# 1Hp Right Angle Tools

Reorder No. D02.15

**True 1 Hp Air Motors - Built to Last!** 



**Finishing Tools** 

**Disc Sanders** 

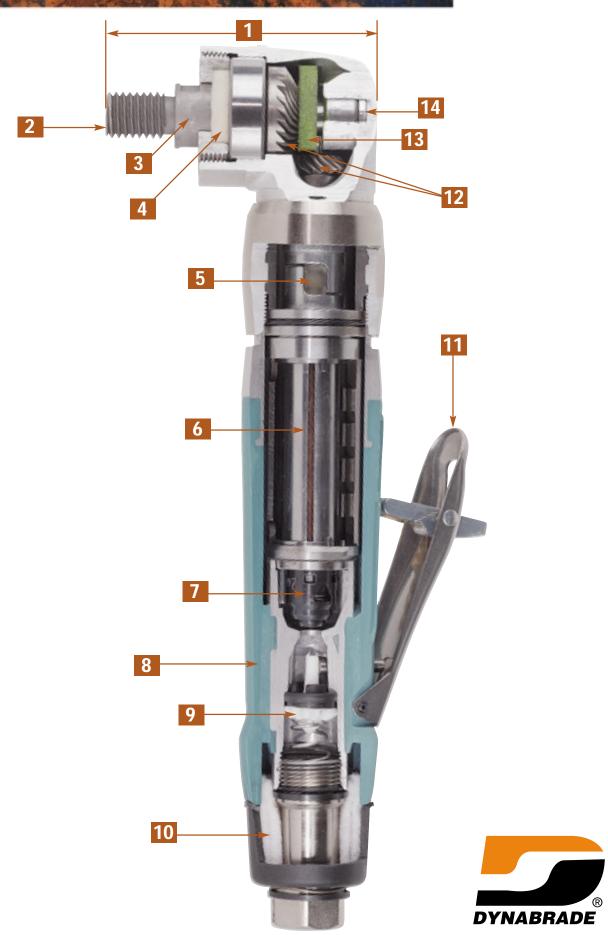
Depressed Center Wheel Grinders

**Buffer/Polishers** 



Continued Leadership in Portable Abrasive Power Tool Technology

# QUALITY - INSIDE AND OUT



Features	Advantages	Benefits
1 Low-profile.	Ideal for hard-to-reach areas.	Exceptional control.
2 3/8"-24, 5/8"-11, and M14 spindle threads.	Adaptable to specific applications, pads and accessories.	Versatility; can be utilized in a wide range of markets.
3 One-piece spindle.	Lower vibration levels and increased gear life.	Longer gear life means reduced downtime and less costly repairs.
Spindle shaft seal. Felt seal on high speed models.	Reduces contamination from polishing compounds and sanding grit to internal gears.	Lower level of contamination results in longer gear life, less downtime and less costly repairs.
5 Heavy duty power coupling.	Outperforms spline-type coupling.	Power coupling built to last for industrial production settings.
True 1 horsepower right angle motor.	Highest horsepower and torque level of any similar competitive product.	Increased performance.
7 One piece governor-design.	Maintains RPM under heavy load.	No repair of governor required. Simply replace the unit.
8 Lightweight, thermal-insulated composite housing.	Ergonomic design for greater comfort and control.	Thermal-insulated housing reduces cold air transmission to operator.
Air inlet tip valve.	Reduces throttle force required to engage motor.	Easier to control startup of tool.
Rear exhaust inline muffler assembly.	Directs exhaust away from workpiece. Muffles exhaust sound.	Workpiece remains free of oil. Lower sound levels.
11 Curved safety-lock lever.	No sharp edges; smooth feel.	Added comfort with no pinch points.
Heat treated spiral bevel gears.	Runs quietly; durability improved.	Longer gear life means reduced downtime and less costly repairs.
Wick lubrication system saturated with gear oil.	More efficient lubrication system keeps the gear oil on the metal gears and extends gear life.	Longer gear life means reduced downtime and less costly repairs.
14 Gear oil lubrication fitting.	Gear oil is specially formulated to stick to metal and is not thrown from the spinning surface of the gears.	Better lubrication equates to longer gear life that results in reduced downtime and less costly repairs.

