



DYNABRADE

DIE GRINDERS

Non-Vacuum Models

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Pencil Grinders

Rotary Vane Air Motor Models



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Precision Deburring and Finishing with Adjustable Speed

- 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 air motor.
- Adjustable tool speed from 5,000 RPM to 25,000 RPM.
- Operate tool and adjust speed by simply rotating rear roll valve.
- Collet cap has tactile grip to protect operator from rotating collet, and allow fingertip control.
- Changing of attachment is achieved with easy, two-wrench maneuver.
- Unique housing shape allows tool to be held as a traditional Die Grinder.

FOR USE WITH
Carbide Burrs, Rotary Files,
Mounted Points and Discs
SEE PAGE 251

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
52861



Model
52861

Rotary Vane Pencil Grinder is ideal for precision deburring.

Model Number	Motor hp (W)	Collet Size	Motor RPM	Sound Level	Exhaust	Maximum Air Flow SCFM (L/Min)	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	76 dB(A)	Rear	20 (566)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52862	0.4 (298)	3 mm	25,000	76 dB(A)	Rear	20 (566)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52863	0.4 (298)	1/4"	25,000	76 dB(A)	Rear	20 (566)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)
52864	0.4 (298)	6 mm	25,000	76 dB(A)	Rear	20 (566)	1/4 (6)	1/4" NPT	1.1 (.48)	5.66 (144)	1-1/2 (39)

Tune-Up Kit: No. 96174 (page 267) • Additional Specifications: Air Pressure 90 PSIG (6.2 Bar)

Pencil Grinders

Turbine-Driven Air Motor Models



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Precision Deburring and Finishing on a Variety of Surfaces

- High-efficiency air motor has no wearable gears, vanes or blades.
- **No lubrication required!** 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.
- Tactile safety features on shaft end alert operator to rotating collet area.
- Includes high-quality flexible air hose.



Model
51810

**See page 48
for all models!**



Model
51810

100,000 RPM Pencil Grinder offers enhanced cut rate.

FOR USE WITH
Carbide Burrs, Rotary Files,
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Pencil Grinders

Turbine-Driven Air Motor Models



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Precision Deburring and Finishing on a Variety of Surfaces

35,000 RPM with **RED** Tool Cap

Model 51706

1/8" Collet

Model 51707

3 mm Collet

Model 51756

**1/8" Collet,
Extension Model**

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 51704

3 mm Collet

Model 51730

1/8" Collet, Ceramic Bearings

Model 51732

3 mm Collet, Ceramic Bearings

Model 51753

1/8" Collet, Extension Model

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 51701

3 mm Collet

Model 51731

1/8" Collet, Ceramic Bearings

Model 51733

3 mm Collet, Ceramic Bearings

Model 51740

1/8" Collet, Mount Stem

Model 51742

3 mm Collet, Mount Stem

Model 51750

1/8" Collet, Extension Model

Model 51702

3/32" Collet

Model 51740

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



WATCH Tool at Work!

100,000 RPM with **SILVER** Tool Cap • **Ceramic Bearings**

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

Model 51810 1/8" Collet

Model 51811 1/16" Collet

Model 51812 3/32" Collet

Model 51813 3 mm Collet

Model 51810

Ceramic Bearings included in ALL 100,000 RPM models!



Model Number	Motor RPM	Sound Level	Exhaust	Maximum Air Flow SCFM (L/Min)	Air Pressure PSIG (Bar)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Weight Pound (kg)	Length Inch (mm)	Diameter Inch (mm)
51706-51708	35,000	62 dB(A)	Rear	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	62 dB(A)	Rear	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	61 dB(A)	Rear	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	66 dB(A)	Rear	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	61 dB(A)	Rear	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	66 dB(A)	Rear	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	66 dB(A)	Rear	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	66 dB(A)	Rear	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	66 dB(A)	Rear	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	75 dB(A)	Rear	6 (170)	90 (6.2)	1/4 (6)	1/4" NPT	0.84 (0.38)	5-5/16 (135)	1-1/2 (39)

Quick-Change Pencil Grinder

Turbine-Driven Air Motor Models



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Precision Deburring in Time-Saving Design!

FOR USE WITH
Carbide Burrs, Rotary Files,
Mounted Points and Discs
SEE PAGE 251

NEW Quick-Change Lever

Turn lever outward 90° to open collet insert and easily replace accessory.

NEW Rapid-Stop Brake

Built-in brake stops tool motor within ONE SECOND!

Built-In Swivel

Provides 360° maneuverability of air line!

Accepts Variety of Accessories

Powers **Carbide Burrs** and **Mounted Points**, sold separately.

High-Quality Air Line

1/4" (6 mm) in diameter and 6 feet (1.82 m) in length.



