

Dynabrade Die Grinders

The Choice Is Yours! Discover The Dynabrade Difference!

Dynabrade Die Grinders Offered in a Variety of Configurations

G geared and Gearless Tool Offerings

- Geared Tools generally have higher torque levels and broader power range, while gearless tools offer reduced maintenance and downtime.

Two Types of Gearing

- **Planetary gears** are inline speed reduction gears. The greater the reduction, the higher the torque levels.
- **Right angle bevel gears** turn the spindle of the machine 90° from the motor. Typically there is a speed reduction but not as much as planetary gears.

Gearless Tools

- Gearless tools have lower vibration levels due to the omission of transmitting power through gears.
- They offer longer tool life with fewer wearable parts, resulting in reduced maintenance and downtime.
- Among tools with the same horsepower rating, gearless tools will generally have lower torque levels than geared tools.
- Look for the gearless icon (right) to quickly identify a gearless model.



Exhaust and Muffler Offerings

- Choose from front exhaust, rear exhaust (with extended muffler), and rear exhaust (with standard muffler).

Front Exhaust

- Front exhaust tools direct debris away as tool is running, allowing clear view of work surface.



Rear Exhaust

- **Extended muffler design** is ideal for larger hands, as the tool length is extended to accommodate the higher performing, tri-muffling technology.



- Abbreviated length of **standard muffler** is ideal for smaller hands.

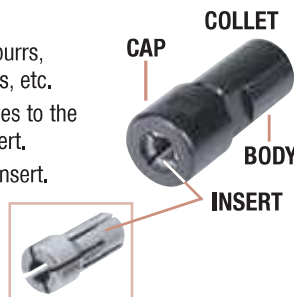


DIE GRINDERS

Die Grinder Collets and Inserts *Dynabrade Die Grinders Feature Precision-Made Collets and Inserts*

Terminology

- **COLLET:** Device used to hold carbide burrs, rotary files, mounted points and wheels, etc.
- **BODY:** The part of the collet that secures to the spindle of the tool and accepts the insert.
- **CAP:** Secures collet body and retains insert.
- **INSERT:** The collapsible portion of the collet that retains the shank of the inserted tool.



Collet Assembly Types

- **Two-Piece:** Insert threads into body.
- **Three-Piece:** Insert slips into body; cap threads to body, retaining the insert.
- **Four-Piece:** Insert slips into body; cap slips over body; nut retains cap and insert.
- **Integrated:** Collet body is integrated into tool.



TOOL THREAD...	...CHOOSE COLLET...			...THEN CHOOSE COMPATIBLE COLLET INSERT								
	Tool Thread	Collet Size	Collet Part Number	Collet Type	1/16"	3/32"	1/8"	1/4"	3/8"	3 mm	6 mm	8 mm
3/8"-24 Male (200 series*)	1/4"	50010	3-Piece				50065	50013	50014		50016	50039
	6 mm	50015	3-Piece				50065	50013 [‡]	50014		50016 [‡]	50039
M8x1 Male (300 series**)	1/4"	50020	2-Piece				01647	01644 [‡]		01648	01648	
	1/4"	50080	3-Piece				01495	01485 [‡]		01496	01497	
	6 mm	50079	3-Piece				01495	01485		01496	01497 [‡]	
	1/4"	51124	4-Piece				01495	01485 [‡]		01496	01497	
	6 mm	51125	4-Piece				01495	01485		01496	01497 [‡]	
(200 series*)	3/8"	50018	3-Piece				50065	50013	50014 [‡]		50016	50039
5/16"-24 Male (300 series**)	1/4"	51106	4-Piece				01495	01485 [‡]		01496	01497	
	6 mm	51110	4-Piece				01495	01485		01496	01497 [‡]	
1/2"-20 Male (200 series*)	1/4"	50066	3-Piece				50065	50013 [‡]	50014		50016	50039
	6 mm	50073	3-Piece				50065	50013	50014		50016 [‡]	50039
1/4"-28 Male*	1/4"	50055	2-Piece				50034					
Integrated Collets												
.4 hp Rt. Angle Die Grinders**							01495	01485		01496	01497	
Mini-Dynaflex® II							01647	01644		01648	01646	
Standard Pencil Grinders				51780	51674	51659				51673		
Quick-Change Pencil Grinders					60119	60118				60120		

[‡]Denotes Standard Insert included with Collet.