# DEPRESSED CENTER WHEEL GRINDER

# 4" (102 mm) Dia. Depressed Center Wheel Grinder

**ABRASIVE CAPACITY** 

4" (102 mm) and 4-1/2"-5" (115-127 mm) dia. type 27 depressed center wheels.

3/8"-24 Male Spindle

MODEL 50302 12,000 RPM

· Reversible handle for right or left hand operation.



4-1/2"-5" (115-127 mm) Dia. Depressed Center Wheel Grinder

5/8"-11 Male Spindle MODEL 50306 12,000 RPM M14 Male Spindle MODEL 50308 12,000 RPM

· Reversible handle for right or left hand operation.



NOTE: All grinder models use only type 27

grinders, not included.

reinforced depressed center wheel

Important: Never mount accessories that have lower maximum RPM rating than the tool, regardless of tool capacity. Never mount bonded grinding wheels. Always wear eye, face & body protection.



TECH TIPS  $95848\ \mbox{Gear}$  Oil and  $95541\ \mbox{Oil}$  Gun are included with each tool purchase.

95848 Gear Oil 2.5 oz. (74 ml) tube

· Formulated for Dynabrade geared tools utilizing a wick-type lubrication system.

• Easy to apply using Dynabrade P/N 95541 Oil Gun.

• Apply 2 plunges every 8 hours of operation into tool's lubrication fitting.

**IMPORTANT MAINTENANCE NOTE:** Apply 2 plunges into lubrication fitting (see photo on the right) every 8 hours of operation. Failure to lubricate with 95848 Dynabrade Gear Oil will cause premature gear failure and void warranty. **DO NOT USE** any other type of gear lubricant in these tools.



Model Number	Motor HP (W)	Motor RPM	Sound Level	Maximum Air Flow CFM/SCFM (LPM)	Spindle Thread	Air Pressure PSIG (Bars)	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
50302	1 (744)	12,000	78 dB(A)	6/40 (1,138)	3/8"-24 male	90 (6.2)	4.5 (2.0)	11-3/4 (299)	3-5/8 (92)
50306	1 (744)	12,000	78 dB(A)	6/40 (1,138)	5/8"-11 male	90 (6.2)	4.8 (2.2)	11-3/4 (299)	3-13/16 (98)
50308	1 (744)	12,000	78 dB(A)	6/40 (1,138)	M14 male	90 (6.2)	4.8 (2.2)	11-3/4 (299)	3-13/16 (98)

Additional Specifications: Air Inlet Thread 3/8" NPT · Hose I.D. Size 3/8" (10 mm)

Recommended Air Line Accessory: For Best Performance use 95674 Coupler and 96005 Plug (see page 10)

# DISC SANDER

### ABRASIVE CAPACITY

7" (180 mm) dia. discs.

# 7" (180 mm) Dia. Disc Sander

5/8"-11 Male Spindle **MODEL 52563** 6.000 RPM

- · Includes 50277 Disc Pad Assembly (50278 Pad and 50273 Flange Nut).
- · Reversible handle for right or left hand operation.





Model	Motor	Motor	Sound	Maximum Air Flow	Air Pressure	Spindle	Weight	Length	Height
Number	HP (W)	RPM	Level	CFM/SCFM (LPM)	PSIG (Bars)	Thread	Pound (kg)	Inch (mm)	Inch (mm)
52563	1 (744)	6,000	82 dB(A)	6/40 (1,127)	90 (6.2)	5/8"-11 male	4.1 (1.8)	11-11/16 (296)	

Additional Specifications: Air Inlet Thread 3/8" NPT • Hose I.D. Size 3/8" (10 mm)

Recommended Air Line Accessory: For Best Performance use 95674 Coupler and 96005 Plug (see page 10)

# 4-1/2"-5" (115-127 mm) Dia. Disc Sander

· Reversible handle for right or left hand operation.

