



Cleco[®]
Production Tools

**Material Removal, Pneumatic
Assembly and Specialty Tools**

DRILCO

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Warranty

Cleco® and Cleco Dotco™ are registered trademarks of Apex Brands Inc. Apex Brands, Inc. warrants products and parts sold by it, insofar as they are of its own manufacture, against defects of material and workmanship, under normal use and service in accordance with its written instructions, recommendations, and ratings for installation, operation, maintenance, and service of products, for a period of **ONE YEAR FROM THE DATE OF INITIAL USE, BUT IN NO EVENT SHALL THE WARRANTY EXCEED 24 MONTHS FROM DATE OF DELIVERY TO DISTRIBUTOR.**

Proof of Purchase with shipment date must be furnished by the user to validate the warranty. This warranty applies only to products manufactured by Apex Brands, LLC and specifically excludes products manufactured by others.

Products not manufactured by Apex Brands, LLC are warranted only to the extent and in the manner warranted to Apex Brands, LLC by the manufacturer and then only to the extent Apex Brands, LLC is

able to enforce such warranty. Apex Brands, LLC's warranty with respect to products manufactured by it is limited to the repair or replacement, as Apex Brands, LLC may elect, of any defective part regarding which the Distributor has given 5 days written notice from the discovery of such defect. Installation and transportation costs are not included.

Apex Brands, LLC shall have the option of requiring the return to it of the defective material, transportation prepaid, for inspection. No allowance will be made for repairs without Apex Brands, LLC's approval.

APEX BRANDS, LLC MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, AND HEREBY DISCLAIMS ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Lubrication

Proper lubrication is essential to the economical operation of pneumatic and electric tools. Apex Brands, LLC products perform better and their life is extended by using the recommended lubricants. All lubricants that are listed in the accessory section of this catalog have undergone extensive testing and are recommended for use with Apex Brands, LLC products.

Safe Work Practices

WARNING

The signal word "WARNING" indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury; and, identifies safe work practices in this operating instruction. Observe these notes and proceed with special care in these cases. Pass all safety instructions on to other users. In addition to these instructions, the general local safety and accident prevention rules must be observed.

! WARNING

These Safety Instructions are not intended to be all inclusive. The operator should also read and understand the Product Manual for the specific tool.

! WARNING

Before mounting any abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel or other product, after all tool repairs and whenever a tool is issued for use, the rpm should be checked with a tachometer to insure that its actual speed does not exceed rated speed. Governed tools in use on the job should be checked at least once every twenty hours of use, or once weekly, whichever is more frequent. Tachometers must be checked and calibrated on a regular basis according to the manufacturer's recommendations.

! WARNING

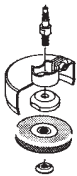
Test and operate tools at 90 PSIG (620 kPa/6.2 bar) maximum pressure (measured at the tool while the tool is running) unless tool is marked otherwise. Use air line filters – regulators – lubricators.

Always remove the air supply hose before working on the tool or changing accessories.

! WARNING

Immediately shut off the tool if unusual sound or vibration is detected. Remove and inspect the wheel and check the tool speed (RPM).

Use of over-speeding grinder or unbalanced wheels may result in serious injury.

! WARNING

Each type of wheel, wire brush, saw blade, flap wheel, and other product, has specific mounting procedures and regulations concerning spindles, flanges, blotters, collets, etc., which should be used. Wheels must mount on tool's spindle freely but not loosely. Spindle nuts must be tightened so as not to crack the wheel with too much force. Nuts must have all thread engagement.

! WARNING

Regularly inspect all wheels, etc., and discard cracked, chipped, or otherwise damaged units.

! WARNING

Select proper guards for the application and mount securely and properly. Always mount guards so that abrasive debris, sparks, etc., are deflected away from the operator.

Safety guards should be in good condition. Any guard which has been subjected to a wheel failure should be discarded and replaced.

! WARNING

Speed rating of abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel, or other products used, must equal or exceed speed rating of tool.

Exceeding the speed of accessories may cause failure of these products and serious operator injury.

Wheels must clearly show the rated speed for its use, or must be discarded and not used.

! WARNING

Wear impact resistant goggles or face shield at all times the tool is in operation. Other protective clothing should be worn, if necessary, for spark protection deflection.

! WARNING

High sound levels can cause permanent hearing loss. Use hearing protection as required by the work environment and grinding application.

! WARNING

Employ a safety program to provide inspection and maintenance of all phases of tool operation and air supply equipment in accordance with "Safety Code for Portable Air Tools," CAGI B186.1 and CAGI B7.1.

Make sure that all repairs are by trained personnel only and that these safety instructions are understood by the user.

! WARNING

When mounting any grinding wheel, the tool should be run at operating speed with the safety guard in place, in a protected area such as under a work bench, for at least one minute. A damaged wheel should fail within that time.

Any suspect wheel of unknown origin should not be used and must be properly disposed.

Cleco® Dotco™

Tools that work with operators, not against them.

Performance

Known for their durability, dependability, and versatility, the Cleco Dotco brand is viewed as the premier line of material removal tools in the industrial marketplace. This is made possible by sound design and manufacturing techniques, producing tools that are small, comfortable and lightweight, yet can withstand the most rugged environments.

Ergonomics

Cleco Dotco tools are designed so their form follows their function. Simply, tools that are more comfortable for the operator to use...tools that work with operators and not against them...including composite housings, low vibration, and low noise.

Versatility

By using only a few motor types, a diverse line of Cleco Dotco products have been developed to handle a wide range of applications. These tools also have a high interchangeability of parts making maintenance easier and more affordable.



Cleco® Dotco™ Quality

Quality Cleco Dotco power tools have been manufactured for over 75 years. Understandably, we are proud of our tools. Proud that they have become the industry standard.

ISO 9001 Certified

Our manufacturing processes are ISO 9001 certified... that means our products are manufactured to the highest standards.

Low Noise, Low Vibration

Noise and vibration of power tools in manufacturing is an important issue. Cleco Dotco tools have been designed to operate as quietly as possible, while providing substantial power. Vibration has been kept to a minimum by using precision parts and high quality bearings.

Precision Parts

It's simple, precision parts let operators manufacture precision products. Whether it is a spindle, a chuck, a motor or an angle head, our parts are manufactured from the finest materials available and are machined to the highest tolerances.



Parts Interchangeability

Maintenance of tools can be time consuming...and expensive. That is why our products have been designed with high parts interchangeability. With fewer parts required to repair our tools, less inventory of parts is required and tools are easier to repair.



GRINDERS

PERFORMANCE, VERSATILITY & QUALITY

When it comes to fine finishing applications such as die grinding or de-burring, no tools are better suited for the job than Cleco® Dotco™ grinders. Dotco's reputation for durability, dependability and versatility is among the highest for fine finishing applications. This is the result of years of continuous improvements in engineering design and manufacturing processes.

Dotco grinders are designed with the operator in mind. They are small, lightweight and comfortable to use, without sacrificing durability. Plus, they incorporate elastomer coatings, and perfectly balanced moving parts to keep vibration to a minimum. This optimal combination of tool characteristics allows the operator to focus doing the best job possible, in the least amount of time.

TOUGH TOOLS FOR TOUGH JOBS

Cleco grinders meet the demanding requirements of industries including shipbuilding, pipe fabricating, transportation equipment manufacturing, and welding applications. Since these types of applications typically require a high material removal rate, Cleco grinders incorporate high horsepower/high RPM motors.

To achieve maximum durability, Cleco grinders use top quality precision components and motor assemblies protected by all metal housings.





Precision Grinders, Carbide Bur and Mounted Wheel Grinders

Used in finishing applications that require a high degree of durability.



Cone and Plug Wheels

Used for general purpose grinding work on mild steel, stainless steel, metal alloys, and cast steel. Applications include:

- Grinding and smoothing fillets, corners
- Mild bending contours
- Beveling workpiece edges prior to welding
- General grinding in confined areas
- Internal grinding



Type 1 Wheels

Used on portable horizontal shaft tools.

Applications Include:

- Notch free grinding
- Pre-weld cleaning
- Smoothing out weld seams
- Grinding concrete or masonry products
- Removing seam lines from castings



Type 1 Cut-Off Wheels

Applications include cutting carbon and stainless steel, ferrous metals, and cast iron



Type 6 & 11 Cup Wheels

Used on right angle or vertical shaft tools.

- Type 6 – Straight Cup Wheels
- Type 11 – Flared Cup Wheels



Type 27/28 Depressed Center Wheels

Type 27 wheels are used at an angle to the workpiece between 30° and 45°. These wheels do not "flat grind."

Type 28 wheels are saucer shaped wheels, which are contoured to provide a correct "built-in" grinding angle. Consequently, Type 28 wheels may be used for flat contact on the workpiece.



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Grinders

Carbide Burrs | Diamond Pins | Mounted Wheels

10-90 Series - Turbine

100,000 RPM 0.06 hp (0.044 kW)

- Requires no air line lubrication - High precision ball bearings for long life expectancy
- Two-stage turbine motor with roll throttle
- Achieves a superb finish with its high speed and precision spindle
- Light weight and durable aluminum housing
- Low vibration and quiet operation minimizes operator fatigue



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
10R9000-03	3 mm	100,000	3/16" Carbide Burr, 3/16" Diamond Pin	Aluminum	0.5 lb 0.23 kg	5.4 in 137 mm	1/8 in
10R9000-08	1/8 in	100,000	3/16" Diamond Pin	Aluminum	0.5 lb 0.23 kg	5.4 in 137 mm	1/8 in

CAUTION: Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: Applicable collet, collet wrenches, 7 ft./2.1 m air supply hose, replaceable cartridge hose filter.

10-95 Series - Turbine

80,000 RPM 0.1 hp (0.074 kW)

- Requires no air line lubrication - High precision ball bearings for long life expectancy
- Maximizes productivity with two-stage turbine motor
- Achieves a superb finish with its high speed and precision spindle
- Light weight and durable aluminum housing
- Low vibration and quiet operation minimizes operator fatigue



Cat. No.	Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
10L9500-36	1/8 in	Lever	80,000	1/4" Carbide Burr, 3/16" Diamond Pin	Aluminum	1.9 lb 0.86 kg	5.8 in 147 mm	1/4 in
10N9500-36*	1/8 in	None	80,000	1/4" Carbide Burr, 3/16" Diamond Pin	Aluminum	1.9 lb 0.86 kg	5.8 in 147 mm	1/4 in

** Tool will start with applied air, intended for fixtured applications;*

CAUTION: Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools.

Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: Applicable collet, collet wrenches, 8 ft./2.4 m air supply hose, built-in air filter, speed regulator

12R91 Series - Governed - Turbine

65,000 RPM 0.1 hp (0.074 kW)

- Requires no air line lubrication - High precision ball bearings for long life expectancy
- Two-stage turbine motor with roll throttle
- Achieves a superb finish with its high speed and precision spindle
- Light weight and durable composite housing
- Low vibration and quiet operation minimizes operator fatigue



Cat. No.	Collet Size	Free Speed (rpm)	Overhose	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12R9180-03	3 mm	65,000	None	1/8" Carbide Burr, 1/8" Diamond Pin	Composite	0.4 lb 0.18 kg	5.8 in 147 mm	1/8 in
12R9180-08	1/8 in	65,000	None	1/8" Carbide Burr, 1/8" Diamond Pin	Composite	0.4 lb 0.18 kg	5.8 in 147 mm	1/8 in
12R9180-43	3 mm	65,000	4 ft 1.2 m	1/8" Carbide Burr, 1/8" Diamond Pin	Composite	0.4 lb 0.18 kg	5.8 in 147 mm	1/8 in
12R9180-48	1/8 in	65,000	4 ft 1.2 m	1/8" Carbide Burr, 1/8" Diamond Pin	Composite	0.4 lb 0.18 kg	5.8 in 147 mm	1/8 in

CAUTION: Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools.

Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: Applicable collet, collet wrenches, collet guard, 5 ft./1.5m air supply hose

12-03 Series - Gearless Right Angle

80,000 RPM 0.1 hp (0.074 kW)

- Industrial bearing provides long life expectancy
- Designed for precision deburring and metal removal
- Compact and light weight composite housing
- Roll throttle equipped
- Includes over-hose



Cat. No.	Collet Size	Free Speed (rpm)	Overhose	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12R0380-13	3 mm	80,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.5 in 140 mm	1/8 in
12R0380-18	1/8 in	80,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.5 in 140 mm	1/8 in
12R0380-43	3 mm	80,000	4 ft 1.2 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.5 in 140 mm	1/8 in

Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool.
Standard Equipment: Applicable collet, collet wrenches, collet guard, 5 ft/1.5 m air supply hose, 1 ft./0.3 m overhose

10-04 Series - Inline

60,000 RPM 0.1 hp (0.074 kW)

- Industrial bearing provides long life expectancy
- Designed for precision deburring and metal removal
- Compact and light aluminum weight housing
- Roll throttle equipped



Collet Guard			Collet Size	Free Speed (rpm)	Overhose	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Without	With	Wrenchless Chuck								
Cat. No.	Cat. No.	Cat. No.								
10R0400-13	10R0401-13	—	3 mm	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	5.8 in 147 mm	1/8 in
10R0400-18	10R0401-18	—	1/8 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	5.8 in 147 mm	1/8 in
—	10R0401-16	—	3/32 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	5.8 in 147 mm	1/8 in
—	10R0401-43	—	3 mm	60,000	4 ft 1.2 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	5.8 in 147 mm	1/8 in
—	—	10R0412-18	1/8 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	6.2 in 157 mm	1/8 in
—	10R0414-43	—	3 mm	60,000	4 ft 1.2 m	1/4" Carbide Burr, 1/4" Diamond Pin	Aluminum	0.2 lb 0.09 kg	5.8 in 147 mm	1/8 in

Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool.
Standard Equipment: Applicable collet, collet wrenches, collet guard, 5 ft/1.5 m air supply hose, 1 ft./0.3 m overhose

Grinders

Carbide Burrs | Diamond Pins | Mounted Wheels

12-04 Series - Inline

60,000 RPM 0.1 hp (0.074 kW)

- Industrial bearing provides long life expectancy
- Designed for precision deburring and metal removal
- Compact and light weight composite housing
- Roll throttle equipped



Collet Guard		Collet Size	Free Speed (rpm)	Overhose	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Without	With								
Cat. No.	Cat. No.								
12R0400-13	12R0410-13	3 mm	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in
12R0400-18	—	1/8 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in
12R0400-43	—	3 mm	60,000	4 ft 1.2 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in
—	12R0410-16	3/32 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in
12R0410-18	—	1/8 in	60,000	1 ft 0.3 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in
12R0410-43	—	3 mm	60,000	4 ft 1.2 m	1/4" Carbide Burr, 1/4" Diamond Pin	Composite	0.3 lb 0.14 kg	5.8 in 147 mm	1/8 in

Use dry air at 90 psi maximum. Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool. Standard Equipment: Applicable collet, collet wrenches, collet guard, 5 ft/1.5 m air supply hose, 1 ft./0.3 m overhose

MP Series - MP4200 & MP4201

70,000 RPM 0.06 hp (0.044 kW)

- Ideal for precision deburring, blending, and smoothing applications
- Lightweight, ergonomically designed and vibration free
- Rear exhaust directs air away from work
- Standard with 5 ft air hose and 1 ft overhose
- Ideal for tight spots
- Slim comfortable design with ergonomic grip for operator comfort
- Double bearings for increased durability on MP4200 inline
- Includes both 1/8 in and 3 mm collets



Model Number	Hp	Free Speed	Abrasive Capacity		Length		Weight		Hose (I.D.)		CFM	Inlet (NPT)	Collet Size
		RPM	Carbide Bur	Diamond Pin	in	mm	lbs.	kg	in	mm			
Inline													
MP4200	0.1	70,000	1/4 in	1/4 in	5.35	136	0.43	0.2	3/16	4.76	8	1/8 in	1/8 in, 30 mm
Angle													
MP4201	0.1	70,000	1/4 in	1/4 in	5.9	150	0.43	0.2	3/16	4.76	8	1/8 in	1/8 in, 30 mm

General: Air Inlet 1/4" NPT. Use 1/4" (6.4 mm) I.D. hose. All tools performance rated @ 90psi (620 kPa) air pressure.

