

Dynabrade Air-Powered Pencil Grinders

Precision Deburring and Finishing on a Variety of Surfaces



- Ideal for Use on Tooling, Dies, Molds, Production Parts
- Pencil-Type Shape Provides Easy Grip and Firm Control
- Speeds from 25,000 RPM to 100,000 RPM



Dynabrade Pencil Grinder Family

Dynabrade's high-quality Pencil Grinders power optional carbide burrs and mounted points, for precision deburring, engraving, deflashing, etching, cleaning, finishing and more. Combining ergonomic design with Dynabrade durability, these lightweight tools are essential for use on tooling, dies, molds, production parts, medical implants, investment castings, jewelry, auto/aerospace parts and more!



Rotary Vane Air Motor Models 25,000 RPM

- An ideal tool for use in casting houses, effective on cast parts of aluminum, bronze and brass. Quickly and efficiently removes gates and parting lines in cast parts.
- High-efficiency rotary vane-style air motor.
- Adjustable tool speed from 5,000 RPM to 25,000 RPM.
- Operate tool and adjust speed by simply rotating rear black cover.
- Tactile grip on shaft end allows fingertip control, and alerts operator to rotating collet area.
- Changing of attachment is achieved with easy, two-wrench maneuver.
- Unique housing shape allows tool to be held as a traditional Die Grinder.

Model 52861
1/8" Collet

Model 52862
3 mm Collet

Model 52863
1/4" Collet

Model 52864
6 mm Collet



52898 Thread Guard

Optional Thread Guard allows easy access to collet cap. With Thread Guard in place, larger diameter accessories may be run by tool. (All accessories must have maximum operating speed of 25,000 RPM).



Model Number	Motor hp (W)	Collet Size	Motor RPM	Exhaust	Maximum Air Flow CFM/SCFM (LPM)	Air Pressure PSIG (Bar)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Weight Pound (kg)	Length Inch (mm)	Diameter Inch (mm)
52861	0.4 (298)	1/8"	25,000	Rear	1/20 (566)	90 (6.2)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52862	0.4 (298)	3 mm	25,000	Rear	1/20 (566)	90 (6.2)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52863	0.4 (298)	1/4"	25,000	Rear	1/20 (566)	90 (6.2)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52864	0.4 (298)	6 mm	25,000	Rear	1/20 (566)	90 (6.2)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)

Turbine-Driven Air Motor Models

- High-efficiency air motor has no wearable gears, vanes or blades. Oil-free operation minimizes maintenance time and repair costs.
- Air motor is controlled with patented governor, providing constant tool speed under load.
- Quality high-speed bearings are included.
- Housing has “non slip” rubber grip for additional control.
- Tactile cues on shaft end alert operator to rotating collet area.
- Changing of attachment is achieved with easy, one-wrench maneuver.
- Includes high-quality flexible air hose.

35,000 RPM with RED Tool Cap

Model 51706
1/8" Collet

Model 51756
1/8" Collet, Extension Model

Model 51707
3 mm Collet

Model 51708
3/32" Collet

Model 51756
Extension Model
provides additional reach.



50,000 RPM with GOLD Tool Cap

Model 51703
1/8" Collet

Model 51730
1/8" Collet, Ceramic Bearings

Model 51753
1/8" Collet, Extension Model

Model 51704
3 mm Collet

Model 51732
3 mm Collet, Ceramic Bearings

Model 51705
3/32" Collet

Model 51730
Ceramic Bearings provide better performance and durability with regard to high shaft speeds, dirt, extreme temperature and corrosion.



60,000 RPM with TEAL Tool Cap

Model 51700
1/8" Collet

Model 51731
1/8" Collet, Ceramic Bearings

Model 51740
1/8" Collet, Mount Stem

Model 51750
1/8" Collet, Extension Model

Model 51701
3 mm Collet

Model 51733
3 mm Collet, Ceramic Bearings

Model 51742
3 mm Collet, Mount Stem

Model 51702
3/32" Collet

Model 51740
Mount Stem for use on robotic arms and other fixed mount applications.



100,000 RPM with SILVER Tool Cap

- Speed of 100,000 RPM offers enhanced cut rate, ideal for use on titanium and other metals. Also excellent on alloys, graphite, wood, glass and resin with high glass content.