### 5/8"-11 Male Spindle

### **MODEL 52561**

### 11,000 RPM

· Includes 50274 Disc Pad Assembly (50265 Pad and 50273 Flange Nut).

### **MODEL 52562** 9,000 RPM

· Includes 50275 Disc Pad Assembly (50272 Pad and 50273 Flange Nut).

### M14 Male Spindle **MODEL 52564** 9,000 RPM **MODEL 52565** 11,000 RPM **MODEL 52566** 12,000 RPM

· Ideal for use with 115-127 mm disc pads with an M14 female thread (not included).



# **ABRASIVE CAPACITY**

4-1/2"-5" (115-127 mm) dia. discs.



Visit our updated web site www.dynabrade.com. The new site is designed to support customers' desire to obtain information via the Internet. Looking for tool information?

By using the product locator, you can view any one of our tools, including technical specifying information customers can use. Other upgrades include tool schematic parts pages and list pricing.

Model Number	Motor HP (W)	Motor RPM	Sound Level	Maximum Air Flow CFM/SCFM (LPM)	Air Pressure PSIG (Bars)	Spindle Thread	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
52561	1 (744)	11,000	79 dB(A)	6/41 (1,172)	90 (6.2)	5/8"-11 male	4 (1.8)	11-11/16 (296)	3-3/4 (95)
52562	1 (744)	9,000	80 dB(A)	6/39 (1,116)	90 (6.2)	5/8"-11 male	4 (1.8)	11-11/16 (296)	3-3/4 (95)
52564	1 (744)	9,000	80 dB(A)	6/39 (1,116)	90 (6.2)	M14x2 male	4 (1.8)	11-11/16 (296)	3-3/4 (95)
52565	1 (744)	11,000	79 dB(A)	6/41 (1,172)	90 (6.2)	M14x2 male	4 (1.8)	11-11/16 (296)	3-3/4 (95)
52566	1 (744)	12,000	78 dB(A)	6/40 (1,138)	90 (6.2)	M14x2 male	4 (1.8)	11-11/16 (296)	4-1/4 (108)

Additional Specifications: Air Inlet Thread 3/8" NPT · Hose I.D. Size 3/8" (10 mm)

Recommended Air Line Accessory: For Best Performance use 95674 Coupler and 96005 Plug (see page 10)

# DISC SANDER

### **ABRASIVE CAPACITY**

4" (102 mm) dia. discs.

# 4" (102 mm) Dia. Disc Sander

### 3/8"-24 Male Spindle MODEL 52560 12,000 RPM

- Includes 50132 Locking-Type Pad (4" [102 mm] dia.) with 3/8"-24 female thread (hard density).
- · Reversible handle for right or left hand operation.





Model	Motor	Motor	Sound	Maximum Air Flow	Air Pressure	Spindle	Weight	Length	Height
Number	HP (W)	RPM	Level	CFM/SCFM (LPM)	PSIG (Bars)	Thread	Pound (kg)	Inch (mm)	Inch (mm)
52560	1 (744)	12,000	78 dB(A)	6/40 (1,138)	90 (6.2)	3/8"-24 male	4.1 (1.8)	11-11/16 (296)	4-1/4 (108)

Additional Specifications: Air Inlet Thread 3/8" NPT • Hose I.D. Size 3/8" (10 mm)

Recommended Air Line Accessory: For Best Performance use 95674 Coupler and 96005 Plug (see page 10)

# **DYNISHER®**

# Abrasive Finishing Tool

Work on stainless steel, aluminum, carbon steel, plastic, fiberglass, composites, wood and more!