Optional:

MP4200 - 70617600 1/8" collet kit (5 pcs.), 70620200PT - 3mm collet kit (5 pcs.)
MP4201 - 70618800 1/8" collet kit (5 pcs.), 70620400PT - 3mm collet kit (5 pcs.)

220G Series - Push-Pull Start

60,000 RPM 0.1 hp (0.74 kW)

- Industrial bearing provides long life expectancy
- Designed for precision deburring and metal removal
- Compact and light weight housing
- Available in a kit with a complete set of accessories



Collet Guard		Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
With	Without								
Cat. No.	Cat. No.								
220GL-600-C2	—	1/8 in	Lever	60,000	1/4" Carbide Burr	Aluminum	0.4 lb 0.18 kg	4.6 in 117 mm	1/8 in
—	220G-600-C2-K*	-	None	60,000	1/4" Carbide Burr	Aluminum	0.5 lb 0.23 kg	4.6 in 117 mm	1/8 in
220G-600-C2*	—	1/8 in	None	60,000	1/4" Carbide Burr	Aluminum	0.3 lb 0.14 kg	4.6 in 117 mm	1/8 in

Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: Applicable collet, collet wrenches, 8 ft./2.4 m air supply hose, built-in air filter, speed regulator

* Tool will start with applied air, intended for fixtured applications

* Kit includes grinder, hose, collet, collet wrench, cylindrical plain burr 413680, cylindrical radius end burr 413681, cone & taper burr 413682, and tree point burr 413683, carrying case.

14/18 Series - Steel

50,000 RPM 0.1 hp (0.074 kW)

- Industrial bearing provides long life expectancy
- Designed for precision deburring and metal removal
- Compact and light weight housing
- Available in a kit with a complete set of accessories



Cat. No.	Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
14G-810	1/8 in	Roll	50,000	1/4" Carbide Burr, 1/2" Mounted Wheel	Steel	0.3 lb 0.14 kg	3.9 in 99 mm	1/8 in
18G-810D	1/4 in	Dial	40,000	1/4" Carbide Burr, 1/2" Mounted Wheel	Steel	0.9 lb 0.41 kg	5.9 in 150 mm	1/8 in
18G-810D-08	1/8 in	Dial	40,000	1/4" Carbide Burr, 1/2" Mounted Wheel	Steel	0.9 lb 0.41 kg	5.9 in 150 mm	1/8 in

Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: Two collet wrenches, Nosepiece; Use dry air at 90 psi maximum: Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools.

Do not attach a quick-disconnect fitting directly to the tool.

Standard Equipment: 1/4" collet - 7808, Nosepiece - 1011790, 7/16" Spindle Wrench - 1011691, 11/16" Collet Nut Wrench - 1014472

Grinders

Carbide Burrs | Diamond Pins | Mounted Wheels

15Z Series - Air Marking Pen

20,000 RPM 0.06 hp (0.044 kW)

- Sliding sleeve throttle
- Ideal for marking a variety of materials, ranging from Aluminum to Titanium
- Carbide tipped stylus
- Weighs only 4 oz!



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size	Diameter
15Z-710	20,000	1/8" Stylus	Aluminum	0.3 lb 0.14 kg	5.5 in 140 mm	1/4 in	0.6 in

Use dry air at 90 psi maximum. Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool. Standard Equipment: Carbide tipped stylus

15Z Series - Air Marking Pen Kit

20,000 RPM 0.06 hp (0.044 kW)

- Includes 15Z-710 air marking pen
- 5' (1.5 m) air hose assembly
- 3/16" ID with 1/8" NPT fittings
- Includes two 1/2" wrenches
- Durable and convenient carrying case



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
15Z-720	20,000	1/8" Stylus	Aluminum	0.4 lb 0.18 kg	5.50 in 140 mm	1/4 in

Use dry air at 90 psi maximum. Do not lubricate turbine grinders. Lubrication will be detrimental to the operation and life of turbine tools. Do not attach a quick-disconnect fitting directly to the tool. Standard Equipment: Carbide tipped stylus

12-05 Series - with Collet Guard

40,000 RPM 0.2 hp (0.15 kW)

- Robust design have been continuously improved for six decades
- Compact size for ultimate control - easy access to confined areas
- Ideal for die and mold work as well as deburring
- Comprehensive selection of speed available
- Equipped with dial throttle



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12R0500-36	1/4 in	40,000	1/4" Carbide Burr, 7/8" Mounted Wheel	Composite	0.7 lb 0.32 kg	5.9 in 150 mm	1/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 3/16 in / 4.8 mm
 Standard Equipment: Applicable collet, collet wrenches, collet guard, 7 ft / 2.1 m air supply hose

12-10 Series - 300 Series Collet

20,000 - 34,000 RPM 0.3 hp (0.22 kW)

- Durable and ergonomic composite housing
- Compact size for ultimate control - easy access to confined areas
- Ideal for die and mold work as well as deburring
- Comprehensive selection of speed available
- Standard equipped with lock-off lever



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear							
Cat. No.	Cat. No.							
12L1045-36	—	1/4 in	12,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in
12L1046-36	—	1/4 in	18,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in
12S1008-36	12L1028-36	1/4 in	20,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in
12L1003-36	12L1082-36	1/4 in	25,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in
12L1000-36	12L1080-36	1/4 in	30,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in
12L1001-36	12L1081-36	1/4 in	34,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	0.8 lb 0.36 kg	6.0 in 152 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 1/4 in / 6.4 mm

10-10 Series - 200 & 300 Series Collet

25,000 - 34,000 RPM 0.3 hp (0.22 kW)

- Durable aluminum housing
- Compact size for ultimate control - easy access to confined areas
- Ideal for die and mold work as well as deburring
- Comprehensive selection of speed available



Exhaust		Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear								
Cat. No.	Cat. No.								
10L1003-36	10L1082-36	1/4 in	Lock Off Lever	25,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in
—	10N1080-01*	1/4 in	None	30,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in
10L1000-36	10L1080-36	1/4 in	Lock Off Lever	30,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in
—	10L1097-36	1/4 in	Lock Off Lever	30,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum With Bail	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in
10L1001-36	10L1081-36	1/4 in	Lock Off Lever	34,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in
—	10N1081-36*	1/4 in	None	34,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	0.7 lb 0.32 kg	4.6 in 117 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Standard Equipment: Applicable collet, collet wrenches

Minimum Hose I.D.: 1/4 in / 6.4 mm

* Tool will start with applied air, intended for fixtured applications

12-20 Series - 200 Series Collet

18,000 - 25,000 RPM 0.6 hp (0.45 kW)

- Ergonomic composite housing
- Front and rear exhaust models available
- Designed to work comfortably with the operator
- Standard equipped with 200 series collet



Exhaust		Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear							
Cat. No.	Cat. No.							
12L2003-01	—	Lock Off Lever	12,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	1.4 lb 0.64 kg	6.9 in 175 mm	1/4 in
12L2002-01	12L2082-01	Lock Off Lever	18,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	1.4 lb 0.64 kg	6.9 in 175 mm	1/4 in
12L2001-01	12L2081-01	Lock Off Lever	20,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	1.4 lb 0.64 kg	6.9 in 175 mm	1/4 in
—	12B2080-01	Button	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	1.4 lb 0.64 kg	6.9 in 175 mm	1/4 in
12L2000-01	12L2080-01	Lock Off Lever	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	1.4 lb 0.64 kg	6.9 in 175 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Standard Equipment: Applicable collet, collet wrenches

Minimum Hose I.D.: 1/4 in / 6.4 mm

10-20 Series - 200 & 300 Series Collet

25,000 RPM 0.6 hp (0.45 kW)

- Durable aluminum housing
- Front, side, and rear exhaust models available
- Designed to work comfortably with the operator



Exhaust		Collet Guard	Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear									
Cat. No.	Cat. No.									
10L2002-36	—	300 Series	1/4 in	Lock Off Lever	18,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.6 in 168 mm	1/4 in
—	10L2082-01	200 Series	1/4 in	Lock Off Lever	18,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.6 in 168 mm	1/4 in
10L2005-01	—	200 Series	1/4 in	Lock Off Lever	20,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.3 lb 0.59 kg	5.7 in 145 mm	1/4 in
—	10L2081-01	200 Series	1/4 in	Lock Off Lever	20,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.3 lb 0.59 kg	5.8 in 147 mm	1/4 in
10L2000-01	10L2080-01	200 Series	1/4 in	Lock Off Lever	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.3 lb 0.59 kg	5.8 in 147 mm	1/4 in
10L2000-36	—	300 Series	1/4 in	Lock Off Lever	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.2 lb 0.54 kg	6.4 in 163 mm	1/4 in
—	10L2080-36	300 Series	1/4 in	Lock Off Lever	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.3 lb 0.59 kg	6.4 in 163 mm	1/4 in
—	10N2080-01**	200 Series	1/4 in	None	25,000	3/4" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.3 lb 0.59 kg	5.8 in 147 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 *Tool will start with applied air, intended for fixtured applications

216 Series - 200 Series Collet

25,000 RPM 0.7 hp (0.45 kW)

- Designed for demands of heavy industries, such as shipbuilding, foundries, metal fabrication, etc.
- Rugged advanced alloy housing
- Front and side exhaust models available



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Side							
Cat. No.	Cat. No.							
216GLFB-250-C4	216GLSB-250-C4	1/4 in	25,000	3/4" Carbide Burr	Aluminum	1.3 lb 0.59 kg	6.3 in 160 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 1/4 in / 6.4 mm

Grinders

Carbide Burrs | Mounted Wheels

236 Series - 200 Series Collet

18,000 - 25,000 RPM 0.6 hp (0.45 kW)

- Designed for demands of heavy industries, such as shipbuilding, foundries, metal fabrication, etc.
- Durable advanced alloy housing
- Front, side, and rear exhaust models available



Exhaust			Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Rear	Front	Side							
Cat. No.	Cat. No.	Cat. No.							
236GLR-180-C4	—	—	1/4 in	18,000	1" Carbide Burr	Aluminum	1.3 lb 0.59 kg	7.4 in 188 mm	1/4 in
—	236GLF-180-C4	236GLS-180-C4	1/4 in	18,000	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.8 in 173 mm	1/4 in
236GLR-200-C4	—	—	1/4 in	20,000	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	1.3 lb 0.59 kg	7.4 in 188 mm	1/4 in
—	—	236GLS-240-C4	1/4 in	24,000	1" Carbide Burr	Aluminum	1.4 lb 0.64 kg	6.8 in 173 mm	1/4 in
236GLR-250-C4	—	—	1/4 in	25,000	1" Carbide Burr	Aluminum	1.3 lb 0.59 kg	7.4 in 188 mm	1/4 in
—	236GLF-250-C4	—	1/4 in	25,000	1" Carbide Burr	Aluminum	1.4 lb 0.64 kg	6.8 in 173 mm	1/4 in
—	236GLF-250-C6	—	3/8 in	25,000	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.8 in 173 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

12-25 Series - 200 & 300 Series Collet

12,000 - 23,000 RPM 0.9 hp (0.67 kW)

- Ergonomic composite housing
- Optional over-hose available
- High power-to-weight ratio for optimal productivity



Exhaust		Collet Guard	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear								
Cat. No.	Cat. No.								
12L2562-01*	12L2542-01*	200 Series	1/4 in	12,000	1" Carbide Bur, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	7.4 in 188 mm	1/4 in
12L2565-01*	12L2545-01*	200 Series	1/4 in	15,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	7.4 in 188 mm	1/4 in
12L2502-01	12L2582-01	200 Series	1/4 in	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	7.3 in 185 mm	1/4 in
12L2568-01*	12L2548-01*	200 Series	1/4 in	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	7.4 in 188 mm	1/4 in
12L2500-01	12L2580-01	200 Series	1/4 in	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	7.3 in 185 mm	1/4 in
12L2500-36	12L2580-36	300 Series	1/4 in	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	1.8 lb 0.82 kg	8.0 in 203 mm	1/4 in

* Governed
All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

10-25 Series - 200 & 300 Series Collet

18,000 - 23,000 RPM 0.9 hp (0.67 kW)

- Aluminum housing
- Compact, yet powerful motor



Exhaust		Collet Option	Collet Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front Cat. No.	Rear Cat. No.									
10L2562-01	—	200 Series	1/4 in	Lock Off Lever	12,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.9 lb 0.86 kg	7.0 in 178 mm	1/4 in
10L2565-01	—	200 Series	1/4 in	Lock Off Lever	15,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.9 lb 0.86 kg	7.0 in 178 mm	1/4 in
10L2502-01	—	200 Series	1/4 in	Lock Off Lever	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.3 in 160 mm	1/4 in
10L2568-01	—	200 Series	1/4 in	Lock Off Lever	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.5 lb 0.68 kg	7.3 in 185 mm	1/4 in
—	10L2582-01	200 Series	1/4 in	Lock Off Lever	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.5 lb 0.68 kg	7.3 in 185 mm	1/4 in
10L2500-01	10L2580-01	200 Series	1/4 in	Lock Off Lever	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.3 in 160 mm	1/4 in
10L2500-36	—	300 Series	1/4 in	Lock Off Lever	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	7.1 in 180 mm	1/4 in
—	10L2580-36	300 Series	1/4 in	Lock Off Lever	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.5 lb 0.68 kg	7.9 in 201 mm	1/4 in
10B2500-01*	—	200 Series	1/4 in	Button	23,000	1" Carbide Burr, 1.5" Mounted Wheel	Aluminum	1.4 lb 0.64 kg	6.3 in 160 mm	1/4 in

MP Series - MP4430

23,000 RPM 0.3 hp (0.223 kW)

- Ideal for general purpose applications such as porting, light weld grinding, polishing, and breaking up sharp edges
- Ergonomic grip for operator comfort
- Built-in power regulator
- 360° air inlet swivel
- Rear exhaust directs air away from work
- 1/4 in capacity collet



MP4430

MP Series - MP4458

25,000 RPM 0.5 hp (0.372 kW)

- Rugged, all-steel housing is ideal for rapid metal removal
- Trim, ergonomic design enables excellent control
- Front exhaust
- 1/4 in capacity collet - 200 Series



MP4458

Model Number	Hp	Free Speed	Mounted Wheels	Carbide Bur	Length		Weight		Hose (I.D.)		CFM	Inlet NPT	Collet Size
		RPM			in	mm	lbs	kg	in	mm			
MP4430	0.3	23,000	1 in	1/2 in	6	153	0.875	0.41	3/8	10	17	1/4 in	1/4 in
MP4458	0.5	25,000	1 1/2 in	1 in	6 1/16	154	1.3	0.60	3/8	10	23	1/4 in	1/4 in

General: Air Inlet 1/4" NPT. Use 1/4" (6.4 mm) I.D. hose. All tools performance rated @ 90psi (620 kPa) air pressure.

Optional: MP4424 & MP4430: 70619500 3/16" collet; 70610500 1/4" collet; 70610600 6 mm collet; MP4424: 543944 - 16oz. angle head grease.