Guide to NEW .4 hp Die Grinders

Overview of NEW Dynabrade .4 hp Die Grinders, and Previous Models Being Replaced

Right Angle Models

- All include 1/4" and 6 mm Collets.

Front Exhaust

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
47800	12,000	57	51800	51803
47801	15,000	57	51801	51804
47802	20,000	57	51802	51805

Rear Exhaust, Extended Muffler

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
46000	12,000	57	50000	50003
46001	15,000	57	50001	50004
46002	20,000	57	50002	50005

Rear Exhaust

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
49425	3,200	57	53425	N/A
48315	12,000	57	52315	52318
48316	15,000	57	52316	52319
48317	20,000	57	52317	52320

Angle-Head Model

- 1/4" Collet

Rear Exhaust, Extended Muffler

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
49420	3,200	Below	53420	N/A

7° Offset Models

- All include 1/4" and 6 mm Collets.

Rear Exhaust, Extended Muffler

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
48205	25,000	58	52205	52251
48207	30,000	58	52207	N/A

Rear Exhaust

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
48335	25,000	58	52335	52331
48337	30,000	58	52337	52333

Rear Exhaust, Extended Muffler (Slow Speed)

NEW Model No.	Motor RPM	Page No.	Previous 1/4" Model	Previous 6 mm Model
47211	3,200	58	51211	51214
47212	5,000	58	51212	51215

.4 hp Die Grinder

Angle-Head, Planetary Geared, Rear Exhaust



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High-Quality Air-Powered Die Grinders

Model 49420 3,200 RPM, 1/4" Collet

- Includes 50055 Collet Assembly and extended rear exhaust muffler to reduce noise levels.
- Governor-controlled motor maintains speed under load.
- Safety-lock lever is included.
- Optional 54585 Side Handle Assembly is available.
- Lightweight thermal-insulated housing reduces cold air transmission and vibration to the operator.



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

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Tool Thread	Weight Pound (kg)	Length Inch (mm)	Diameter Inch (mm)
49420	.4 (298)	3,200	80 dB(A)	26 (736)	1/4 (6)	1/4" NPT	1/4"-28 Female	1.9 (0.8)	11.7 (296)	2.1 (53)

Tune-Up Kit: No. 96541 (page 267) • Additional Specifications: Air Pressure 90 PSIG (6.2 Bar)

.4 hp Die Grinders

Right Angle, Front and Rear Exhaust



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High-Quality Air-Powered Die Grinders

Front Exhaust Models

- Governor-controlled motor maintains speed under load.

Model 47800

12,000 RPM, 1/4" & 6 mm Collets

Model 47801

15,000 RPM, 1/4" & 6 mm Collets

Model 47802

20,000 RPM, 1/4" & 6 mm Collets



Model 47800

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

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
47800	.4 (298)	12,000	84 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.0 (.46)	6 (150)	2.9 (73)
47801	.4 (298)	15,000	86 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.0 (.46)	6 (150)	2.9 (73)
47802	.4 (298)	20,000	85 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.0 (.46)	6 (150)	2.9 (73)

Tune-Up Kit: No. 96541 (page 267)

Rear Exhaust Models with Extended Muffler

- Governor-controlled motor maintains speed under load.

Model 46000

12,000 RPM, 1/4" & 6 mm Collets

Model 46001

15,000 RPM, 1/4" & 6 mm Collets

Model 46002

20,000 RPM, 1/4" & 6 mm Collets



Model 46002

See page 69 for
Vacuum Models!

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
46000	.4 (298)	12,000	78 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.2 (.55)	8 (203)	2.9 (73)
46001	.4 (298)	15,000	75 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.2 (.55)	8 (203)	2.9 (73)
46002	.4 (298)	20,000	78 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.2 (.55)	8 (203)	2.9 (73)

Tune-Up Kit: No. 96541 (page 267)

Rear Exhaust Models with Standard Muffler

- Governor-controlled motor maintains speed under load.