### **MODEL 13450**

### Has 3/4" Dia. Bore Arbor

- 2,800 RPM.
- Excellent for blending and finishing stainless steel and most other metals, leaving an in-line scratch pattern.
- Operator uses back-and-forth motion; shield can be adjusted for work right up to side walls.
- Arbor (3/4" diameter) included for mounting a variety of abrasives and accessories.

### 13460 VERSATILITY KIT

- · 13450 Dynisher Tool.
- 94473 Dynacushion\* Pneumatic Wheel (5" [127 mm] diameter x 3-1/2" [89 mm] wide).
- · Two abrasive belts.
- 94465 Inflation Tool.

### **ABRASIVE CAPACITY**

- 3-1/2" (84 mm) x 15-1/2" (394 mm) abrasive belts
- 4" (102 mm) dia. abrasive flap wheels
- 4" (102 mm) dia. conditioning discs.



Model	Motor	Motor	Wheel Arbor Dia.	Sound	Maximum Air Flow	Air Pressure	Weight	Length	Height
Number	HP (W)	RPM	Inch (mm)	Level	CFM/SCFM (LPM)	PSIG (Bars)	Pound (kg)	Inch (mm)	Inch (mm)
13450	1 (744)	2,800	3/4 (19)	80 dB(A)	6/42 (1,181)	90 (6.2)	5.7 (2.6)	15 (381)	7 (180)

# DYNISHER® (Continued)



Set the grain using the Dynisher® with a coated abrasive belt (60, 80 or 100-grit recommended) mounted on a Dynacushion® pneumatic wheel.



Then... easily refine and blend the surface with an abrasive impregnated non-woven nylon surface conditioning belt (medium grade recommended). An excellent system for uniform finishes!



Optional 53621 Overhose Assembly may be used to further reduce noise levels by as much as 5 dB(A). Overhose redirects exhaust away from operator and workpiece. 3/8" (10 mm) Air Line Assembly (11292) sold separately.

15-1/2" (394 mm) Long Dynacut Belts								
Width	60 Grit	80 Grit	120 Gri					
3-1/2" (89 mm)	90272	90273	90275					

15-1/2" (394 mm) Long Non-Woven Nylon Belts								
Width	Coarse	Medium	Very Fine	Super Fine				
3-1/2" (89 mm)	90283	90282	90281	90014				





# Dynacushion® Pneumatic Wheels

### Adapts to Contour of Work Surface

- The Dynacushion\* supports coated abrasive and non-woven nylon belts.
- For use on metal, wood, plastic, ceramic, fiberglass and composites. Excellent on stainless steel.
- · Easily regulate hardness by air pressure. Inflates to 20 PSIG maximum.
- Use both coated abrasive and abrasive impregnated non-woven nylon belts, mounted on the Dynacushion\*.

### **MODEL 94473**

### 5" (127 mm) Dia. x 3-1/2" (89 mm) Wide

- 3/4" dia. bore.
- Abrasive belt size: 3-1/2" (89 mm) W x 15-1/2" (394 mm) L.
- 3,500 max RPM.

Part Number	Arbor Hole	Rubber Wheel Only	Belt Size (Wide x Long)	Maximum RPM					
94473	3/4" Bore	94481	3-1/2" (89 mm) x 15-1/2" (394 mm)	3,500					
NOTE: 1	NOTE: The Dynacushion® Pneumatic Wheel may also be ordered								

**NOTE:** The Dynacushion\* Pneumatic Wheel may also be ordered separately along with two 50750 Mounting Spacers.



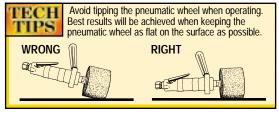




### **MODEL 94465 WHEEL INFLATION TOOL**

- A must with the Dynacushion\*! Controlled inflation/deflation of pneumatic wheel.
- Has 1/4" female thread; fits 1/4" air hose.
- 95633 Nozzle replacement available.