12-11 Series - 300 Series Collet

25,000 - 28,000 RPM 0.3 hp (0.22 kW)

- 3" and 5" extended housings available
- Overhose available
- Multiple industrial bearings for low vibration and perfect balance



Exhaust		Collet Size	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear								
Cat. No.	Cat. No.								
12L1111-36	—	1/4 in	25,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	8.9 in 226 mm	1/4 in
12L1100-36	12L1180-36	1/4 in	28,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	8.9 in 226 mm	1/4 in
12L1101-36	12L1181-36	1/4 in	28,000	5 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.3 lb 0.59 kg	10.9 in 277 mm	1/4 in
12L1112-36	—	1/4 in	25,000	5 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.3 lb 0.59 kg	10.9 in 277 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 1/4 in / 4.8 mm

10-11 Series - 300 Series Collet

25,000 - 28,000 RPM 0.3 hp (0.22 kW)

- 3" & 5" extended housing for hard to reach areas
- Available in a variety of speeds
- Balanced and comfortable to minimize fatigue



Exhaust		Collet Size	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Front	Rear								
Cat. No.	Cat. No.								
10L1100-36	—	1/4 in	28,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.0 lb 0.45 kg	7.6 in 193 mm	1/4 in
10L1101-36	—	1/4 in	28,000	5 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.2 lb 0.54 kg	9.8 in 249 mm	1/4 in
10L1111-36	—	1/4 in	25,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.0 lb 0.45 kg	7.6 in 193 mm	1/4 in
10L1112-36	—	1/4 in	25,000	5 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.2 lb 0.54 kg	9.8 in 249 mm	1/4 in
—	10L1180-36	1/4 in	28,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.1 lb 0.50 kg	8.4 in 213 mm	1/8 in
—	10L1181-36	1/4 in	28,000	5 in	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.2 lb 0.54 kg	9.8 in 249 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 1/4 in / 6.4 mm

12-26 Series - 5" (127 mm) Extension - 200 Series Collet

18,000 - 22,000 RPM 0.9 hp (0.67 kW)

- 5" Extended housing for hard to reach areas
- Available in a variety of speeds
- Balanced and comfortable to minimize fatigue



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
Side	Rear							
Cat. No.	Cat. No.							
12L2662-01*	12L2682-01	1/4 in	12,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	2.9 lb 1.32 kg	12.9 in 328 mm	1/4 in
12L2602-01	—	1/4 in	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	2.9 lb 1.32 kg	12.9 in 328 mm	1/4 in
12L2668-01*	—	1/4 in	18,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	2.9 lb 1.32 kg	12.9 in 328 mm	1/4 in
12L2600-01	12L2680-01	1/4 in	22,000	1" Carbide Burr, 1.5" Mounted Wheel	Composite	2.9 lb 1.32 kg	12.9 in 328 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 * Governed

12-26 Series - Multiple Extension

18,000 RPM 0.9 hp (0.67 kW)

- Can be customized with multiple extensions for access to the most far-reaching areas
- Multiple industrial bearings provides optimal balance and power transfer
- Designed to work comfortably with the operator
- Available with 300 series 1/4" collet and 3/8"-24" external thread



Cat. No.	Exhaust	Termination	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12S2674-1A	Rear	1/4" Collet	18,000	7.25 in	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	3.0 lb 1.36 kg	16.3 in 414 mm	1/4 in
12S2674-2A	Rear	1/4" Collet	18,000	14.50 in	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	4.2 lb 1.91 kg	23.5 in 597 mm	1/4 in
12S2674-2C	Rear	3/8" - 24 e	18,000	14.50 in	1.25" Cone or Plug Wheel	Composite	4.2 lb 1.91 kg	23.5 in 597 mm	1/4 in
12S2674-3A	Rear	1/4" Collet	18,000	21.75 in	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	5.4 lb 2.45 kg	30.8 in 782 mm	1/4 in
12S2674-3C	Rear	3/8" - 24 e	18,000	21.75 in	1.25" Cone or Plug Wheel	Composite	5.4 lb 2.45 kg	30.8 in 782 mm	1/4 in
12S2674-4A	Rear	1/4" Collet	18,000	29.00 in	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	6.6 lb 2.99 kg	38.0 in 965 mm	1/4 in
12S2674-4C	Rear	3/8" - 24 e	18,000	29.00 in	1.25" Cone or Plug Wheel	Composite	6.6 lb 2.99 kg	38.0 in 965 mm	1/4 in
12S2674-5A	Rear	1/4" Collet	18,000	36.25 in	3/4" Carbide Burr, 1.5" Mounted Wheel	Composite	7.8 lb 3.54 kg	45.3 in 1151 mm	1/4 in
12S2674-5C	Rear	3/8" - 24 e	18,000	36.25 in	1.25" Cone or Plug Wheel	Composite	7.8 lb 3.54 kg	45.3 in 1151 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 5/16 in / 7.9 mm

236 Series - Extended - 200 Series Collet

24,000 RPM 0.9 hp (0.6 kW)

- Rugged all aluminum housing
- Heavy industrial use for shipyards, foundries, metal fabrication, rail yards, etc.
- 5" Extended housing for hard to reach areas
- Offers higher horsepower and torque levels than similar competitive tools



Cat. No.	Exhaust	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
236GEL-240-C4	Side	1/4 in	24,000	1" Carbide Burr, 2" Mounted Wheel	Aluminum	2.3 lb 1.04 kg	12.4 in 315 mm	1/4 in
236GELR-180-C4	Rear	1/4 in	18,000	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	2.2 lb 1.00 kg	12.3 in 312 mm	1/4 in

*All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm*

25 Series - Extended - Governed - 200 Series Collet

18,000 RPM 1.4 hp (1.0 kW)

- Lightweight, Ergonomic housing
- Heavy industrial use for shipyards, foundries, metal fabrication, rail yards, etc.
- Extended housing for hard to reach areas
- Offers higher horsepower and torque levels than similar competitive tools



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
25GELC-120-C4	1/4 in	12,000	1.25" Carbide Burr, 2" Mounted Wheel	Aluminum	3.0 lb 1.36 kg	14.5 in 368 mm	3/8 in
25GELC-180-C4	1/4 in	18,000	1.25" Carbide Burr, 2" Mounted Wheel	Aluminum	3.0 lb 1.36 kg	14.5 in 368 mm	3/8 in

*All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 3/8 in / 9.5 mm*

Grinders

Carbide Burrs | Mounted Wheels

12LF Series - 300 Series Collet

12,000 - 20,000 RPM 0.4 hp (0.29 kW)

- Composite housing
- Front and rear exhaust models available
- Ergonomic and balanced design minimizes operator fatigue



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Front	Rear							
Cat. No.	Cat. No.							
12LF200-36	12LF280-36	1/4 in	12,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
12LF201-36	12LF281-36	1/4 in	20,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

10LF Series - 300 Series Collet

12,000 - 20,000 RPM 0.4 hp (0.29 kW)

- Aluminum housing for high durability
- Front and rear exhaust models available
- Well suited for any industrial grinding application



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Front	Rear							
Cat. No.	Cat. No.							
10LF200-36	10LF280-36	1/4 in	12,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
10LF201-36	10LF281-36	1/4 in	20,000	1/2" Carbide Burr, 1" Mounted Wheel	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

MP Series - MP4424

20,000 RPM 0.3 hp (0.223 kW)

- Ideal for general purpose applications such as porting, light weld grinding, polishing, and breaking up sharp edges
- Ergonomic grip for operator comfort
- Built-in power regulator
- 360° air inlet swivel
- Rear exhaust directs air away from work
- 1/4 in capacity collet



Model Number	Hp	Free Speed	Mounted Wheels	Carbide Burr	Length		Weight		Hose (I.D.)		CFM	Inlet NPT	Collet Size
		RPM			in	mm	lbs	kg	in	mm			
MP4424	0.3	20,000	1 in	1/2 in	6 3/8	160	1.25	0.55	3/8	10	18	1/4 in	1/4 in

General: Air Inlet 1/4" NPT. Use 1/4" (6.4 mm) I.D. hose. All tools performance rated @ 90psi (620 kPa) air pressure.

Optional: MP4424: 70619500 3/16" collet; 70610500 1/4" collet; 70610600 6 mm collet; 543944 - 16oz. angle head grease.

12-13 Series - Gearless - 300 Series Collet

20,000 - 30,000 RPM 0.3 hp (0.22 kW)

- Composite housing
- Front and rear exhaust models available
- Suitable for a wide range of finishing and deburring applications



Exhaust		Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Front	Rear							
Cat. No.	Cat. No.							
12L1302-36	12L1382-36	1/4 in	20,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1301-36	12L1381-36	1/4 in	25,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1300-36	12L1380-36	1/4 in	30,000	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

12-23 Series - Gearless - 200 Series Collet

20,000 RPM 0.5 hp (0.38 kW)

- Composite housing
- Front, side and rear exhaust models available
- Suitable for a wide range of finishing and deburring applications



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
12L2384-01	1/4 in	20,000	3/4" Carbide Burr, 1.25" Mounted Wheel	Composite	2.0 lb 0.91 kg	7.5 in 191 mm	5.5 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

12-22 Series - 300 Series Collet

12,000 RPM 0.6 hp (0.45 kW)

- Ergonomic composite housing
- Heavy duty low profile head for greater accessibility
- High output motor in a lightweight package
- 3" Extended head available



Cat. No.	Termination	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L2277-36	1/4" Collet	12,000	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	2.2 lb 1.00 kg	10.0 in 254 mm	1/4 in
12L2278-36	1/4" Collet	14,500	3 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	2.2 lb 1.00 kg	10.0 in 254 mm	1/4 in
12L2218-36	1/4" Collet	18,000	0 in	1/2" Carbide Burr, 1" Mounted Wheel	Composite	1.7 lb 0.77 kg	7.5 in 191 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

12-22 Series - Heavy Duty Head - 200 Series Collet

9,000 RPM 0.6 hp (0.45 kW)

- Composite housing
- Front, side, and rear exhaust models available
- Ergonomic and balanced design minimized operator fatigue



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
12L2251-01	1/4 in	9,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.2 lb 1.45 kg	9.3 in 236 mm	3.9 in	1/4 in
12L2252-01	1/4 in	11,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.2 lb 1.45 kg	9.3 in 236 mm	3.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

216 Series - Heavy Duty Head - 200 Series Collet

11,500 - 16,500 RPM 0.7 hp (0.4 kW)

- Rugged and durable aluminum housing
- Designed for heavy industries such as shipbuilding, foundries, metal fabrication, etc.
- Robust angle head design provides excellent durability



Cat. No.	Exhaust	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
216GLF-115A-C4	Front	1/4 in	11,500	1" Carbide Burr	Aluminum	2.4 lb 1.09 kg	7.1 in 180 mm	2.2 in	1/4 in
216GLFC-165A-C4	Rear	1/4 in	16,500	3/4" Carbide Burr	Aluminum	1.7 lb 0.77 kg	9.1 in 231 mm	2.2 in	1/4 in
216GLSC-165A-C4	Side	1/4 in	16,500	3/4" Carbide Burr	Aluminum	1.7 lb 0.77 kg	9.1 in 231 mm	2.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

236 Series - Heavy Duty Head - 200 Series Collet

11,500 - 16,500 RPM 0.8 hp (0.6 kW)

- Rugged and durable aluminum housing
- Designed for heavy industries such as shipbuilding, foundries, metal fabrication, etc.
- Robust angle head design provides excellent durability



Cat. No.	Exhaust	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
236GLF-115A-C4	Front	1/4 in	11,500	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	2.6 lb 1.18 kg	7.6 in 193 mm	2.2 in	1/4 in
236GLR-115A-C4	Rear	1/4 in	11,500	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	2.1 lb 0.95 kg	8.3 in 211 mm	2.2 in	1/4 in
236GLSC-115A-C4	Side	1/4 in	11,500	1" (25 mm) Carbide Burr, 2" (50 mm) Mounted Wheel	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	2.2 in	1/4 in
236GLFC-165A-C4	Front	1/4 in	16,500	3/4" Carbide Burr	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	2.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 5/16 in / 7.9 mm

12-27 Series - Heavy Duty Head - 200 Series Collet

6,000 - 11,000 RPM 0.9 hp (0.67 kW)

- Composite housing
- Front, side and rear exhaust models available
- Robust design perfectly suited for industrial applications



Cat. No.	Exhaust	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
12L2750-01	Side	1/4 in	6,000	1" Carbide Burr, 1" Mounted Wheel	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2780-01	Rear	1/4 in	6,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2751-01	Front	1/4 in	9,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2752-01	Side	1/4 in	11,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2782-01	Rear	1/4 in	11,000	3/4" Carbide Burr, 2" Mounted Wheel	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 5/16 in / 7.9 mm

Grinders

Carbide Burrs | Mounted Wheels

12-27 Series - 300 Series Collet

18,000 RPM 0.9 hp (0.67 kW)

- Composite housing
- Powerful motor with rear exhaust
- Robust design perfectly suited for industrial applications
- Standard 3" extension



Cat. No.	Collet Size	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length
12L2777-36	1/4 in	12,000	3 in	3/4" Carbide Burr, 1.25" Mounted Wheel	Composite	2.3 lb 1.04 kg	10.5 in 267 mm
12L2776-36	1/4 in	13,500	3 in	3/4" Carbide Burr, 1.25" Mounted Wheel	Composite	2.3 lb 1.04 kg	10.5 in 267 mm
12L2778-36	1/4 in	14,500	3 in	3/4" Carbide Burr, 1.25" Mounted Wheel	Composite	2.3 lb 1.04 kg	10.5 in 267 mm
12L2718-36	1/4 in	18,000	0 in	3/4" Carbide Burr, 1.25" Mounted Wheel	Composite	1.9 lb 0.86 kg	8.0 in 203 mm

*All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm*

136 Series - Gearless

11,500 - 18,000 RPM 0.6 hp (0.4 kW)

- Compact and powerful
- 1 Piece housing
- Maximum durability with gearless drive
- Equipped with lock-off lever



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
136VGL-135-D3T4	3/8" - 24 e	13,500	4" (100 mm) Type 27	Steel	2.4 lb 1.09 kg	7.3 in 185 mm	4.0 in	1/2 in
136VGL-180-D3T3	3/8" - 24 e	18,000	3" (75 mm) Type 27	Steel	2.4 lb 1.09 kg	7.3 in 185 mm	4.0 in	1/2 in
136VGL-180-D3T4	3/8" - 24 e	18,000	4" (100 mm) Type 27	Steel	2.4 lb 1.09 kg	7.3 in 185 mm	4.0 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/4 in / 19 mm
Standard Equipment: Wheel guard, flange wrench, Operating instructions & service manual

216 Series - Heavy Duty Head

11,500 RPM 0.6 hp (0.4 kW)

- Rugged and durable aluminum housing
- Robust and long lasting angle head for the most demanding applications
- Powerful motor stays durable in the harshest environments



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
216GLF-115A-D3T4	Front	3/8"-24 e	11,500	4" (100 mm) Type 27	Aluminum	2.7 lb 1.22 kg	7.1 in 180 mm	3.2 in	1/4 in
216GLF-115A-D3T45	Front	3/8"-24 e	11,500	4.5" (115 mm) Type 27	Aluminum	2.7 lb 1.22 kg	7.1 in 180 mm	3.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

216 Series - Extended Head

13,500 RPM 0.6 hp (0.4 kW)

- Rugged and durable aluminum housing
- Extended head for better reach and accessibility
- Lock-off lever for safe operation