Model 51810 1/8" Collet

Model 51812 3/32" Collet

Model 51811 1/16" Collet

Model 51813 3 mm Collet

Model 51810



Model Number	Motor RPM	Exhaust	Maximum Air Flow CFM/SCFM (LPM)	Air Pressure PSIG (Bar)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
51706-51708	35,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	5-1/4 (132)	1-1/2 (39)
51756	35,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	6 (152)	1-1/2 (39)
51703-51705	50,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	5-1/4 (132)	1-1/2 (39)
51730/51732	50,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	5-1/4 (132)	1-1/2 (39)
51753	50,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	6 (152)	1-1/2 (39)
51700-51702	60,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	5-1/4 (132)	1-1/2 (39)
51731/51733	60,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	5-1/4 (132)	1-1/2 (39)
51740/51742	60,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.5 (0.2)	7-3/16 (182)	1-1/2 (39)
51750	60,000	Rear	1/8 (227)	90 (6.2)	1/4 (6)	1/4" NPT	0.8 (0.4)	6 (152)	1-1/2 (39)
51810-51813	100,000	Rear	1/6 (170)	90 (6.2)	1/4 (6)	1/4" NPT	.84 (.38)	5-5/16 (135)	1-1/2 (39)

Carbide Burr Kits

For Use with Dynabrade Pencil Grinders and Die Grinders

1/8" Dynaburr™ Carbide Burr Kit

93351

- 12 piece kit includes one of each 1/8" Burr shown. All Carbide Burrs may be ordered separately.
- Mounts to 1/8" collet on any Pencil Grinder or any standard Die Grinder.
- Packaged in high-quality wooden case.



1/8" and 3 mm Burrs Available

Shape	Cylinder	Cylinder	Cylinder	Cylinder Radiused End	Ball Radiused End	Oval	Tree	Tree Radiused End	Flame Pointed End	Taper Radiused	14 Degree Cone End	10 Degree Inverted Cone
1/8" Part No.	93338	93339	93340	93341	93342	93343	93344	93345	93346	93347	93348	93349
3 mm Part No.	93368	93369	93370	93371	93372	93373	93374	93375	93376	93377	93378	93379

1/4" Dynaburr™ Carbide Burr Kit

93350 For use with 25,000 RPM Pencil Grinder ONLY

- 8 piece kit includes one of each 1/4" Burr shown. All Carbide Burrs may be ordered separately.
- Also mounts to 1/4" collet on any standard Die Grinder.
- Packaged in high-quality wooden case.



1/4" and 6 mm Burrs Available

Shape	Cylinder	Cylinder	Cylinder Radiused End	Cylinder Radiused End	Ball	Oval	Tree Radiused End	Taper Radiused End
1/4" Part No.	93330	93331	93332	93333	93334	93335	93336	93337
6 mm Part No.	93360	93361	93362	93363	93364	93365	93366	93367

Collet Inserts

- Collet Insert is the collapsible portion of the collet that retains shape of inserted accessory.



25,000 RPM Models

Collet Insert	Part Number
1/8"	01495
3 mm	01496
1/4"	01485
6 mm	01497

Turbine-Driven Models

Collet Insert	Part Number
1/16"	51780
3/32"	51674
1/8"	51659
3 mm	51673



Visit our Website for more Tools and Related Accessories
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DYNABRADE, INC.

8989 Sheridan Drive • Clarence, New York 14031-1490 • Phone: (716) 631-0100
 Fax: 716-631-2073 • US Consumers Call Toll Free: 1-800-828-7333

DYNABRADE INTERNATIONAL

8989 Sheridan Drive • Clarence, New York 14031-1490 • Phone: (716) 631-0100
 Fax: 716-631-2524 • Canadian Consumers Call Toll Free: 1-800-344-1488

DYNABRADE EUROPE S.à r.l.

Zone Artisanale • L-5485 Wormeldange—Haut, Luxembourg
 Phone: +352 768 494 1 • Fax: +352 768 495

DYNABRADE DO BRASIL

Rua Oneda, 632 • Sao Bernardo do Campo • SP - CEP 09895-280
 Phone (11) 4390-0133 • Fax (11) 4399-1067

Try Our U.S. Consumer Toll Free Number
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