# BUFFER/POLISHER

### ABRASIVE CAPACITY

5" (127 mm), 6" (152 mm) and 8" (203 mm) dia. abrasive discs and polishing pads.

# Right Angle, Rear Exhaust

5/8"-11 Male Spindle **MODEL 51390** 1,250 RPM **MODEL 51391** 1,800 RPM

**MODEL 51392** 2,800 RPM

**MODEL 51393** 4,500 RPM

M14 Male Spindle

**MODEL 51394** 1,250 RPM

**MODEL 51395** 1,800 RPM

**MODEL 51396** 2,800 RPM

**MODEL 51397** 

4,500 RPM

· Reversible handle for right or left hand operation.

# Model 51390 Shown with optional soft, rubber face 8" (203 mm) dia. pad (50829).

### MAINTENANCE INSTRUCTIONS



· Grease the planetary gear assembly with the 95542 Grease by applying 2-3 plunges with the 95541 Grease Gun after every 50 hours of use, achieve maximum gear life.



· Lubricate wick system through the angle gear oil fitting with 2-3 plunges for every 24 hours of use, to achieve maximum gear life. Important: Use only the recommended grease product (order 95848 Gear Oil and 95541 Gun). Lubrication gun should be úpside down during lubrication (see above).

### OPTIONAL BUFFER/POLISHER ACCESSORIES

95542

95848 Gear Oil -2.5 oz (74 ml) Tube





95541 Push-Type Oil

Gun



95848

Foam-Backed, Hook-Face Short Nap Disc Pads For Scrim-Backed Reattachable Discs

8" (203 mm) 54337



Foam-Backed, Rubber-Face, Soft Density Disc Pads For PSA and Screen Abrasives

6" (152 mm) 8" (203 mm) 50828 50829

95542



Rigid-Backed, Hook-Face Disc Pads For Reattachable Discs

5" (127 mm) 6" (152 mm) (203 mm) 50884 50946 50947





Model Number	Motor HP (W)	Motor RPM	Sound Level	Air Flow Rate CFM/SCFM (LPM)	Air Pressure PSIG (Bars)	Spindle Thread	Weight Pound (kg)	Length Inch (mm)	Height Inch (mm)
51390	1 (744)	1,250	83 dB(A)	6/42 (1,201)	90 (6.2)	5/8"-11 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51391	1 (744)	1,800	82 dB(A)	6/42 (1,187)	90 (6.2)	5/8"-11 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51392	1 (744)	2,800	80 dB(A)	6/42 (1,181)	90 (6.2)	5/8"-11 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51393	1 (744)	4,500	79 dB(A)	5/35 (997)	90 (6.2)	5/8"-11 male	4.0 (1.8)	11-11/16 (296)	3-3/4 (95)
51394	1 (744)	1,250	83 dB(A)	6/42 (1,201)	90 (6.2)	M14 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51395	1 (744)	1,800	82 dB(A)	6/42 (1,187)	90 (6.2)	M14 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51396	1 (744)	2,800	80 dB(A)	6/42 (1,181)	90 (6.2)	M14 male	4.5 (2.1)	13-1/8 (333)	3-3/4 (95)
51397	1 (744)	4,500	79 dB(A)	5/35 (997)	90 (6.2)	M14 male	4.0 (1.8)	11-11/16 (296)	3-3/4 (95)

Additional Specifications: Air Inlet Thread 3/8" NPT · Hose I.D. Size 3/8" (10 mm)

Recommended Air Line Accessory: For Best Performance use 95674 Coupler and 96005 Plug (see page 10)

# ACCESSORIES

# Dynaswivel® Air Line Connector

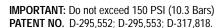
Never Fight an Air Hose Again!

### **MODEL 95461**

- Patented "universal-joint" connects portable air tools to an air line.
- Swivels 360° AT TWO PIVOT POINTS allowing the air hose to drop directly to the floor while providing superb tool handling.