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
216GLFB-135A-D3T4	Front	3/8" - 24 e	13,500	4" (100 mm) Type 27	Aluminum	2.7 lb 1.22 kg	9.1 in 231 mm	2.2 in	1/4 in
216GLSB-135A-D3T4	Side	3/8" - 24 e	13,500	4" (100 mm) Type 27	Aluminum	2.4 lb 1.09 kg	9.1 in 231 mm	2.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

Grinders

Type 27 Depressed Center Wheels

236 Series - Extended Head

13,500 RPM 0.8 hp (0.6 kW)

- Extended head for better excess ability reach
- Powerful and durable material removal
- Robust and long lasting angle head for the most demanding applications



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
236GLSB-135A-D3T4	Side	3/8" - 24 e	13,500	4" (100 mm) Type 27	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	2.2 in	1/4 in
236GLRB-135A-D3T4	Rear	3/8" - 24 e	13,500	4" (100 mm) Type 27	Aluminum	2.0 lb 0.91 kg	7.6 in 193 mm	2.2 in	1/4 in
236GLFB-135A-D3T4	Front	3/8" - 24 e	13,500	4" (100 mm) Type 27	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	2.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/4 in / 6.4 mm

Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

12-27 Series - Heavy Duty Head

14,500 RPM 0.9 hp (0.67 kW)

- Ergonomic composite housing
- Durable and low profile angle head
- Low vibration and high output motor provides superior productivity



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L2714-28	3/8"	14,500	4" (100 mm) Type 1	Composite	3.2 lb 1.45 kg	8.0 in 203 mm	1/4 in
12L2718-28	3/8"	18,000	4" (100 mm) Type 1	Composite	3.2 lb 1.45 kg	8.0 in 203 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/2 in / 12.7 mm

Standard Equipment: Wheel guard and flange wrench

236 Series - Heavy Duty Head

11,500 RPM 0.9 hp (0.6 kW)

- Rugged and durable aluminum housing
- Robust and long lasting angle head for the most demanding applications
- Renowned Cleco motor stays durable in the harshest environments



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
236GLR-115A-D3T45	Rear	3/8" - 24 e	11,500	4.5" (115 mm) Type 27	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	3.2 in	1/4 in
236GLF-115A-D3T4	Front	3/8" - 24 e	11,500	4" (100 mm) Type 27	Aluminum	3.0 lb 1.36 kg	7.6 in 193 mm	3.2 in	1/4 in
236GLS-115A-D3T4	Side	3/8" - 24 e	11,500	4" (100 mm) Type 27	Aluminum	2.5 lb 1.13 kg	7.6 in 193 mm	3.2 in	1/4 in
236GLR-115A-D3T4	Rear	3/8" - 24 e	11,500	4" (100 mm) Type 27	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	3.2 in	1/4 in
236GLF-115A-D3T45	Front	3/8" - 24 e	11,500	4.5" (115 mm) Type 27	Aluminum	3.0 lb 1.36 kg	7.6 in 193 mm	3.2 in	1/4 in
236GLR-115A-D3T5	Rear	3/8" - 24 e	11,500	5" (150 mm) Type 27	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	3.2 in	1/4 in
236GLR-115A-D5T45	Rear	5/8" - 11 e	11,500	4.5" (115 mm) Type 27	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	3.2 in	1/4 in
236GLRE-115A-D5T45	Rear	5/8" - 11 e	11,500	4.5" (115 mm) Type 27	Aluminum	3.5 lb 1.59 kg	7.6 in 193 mm	3.2 in	1/4 in
236GLS-115A-D5T45	Side	5/8" - 11 e	11,500	4.5" (115 mm) Type 27	Aluminum	2.5 lb 1.13 kg	7.6 in 193 mm	3.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

25 Series - Governed - Right Angle

6,000 - 8,500 RPM 1.4 hp (1.3 kW)

- Rugged and durable aluminum housing
- Powerful and robust motor with side exhaust
- Heavy duty angle head designed to outperform and outlast



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
25GL-60A-D5T7	5/8" - 11 e	6,000	7" (180 mm) Type 27	Aluminum	5.6 lb 2.54 kg	10.0 in 254 mm	4.0 in	3/8 in
25GL-77A-D5T7	5/8" - 11 e	7,700	7" (180 mm) Type 27	Aluminum	5.6 lb 2.54 kg	10.0 in 254 mm	4.0 in	3/8 in
25GL-85A-D5T7	5/8" - 11 e	8,500	7" (180 mm) Type 27	Aluminum	5.6 lb 2.54 kg	10.0 in 254 mm	4.0 in	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/8 in / 9.5 mm
Standard Equipment: Wheel guard, flange wrench, Operating instructions & service manual

Grinders

Type 27 Depressed Center Wheels

1660 Series - Right Angle Grinder

- Compact, yet powerful 1.6 hp motor, governed at 12,000 rpm
- Available with 4", 4.5", 5" guard options
- Reversible safety lever throttle
- Dual auxiliary handle positions



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
1660AGL-04	3/8"- 24 e	12,000	4" (100 mm), Type 27/42	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-05*	5/8"- 11 e	12,000	5" (125 mm), Type 27/42	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-05-M14*	M14 e	12,000	5" (125 mm), Type 27/42	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-45*	5/8"- 11 e	12,000	4.5" (115 mm), Type 27/42	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 3/4 in / 19 mm

Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals

* Also compatible with Type 27/29 Abrasive

2260 Series - Right Angle Grinder

- High performance 2.2 hp motor, Governed at 8,400 rpm
- Available with 6", 7" guard options
- Reversible safety lever throttle
- Dual auxiliary handle positions
- Maximum material removal for a right angle grinder



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
2260AGL-06	5/8"- 11 e	8,400	6" (150 mm), Type 27/42	Aluminum	7.3 lb 3.31 kg	12.1 in 307 mm	2.9 in	1/2 in
2260AGL-07	5/8"- 11 e	8,400	7" (180 mm), Type 27/42	Aluminum	7.3 lb 3.31 kg	12.1 in 307 mm	2.9 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 3/4 in / 19 mm

Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals

Cleco - Right Angle Grinder

- High-performance 1.7Hp motor
- Available in 4", 4.5" and 5" disc size
- Quick change spindle lock
- Versatile 270° adjustable guard
- Quieter operation with rear exhaust overhose standard

Coming Soon!



216 Series - Heavy Duty Head

11,500 RPM 0.6 hp (0.4 kW)

- Rugged and durable aluminum housing
- Robust and long lasting angle head for the most demanding applications
- Powerful motor stays durable in the harshest environments



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
216GLF-115A-W3T4	Front	3/8" - 24 e	11,500	4" (100 mm) Type 1	Aluminum	2.7 lb 1.22 kg	7.1 in 180 mm	3.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

216 Series - Extended Head

13,500 RPM 0.6 hp (0.4 kW)

- Rugged and durable aluminum housing
- Extended head for better reach and accessibility
- Lock-off lever for safe operation



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
216GLFB-135A-W3T4	Front	3/8" - 24 e	13,500	4" (100 mm) Type 1	Aluminum	2.1 lb 0.95 kg	9.6 in 244 mm	2.2 in	1/4 in
216GLSB-135A-W3T4	Side	3/8" - 24 e	13,500	4" (100 mm) Type 1	Aluminum	2.4 lb 1.09 kg	9.1 in 231 mm	2.2 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 Standard Equipment: Wheel guard, wheel adapter, spindle wrench, Operating instructions & service manual

236 Series - Heavy Duty Head

11,500 RPM 0.8 hp (0.6 kW)

- Rugged and durable aluminum housing
- Heavy duty and extended head models available
- Designed for heavy duty material removal applications



Cat. No.	Exhaust	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
236GLF-115A-W3T4	Front	11,500	4" (100 mm) Type 1	Aluminum	3.0 lb 1.36 kg	7.6 in 193 mm	1/4 in
236GLR-115A-W3T4	Rear	11,500	4" (100 mm) Type 1	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	1/4 in
236GLS-115A-W3T4	Side	11,500	4" (100 mm) Type 1	Aluminum	2.5 lb 1.13 kg	8.3 in 211 mm	1/4 in
236GLSB-115A-W3T4	Side	11,500	4" (100 mm) Type 1	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 1/2 in / 12.7 mm
 Standard Equipment: Wheel guard and flange wrench

Grinders

Type 1 Cut-Off Wheels

236 Series - Extended Head

11,500 RPM 0.8 hp (0.6kW)

- Rugged and durable aluminum housing
- Heavy duty and extended head models available
- Designed for heavy duty material removal applications



Cat. No.	Exhaust	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
236GLFB-135A-W3T4	Front	13,500	4" (100 mm) Type 1	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	1/4 in
236GLRB-135A-W3T4	Rear	13,500	4" (100 mm) Type 1	Aluminum	2.0 lb 0.91 kg	7.6 in 193 mm	1/4 in
236GLSB-135A-W3T4	Side	13,500	4" (100 mm) Type 1	Aluminum	2.0 lb 0.91 kg	9.6 in 244 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Wheel guard and flange wrench

25 Series - Governed - Right Angle

- Rugged and durable all aluminum housing
- Vibration - dampened handle for operator comfort
- Balanced design works with the operator for maximum material removal



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
25GL-60A-W5T7	Side	5/8" - 11 e	6,000	7" (180 mm) Type 1	Aluminum	5.6 lb 2.54 kg	10.0 in 254 mm	4.0 in	3/8 in
25GL-85A-W5T7	Side	5/8" - 11 e	8,500	7" (180 mm) Type 1	Aluminum	5.6 lb 2.54 kg	10.0 in 254 mm	4.0 in	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/8 in / 9.5 mm
Standard Equipment: Wheel guard, flange wrench, Operating instructions & service manual

1660 Series - Right Angle Grinder

- Compact, yet powerful 1.6 hp motor, governed at 12,000 rpm
- Available with 4", 4.5", 5" guard options
- Reversible safety lever throttle
- Dual auxiliary handle positions



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
1660AGL-04	3/8"- 24 e	12,000	4" (100 mm), Type 1	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-05-M14*	M14 e	12,000	5" (125 mm), Type 1	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-05*	5/8"- 11 e	12,000	5" (125 mm), Type 1	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in
1660AGL-45*	5/8"- 11 e	12,000	4.5" (115 mm), Type 1	Aluminum	4.3 lb 1.95 kg	11.5 in 292 mm	2.7 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/4 in / 19 mm
Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals
* Also compatible with Type 27/29 Abrasive

2260 Series - Right Angle Grinder

- High performance 2.2 hp motor, Governed at 8,400 rpm
- Available with 6", 7" guard options
- Reversible safety lever throttle
- Dual auxiliary handle positions
- Maximum material removal for a right angle grinder



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
2260AGL-06	5/8"- 11 e	8,400	6" (150 mm) Type 1	Aluminum	7.3 lb 3.31 kg	12.1 in 307 mm	2.9 in	1/2 in
2260AGL-07	5/8"- 11 e	8,400	7" (180 mm) Type 1	Aluminum	7.3 lb 3.31 kg	12.1 in 307 mm	2.9 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/4 in / 19 mm
Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals

Cleco - Right Angle Grinder

- High-performance 1.7Hp motor
- Available in 4", 4.5" and 5" disc size
- Quick change spindle lock
- Versatile 270° adjustable guard
- Quieter operation with rear exhaust overhose standard

Coming Soon!



Grinders

Cone Wheels | Plug Wheels

236 Series - Inline

18,000 - 24,000 RPM 0.9 hp (0.7 kW)

- Rugged and durable aluminum housing
- Side and rear exhaust models available



Cat. No.	Exhaust	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
236GELR-180-P3T	Rear	3/8" - 24 e	18,000	1.25" (31 mm) Cone or Plug Wheel	Aluminum	2.3 lb 1.04 kg	12.3 in 312 mm	1/4 in
236GEL-240-P3T	Side	3/8" - 24 e	24,000	1.25" (31 mm) Cone or Plug Wheel	Aluminum	2.3 lb 1.04 kg	12.3 in 312 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

25 Series - Extended

14,000 - 18,000 RPM 1.4 hp (1.3 kW)

- Rugged and durable aluminum housing
- Governor speed control maintains RPM under load
- Safety- lock throttle lever prevents accidental start up



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
25GELC-140-P3T	3/8" - 24 e	14,000	2" (50 mm) Cone or Plug Wheel	Aluminum	3.0 lb 1.36 kg	14.5 in 368 mm	3/8 in
25GELC-180-P3T	3/8" - 24 e	18,000	2" (50 mm) Cone or Plug Wheel	Aluminum	3.0 lb 1.36 kg	14.5 in 368 mm	3/8 in
25GELC-180-P5T	5/8" - 11 e	18,000	2" (50 mm) Cone or Plug Wheel	Aluminum	3.2 lb 1.45 kg	14.9 in 378 mm	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/8 in / 9.5 mm
Standard Equipment: Wheel guard, flange wrench, Operating instructions & service manual

500B Series

9,000 - 12,000 RPM 2.1 hp (1.6 kW)

- Rugged and durable all-steel housing
- Air motor is governor- controlled to maintain RPM under heavy load
- High output motor designed to tackle the toughest material removal jobs



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
5120BHL-P	5/8" - 11 e	12,000	3" Cone or Plug Wheel	Steel	7.6 lb 3.45 kg	17.9 in 455 mm	1/2 in
590BHL-P	5/8" - 11 e	9,000	3" Cone or Plug Wheel	Steel	7.6 lb 3.45 kg	17.9 in 455 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable wrenches, operating instructions & service manual
Minimum Hose I.D.: 5/16 in / 7.9 mm

236 Series - Inline

18,000 RPM 0.9 hp (0.7 kW)

- Rugged and durable aluminum housing
- Side and rear exhaust models available



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
236GLR-180-W3T4	3/8" - 24 e	18,000	4" (100 mm) Type 1	Aluminum	1.8 lb 0.82 kg	7.3 in 185 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Wheel guard and flange wrench

25 Series - Extended

12,000 - 18,000 RPM 1.4 hp (1.0 kW)

- Powerful motor for all cut-off operations
- Governed motor with side exhaust
- Rugged and durable for any environment



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Weight	Length	Air Inlet Size
25GELC-120-W3T25	3/8" - 24 e	12,000	2.5" (63 mm) Type 1	3.4 lb 1.54 kg	14.4 in 366 mm	3/8 in
25GELC-120-W3T3	3/8" - 24 e	12,000	3" (75 mm) Type 1	3.7 lb 1.68 kg	14.4 in 366 mm	3/8 in
25GELC-120-W3T4	3/8" - 24 e	12,000	4" (100 mm) Type 1	3.7 lb 1.68 kg	14.4 in 366 mm	3/8 in
25GELC-140-W3T3	3/8" - 24 e	14,000	3" (75 mm) Type 1	3.7 lb 1.68 kg	14.5 in 368 mm	3/8 in
25GELC-180-W3T3	3/8" - 24 e	18,000	3" (75 mm) Type 1	3.7 lb 1.68 kg	14.9 in 378 mm	3/8 in
25GL-120-W3T4*	3/8" - 24 e	12,000	4" (100 mm) Type 1	3.0 lb 1.36 kg	10.0 in 254 mm	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/8 in / 9.5 mm
* Non-extended version
Standard Equipment: Wheel guard, flange wrench, Operating instructions & service manual

Grinders

Type 1 Cut-Off Wheels

500B Series

6,000 RPM 1.9 hp (1.4 kW)

- Safety lever or spade handle available
- Suitable for the most demanding horizontal grinding applications
- Robust and efficient design trusted for decades



