

HELIX ^{NEW}

PLANETARY GRINDER

M2000



Features

Designed for small jobs and tough-to-reach spaces, this 16-inch planetary grinder creates the perfect profile for new coatings. This easy-to-operate machine features an edge grinder, dual speed operation, an adjustable handle, and a floating dust skirt for maximum efficiency.

- A. Full adjustable handle accommodates a range of operating positions
- B. Quick-release levers allow the machine to be separated into two pieces for easy transport
- C. Capable of edge grinding on the left or right side of the machine by rotating the side of the dust skirt up, allowing the operator to grind within a half inch of the wall
- D. Removable front weights give the operator freedom to increase or decrease head pressure when grinding
- E. 16-inch grinding plate incorporates a floating tooling assembly that allows the cutting head to follow the contours of the floor; the tooling assembly rotates 180 degrees for easy tooling changes
- F. LED light illuminates the surface directly behind the machine, making it easy to create a uniform scratch pattern on the floor
- G. Dual-speed motor increases the versatility of this machine; operating at high or low speed

Included with the HELIX

- 402761 Magnetic tooling holder
- 9245 Velcro adapter (3 each)
- 403162 Floating dust skirt
- 402757 Tooling assembly
- 403223 Operating manual
- 403315 Service manual



HELIX Specifications

Width	17.5"	44.5 cm
Disk Size	16"	41 cm
Max. Height	47.6"	120.9 cm
Min. Height	29.4"	74.4 cm
Max. Length	47"	119.4 cm
Min. Length	27.9"	70.9 cm
Weight	206 lb	93 kg
Grinding Pressure	128 lb	58 kg
Drum RPM	High speed: 291/163 (for 60 Hz) Low speed: 243/136 (for 50 Hz)	
Motor RPM	High speed: 3200/1800 (for 60 Hz) Low speed: 2667/1500 (for 50 Hz)	
Motor Phase	Single	
HP	1.5	
Amps	120 V/60 Hz/ 12 amps	230 V/5 Hz/ 6.3 amps
Amps	15 or 20 – controller can switch between both settings	

Recommended Accessories

We recommend pairing your Helix planetary grinder with the DL2000 dust collector and DLS2000 pre-separator.

DL2000 DUST COLLECTOR

M5001



Features

The new DL2000 is precisely engineered, contractor tested, and designed with the highest control calibrations on rugged steel frames with washable integrated filters. These filters are simply maintainable and reinforced in a sturdy float-and-flow system. The dust collector exceeds HEPA's standards and is equipped with a Longopac bagging system.

- A. Individually tested HEPA filter with a minimum efficiency of 99.995 percent at 0.14 microns; a rugged steel frame provides support during transport and use
- B. Primary filter
- C. State-of-the-art telescoping side arms for a highly portable machine that can be packed away easily for storage, or expanded for use
- D. Heavy-duty, anti-static collection hose provides durability and safety

Included with the DL2000

- Anti-static hose dust collection hose
- Wand
- Floor tool attachment

Recommended Accessories

- 402473 Longopac bagging system replacement. Sold in a 4-pack.

DL2000 Specifications

Width	22"	56 cm
Height	51.2"	130 cm
Length	20.9"	53 cm
Weight	121.6 lb	37 kg
Voltage	115	
Hz	60	
Vacuum Pressure	88.6" H ₂ O	2.25 m H ₂ O
Air Movement	206 CFM	350 m ³ /hr
Filter Area	32.3 sq ft	30,000 sq cm
Filter Efficiency	99.995 @ .18 microns	
Noise Emission (dBA)	75	
Inlet	2"	50 cm



DL2000: PRE-SEPARATOR

M5006

Capture the majority of dust and debris prior to it reaching your dust collector filters. This unique addition greatly extends the life of your dust collector filters and allows for extended running time, increasing your production while saving money and time on filter replacement. Designed on casters so that it can easily move with your surface preparation equipment.

PLANETARY GRINDER TOOLING ACCESSORIES

PCDS AND CARBIDES

Designed for aggressive concrete stock removal as well as coatings, glues, mastics, and other floor covering adhesives. PCDs and carbides can be used with all National planetary grinder machines.