Model	Thread	Weight	Air Flow Range
Number	Size	Pound (kg)	SCFM (LPM)
95461	3/8" NPT	.4 (.18)	26 to 45 (1,275)







# Filter-Regulator-Lubricator

- Provides accurate air pressure regulation, two stage filtration of water/contaminants and lubrication of pneumatic components.
- · Complete FRL models include two 11412 Modular Connectors.
- · Filter contains a 20-micron primary filter element.
- Regulator features safety-lock knob for maintaining accurate air pressure regulation.
- · Lubricator features adjustable oil drop to meter the amount of oil into the air system.

### **MODEL 11405**

40 SCFM (1,133 LPM) @ 100 PSIG (6.9 Bars)

· 3/8" NPT female ports.

### **MODEL 11411**

Up to 55 SCFM (1,558 LPM) @ 100 PSIG (6.9 Bars)

• 1/2" NPT female ports.



IMPORTANT – Filter-Regulator-Lubricators (FRL) are necessary for greater performance and increased life of air tools. We recommend one drop of Dynabrade Air Lube per minute for each 10 SCFM (283 LPM) of air flow (example: drop rate at 4 drops per minute if tool is rated at 40 SCFM - 1,133 LPM). Always mount FRL units as close to the tool as possible. Always mount lubricator higher than the tool or at least the same height. Use one lubricator per tool. Using more than one tool per lubricator may result in one tool receiving lubrication and the others running dry, resulting in premature failure. Dynabrade tools must be used with FRL units to maintain all warranties. For installation and maintenance instructions refer to Dynabrade's Filter-Regulator-Lubricator Manual (PD00.72).

# Tune-Up Kit

### **MODEL 96532**

 Includes assorted parts to maintain your motor in tip-top shape.





# **Vibration Dampening Handle**

### **MODEL 53209**

 Reduces vibration when using unbalanced grinding wheels or accessories.



# ACCESSORIES

# **Couplers and Plugs**

**Provides Maximum Air Flow to Tools** 

### **COMPOSITE-STYLE COUPLERS**

- Available in 1/4" female and male NPT styles. Lightweight 1.4 oz. (.05 Kg), non-marring composite material.
- · Heavy duty construction. Shock-proof, low-vibration, crush-resistant.
- · Easy connect/disconnect by single push-button action. Optimum flow capacity.

Part Number	Thread Size	Air Flow Range (LPM)
94960	1/4" Female NPT	Up to 83 SCFM (2,350)
94980	1/4" Male NPT	Up to 83 SCFM (2,350)

### **COUPLERS**

- · Durable nickel-plated steel and brass construction. Optimum flow capacity.
- Single action quick-connect by just inserting plug into coupler. Pull back on sleeve of coupler for quick disconnect.

Part Number	Coupler Body Size	Thread Size	Air Flow Range (LPM)		
95674	1/4"	1/4" Female NPT	Up to 74 SCFM (2,095)		
95684	1/4"	1/4" Male NPT	Up to 74 SCFM (2,095)		
98261	3/8"	3/8" Female NPT	Up to 138 SCFM (3,900)		
98262	3/8"	3/8" Male NPT	Up to 138 SCFM (3,900)		

### **PLUGS**

- Durable zinc-plated steel construction. Plug has "ported" design to prevent "starving" of the air tool.
- Provides up to twice the air flow compared to standard plug design.

Part	Plug	Thread	Air Flow		
Number	Body Size	Size	Range (LPM)		
96005	1/4"	3/8" Male NPT			

Model 94960



Model 95674



Model 96005



# 4" (102 mm), 5" (127 mm) and 7" (178 mm) Dia. Spiralcool® Disc Pads

- · Medium density, 5/8"-11 female thread.
- Spiral ribs provide contact points and form air flow channels extending disc life.
- · Slotted hub draws cool air behind the disc.
- · Optional 96038 Spanner Wrench, available to tighten flange nut.