Cat. No.	Spindle Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
560BHX-16	5/8" - 11 e	Spade	6,000	6" x 1" (150 mm x 25 mm) Type 1	Steel	11.6 lb 5.26 kg	18.8 in 478 mm	1/2 in
560BHL-16	5/8" - 11 e	Lever	6,000	6" x 1" (150 mm x 25 mm) Type 1	Steel	10.8 lb 4.90 kg	18.4 in 467 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Wheel guard and flange wrench

1700 Series - Lock-Off Lever Throttle

6,000 RPM 3.1 hp (2.3 kW)

- Spade handle availability
- Safety- lock throttle lever prevents accidental start up
- High output motor designed to tackle the toughest material removal jobs



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
1760HL-16	5/8" - 11 e	6,000	6" x 1" (150 mm x 25 mm) Type 1	Steel	14.5 lb 6.58 kg	19.6 in 498 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Wheel guard and flange wrench

1900 Series - Inline

6,000 RPM 4.1 hp (3.1 kW)

- Governed air motor- controlled to maintain RPM under heavy load
- High output motor designed to tackle the toughest material removal jobs
- Safety- lock throttle lever prevents accidental start up



Cat. No.	Spindle Size	Throttle Type	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
1960HG-16	5/8" - 11 e	Spade	6,000	6" x 1" (150 mm x 25 mm) Type 1	Aluminum	16.8 lb 7.62 kg	21.4 in 544 mm	1/2 in
1960HL-16	5/8" - 11 e	Lever	6,000	6" x 1" (150 mm x 25 mm) Type 1	Aluminum	16.8 lb 7.62 kg	21.4 in 544 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Wheel guard and flange wrench

3060 Series

6,000 RPM 3.0 hp (2.3 kW)

- Powerful, governed motor
- Ideally suited for the most rugged environments
- Maximum material removal in an ergonomic package



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Weight	Height	Air Inlet Size
3060AVL-06	5/8" - 11 e	6,000	6" (150 mm) Type 11	10.2 lb 4.63 kg	6.9 in 175 mm	1/2 in
3060AVL-07	5/8" - 11 e	6,000	7" (180 mm) Type 27	9.7 lb 4.40 kg	6.9 in 175 mm	1/2 in
3060AVL-09	5/8" - 11 e	6,000	9" (230 mm) Type 27	10.4 lb 4.72 kg	6.9 in 175 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/4 in / 19 mm
Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals

4060 Series

6,000 RPM 4.0 hp (3.1 kW)

- Maximum material removal in any application
- Powerful motor delivering ultimate torque
- Ideally suited for any heavy metal fabrication process



Cat. No.	Spindle Size	Free Speed (rpm)	Abrasive Capacity	Weight	Height	Air Inlet Size
4060AVL-06	5/8" - 11 e	6,000	6" (150 mm) Type 11	11.6 lb 5.26 kg	8.2 in 208 mm	1/2 in
4060AVL-07	5/8" - 11 e	6,000	7" (180 mm) Type 27	11.1 lb 5.03 kg	8.2 in 208 mm	1/2 in
4060AVL-09	5/8" - 11 e	6,000	9" (230 mm) Type 27	11.8 lb 5.35 kg	8.2 in 208 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 3/4 in / 19 mm
Standard Equipment: Wheel guard, adapters, spindle wrenches, operating instructions & service manuals

Cleco Wheel Guards

Tool Series	vSize	Part No.	Speed (rpm)
Type 1 Wheel			
216RA, 236RA	3"/75 mm	202226	13,500 & 16,500
216RA, 236RA	4"/100 mm	889208	11,500
216RA, 236RA	4"/100 mm	202227	13,500 & 16,500
236, 25	3"/75 mm	202278	
236, 25	4"/100 mm	202245	
25GL RA	7"/180 mm	204131	
25G Inline	3"/75 mm	865786	
25G Inline	4"/100 mm	865988	
500BH	4"/100 mm	881608	9,000 & 12,000
500BH	6"/150 mm	865993	6,000
1700, 1900 Inline	6"/150 mm	202022	
1700, 1900 Inline	8"/205 mm	202025	

Type 27 Wheel

25GL RA	7"/180 mm	865986	
136V	3"/75 mm	849905	
136V	4"/100 mm	203382	
216RA, 236RA	4"/100 mm	889208	11,500
216RA, 236RA	4 1/2"/100 mm	202063	11,500
216RA, 236RA	3"/75 mm	202226	13,500 & 16,500
216RA, 236RA	4"/115 mm	202227	13,500 & 16,500
216RA, 236RA	5"/125 mm	203142	11,500
15V	7"/180 mm	849760	
1200V	7"/180 mm	202374	
1200V	9"/230 mm	202608	
3060V, 4060V	9"/230 mm	207752PT	
3060V, 4060V	7"/180 mm	207751PT	

Type 28 Wheel

15V	7"/180 mm	849760	
1200V	7"/180 mm	202374	
25GL RA	7"/180 mm	865986	

Type 6 & 11 (Cup) Wheel

1200V	4"/100 mm	202465	
3060V, 4060V	6"/150 mm	207750PT	

Cleco Wheel Guards

Model Number	Wheel Size	Guard No.
Tool Series*		

Stationary Cup Wheel Guards

10-53 & 10-58	6" (152 mm)	14-5002
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Type 1 (Cut-Off) Wheel Guards

12-10	3" x 3/16" (76 mm x 4.8 mm)	14-1018
12-12	3" x 3/16" (76 mm x 4.8 mm)	14-1258
12-20 & 12-25	3" x 3/16" (76 mm x 4.8 mm)	14-2624
12-22 & 12-27 (LP)	3" x 3/16" (76 mm x 4.8 mm)	14-1258
12-25	4" x 3/16" (102 mm x 4.8 mm)	14-2623
12-22 & 12-27 (LP)	4" x 3/16" (102 mm x 4.8 mm)	14-1259

Type 1 Wheel Guards

12-25	3" x 1/2" (76 mm x 13 mm)	14-2551
12-26	3" x 1/2" (76 mm x 13 mm)	14-2097
12-31	3" x 1/2" (76 mm x 13 mm)	14-3011
12-41	3" x 1" (76 mm x 25 mm)	14-3011
12-41	4" x 1" (102 mm x 25 mm)	14-4074
12-51	6" x 1" (152 mm x 25 mm)	14-5012
10-56	8" x 1" (203 mm x 25 mm)	14-5022

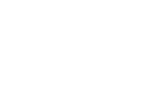
Type 27 Depressed Center Wheel Guards

12-22 & 12-27 (LP)	3" (76 mm)	14-2593
12-28 (NG)	3" (76 mm)	14-2564
12-22 & 12-27	4" (102 mm)	14-2562
12-22 & 12-27 (LP)	4" (102 mm)	14-2594
12-27	4.5" (115 mm)	14-2672
12-27	5" (127 mm)	14-2252
12-22 & 12-27	5" (127 mm)	14-2152
12-42	7" (178 mm)	14-2123
10-53 & 10-58	7" (178 mm)	14-5018
10-53 & 10-58	9" (229 mm)	14-5017





Type 28 Depressed Center Wheel Guards

10-53 & 10-58	7" (178 mm)	14-5018
10-53 & 10-58	9" (229 mm)	14-5019

LP = Low Profile
NG = Non-Governed



Part Number	Collet Size	Tool Termination	Capacity		Tool Series*			
			Min.	Max.	10-04	10-90	12-03	12-04
Series HG Collets								
103	1/16"	-04 or -14	-	1/16"	OPT	OPT		
102	3/32"	-06 or -16	-	3/32"	STD	OPT		STD
01-0102	3/32"	-16	-	3/32"			STD	
100	1/8"	-08 or -18	-	1/8"	STD	STD		STD
01-0100	1/8"	-18	-	1/8"			STD	
146	1 mm	-00 or -10	-	1 mm	OPT	OPT		
131	2.35 mm	-02 or -12	-	2.35 mm	OPT	OPT		
148	3 mm	-03 or -13	-	3 mm	STD	STD		STD
01-0148	3 mm	-13	-	3 mm			STD	

Part Number	Collet Size	Tool Termination	Capacity		Tool Series*						
			Min.	Max.	10-95	12-10 12-11 12-12	12-20 12-25	12-21 12-22 12-26 12-27 12-31	10-43 11-43	12-05 12-22 12-27	
Universal Collets											
	7809	1/8"	-4508	-	1/8"						OPT
	7812	3/16"	-4512	-	3/16"						OPT
	7808	1/4"	-45	-	1/4"						STD
	7810	3 mm	-45M3	-	3 mm						OPT
	7811	6 mm	-45M6	-	6 mm						OPT
"K" Series Collets											
	120	1/8"	-6208	3/32"	1/8"						OPT
	121	3/16"	-6212	5/32"	3/16"						OPT
	122	1/4"	-6216	7/32"	1/4"						OPT
	123	5/16"	-6220	9/32"	5/16"						OPT
	124	3/8"	-62	11/32"	3/8"						STD
	125	7/16"	-6228	13/32"	7/16"						OPT
	126	1/2"	-6232	15/32"	1/2"						OPT
	134	8 mm	-62M8	-	8 mm						OPT
	135	10 mm	-6270	-	10 mm						OPT
Series 200 Collets											
	204	1/8"	-0108	3/32"	1/8"			OPT	OPT		
	205	5/32"	-0110	1/8"	5/32"			OPT	OPT		
	206	3/16"	-0112	5/32"	3/16"			OPT	OPT		
	207	7/32"	-0114	3/16"	7/32"			OPT	OPT		
	208	1/4"	-01	7/32"	1/4"			STD	STD		
	209	9/32"	-0118	1/4"	9/32"			OPT	OPT		
	210	5/16"	-0120	9/32"	5/16"			OPT	OPT		
	211	11/32"	-0122	5/16"	11/32"			OPT	OPT		
	212	3/8"	-0124	11/32"	3/8"			OPT	OPT		
	213	6 mm	-01M6	5.2 mm	6 mm			OPT	OPT		
	216	8 mm	-01M8	7.2 mm	8 mm			OPT	OPT		
Series 300 Collets											
	301	3/64"	-3603	1/64"	3/64"			OPT	OPT		OPT
	302	5/64"	-3605	3/64"	5/64"			OPT	OPT		OPT
	303	3/32"	-3606	1/16"	3/32"			OPT	OPT		OPT
	304	1/8"	-3608	3/32"	1/8"	STD		OPT	OPT		OPT
	305	5/32"	-3610	1/8"	5/32"			OPT	OPT		OPT
	306	3/16"	-3612	5/32"	3/16"			OPT	OPT		OPT
	308	1/4"	-36	7/32"	1/4"	OPT		STD	STD		STD
	311	3 mm	-36M3	2.2 mm	3 mm			OPT	OPT		OPT
	310	6 mm	-36M6	5.2 mm	6 mm			OPT	OPT		OPT

* STD = Standard Collet
OPT = Optional Collet

Spiral Cool Sanding Kits



Part No.	Size	Used On
861792	5"	216RA, 236RA
861655	7"	25RA, 15V, 1200V

Type 27 & 28 Wheel Adapter Kit



Part Number	Used On
849269	15V, 1200V, 3060V, 4060V

Long Collet Guard

Completely covers the collet. Limits the diameter of the cutting tool used to 5/8".



Part Number	Tool Series
1020	12-10

Noise Suppressor Guard

Completely covers the collet. Limits the diameter of the cutting tool used to 1/2". Air is exhausted at an angle.



Part Number	Tool Series
14-2188	12-10 front exhaust tools only

Turbine Collet Guard

Slips on and off tool with a slight twist.



Part Number	Tool Series
14-1280	10-9000

Overhose for 236* Grinders

Part Number	Description
869580	Exhaust Overhose
869204	Overhose Adapter
202343	Hose Clamp

* Rear exhaust models only



Depressed Center Wheel Adapters

Adapt abrasive with a 7/8" arbor tool with 5/8-11 thread.



Part Number	Description
14-5008	Metal Flange

Toolpost Holders

Special high-speed machining operations can be made with this lathe mounted cross-slide attachment. Swivel holder permits positioning the grinder thru 180° arc.



Part Number	Tool Series
14-0991	10-04

Venturi-X Vacuum/Blow Gun Kit

Kit includes accessories, reusable vacuum bag, and blowmold carrying case. Vacuum can extract metal shavings, liquids, dust, wood chips, etc. Converts to blow gun to clear debris from work area or floor.



Part Number	Description
VX-1KIT	Venturi-X Kit
VX-1A	1 bag, 1 brush, 1 flat tube, 1 small diameter vacuum tube, 1 flexible tube
VX-1B	1 dust bag, 3 O-rings, 2 O-rings

SANDERS, BUFFERS, POLISHERS

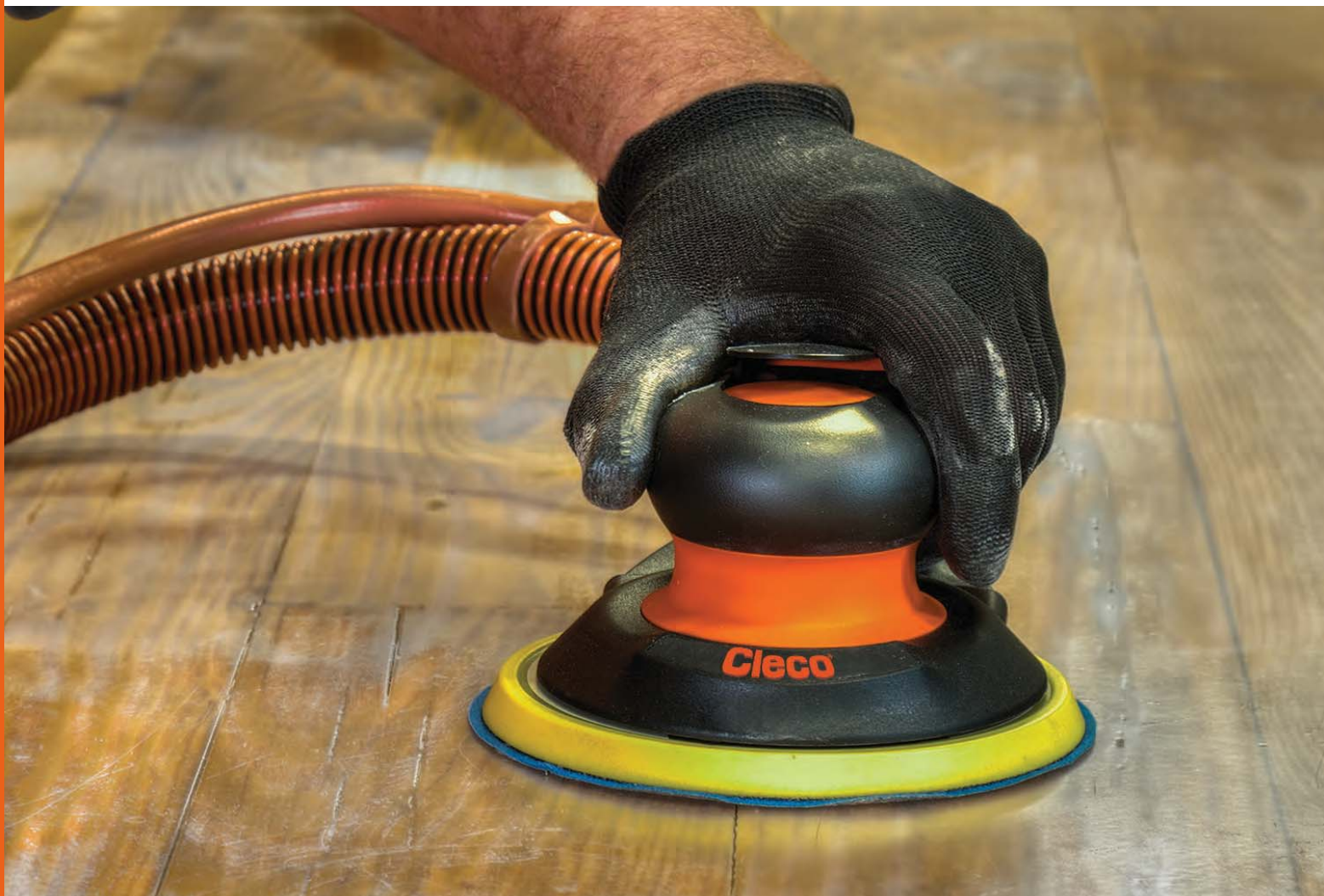
POWER & PERFORMANCE

Cleco® Dotco™ Sanders, Buffers, and Polishers are available in a variety of styles and power ratings to provide flexibility in choosing the best tool for the job. Disc sanding and polishing, wire brushes, buffing wheels, abrasive sheets, woven or non-woven belts. No matter the application, Cleco Dotco has a quality tool solution.

