime), DOT-30S \$248.00
- 50 Grit (Green), DOT-50S \$248.00
- 100 Grit (Black), DOT-100S \$248.00
- 200 Grit (Red), DOT-200S \$248.00
- 400 Grit (Mustard), DOT-400M \$248.00

Resin DOT - Least Aggressive. For the Initial to Final *Polishing* of Smooth Floors.

- 400 Grit Resin (Yellow), DOT-400Y \$215.00
- 800 Grit Resin (White) - Achieves initial gloss levels of concrete floors during regular maintenance.
DOT_800W \$215.00
- 1800 Grit Resin (Blue) - Achieves higher gloss levels of concrete floors during regular maintenance.
DOT-1800B \$215.00
- 3000 Grit Resin (Gray) - Achieves the highest gloss level. DOT_300G \$215.00

Vacuum Brazed DOT - Very Aggressive. For Coating Removal or to Level Broom Finished or Damaged Concrete Floors. Prepares surface for floor coating by etching surface.

- 50 Grit (Black), DOT-30B \$378.00
- 100 Grit (Black), DOT-100B \$378.00

21" BACKING / CURING PADS -

• High Density Backing Pad (White). This high density pad is placed between the Rubber DOT Pads and the Rigid Spike Pad Driver (included with machine) to provide cushion. The white pad is also used as the softest pad available to gently burnish soft finishes to a high shine.
#PD3LWL21 (5 Pk) \$30.00

• High Temperature (HT) Power Polish Pad (Tan) - For use with Shine-On Iron Shield & Stellar Guard Treatments. This "curing" pad is used to improve heat build-up for a faster, higher gloss during high speed burnishing.
HT2100 - 5 Pk \$108.00




3" METAL & PCD DIAMOND PUCKS - Unlike similar propane polishers and

burnishers, the design of the **PE420GPHD** isn't just to "preserve the thin layer of harden, troweled and dense concrete." Besides its "fine adjustment features" for "head pressure" (that actually does preserve the harden trowel finish) the design principal of the PE420GPHD is for Heavy-Duty and High Torque Power for Heavy Stock & Coatings Removal.



Likewise, the GPX Steel Diamond Driver enables you to use 3" Metal and PCD Diamonds to level floors, grind "beyond the damage", and to slice through heavy and difficult to remove coatings & sealers — using **this Compact but Extremely Powerful & Versatile One Solution Machine.**

 <p>GPX Driver</p>	 <p>Installing 3" Metal Diamonds</p>	 <p>Installing 3" Metal Diamonds</p>	 <p>3" PCD for Coating Removal</p>
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<p>3" x 9mm Metal Diamonds - 6 per GPX Driver - HD Grinding</p>			
<ul style="list-style-type: none"> • Dry or Wet Use for Concrete, Granite, Marble, Terrazzo – Long Life, Aggressive Grinding • Medium Bond - XL Life (30,000 - 50,000 sq. ft.) - Exceptional Quality & Life ~ Professional Grade • For use on hard troweled surfaces, broom finishes, damaged floors, epoxy and mastic covered floors • NOTE: Metal diamonds are and must be retained with bolts (included) to the driver to prevent them from being thrown from the machine. 			

GP316	16 Grit	\$80.00	GP330	30 Grit	\$95.00	GP370	70 Grit	\$95.00	GP3120	120 Grit	\$95.00
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<p>3" PCD Puck - 6 per GPX Driver - Rip'n Tear Coating Removal</p>			 <p>P/N: PCDPR01 Price: \$98.00 ea</p>
<ul style="list-style-type: none"> • Dry Use – Fast efficient removal of coatings, adhesives, tar, paint, epoxy & acrylic coatings & sealers, etc. • Long Life - PCD Segment are compressed diamonds that are by designed harder than traditional construction diamond. Thus, instead of grinding they are used to slice beneath the coating type materials to remove the material instead of grinding it which produces friction heat that causes the material to melt. • For use on hard troweled surfaces, broom finishes, damaged floors, etc. 			

21" DIAMAPADS - If the floor is considered Stage 2 (smooth, minimal or no scratches, just worn *badly* or dirty), **DiamaPads** may be the easiest, simplest, safest and fastest diamond for you to start, finish and to *maintain* a **Polishing Floor** (remember, you only want to grind just beneath the damage and DiamaPads help you from possibly grinding too much.)

From 100 to 8000 grit, DiamaPads provide exceptional performance and durability - Outperforming & Outlasting any other DIP by at least 3:1. As long as the surface has been prepped and is smooth (no broom finishes, coatings, deep scratches), DiamaPads will not only **Sand & Polish** but you'll be able to use the same pads to maintain the floor's cleanliness and shine.