Part #	Description	Best Uses
9555	2-UP PCD- MICRO	Removes heavy stock, adhesive, and epoxies
9557	4-UP PCD- MICRO	
9554	1-UP PCD- 1/2 ROUND	
9556	2-UP PCD- 1/2 ROUND	
7268-2	CARBIDES	Removes coatings, glues, and thin mastics
9521	CARBIDE & TOOLING HOLDER	Use to attach the above tooling to National grinders
9550	SCREW	Use to attach tooling to the above holder



METAL BOND DIAMONDS

Used for light, medium, and aggressive concrete grinding and profiling as well as sealer and top coat removal. Can be used for both residential and industrial applications. Perfect for leveling concrete high spots and repairing imperfections as well as creating the perfect profile for accepting new coatings and epoxies, or preparing concrete for polishing. Metal bond diamonds can be used with all National planetary and passive planetary grinders.

Part #	Description	Best Uses
FULL BAR DIAMOND INSERTS		
9508-16	16 GRIT	Removes epoxy as well as heavy and light sealers
9508-16SB	16 GRIT	Removes various coatings, and profiles on HARD concrete only
9508-30	30 GRIT	Removes light sealers
9508-30SB	30 GRIT	Removes various coatings, and profiles on HARD concrete only
HALF BAR DIAMOND INSERTS		
9507-6	3 GRIT	Removes thin epoxy, paint, adhesives, and sealers
9507-12	12 GRIT	Removes thin epoxy, paint, adhesives, and sealers
9507-16	16 GRIT	Removes thin epoxy, paint, adhesives, and sealers
9507-16HB	16 GRIT	Removes various coatings, and profiles on SOFT concrete only
9507-30	30 GRIT	Removes sealers and preps concrete for polishing
9507-30HB	30 GRIT	Removes various coatings, and profiles on SOFT concrete only
PROFILING DIAMOND INSERTS		
9510-30	30 GRIT	Preps high-/moderate-density concrete for reapplication
9510-50	50 GRIT	Preps concrete for polishing
9510-120	120 GRIT	Preps concrete for polishing
SUPER SEGMENT DIAMOND INSERTS		
9504-25	25 GRIT	Extremely aggressive coating removal with supersoft matrix for hard concrete or heavy cure and seal treatments



PLANETARY GRINDER TOOLING AND ACCESSORIES

BRAZED TRAPEZOID DIAMONDS

Used primarily in light industrial and residential applications for concrete grinding and profiling as well as sealer and top coat removal. Provide excellent surface profiles for new coatings, epoxies, or stains. Also create exceptional profiles for concrete preparation and restoration prior to polishing concrete. Brazed trapezoids can be used with all National planetary grinders.

Part #	Description	Best Uses
9522-16	16 GRIT	Removes paint, stain, and sealers; preps concrete for reapplication
9522-30	30 GRIT	Preps concrete for reapplication and polishing
9522-50	50 GRIT	Preps concrete for reapplication and polishing
9522-100	100 GRIT	Preps concrete for polishing



5-INCH BRAZED DIAMONDS

Used primarily in industrial applications for medium to aggressive concrete grinding and profiling as well as sealer and top coat removal. Perfect for concrete preparation and restoration prior to concrete polishing. In addition, brazed diamonds effortlessly remove stains and imperfections from exterior wood decking while simultaneously profiling wood for receiving new stains and/or sealers. These polishing pads are for use with all National planetary grinders, except for the 92650.

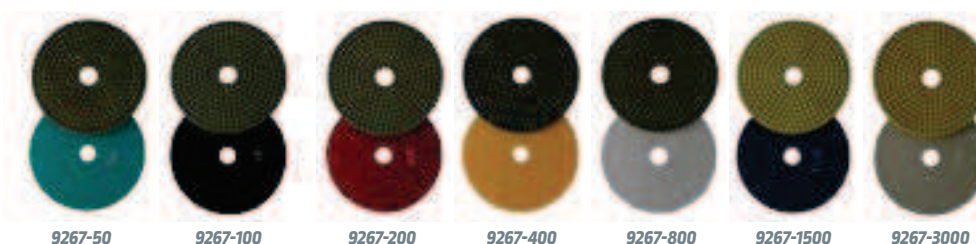
Part #	Description	Best Uses
9235-16	16 GRIT	Removes thin epoxy, paint, stain, adhesives, and heavy sealers
9235-30	30 GRIT	Removes adhesives, heavy and light sealers
9235-50	50 GRIT	Creates a "broom finish" on soft concrete surfaces; first stage to polishing concrete
9235-100	100 GRIT	Creates a "broom finish" on soft concrete surfaces; first stage to polishing concrete



5-INCH POLISHING PADS

Used for polishing concrete to various finishes and shines. Resin bond. Available in escalating grits. These polishing pads are for use with all National planetary grinders, except for the 92650.

