

Factory photo in Next Level colors, shown without the standard doors and back panel

PHOENIX

3-axis CNC stone surface polisher

PRODUCT OVERVIEW

Phoenix hones, polishes and textures the face of slabs and countertops by CNC. A 20-megapixel camera finds every piece on the table, and an automatic tool changer picks from 20 grinding heads: 10 ride on the bridge, 10 wait in a floor magazine. One standard machine: galvanized, with doors, back panel and a tilting table.



Polishing head on the bridge



Touchscreen CNC console

20 heads
10 on the bridge + 10 on the floor

20 MP
Vision positioning

Galvanized
Hot-dip frame, doors, back panel

Tilting
Worktable

KEY SPECIFICATIONS

Worktable, max. slab	141¾ × 86⅝ in (3,600 × 2,200 mm)
Slab thickness	⅜–15¾ in (10–400 mm)
X / Y / Z travel	149⅝ / 102⅜ / 23⅝ in (3,800 / 2,600 / 600 mm)
Axis speeds	X, Y 98 ft/min; Z 20 ft/min (30 / 30 / 6 m/min)
Grinding heads	Ø 7⅞–11¾ in (200–300 mm)
Main motor	10 HP (7.5 kW); 15 HP (11 kW) on request
Measuring	Automatic slab thickness
Control	Touchscreen industrial PC
Electrical cabinet	Sealed, with industrial air conditioner
Materials	Quartz, quartzite, marble, granite, porcelain, sintered stone

TWENTY HEADS, STANDARD

Every Phoenix carries both head sets: marble and brush heads on the bridge, granite and bush-hammer heads in the floor magazine, so a change of stone needs no manual head swap.

IDEAL APPLICATIONS

- Repairing scratched or dull slabs and countertops.
- Honed (matte), polished and leathered finishes.
- Bush-hammered textures on granite.
- Kitchen countertops, tombstones and decorative panels.

STANDARD EQUIPMENT

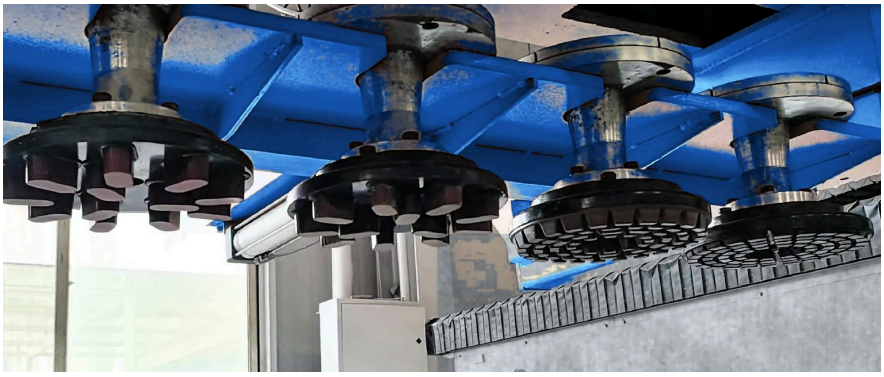
- Two head sets, 20 heads in all.
- A set of abrasives to start.
- Doors, back panel and tilting table.
- Vision software with Wi-Fi remote support.

BEFORE YOU ORDER

Tell us the stones you polish most, so the head sets and abrasives match your work, and confirm your 3-phase voltage.

TWENTY HEADS. CHANGED AUTOMATICALLY.

Ten heads on the bridge, ten in the floor magazine, all standard.



Tool changer on the bridge

Grinding heads hang in their positions along the bridge, next to the polishing spindle. The machine changes heads by itself in the order you set for the stone. The floor magazine holds the second set of 10.

On the bridge	Thickness-measuring head, 8 marble heads, brush head
Floor magazine	8 granite heads, bush-hammer head, spare position
Quartzite	12 heads recommended
Marble, granite	8–10 heads recommended



Grinding head holder.

Each abrasive disc sits on its own holder: Ø 270 mm discs carry the chevron grinding blocks, the Ø 200 mm disc carries the bush-hammer rollers.