And if an existing polished surface has lost its luster, DiamaPads are the diamond product to try before using a more aggressive Resin or Semi- Metal diamond to restore the floor's finish. **And once restored, DiamaPads are the maintenance pad to use to make use that losing the sheen doesn't happen again AND IT SHOULDN'T!**



<p>DiamaPads - Work twice as fast as competitive pads (normally only requiring 4-5 passes per grit) and last 3 times longer.</p>							
<p>Pad Diameter</p>	<p>Black 100 Grit</p>	<p>Orange 200 Grit</p>	<p>Coarse 400 Grit</p>	<p>Blue Medium 800 Grit</p>	<p>Yellow Fine 1500 Grit</p>	<p>Green 3000 Grit</p>	<p>Tan Ultra Fine 8000 Grit</p>
<p>21"</p>	<p>\$63.00 #DPB-21</p>	<p>\$63.00 #DPO-21</p>	<p>\$63.00 #DPR-21</p>	<p>\$56.00 #DPU-21</p>	<p>\$56.00 #DPY-21</p>	<p>\$56.00 #DPG-21</p>	<p>\$66.00 #DPT-21</p>

Understanding the Polishing Process

Which Diamond Tooling to Use for Each Step in Restoring a Floor's Finish

Diamond Grinding & Polishing are terms used to describe certain processes involved in Prepping, Transforming and Polishing a Concrete Surface. Before you Polish you may have to Grind, and before you Grind you may have to **Prep the Floor** which includes removing Old Floor Coverings, Underlayments, Thinset, Glue, Paint, Adhesives or Epoxy Coatings.

After the floor has been prepped, you proceed to **Transform the Floor** by Diamond Grinding. **Diamond Grinding** is the most aggressive stage of preparing concrete for polishing or applying epoxy coatings, stains or dyes. **Metal Bond Diamond Discs** are used to cut or grind down concrete. NOTE: After any Prepping, you only want to grind enough concrete to be just beneath the damage that is on the floor. Grinding too much concrete is unnecessary and is costly for both material and labor.

Depending on the initial condition of the floor, **Transitional or Semi-Metal Diamond Pads** are used. Transitional Pads actually start the polishing process as they begin to close the pores of the floor. Transitional Pads are generally used before Resin Pads or after rough grinding with Metal Bond Diamond Discs. Transitional Pads offer all the benefits of a Smooth Resin Pads but the advantages of longer life and the aggressiveness associated with Metal Bond Discs. After rough grinding with Metal Bond Discs the scratch pattern cannot typically be removed by a Resin pad, Transitional (Semi-Metal) Pads resolve this.

Diamond Polishing is the term used when **Resin Bond Diamond Pads** are used. After the surface has been totally cleaned and smooth, Resin Bond Diamonds are used. While Resin Bond Diamonds are designed to abrade the scratches left from Transitional or Semi-Metal Diamond Pads, if the floor is clean and smooth they may be used to start the polishing project.

With the diamonds exposed on the surface of a Resin Bond Diamond, deep scratches are quickly sanded away by the diamonds that are suspended in the plastic matrix. The plastic matrix is what gives the resin pads their less aggressive nature or polishing capability. While it is true you can hone with a coarse resin pad, they are not really designed for this task as they will quickly wear under this circumstance. As you progress through the series of Resin pads, increasing to the finer grits, the pores of the concrete are progressively closed to ultimately result in a mirror-like finish.

The multi-step process provides you with the flexibility to choose how many steps you want to achieve the desired finish. Typically, you start with a 50 coarse grit and proceed as you would with your regular floor cleaning routine. After a few passes, you progress to the next grit. By the time you reach the end of the process, the floor will transform into a beautiful, smooth and polished surface.

The multi-step process provides the flexibility for you to decide how many steps you want. Depending on the type of floor and its initial condition, as well as the machine's down pressure and speed, the progression to finer grits, and the number of passes you make with each grit depends on the level of gloss you wish to obtain.

Each **Grit** of the above **Diamond Types** has its purpose. There are three basic finishes for polished concrete surfaces:

Low-Stain Finish (400 - 600 grit) * Medium-Gloss (800 grit) * High-Gloss (1500 -3000 grit)

Complimentary Products: 2-Speed ECS Automatic Scrubbers

Transforming or installing a harden and polished surface takes know-how, machines, equipment and time. But once installed, maintaining any polished surface is relative easy and inexpensive, but it has to be done.

FACT: After a floor has been polished (concrete, marble, VCT) it's shine will nose dive within 30 days if not regularly cleaned and polished.

CONTRACTORS! After all of your hard work and effort of transforming an old, worn and damaged floor into a beautiful piece of art, are you walking away from business and leaving an outside cleaning company the easy and *profitable* work of maintaining *your* work of art? **CONSIDER THIS:** You have all the equipment, supplies and knowledge and no one knows that particular floor better than you. You simply have to bring it to the owner's attention that the floor needs maintained - Regularly if not daily - And it might as well be you to pick up the easy and extra business.