Part Number	Pad Dia. Inch (mm)	Pad RPM Maximum	Included Flange Nut
50281	4 (102)	11,000	50286
50282	5 (127)	10,000	50286
50283	7 (152)	8,500	50287





**NOTE:** Most disc sander models will need 0,1 or 2 spacers (97311) included to allow correct spacing when mounting.

# Overhose Assembly

### 53621

 Optional overhose assembly may be used to further reduce noise levels by as much as 5 dB(A). Overhose redirects exhaust away from operator and workpiece.
 3/8" (10 mm) Air Line Assembly (11292) sold separately.



### 30335

3/8" I.D. Male Fitting with 3/8" I.D. Female Fitting

· 5 feet (152 cm) long.



# ACCESSORIES

# Dynabrade Air Lube

### 10W/NR

- · Formulated for pneumatic equipment.
- · Absorbs up to 10% of its weight in water.
- Prevents rust and formation of gum/sludge for longer tool operation with greater power and less downtime.

MODEL 95821 4 oz. (118 ml) MODEL 95843 1 gal. (3.8 l)

MODEL 95842 1 pt. (473 ml)

IMPORTANT: General air tool maintenance begins with motor lubrication. Filter-regulator-lubricators are also necessary for greater performance and increased life of air tools. Dynabrade tools must be used with filter-regulator-lubricators to maintain all warranties.



95541

Push-type Oil (one-hand operation)



MARINADE

### Gear Oil

### **MODEL 95848**

### 2.5 oz. (74 ml) tube

- Formulated for Dynabrade geared tools utilizing a wick-type lubrication system. Apply every 8 hours of operation into tools lubrication fitting.
- For use with our sander/polishers, disc sanders, die grinders and depressed center wheel grinders.
- Failure to lubricate will cause premature gear failure and void warranty.
- Easy to apply using with Dynabrade P/N 95541 Oil Gun (shown, sold separately).

# **Dynūba**®

Cleaning and Polishing Products for Abrasive and Polishing Belts

### Ozone Safe!

- · Our most popular Dynuba product.
- Keeps belts free of metal build-up when sanding non-ferrous metals with grit 80 or finer.
- · Extends belt life.

### **MODEL 60000**

• 11.25 oz. can.

### **MODEL 60001**

· 1-gal. can.

### **MODEL 60003**

· 5-gal. can.

### **MODEL 60004**

• 55-gal. drum.



# Grease

### **MODEL 95542**

10 oz. (283.5 g) Tube

- Multi-purpose grease for all types of bearings, cams, gears.
- High film strength; excellent resistance to water, steam, etc.
- · Workable range 0° F to 300° F.



# Dynacushion® Abrasive Belts

These abrasive belts cut faster and last longer than most coated abrasive products when grinding steel or stainless steel with Dynabrade small belt tools. The belts are very sharp and are excellent for use on most metals including aluminum and titanium when lubricated properly.



# COATED ABRASIVE DYNACUT BELTS

· 15-1/2" (394 mm) Long



Belt Width	Abrasive Grit					
Inch (mm)	60	80	120	180	220	320
3-1/2 (89)	90272	90273	90275	90277	90338	90339

# 3M SCOTCH-BRITE® ABRASIVE IMPREGNATED NON-WOVEN NYLON BELTS

• 15-1/2" (394 mm) Long



<b>Belt Width</b>	Abrasive Grade/Grit Equivalent					
Inch (mm)	Type T Polishing		Very Fine Blue (220-320)	Maroon	Brown	SE Coarse
3-1/2 (89)	90051	90014	90281	90282	90283	90278

# Dynabrade Tools Are Used Everywhere!

SANDING · GRINDING · POLISHING/FINISHING · DEBURRING

www.dynabrade.com

























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