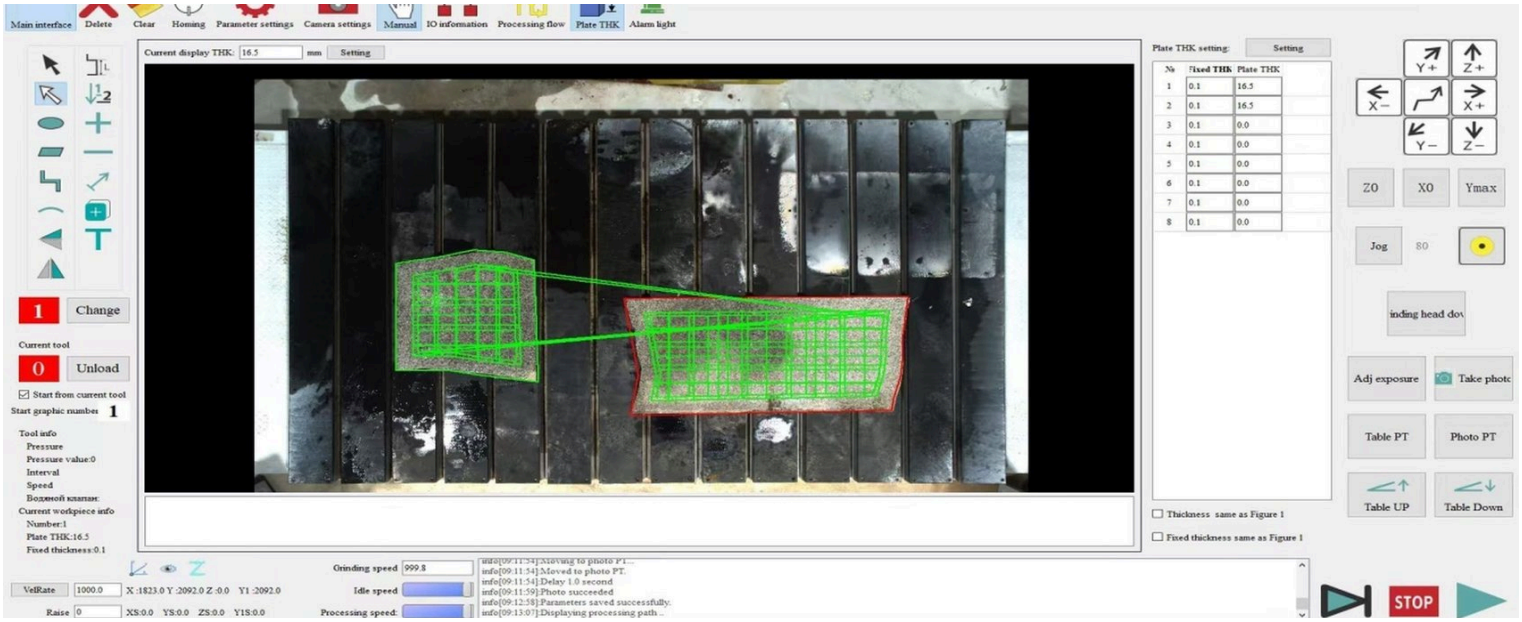
Pressure by stone type.

Regulators and gauges on the head set the air pressure of the polishing cylinder; the software selects the setting that suits soft or hard stone.

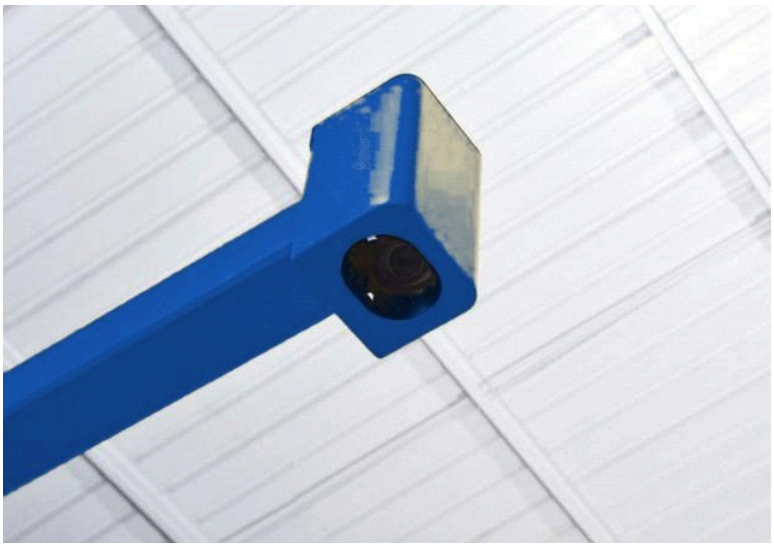
Photos: Phoenix tool changer, head holder and pressure panel (factory photos, shown in Next Level colors).

FIND THE SLAB. POLISH THE SLAB.

Vision positioning, automatic thickness measurement, remote support.