Model 49425

3,200 RPM, 1/4" & 6 mm Collets

Model 48315

12,000 RPM, 1/4" & 6 mm Collets

Model 48316

15,000 RPM, 1/4" & 6 mm Collets

Model 48317

20,000 RPM, 1/4" & 6 mm Collets



Model 48315

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
48315	.4 (298)	12,000	81 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1 (.47)	6.5 (164)	2.9 (73)
48316	.4 (298)	15,000	79 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1 (.47)	6.5 (164)	2.9 (73)
48317	.4 (298)	20,000	83 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1 (.47)	6.5 (164)	2.9 (73)
49425	.4 (298)	3,200	81 dB(A)	25 (708)	1/4 (6)	1/4" NPT	90 (6.2)	1.5 (.68)	7.7 (196)	2.9 (73)

Tune-Up Kit: No. 96541 (page 267)

.5 hp Die Grinders

Straight-Line, Extension Models, Rear Exhaust



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High-Quality Air-Powered Die Grinders

- Extension Die Grinder with 3" workable reach.
- Extended rear exhaust muffler design ensures lowest sound level.

Model 53510

18,000 RPM, 1/4" & 6 mm Collets

Model 53511

20,000 RPM, 1/4" & 6 mm Collets



Dynaswivel® air line connector is ideal for use with most air tools. It improves tool maneuverability, minimizes operator fatigue and extends hose life. (See page 223.)



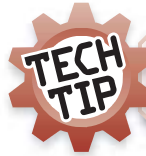
- Extension Die Grinder with 7-1/4" workable reach.
- Extended rear exhaust muffler design ensures lowest sound level.

Model 53501

18,000 RPM,
1/4" & 6 mm Collets

Model 53502

20,000 RPM, 1/4" & 6 mm Collets



Motor Tune-Up Kits will extend the life of an air tool when used with a preventative maintenance schedule.

Model Number	Motor hp (W)	Motor RPM	Sound Level	Maximum Air Flow SCFM (L/Min)	Hose I.D. Size Inch (mm)	Air Inlet Thread	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
53501	.5 (373)	18,000	72 dB(A)	30 (850)	3/8 (10)	1/4" NPT	90 (6.2)	3.2 (1.5)	17-7/8 (454)	1-7/8 (48)
53502	.5 (373)	20,000	74 dB(A)	31 (878)	3/8 (10)	1/4" NPT	90 (6.2)	3.2 (1.5)	17-7/8 (454)	1-7/8 (48)
53510	.5 (373)	18,000	72 dB(A)	30 (850)	3/8 (10)	1/4" NPT	90 (6.2)	2.5 (1.1)	12-7/8 (327)	1-7/8 (48)
53511	.5 (373)	20,000	74 dB(A)	31 (878)	3/8 (10)	1/4" NPT	90 (6.2)	2.5 (1.1)	12-7/8 (327)	1-7/8 (48)

Tune-Up Kit: No. 96007 (page 267)

.5 hp Die Grinders

Steel Housings, Straight-Line, Front & Rear Exhaust



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Steel Housings for Increased Durability!

Model 53807

Front Exhaust

Model 53808

Rear Exhaust

- 24,000 RPM, 1/4" Collet.
- Ideal for use in foundries, welding operations and shipyards.
- Rubber Grip Housing reduces vibration and cold air transmission.
- Safety Lock Lever standard on all models.



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

See .7 hp Steel Housing models on page 64!

Model Number	Motor hp (W)	Motor RPM	Sound Level	Exhaust	Maximum Air Flow SCFM (L/Min)	Air Inlet Thread	Air Pressure PSIG (Bar)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
53807	.5 (373)	24,000	82 dB(A)	Front	30 (850)	1/4" NPT	90 (6.2)	1.9 (0.86)	5-5/8 (143)	1-3/4 (45)
53808	.5 (373)	24,000	77 dB(A)	Rear	29 (821)	1/4" NPT	90 (6.2)	2.1 (0.95)	6-11/16 (170)	1-3/4 (45)

Tune-Up Kit: No. 98621 (page 267)