Cleco Dotco belt sanders can grind corners, enter grooves, debur, strap polish or enter channels. The unique belt cover makes belt changes quick and easy. You can use non-woven nylon or coated abrasive belts on a variety of surfaces.

FLEXIBILITY WHEN YOU NEED IT MOST

The unique sanding attachment pivots 360 degrees to allow user flexibility in reaching confined areas. The belt cover snaps on/off easily with no special tools needed allowing for quick belt changes. The arm itself is interchangeable to best suit a variety of applications.





Strap Polish



Enter Channels



Right Angle Sanders
Page 46



Random Orbital
Sanders
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Belt Sanders
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Buffers/Polishers
Page 52



3 in | 5 in | 6 in Random Orbital Sanders

12,000 RPM 0.3 hp (0.22 kW)

- Hardened alloy steel cylinder with coated aluminum end plates
- Fan blade cooling system for high durability and longer life
- 3 in, 5 in, and 6 in PSA and Hook & Loop pads available



Model	Details	Free Speed	Pad Size		Pad Face	Vacuum Type	Air Flow @ 90psi		Orbit		Weight		Height	
		OPM	in	mm			SCFM	LPM	in	mm	lbs	kg	in	mm
DSRO-01-02PSA	Random Orbital Sander	12000	3	76.2	PSA	Non-Vacuum	12	340	3/16	5.0	1.47	0.66	3.3	85
DSRO-01-05PSA	Random Orbital Sander	12000	5	127	PSA	Non-Vacuum	12	340	3/16	5.0	1.88	0.85	3.3	85
DSRO-01-06PSA	Random Orbital Sander	12000	6	152	PSA	Non-Vacuum	12	340	3/16	5.0	1.97	0.89	3.3	85
DSRO-01-35PSA	Random Orbital Sander	12000	5	127	PSA	Central Vacuum	12	340	3/16	5.0	2.00	0.90	3.3	85
DSRO-01-36PSA	Random Orbital Sander	12000	6	152	PSA	Central Vacuum	12	340	3/16	5.0	2.12	0.96	3.3	85
DSRO-03-05PSA	Random Orbital Sander	12000	5	127	PSA	Non-Vacuum	12	340	3/32	2.5	1.84	0.83	3.3	85
DSRO-03-06PSA	Random Orbital Sander	12000	6	152	PSA	Non-Vacuum	12	340	3/32	2.5	1.91	0.86	3.3	85
DSRO-03-35HL	Random Orbital Sander	12000	5	127	Hook & Loop	Central Vacuum	12	340	3/32	5.0	2.00	0.90	3.3	85
DSRO-01-02HL	Random Orbital Sander	12000	3	76.2	Hook & Loop	Non-Vacuum	12	340	3/16	5.0	1.47	0.66	3.3	85
DSRO-01-05HL	Random Orbital Sander	12000	5	127	Hook & Loop	Non-Vacuum	12	340	3/16	5.0	1.88	0.85	3.3	85
DSRO-01-06HL	Random Orbital Sander	12000	6	152	Hook & Loop	Non-Vacuum	12	340	3/16	5.0	1.97	0.89	3.3	85
DSRO-01-25HL	Random Orbital Sander	12000	5	127	Hook & Loop	Self-Gen Vacuum	12	340	3/16	5.0	2.14	0.97	3.3	85
DSRO-01-26HL	Random Orbital Sander	12000	6	152	Hook & Loop	Self-Gen Vacuum	12	340	3/16	5.0	2.14	0.97	3.3	85
DSRO-01-35HL	Random Orbital Sander	12000	5	127	Hook & Loop	Central Vacuum	12	340	3/16	5.0	2.00	0.90	3.3	85
DSRO-01-36HL	Random Orbital Sander	12000	6	152	Hook & Loop	Central Vacuum	12	340	3/16	5.0	2.12	0.96	3.3	85

3 x 8 in Orbital Sander

10,000 RPM 0.3 hp (0.22 kW)

- 3" x 8" (70mm x 198mm) pad size
- Standard with vinyl face pad for PSA mounted abrasives
- 1/8" orbit pattern for fine finishing
- Hook & Loop pad available as option



Model	Details	Free Speed	Pad Size		Pad Face	Vacuum Type	Air Flow @ 90psi		Orbit		Weight		Height	
		OPM	in	mm			SCFM	LPM	in	mm	lbs	kg	in	mm
DSO-70-09PSA	Orbital Sander	10000	3 x 8	70 x 198	PSA	Non-Vacuum	12	340	1/8	3.2	2.04	0.93	3.8	96

6 in | 8 in Geared Orbital Sanders

900 RPM 0.45 hp (0.34 kW)

- Epicycloidal sanding pattern allows for aggressive removal of materials
- Available with both PSA and Hook & Loop pads
- Long handle allows for two-handed support of tool



Model	Details	Free Speed	Pad Size		Pad Face	Vacuum Type	Air Flow @ 90psi		Orbit		Weight		Height	
		OPM	in	mm			SCFM	LPM	in	mm	lbs	kg	in	mm
DSG-01-06PSA	Geared Orbital Sander	900	6	152	PSA	Non-Vacuum	15	424	3/16	5.0	3.5	1.6	4.7	119
DSG-01-36PSA	Geared Orbital Sander	900	6	152	PSA	Central-Vacuum	15	424	3/16	5.0	3.5	1.6	4.7	119
DSG-01-38PSA	Geared Orbital Sander	900	8	203	PSA	Non-Vacuum	15	424	3/16	5.0	3.9	1.8	4.7	119
DSG-01-40PSA	Geared Orbital Sander	900	8	203	PSA	Central Vacuum	15	424	3/16	5.0	3.9	1.8	4.7	119
DSG-01-06HL	Geared Orbital Sander	900	6	152	Hook & Loop	Non-Vacuum	15	424	3/16	5.0	3.5	1.6	4.7	119
DSG-01-36HL	Geared Orbital Sander	900	6	152	Hook & Loop	Central-Vacuum	15	424	3/16	5.0	3.5	1.6	4.7	119
DSG-01-38HL	Geared Orbital Sander	900	8	203	Hook & Loop	Non-Vacuum	15	424	3/16	5.0	3.9	1.8	4.7	119
DSG-01-40HL	Geared Orbital Sander	900	8	203	Hook & Loop	Central-Vacuum	15	424	3/16	5.0	3.9	1.8	4.7	119

Sanders & Polishers

Sanding Discs | Polishing Discs

12LF Series - 300 Series Collet

12,000 - 20,000 RPM 0.4 hp (0.29 kW)

- Composite housing
- Wide array of speeds; front and rear exhaust models available
- Ergonomic and balanced design minimized operator fatigue



Exhaust		Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Rear	Front							
Cat. No.	Cat. No.							
12LF280-36	12LF200-36	1/4" Collet	12,000	3" (75 mm) Sanding/ Polishing disc	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
—	12LF200-32	1/4"- 28 i	12,000	3" (75 mm) Sanding/ Polishing disc	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
12LF281-36	12LF201-36	1/4" Collet	20,000	2" (50 mm) Sanding/ Polishing disc	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
—	12LF201-32	1/4"- 28 i	20,000	2" (50 mm) Sanding/ Polishing disc	Composite	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

10LF Series - 300 Series Collet

12,000 - 20,000 RPM 0.4 hp (0.29 kW)

- Aluminum housing
- Wide array of speeds; front and rear exhaust models available
- Ergonomic and balanced design minimized operator fatigue



Exhaust		Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Front	Rear							
Cat. No.	Cat. No.							
10LF200-36	10LF280-36	1/4" Collet	12,000	3" (75 mm) Sanding/ Polishing Disc	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
10LF200-32	—	1/4"- 28 i	12,000	3" (75 mm) Sanding/ Polishing Disc	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.9 in
10LF201-36	10LF281-36	1/4" Collet	20,000	2" (50 mm) Sanding/ Polishing Disc	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.7 in
10LF201-32	—	1/4"- 28 i	20,000	2" (50 mm) Sanding/ Polishing Disc	Aluminum	1.1 lb 0.50 kg	6.6 in 168 mm	2.9 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 1/4 in / 4.8 mm

10-12 & 12-12 Series

- Composite housing
- Front and rear exhaust available
- Wide range of speeds to suit every application



Exhaust		Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
Front	Rear								
Cat. No.	Cat. No.								
12L1200-32	12L1280-32	1/4"- 28 i	12,000	3" (75 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	6.3 in 160 mm	1.9 in	1/4 in
10B1200-32*	—	1/4"- 28 i	12,000	3" (75 mm) Sanding/ Polishing Disc	Composite	1.0 lb 0.45 kg	5.0 in 127 mm	1.9 in	1/4 in
10L1200-32	—	1/4"- 28 i	12,000	3" (75 mm) Sanding/ Polishing Disc	Composite	1.0 lb 0.45 kg	5.0 in 127 mm	1.9 in	1/4 in
12L1201-32	12L1281-32	1/4"- 28 i	20,000	2" (50 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	6.3 in 160 mm	1.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 1/4 in / 4.8 mm
 Standard Equipment: Applicable collet, collet wrenches
 * Button Activation

12-13 Series - Gearless - 300 Series Collet

20,000 - 30,000 RPM 0.3 hp (0.22 kW)

- Composite housing
- Wide array of speeds offered; front and rear exhaust models available
- Suitable for a wide range of finishing applications



Exhaust		Collet Size	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height
Front	Rear								
Cat. No.	Cat. No.								
12L1302-36	12L1382-36	1/4 in	1/4" Collet	20,000	2" (50 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1301-36	12L1381-36	1/4 in	1/4" Collet	25,000	2" (50 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1301-32	—	-	1/4"- 28 i	25,000	2" (50 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1300-36	12L1380-36	1/4 in	1/4" Collet	30,000	1" (25 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in
12L1300-32	—	-	1/4"- 28 i	30,000	1" (25 mm) Sanding/ Polishing Disc	Composite	1.1 lb 0.50 kg	7.1 in 180 mm	3.7 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Standard Equipment: Applicable collet, collet wrenches
 Minimum Hose I.D.: 1/4 in / 4.8 mm

Sanders & Polishers

Sanding Discs | Polishing Discs

12-22 Series - 300 Series Collet

18,000 RPM 0.6 hp (0.45 kW)

- Ergonomic composite housing
- Heavy duty low profile head for greater accessibility
- High output motor in a lightweight package
- 3" Extended head available



Cat. No.	Termination	Free Speed (rpm)	Extension	Abrasive Capacity	Type Housing	Weight	Length
12L2277-36	1/4" Collet	12,000	3 in	4" (100 mm) Sanding/ Polishing Disc	Composite	2.2 lb 1.00 kg	10.0 in 254 mm
12L2278-36	1/4" Collet	14,500	3 in	4" (100 mm) Sanding/ Polishing Disc	Composite	2.2 lb 1.00 kg	10.0 in 254 mm
12L2218-36	1/4" Collet	18,000	0 in	3" (50 mm) Sanding/ Polishing Disc	Composite	1.7 lb 0.77 kg	7.5 in 191 mm

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

12-22 Series - Heavy Duty Head

9,000 RPM 0.6 hp (0.45 kW)

- Ergonomic composite housing
- Heavy duty low profile head for greater accessibility
- high output motor in a lightweight package



Cat. No.	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
12L2251-80	5/8" - 11 e	9,000	5" (125 mm) Sanding/ Polishing Disc	Composite	3.2 lb 1.45 kg	9.3 in 236 mm	3.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Applicable collet, collet wrenches

12-27 Series - 300 Series Collet

18,000 RPM 0.9 hp (0.67 kW)

- Composite housing
- Powerful motor with rear exhaust
- Robust design perfectly suited for industrial applications
- Standard 3" extension



Cat. No.	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length
12L2777-36	1/4" Collet	12,000	4" (100 mm) Sanding/ Polishing Disc	Composite	2.3 lb 1.04 kg	10.5 in 267 mm
12L2776-36	1/4" Collet	13,500	4" (100 mm) Sanding/ Polishing Disc	Composite	2.3 lb 1.04 kg	10.5 in 267 mm
12L2778-36	1/4" Collet	14,500	4" (100 mm) Sanding/ Polishing Disc	Composite	2.3 lb 1.04 kg	10.5 in 267 mm

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: Applicable collet, collet wrenches
Minimum Hose I.D.: 5/16 in / 7.9 mm

12-27 & 10-27 Series - Heavy Duty Head

3,300 - 11,000 RPM 0.9 hp (0.67 kW)

- Aluminum and Composite housing available
- High output motor for demanding sanding applications
- Heavy duty low profile head for superior durability



Cat. No.	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
10L2760-80	5/8" - 11 e	3,300	4" (102 mm) Wire Brush, 6" (152 mm) Buffing Wheel	Aluminum	3.9 lb 1.77 kg	9.3 in 236 mm	3.9 in	1/4 in
12L2760-80	5/8" - 11 e	3,300	7" (178 mm) Sanding/ Polishing Disc	Composite	3.9 lb 1.77 kg	10.5 in 267 mm	3.9 in	1/4 in
12L2762-80	5/8" - 11 e	4,500	7" (178 mm) Sanding/ Polishing Disc	Composite	3.9 lb 1.77 kg	10.5 in 267 mm	3.9 in	1/4 in
10L2750-80	5/8" - 11 e	6,000	7" (178 mm) Sanding/ Polishing Disc	Aluminum	3.1 lb 1.41 kg	8.5 in 216 mm	3.9 in	1/4 in
12L2750-80	5/8" - 11 e	6,000	7" (178 mm) Sanding/ Polishing Disc	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2761-80	5/8" - 11 e	6,000	7" (178 mm) Sanding/ Polishing Disc	Composite	3.9 lb 1.77 kg	10.5 in 267 mm	3.9 in	1/4 in
10L2751-80	5/8" - 11 e	9,000	5" (127 mm) Sanding/ Polishing Disc	Aluminum	3.1 lb 1.41 kg	8.5 in 216 mm	3.9 in	1/4 in
12L2751-80	5/8" - 11e	9,000	5" (127 mm) Sanding/ Polishing Disc	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
12L2752-80	5/8" - 11 e	11,000	4" (102 mm) Sanding/ Polishing Disc	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in
10L2752-80	5/8" - 11 e	11,000	4" (100mm) Sanding/ Polishing Discs	Aluminum	3.4 lb 1.54 kg	8.6 in 218 mm	3.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Applicable collet, collet wrenches

Sanders & Polishers

Sanding Belts

12-12 Series - Belt Sander

12,000 - 20,000 RPM 0.3 hp (0.22 kW)

- Grind, deburr, strap polish, blend
- Choice of geared or gearless
- Ergonomic housing reduces cold air transmission to operator