93351 Carbide Burr Kit
includes 12 Burrs (1/8").
See page 251.

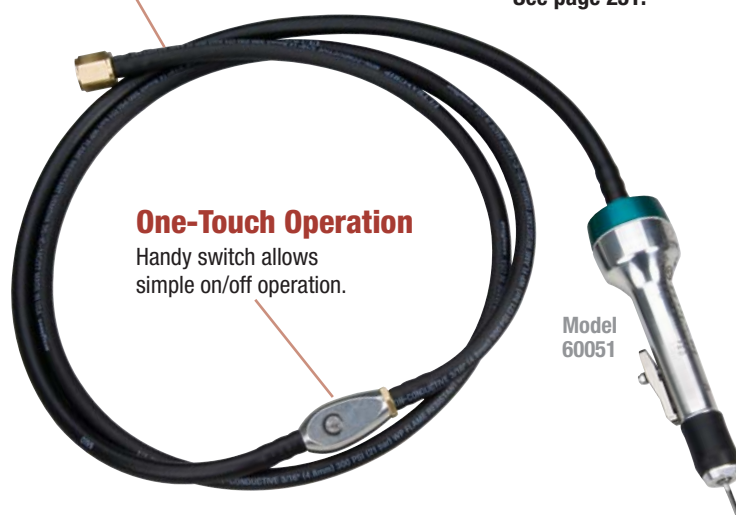
Model 60051 with **TEAL** Tool Cap
60,000 RPM, 1/8" Collet

Model 60052 with **RED** Tool Cap
35,000 RPM, 3/32" Collet

- High-efficiency turbine-driven air motor has no wearable gears, vanes or blades.
- Oil-free operation minimizes maintenance time and repair costs.
- Air motor controlled by patented governor, providing constant tool speed under load.
- Tool housing has non-slip rubber grip for additional control.
- Tactile cues on shaft end alert operator to rotating collet area.
- Quality high-speed bearings ensure consistent, reliable operation.
- 1/8" and 3/32" Collets are interchangeable within each model.
- 3 mm Collet (60120) is also available.

One-Touch Operation

Handy switch allows simple on/off operation.



Quick-Change Pencil Grinder is ideal for use on tooling, dies, jewelry, molds and intricate parts.

Model Number	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Air Pressure PSIG (Bar)	Collet Size (Part No.)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
60051	60,000	78 dB(A)	8 (227)	90 (6.2)	1/8" (60118)	1.0 (0.45)	5-5/16 (135)	1-1/2 (38)
60052	35,000	65 dB(A)	8 (227)	90 (6.2)	3/32" (60119)	1.0 (0.45)	5-5/16 (135)	1-1/2 (38)

Central Vacuum Pencil Grinder

Turbine-Driven Air Motor Models



COLLET INSERTS
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VACUUM SHROUDS
PAGE 221

Precision Deburring with Source Capture!

- Each model includes urethane Vacuum Shroud, plus high-quality air line and flexible, durable vacuum hose.
- 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.

FOR USE WITH
Carbide Burrs, Rotary Files,
Mounted Points and Discs
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35,000 RPM with RED Tool Cap

Model 51622

1/8" Collet

- Includes 51739 Standard Vacuum Shroud.

Model 51623

1/8" Collet, Extension Model

- Includes 51785 Extension Vacuum Shroud.
- Greater shaft length provides additional reach.

Model 51624

3 mm Collet

- Includes 51739 Standard Vacuum Shroud.



50,000 RPM with GOLD Tool Cap

Model 51629

1/8" Collet

- Includes 51739 Standard Vacuum Shroud.

Model 51630

1/8" Collet, Extension Model

- Includes 51785 Extension Vacuum Shroud.
- Greater shaft length provides additional reach.

Model 51631

3 mm Collet

- Includes 51739 Standard Vacuum Shroud.



60,000 RPM with TEAL Tool Cap

Model 51632

1/8" Collet

- Includes 51739 Standard Vacuum Shroud.

Model 51633

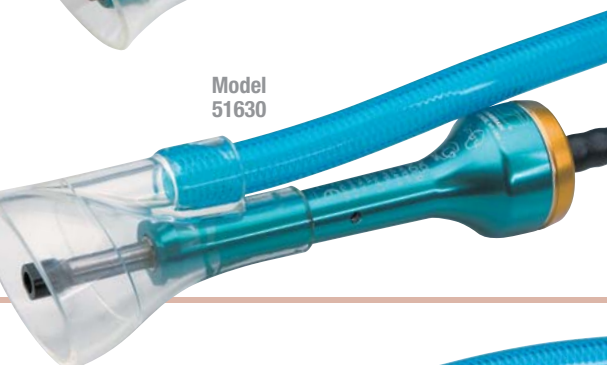
1/8" Collet, Extension Model

- Includes 51785 Extension Vacuum Shroud.
- Greater shaft length provides additional reach.

Model 51634

3 mm Collet

- Includes 51739 Standard Vacuum Shroud.



Model Number	Motor hp (W)	Motor RPM	Maximum Air Flow SCFM (L/Min)	Collet Size	Hose I.D. Size Inch (mm)	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Diameter Inch (mm)
51622	.1 (75)	35,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)
51623	.1 (75)	35,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.2 (.5)	6 (152)	1-7/8 (49)
51624	.1 (75)	35,000	8 (227)	3 mm	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)
51629	.1 (75)	50,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)
51630	.1 (75)	50,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.2 (.5)	6 (152)	1-7/8 (49)
51631	.1 (75)	50,000	8 (227)	3 mm	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)
51632	.1 (75)	60,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)
51633	.1 (75)	60,000	8 (227)	1/8"	1/4 (6)	90 (6.2)	1.2 (.5)	6 (152)	1-7/8 (49)
51634	.1 (75)	60,000	8 (227)	3 mm	1/4 (6)	90 (6.2)	1.1 (.5)	5-1/4 (132)	1-7/8 (49)