Part #	Description	Best Uses
9267-50	50 GRIT	Achieve a "no reflection" polished concrete
9267-100	100 GRIT	Follows 9267-50 to create a "little reflection" polished concrete
9267-200	200 GRIT	Follows 9267-100 to create a "moderate reflection" polished concrete
9267-400	400 GRIT	Follows 9267-200 to create a "satin reflection" polished concrete
9267-800	800 GRIT	Follows 9267-400 to create a "shine" polished concrete
9267-1500	1500 GRIT	Follows 9267-800 to create a "high shine" polished concrete
9267-3000	3000 GRIT	Follows 9267-1500 to create a "mirror" polished concrete





402757 HELIX GRIND AND SCRAPE PLATE

The Deluxe Grind and Scrape Plate is the most versatile prepping plate in the industry. This magnetic tooling system converts from aggressive grinding and scraping to passive planetary for diamond grinding, carbide/PCD scraping, polishing, and sanding. The Morflex couplers allow the plate to follow the contour of the floor.

- Fits the Helix
- Rigid plate mount allows for aggressive grinding and scraping
- Passive planetary tooling creates random scratch pattern
- Polishes and sands without leaving swirl marks
- Morflex couplers reduce the shock to the operator and the machine
- Follows the contour of the floor for uniform operation in low spots
- For use with machines large enough to accept a 16-inch plate with a standard 3¼-inch hub
- Converts from grinding to scraping to polishing to sanding in seconds
- Includes three satellite plates that are easily attachable/detachable with cotter pins
- Has a locking knob that makes the mounting/dismounting of the plate quick and easy

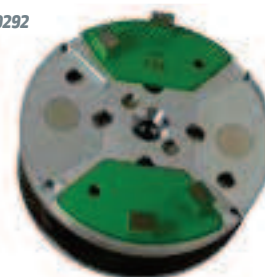
9292 FLOATING HEAD ASSEMBLY

Improve machine performance, reach low spots, and level high spots by following surface undulation.

- Fits the 8274-4
- Tooling flexes for a uniform and consistent scratch pattern
- Tooling plates attach directly onto mounted floating assembly
- Accommodates all magnetic tooling types, including carbides and PCDs, 5-inch resin polishing pads, 5-inch brazed diamond disks, magnetic diamond tooling, and brazed diamond trapezoids
- Three assemblies required



9292



73250 TOOLING HOLDER MOUNTING SCREW

73214 FLOATING ISOLATOR ASSEMBLY MOUNTING SCREW

401882 MORFLEX COUPLER



401882



8270 CONCRETE HARDNESS TESTER

Unlike other mineral hardness testing tools, the 8270 is made of metals and alloys of hardness values equal to 2 through 9 on the Mohs hardness scale, so they can be easily ground to sharp points that will not break off. Set includes 8 points, streak plate for testing color, hardness plates (3.5 and 5.5), magnet for detecting magnetic rock, grindstone to keep points sharp, hardness tables, and instructions, all in a compact wooden case.

3-INCH HYBRID RESIN/METAL PADS

Long-lasting and ideal for heavier machines, the unique diamond grit provides more aggressive stock removal than traditional pads with a more subtle scratch pattern. A radial edge allows for smooth riding over lippage and joints.

- 9296-30: 30-grit hybrid resin/metal pad
- 9296-50: 50-grit hybrid resin/metal pad
- 9296-100: 100-grit hybrid resin/metal pad
- 9296-200: 200-grit hybrid resin/metal pad



Hybrid Resin/Metal

3-INCH RESIN POLISHING PADS

Long-lasting and ideal for heavier machines, resin pads create a high-gloss finish. A radial edge allows for smooth riding over lippage and joints.

- 9298-50: 50-grit resin polishing pad
- 9298-100: 100-grit resin polishing pad
- 9298-200: 200-grit resin polishing pad
- 9298-400: 400-grit resin polishing pad
- 9298-800: 800-grit resin polishing pad
- 9298-1500: 1500-grit resin polishing pad
- 9298-3000: 3000-grit resin polishing pad



Resin