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L1280-36B2	12,000	1/2" W x 12" L Sanding Belt	Composite	1.4 lb 0.64 kg	11.3 in 287 mm	1/4 in
12L1281-36B2	20,000	1/2" W x 12" L Sanding Belt	Composite	1.4 lb 0.64 kg	11.3 in 287 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/4 in / 4.8 mm

Standard Equipment: No.80 and No.120 grit sanding belt or one medium grit non-woven belt, applicable wrenches, grease gun, gear lube

Optional Terminations, All models may not be available: -32Bx 1/4"-28 Internal Thread; -36Bx 1/4" collet

12-13 Series - Gearless - Belt Sander

20,000 RPM 0.3 hp (0.22 kW)

- Grind, deburr, strap polish, blend
- Choice of geared or gearless
- Ergonomic housing reduces cold air transmission to operator



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L1382-36B2	20,000	1/2" W x 12" L Sanding Belt	Composite	1.4 lb 0.64 kg	11.3 in 287 mm	1/4 in
12L1382-36B4	20,000	1" W x 12" L Sanding Belt	Composite	1.7 lb 0.77 kg	11.3 in 287 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/4 in / 4.8 mm

Standard Equipment: No.80 and No.120 grit sanding belt or one medium grit non-woven belt, applicable wrenches, grease gun, gear lube

Optional Terminations, All models may not be available: -32Bx 1/4"-28 Internal Thread; -36Bx 1/4" collet

12-23 Series - Gearless

20,000 RPM 0.5 hp (0.38 kW)

- Grind, deburr, strap polish, blend
- Choice of geared or gearless
- Ergonomic housing reduces cold air transmission to operator



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L2384-B1	20,000	5/8" or 3/4" W x 18" L Sanding Belt	Composite	2.5 lb 1.13 kg	15.0 in 381 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/4 in / 4.8 mm

Standard Equipment: No.80 and No.120 grit sanding belt or one medium grit non-woven belt, applicable wrenches, grease gun, gear lube

12L2384-K1 Kit

- Kit comes with tool and all three interchangeable arms, belts, and wrenches
- Kit includes 12L2384-B1 tool along with: 2 additional abrasives, multiple belt sizes, all required wrenches, collet cap and chuck body



Cat. No.	Description
12L2384-K1	Sander - Belt - Kit

12-10 Series - 200 Series Collet

3,200 - 5,000 RPM 0.3 hp (0.22 kW)

- Ergonomic composite housing
- Parts interchangeable with numerous other Dotco products
- Lightweight and compact design with powerful geared motor



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L1088-01	1/4 in	380	4" (100 mm) Wire Brush, 5" (125 mm) Wire Brush	Composite	2.2 lb 1.00 kg	8.6 in 218 mm	1/4 in
12L1092-01	1/4 in	3,200	3" (75 mm) Wire Brush, 3" (75 mm) Buffing Wheel	Composite	1.6 lb 0.73 kg	7.2 in 183 mm	1/4 in
12L1093-01	1/4 in	5,000	3" (75 mm) Wire Brush, 3" (75 mm) Buffing Wheel	Composite	1.6 lb 0.73 kg	7.2 in 183 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Applicable collet, collet wrenches

12-25 & 10-25 Series - Buffer - 200 Series Collet

3,200 - 6,200 RPM 0.9 hp (0.67 kW)

- Ergonomic composite housing
- Parts interchangeable with numerous other Dotco products
- Lightweight and compact design with powerful geared motor



Cat. No.	Collet Size	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
12L2592-01	1/4 in	3,200	4" (100 mm) Wire Brush, 6" (150 mm) Buffing Wheel	Composite	2.1 lb 0.95 kg	9.3 in 236 mm	1/4 in
10L2592-01	1/4 in	3,200	4" (100 mm) Wire Brush, 6" (150 mm) Buffing Wheel	Aluminum	2.2 lb 1.00 kg	8.9 in 226 mm	1/4 in
12L2593-01	1/4 in	4,700	4" (100 mm) Wire Brush, 6" (150 mm) Buffing Wheel	Composite	2.1 lb 0.95 kg	9.3 in 236 mm	1/4 in
12L2594-01	1/4 in	6,200	4" (100 mm) Wire Brush, 6" (150 mm) Buffing Wheel	Composite	2.1 lb 0.95 kg	9.3 in 236 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Applicable collet, collet wrenches

Sanders & Polishers

Buffing Wheels | Wire Brushes | Abrasive Sheets

12-27 & 10-27 Series - Heavy Duty Head

3,300 - 11,000 RPM 0.9 hp (0.67 kW)

- Aluminum and Composite housing available
- high output motor for demanding sanding applications
- heavy duty low profile head for superior durability



Cat. No.	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
10L2760-80	5/8" - 11 e	3,300	4" (102 mm) Wire Brush, 6" (152 mm) Buffing Wheel	Aluminum	3.9 lb 1.77 kg	9.3 in 236 mm	3.9 in	1/4 in
12L2760-80	5/8" - 11 e	3,300	7" (178 mm) Sanding/ Polishing Disc	Composite	3.9 lb 1.77 kg	10.5 in 267 mm	3.9 in	1/4 in
12L2762-80	5/8" - 11 e	4,500	7" (178 mm) Sanding/ Polishing Disc	Composite	3.9 lb 1.77 kg	10.5 in 267 mm	3.9 in	1/4 in
10L2750-80	5/8" - 11 e	6,000	7" (178 mm) Sanding/ Polishing Disc	Aluminum	3.1 lb 1.41 kg	8.5 in 216 mm	3.9 in	1/4 in
12L2750-80	5/8" - 11 e	6,000	7" (178 mm) Sanding/ Polishing Disc	Composite	3.4 lb 1.54 kg	9.8 in 249 mm	3.9 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Applicable collet, collet wrenches

12-42 Series

3,400 RPM 1.7 hp (1.27 kW)

- High output motor for the most demanding applications
- Comfortable and ergonomic composite handle
- Includes auxiliary handle for optimum operator control



Cat. No.	Termination	Free Speed (rpm)	Abrasive Capacity	Type Housing	Weight	Length	Head Height	Air Inlet Size
12L4202-80	5/8" - 11 e	2,500	4" (100 mm) Wire Brush, 8" (200 mm) Buffing Wheel	Composite	6.4 lb 2.90 kg	13.6 in 345 mm	3.9 in	1/2 in
12L4203-80	5/8" - 11 e	3,400	4" (100 mm) Wire Brush, 8" (200 mm) Buffing Wheel	Composite	6.4 lb 2.90 kg	13.6 in 345 mm	3.9 in	1/2 in
12L4206-80	5/8" - 11 e	6,000	9" (225 mm) Sanding Disc	Composite	6.4 lb 2.90 kg	13.6 in 345 mm	3.9 in	1/2 in
12L4207-80	5/8" - 11 e	7,200	7" (175 mm) Sanding Disc	Composite	6.4 lb 2.90 kg	13.6 in 345 mm	3.9 in	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Nut, washer, spacer and wrenches

Belt Sander Attachments

Dotco 12-12 and 12-13 series.

300 Series Collet	1/4"-28 Internal Thread	Sanding Belt Size		Sanding Area	
-36 Termination	-32 Termination	in.	mm	in.	mm

Non-Woven Attachments (used with 12,000 rpm 12-12 series)

14-1715	-	1/2" x 18"	13 x 457	1/2" x 6"	13 x 152
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Coated Abrasive Attachments (used with 12,000 rpm 12-12 series; 20,000 rpm 12-12 & 12-13 series)

14-1639	14-1638	1/4" x 12"	6.4 x 305	1/4" x 4"	6.4 x 102
14-1316	14-1301	1/2" x 12"	13 x 305	1/2" x 4"	13 x 102
14-1473	14-1463	1" x 12"	25 x 305	1" x 4"	25 x 102
14-1319	14-1318	1/2" x 24"	13 x 610	1/2" x 10"	13 x 254
14-1613	14-1603	1" x 24"	25 x 610	1" x 10"	25 x 254



Sanding Belts – Aluminum Oxide, Resin Bond

For use with Dotco belt sanders. Minimum order: 10 of any one belt.

Grit Size	Belt Number							
	1/4" x 12	1/2" x 12	1" x 12	1/2" x 24	1" x 24	1/4" x 18	1/2" x 18	3/4" x 18
40		14-1344						
50		14-1345						
60	14-1590	14-1346	14-1582	14-1366	14-1642	14-2320	14-2316	14-2326
80	14-1591	14-1348	14-1583	14-1368		14-2321	14-2317	14-2323
100		14-1350						
120	14-1593	14-1352	14-1585	14-1372		14-2322	14-2318	
150		14-1355						
180	14-1596	14-1358	14-1588	14-1378	14-1648			
240		14-1360						
320		14-1362						

Sanding Belts – Non-woven

Minimum order: 10 of any one belt.

Grit Size	Part Number	
	1/4" x 18	3/4" x 18
Extra Fine	14-1728	
Fine	14-1729	
Medium	14-1730	14-2327
Coarse	14-1731	



Sanders & Polishers

Spiralcool™ Backing Pads

For Dotco sanders with 5/8"-11 threaded spindles. Pad contour develops draft action to cool disc and avoid excessive pick-up.

Flexibility	Part Number – Pad Diameter (Max. rated RPM)				
	4" 12,000 rpm	4 1/2" 11,000 rpm	5" 10,000 rpm	7" 7,000 rpm	9" 6,000 rpm
Flexible	14-2197	14-2255	14-2115	14-2529	14-2202
Medium	14-2198	14-2256	14-2116	14-2200	14-2203
Rigid	14-2199	14-2257	14-2117	14-2201	

Save-A-Disc Pads

For Dotco sanders with 5/8"-11 threaded spindles. Ribs on the backing plate cause a flexing action which throws off accumulation.



Diameter	Part Number				
	Max. rpm	Assembly	Pad Only	Plate Only	Nut Only
5"	7,500	14-2515	14-2521	14-2522	14-2525
7"	7,500	14-2517	14-2521	14-2523	14-2525
9"	7,500	14-2519	14-2521		14-2525

PSA Disc Holders

Collet Chuck:

Chuck the PSA disc holder shank directly into the appropriate collet (1/8" or 1/4").



Threaded Spindle:

Remove the threaded shank from the PSA disc holder. Referring to the spindle adapter chart, select the correct spindle and thread it into the PSA holder.

Part Number	Disc Holder Diameter	Shank Assembly	PSA Disc Holder Thread
14-1146	1/2"	1/8"	5-40 Female
14-1105	1/2"	1/4"	5-40 Female
14-1147	3/4"	1/8"	5-40 Female
14-1107	3/4"	1/4"	5-40 Female
14-1170	1"	1/8"	5-40 Female
14-1110	1"	1/4"	5-40 Female
14-1111	1-1/2"	1/4"	1/4"-20 Female
14-1112	2"	1/4"	1/4"-20 Female
14-1113	3"	1/4"	1/4"-20 Female
14-1114	4"	1/4"	1/4"-20 Female

Sanding Pad Nut

For use with Dotco sanders with 5/8"-11 threaded spindles.



Part Number	Tool Series
14-2118	5/8"-11 threaded spindle

Spanner Wrench

For use with 14-2118 Sanding Nut Pad.



Part Number	Tool Series
14-2319	5/8"-11 threaded spindle

Sanding Disc Cutter

An adjustment scale allows a 9" maximum diameter sanding disc to be cut down to 3" or 4" diameter. The double bevel cutting edge assures a round cut without a loose edge or raveling.



Part Number	Description
14-2535	Disc Cutter

Replacement Blades

14-2590	Upper
14-2591	Lower

Mini Chucks

For use with Dotco 12-12 series.

To adapt right angle threaded spindle sanders for drilling, disc sanding with PSA holders, and light grinding.



Shank Size	Part Number	
	Assembly	Collet
1/8"	14-1102*	14-0158**
1/4"	14-1104*	14-0168***
6 mm	14-1094	14-0170***

* NOTE: For 1/4"-28 internal thread

** NOTE: For 5/16"-24 internal thread – 1/8" collet

*** NOTE: For 3/8"-24 internal thread – 1/4" collet

Spindle Adapters

For use with PSA Disc holders.



Part Number	Adapter Description		
	Thread (for Tool Spindle)	Thread (for PSA Disc Holder)	Max. Disc Dia.
14-1142	1/4"-28 Male	5 -40 Male	1"
14-1144	1/4"-28 Male	1/4"-20 Male	4"
14-2903	5/8"-11 Male	5/16"-24 Male	4"
14-1212	5/8"-11 Male	1/4"-20 Male	4"
14-1211	5/8"-11 Female	3/8"-24 Male	4"

Low Profile Backup Pads for Random Orbital Sanders



Part Number	Diameter	Thickness	Type	Style
543025	3.5	3/8	PSA	Non-Vac
543026	3.5	3/8	Hook & Loop	Non-Vac
543017	5	3/8	PSA	Non-Vac
543018	5	3/8	PSA	Vac
543019	5	3/8	Hook & Loop	Non-Vac
543020	5	3/8	Hook & Loop	Vac
543021	6	3/8	PSA	Non-Vac
543022	6	3/8	PSA	Vac
543023	6	3/8	Hook & Loop	Non-Vac
543024	6	3/8	Hook & Loop	Vac
01-4522	3	3/8	PSA	Non-Vac
01-4649	3	3/8	Hook & Loop	Non-Vac

Tampered Edge Backup Pad for Random Orbital Sanders



Part Number	Diameter	Thickness	Type	Style
543041	5	3/4	PSA	Non-Vac
543042	6	3/4	PSA	Non-Vac

Backup Pads for Orbital Sanders



Part Number	Diameter	Thickness	Type	Style
543011	3-2/3 x7	3/8	PSA	Non-Vac
543012	3-2/3 x 7	3/8	Hook & Loop	Non-Vac
543013	3-2/3 x7	3/8	PSA	Non-Vac
543014	3-2/3 x7	3/8	Hook & Loop	Non-Vac
01-4523	70 x 198 (3 x 8)	3/8	PSA	Non-Vac
01-4648	70 x 198 (3 x 8)	3/8	Hook & Loop	Non-Vac

Backup Pads for Geared Sanders

Part Number	Diameter	Type	Style
208885	6	Hook & Loop	Non-Vac
208886	6	Hook & Loop	Vac
208887	8	Hook & Loop	Non-Vac
208888	8	Hook & Loop	Vac
01-4505	6	PSA	Non-Vac
01-4506	6	PSA	Vac
01-4507	8	PSA	Non-Vac
01-4508	8	PSA	Vac

CONFIGURED FOR YOUR ENVIRONMENT & APPLICATION

Cleco MP Series Drills are Industrial grade medium duty drills suitable for a wide range of production and MRO applications. Cleco® Dotco™ pneumatic drills are Industrial high duty grade and are used daily in applications ranging from appliances to aerospace manufacturing. Offered in a variety of configurations, including pistol grip, inline, and right angle, Dotco air drills are designed for the high-volume, high-repetition, high-precision demands of today's assembly lines. Whether a spindle, chuck, motor or angle head, our interchangeable parts allow operators the versatility they need for a range of industrial and manufacturing applications.

PARTS INTERCHANGEABILITY

Maintenance of tools can be time consuming and expensive. That is why our products have been designed with high parts interchangeability. With fewer parts required to repair our tools, less inventory of parts is required and tools are easier to repair.

PRECISION PARTS

It's simple, precision parts let operators manufacture precision products. Whether it is a spindle, a chuck, a motor or an angle head, our parts are manufactured from the finest materials available and are machined to the highest tolerances.