The camera outlines each piece on the table; the software then sets the polishing path for every slab (machine software screen).



20 MP camera above the table

The high-definition camera identifies and positions the outline of every slab on the worktable. Place several pieces freely: after one photo they are polished in the same run.

1. Photo	Camera captures every slab outline
2. Program	Select the heads and the polishing paths
3. Run	Start; heads change automatically

Thickness measured first

The thickness-measuring head reads each slab before polishing, from ⅜ to 15¾ in (10–400 mm).

Remote support

The industrial computer connects by Wi-Fi: technicians transfer files, update the software and troubleshoot remotely.

Software screens and camera: factory photos of the Phoenix vision system.

HONED, POLISHED OR TEXTURED.

One machine, from rough grinding to a mirror finish.

ABRASIVE SEQUENCE

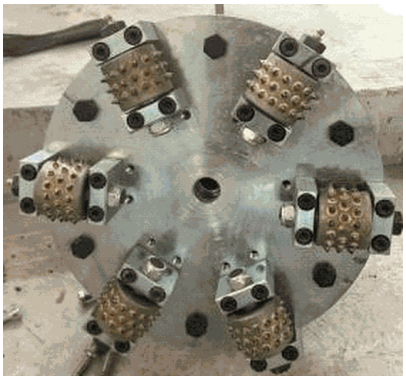
Factory processing reference for the chevron grinding blocks (grit: purpose).

50	100	200	400	600	1000	2000	3000
Rough grinding, leveling	Scratch removal	Fine grinding	Semi-gloss	Gloss build-up	Pre-polishing	High gloss	Mirror gloss



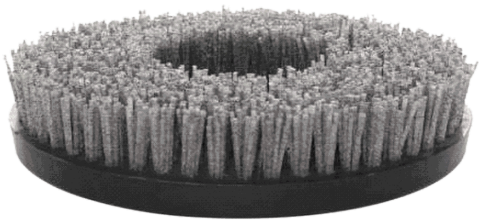
Chevron grinding blocks.

Diamond blocks for the Ø 270 mm discs, coded by grit.



Bush-hammer disc.

Ø 200 mm disc for bush-hammered (textured) granite.



Brush head.

Abrasive brushes for antique and leathered finishes.

FACTORY TESTS



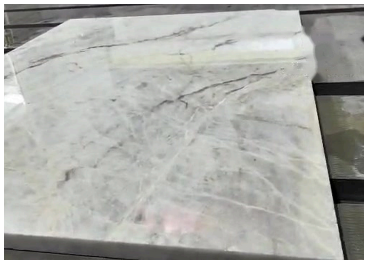
Grinding head working a granite slab, wet



Granite, matte finish



Granite, polished: the hall reflects in it



Quartzite, scratches repaired and polished

Results depend on the stone, the abrasive sequence and the pressure setting. Test photos: frames from the factory's Phoenix processing videos. Abrasive photos: factory catalog.

SIZE IT UP

3D model view of the standard Phoenix with doors and back panel: overall size.



SIZE AND WEIGHT

Width with doors	16 ft 0⅞ in (4,900 mm)
Weight	12,125 lb (5,500 kg)

UTILITIES

Total power	13.5 kW
Water	13.2 GPM (3 m³/h)
Water pressure	29–44 psi (2–3 bar)
Compressed air	87–102 psi (6–7 bar)

SHIPPING

Container	40 ft high-cube; two machines share one container

SITE. INSTALLATION. TERMS.

Plan the installation before the machine arrives.

SITE REQUIREMENTS

- Level concrete floor with clear access, operating space and service space around the machine.
- Offloading, rigging and final placement (forklift or crane) are by the customer unless the quotation says otherwise.
- A licensed electrician makes the final power connection; you provide water, drainage and compressed air.
- The electrical build for your 3-phase, 60 Hz supply is confirmed on the order.

INSTALLATION AND TERMS

- Installation, operator training and warranty terms are stated on your Next Level quotation.
- Site and utilities must be ready before the technician arrives.
- Abrasives beyond the included set, and other consumables, are not included.
- Final configuration, electrical build and delivery are confirmed in writing at order.

Questions, or ready for a written quotation? **+1 941-900-3018** · **sales@nextlevel.plus** · **nextlevel.plus**

3D model view: Next Level illustration of the standard configuration, not a photograph. Dimensions: factory catalog figures for the machine with doors; the tilting-table drawing is confirmed at order. Budgetary equipment information. U.S. and metric values appear together; added conversions are approximate. This sales document does not replace the delivered manual, drawings or safety labels.