ULTIMATE ERGONOMICS

Dotco drills have long been the industry workhorse for the high-volume, high-repetition, high-precision demands of today's assembly line. Dotco drills are the ergonomic solution to deliver comfort and productivity, while assuring decreased operator fatigue, potential for injury and downtime on the line.



Design features double ball bearings for the spindle, pre-loaded for longer bearing life and more accurate spindle control. Vibration and runout are reduced.

Gears are machined from alloy steel and heat-treated, with fixed cages to control centers for smooth operation.

Time-proven motor and gear design is well-balanced to reduce vibration and extend tool life.

Each tool is individually checked, aligned and adjusted on our assembly line for minimum chuck runout. Vibration is minimized.

Ergonomically critical finger and thumb guides fit the hand and aid in control.

The trigger is practically forceless requiring only 4 ounces of pressure to engage.

Full feathering is accomplished with our pressurized tip-valve design for speed control while drilling.

Housing is made of durable lightweight industrial grade aluminum.

Finger lip under the trigger keeps other fingers from interfering with the trigger action.

Rubber grip acts as a thermal protector and isolates vibration for improved operator comfort.

Handles are shaped to fit the human hand. They are flat where they need to be flat and round where they need to be round ensuring less slippage.

Minimal noise levels enhance operator comfort.



Pistol Grip Drills
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Inline Drills
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Right Angle Drills
Page 62



14CF Series - Non-Reversible

600 - 29,000 RPM 0.4 hp (0.30 kW)

- 600 - 29000 rpm
- 0.4 hp / 0.30 kW
- Supplied with Jacobs® Keyed Chuck or Threaded Termination for Keyless Chuck/Collet - see options on page 67.
- Non-reversible
- Composite grip with ergonomic finger and thumb guides to aid control
- Excellent for aerospace, metal fabrication, and woodworking applications



Termination			Free Speed (rpm)	Weight	Length	Air Inlet Size
1/4" Chuck	3/8" Chuck	3/8"-24 e				
Cat. No.	Cat. No.	Cat. No.				
14CFS97-38	14CFS97-51	14CFS97-40	600	1.8 lb 0.82 kg	6.9 in 175 mm	1/4 in
14CFS96-38	14CFS96-51	14CFS96-40	700	1.8 lb 0.82 kg	6.9 in 175 mm	1/4 in
14CFS95-38	14CFS95-51	14CFS95-40	1,000	1.8 lb 0.82 kg	6.9 in 175 mm	1/4 in
14CFS94-38	14CFS94-51	14CFS94-40	2,400	1.6 lb 0.73 kg	5.7 in 145 mm	1/4 in
14CFS93-38	14CFS93-51	14CFS93-40	3,200	1.5 lb 0.68 kg	5.7 in 145 mm	1/4 in
14CFS92-38	14CFS92-51	14CFS92-40	3,800	1.5 lb 0.68 kg	5.7 in 145 mm	1/4 in
14CFS91-38	14CFS91-51	14CFS91-40	5,200	1.5 lb 0.68 kg	5.7 in 145 mm	1/4 in
14CFS90-38	14CFS90-51	14CFS90-40	29,000	1.5 lb 0.68 kg	5.7 in 145 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 5/16 in / 7.9 mm

Drill Diameter Capacity Matches Chuck Size

14CS Series - Non reversible

500 - 20,000 RPM 0.6 hp (0.45 kW)

- 500 - 20000 rpm
- 06 hp / 0.45 kW
- Supplied with Jacobs® Keyed Chuck or Threaded Termination for Keyless Chuck/Collet - see options on page 67.
- Composite grip with ergonomic finger and thumb guides to aid control
- Excellent for aerospace, metal fabrication, and woodworking applications



Termination			Free Speed (rpm)	Weight	Length	Air Inlet Size
3/8" Chuck	3/8" - 24 e	1/4" Chuck				
Cat. No.	Cat. No.	Cat. No.				
14CSL97-51	14CSL97-40	—	500	2.9 lb 1.32 kg	8.1 in 206 mm	1/4 in
14CSL95-51	14CSL95-40	—	1,300	2.9 lb 1.32 kg	8.1 in 206 mm	1/4 in
—	14CSL92-40	14CSL92-38	3,200	2.1 lb 0.95 kg	6.3 in 160 mm	1/4 in
—	14CSL91-40	14CSL91-38	5,200	2.1 lb 0.95 kg	6.3 in 160 mm	1/4 in
—	14CSL98-40	14CSL98-38	6,000	2.1 lb 0.95 kg	6.3 in 160 mm	1/4 in
—	14CSL90-40	14CSL90-38	20,000	2.1 lb 0.95 kg	6.3 in 160 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 5/16 in / 7.9 mm

Standard equipment: Jacobs geared chuck, chuck key

Drill diameter capacity matches chuck size.

14CNL Series - Non-Reversible

500 - 20,000 RPM 0.9 hp (0.67 kW)

- 500 - 20000 rpm
- 0.9 hp / 0.67 kW
- Supplied with Jacobs® Keyed Chuck or Threaded Termination for Keyless Chuck/Collet - see options on page 67.
- Composite grip with ergonomic finger and thumb guides to aid control
- Excellent for aerospace, metal fabrication, and woodworking applications
- 1/2" models equipped with dead handle



Termination				Free Speed (rpm)	Weight	Length	Air Inlet Size
3/8" Chuck	3/8" - 24 e	1/2" Chuck	1/4" Chuck				
Cat. No.	Cat. No.	Cat. No.	Cat. No.				
14CNL97-51	14CNL97-40	14CNL97-53	—	500	3.5 lb 1.59 kg	9.1 in 231 mm	1/4 in
14CNL95-51	14CNL95-40	—	—	1,300	2.8 lb 1.27 kg	8.6 in 218 mm	1/4 in
14CNL92-51	14CNL92-40	14CNL92-53	14CNL92-38	3,200	2.4 lb 1.09 kg	7.2 in 183 mm	1/4 in
14CNL91-51	14CNL91-40	—	—	5,200	2.4 lb 1.09 kg	7.2 in 183 mm	1/4 in
14CNL98-51	14CNL98-40	14CNL98-53	14CNL98-38	6,000	2.2 lb 1.00 kg	6.8 in 173 mm	1/4 in
—	14CNL90-40	—	14CNL90-38	20,000	2.2 lb 1.00 kg	6.8 in 173 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard equipment: Jacobs geared chuck, chuck key
Drill diameter capacity matches chuck size.

14CHL Series - Non-Reversible

3,200 – 6,000 RPM 1.4 hp (1.0 kW)

- 3200 - 6000 rpm
- 1.4 hp / 1.0 kW
- Supplied with Jacobs® Keyed Chuck or Threaded Termination for Keyless Chuck/Collet - see options on page 67.
- Powerful motor
- Rear exhaust



Cat. No.	Termination	Free Speed (rpm)	Weight	Length	Air Inlet Size
14CHL92-38	1/4" Chuck	3,200	2.6 lb 1.18 kg	6.5 in 165 mm	1/4 in
14CHL92-40	3/8" - 11 e	3,200	2.4 lb 1.09 kg	5.5 in 140 mm	1/4 in
14CHL92-51	3/8" Chuck	3,200	2.8 lb 1.27 kg	7.1 in 180 mm	1/4 in
14CHL92-53	1/2" Chuck	3,200	3.8 lb 1.72 kg	7.4 in 188 mm	1/4 in
14CHL98-38	1/4" Chuck	6,000	2.6 lb 1.18 kg	6.5 in 165 mm	1/4 in
14CHL98-40	3/8"- 11 e	6,000	2.4 lb 1.09 kg	5.5 in 140 mm	1/4 in
14CHL98-51	3/8" Chuck	6,000	2.8 lb 1.27 kg	7.1 in 180 mm	1/4 in
14CHL98-53	1/2" Chuck	6,000	3.8 lb 1.72 kg	7.4 in 188 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Drill Diameter Capacity Matches Chuck Size
Minimum hose ID: 5/16 in / 7.9 mm

15DP Series - Non-Reversible

160 – 1,400 RPM 1.0 hp (0.75 kW)

- 160 - 1400 rpm
- 1.0 hp / 0.75 kW
- Excellent for slow speed application
- Powerful motor



Cat. No.	Termination	Free Speed (rpm)	Weight	Length	Air Inlet Size
15DP-1.6B-53	1/2" Chuck	160	6.0 lb 2.72 kg	9.8 in 249 mm	3/8 in
15DP-4B-53	1/2" Chuck	400	5.5 lb 2.49 kg	8.5 in 216 mm	3/8 in
15DP-8B-53	1/2" Chuck	800	5.5 lb 2.49 kg	8.5 in 216 mm	3/8 in
15DP-14B-49	3/8" Chuck	1,400	4.5 lb 2.04 kg	8.3 in 211 mm	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Standard Equipment: Operating instructions and service manual Dead handles on all models except 15DP-14B 3-Jaw Chuck and Key

General: Air Inlet: 3/8" NPT; Minimum Hose Size: 3/8", Spindle Thread: 1/2"-20, Spindle Offset: Pistol Grip: 31/32"

Drill Diameter Capacity Matches Chuck Size

Minimum hose ID: 5/16 in / 7.9 mm

135DPV Series - Variable Speed

1,350 RPM 0.7 hp (0.5 kW)

- 150 - 2600 rpm
- 0.7 hp / 0.5 kW
- Variable speed
- Calibrated governed speed control



Cat. No.	Termination	Free Speed (rpm)	Weight	Length	Air Inlet Size	Governed RPM Range
135DPV-7B-43	1/2" Chuck	600	3.6 lb 1.63 kg	9.6 in 244 mm	1/4 in	150 - 550
135DPV-7B-50	1/2" Chuck	600	3.6 lb 1.63 kg	9.6 in 244 mm	1/4 in	150 - 550
135DPV-14B-50	1/2" Chuck	1,250	3.4 lb 1.54 kg	9.3 in 236 mm	1/4 in	400 - 1,200
135DPV-14B-51	3/8" Chuck	1,250	3.4 lb 1.54 kg	9.3 in 236 mm	1/4 in	400 - 1,200
135DPV-28B-51	3/8" Chuck	2,600	3.2 lb 1.45 kg	8.5 in 216 mm	1/4 in	700 - 2,400

All tools performance rated @ 90 psi / 620 kPa air pressure.

Standard Equipment: Operating instructions, service manual, 3-Jaw Chuck and Key-Jaw Chuck and Key

General: Air Inlet: 1/4 in NPT, Minimum Hose Size: 1/4 in / 6 mm, Spindle Offset: 25/32 in / 20 mm

Drill Diameter Capacity Matches Chuck Size

MP Series - MP1457-51

2,600 RPM 1.0 hp (0.75 kW)

- Non-reversible
- Double row ball bearings on output spindle for excellent alignment and true running bits
- Steel front end for industrial applications
- 2-step throttle for easy starts
- Built-in, no-clog mufflers for quiet operation
- Hardened and ground precision parts for extended service life
- Industrial grade medium duty drills are suitable for a wide range of production and MRO applications



MP Series - MP1463-51

1,800 RPM 1.0 hp (0.75 kW)

- Reversible
- Ball bearings on output spindle for excellent alignment and true running bits
- Steel front end for industrial applications
- 2-step throttle for easy starts
- Built-in, no-clog mufflers for quiet operation
- Hardened and ground precision parts for extended service life
- Industrial grade medium duty drills are suitable for a wide range of production and MRO applications



MP Series - MP1458-55

1,200 RPM 1.2 hp (0.90 kW)

- Non-reversible
- Ball bearings on output spindle for excellent alignment and true running bits
- Steel front end for industrial applications
- 2-step throttle for easy starts
- Built-in, no-clog mufflers for quiet operation
- Hardened and ground precision parts for extended service life
- Industrial grade medium duty drills are suitable for a wide range of production and MRO applications



Model Number	Free Speed	hp	Chuck Capacity	Length		Weight		Spindle Offset		Air Inlet
	RPM			in	mm	lbs	kg	in	mm	
MP1457-51	2600	1.0	3/8 in	7.5	191.0	1.9	0.85	0.84	20.6	1/4 in
MP1463-51	1800	1.0	3/8 in	6.8	172.7	2.5	1.1	0.84	20.6	1/4 in
MP1458-55	1200	1.2	1/2 in	9.0	228.6	2.1	0.95	0.84	20.6	1/4 in

General:

Air Inlet: 1/4" NPT - Use 1/4" (6.4 mm) I.D. hose
 All tools performance rated @ 90psi (620 kPa) air pressure

Standard Equipment:

Chuck and Key
 Owners Manual
 Parts Sheet



15LF Series - Inline

600 - 28,500 RPM 0.4 hp (0.30 kW)

- Optional Jacobs® geared chuck
- Safety lever



Exhaust		Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
Rear	Front						
Cat. No.	Cat. No.						
15LF087-38	—	1/4" Chuck	600	Composite	1.9 lb 0.86 kg	8.6 in 218 mm	1/4 in
15LF087-40	—	3/8" - 24 e	600	Composite	1.9 lb 0.86 kg	8.6 in 218 mm	1/4 in
15LF086-38	—	1/4" Chuck	750	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
—	15LF055-38	1/4" Chuck	1,000	Composite	1.9 lb 0.86 kg	8.6 in 218 mm	1/4 in
15LF085-38	—	1/4" Chuck	1,000	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
15LF085-40	—	3/8" - 24 e	1,000	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
—	15LF054-38	1/4" Chuck	2,400	Composite	1.3 lb 0.59 kg	7.3 in 185 mm	1/4 in
15LF084-38	—	1/4" Chuck	2,400	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
—	15LF053-38	1/4" Chuck	3,300	Composite	1.3 lb 0.59 kg	7.3 in 185 mm	1/4 in
15LF083-38	—	1/4" Chuck	3,300	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
15LF083-40	—	3/8" - 24 e	3,300	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
—	15LF052-38	1/4" Chuck	4,000	Composite	1.3 lb 0.59 kg	7.3 in 185 mm	1/4 in
15LF082-38	—	1/4" Chuck	4,000	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
15LF082-40	—	3/8" - 24 e	4,000	Composite	1.4 lb 0.64 kg	7.3 in 185 mm	1/4 in
—	15LF051-38	1/4" Chuck	5,300	Composite	1.3 lb 0.59 kg	7.3 in 185 mm	1/4 in
15LF081-38	—	1/4" Chuck	5,300	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
15LF081-40	—	3/8" - 24 e	5,300	Composite	1.4 lb 0.64 kg	8.0 in 203 mm	1/4 in
15LF080-38	—	1/4" Chuck	28,500	Composite	0.9 lb 0.41 kg	6.3 in 160 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Jacobs geared chuck, chuck key
Drill diameter capacity matches chuck size.

15-14 Series - Right Angle

2,400 - 3,600 RPM 0.3 hp (0.22 kW)

- 2400 - 3600 rpm
- 0.3 hp / 0.22 kW
- Optional Jacobs® geared chuck
- Safety Lever



Cat. No.	Termination	Free Speed (rpm)V	Type Housing	Weight	Length	Head Height	Air Inlet Size	Drill Diameter Capacity
15L1487-32	1/4" - 28 i	1,500	Composite	1.2 lb 0.54 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1487-36	1/4" Collet	1,500	Composite	1.2 lb 0.54 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1487-38	1/4" Chuck	1,500	Composite	1.5 lb 0.68 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1488-36	1/4" Collet	2,400	Composite	1.6 lb 0.73 kg	8.7 in 221 mm	3.0 in	1/4 in	1/4 in
15L1488-38	1/4" Chuck	2,400	Composite	1.5 lb 0.68 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1489-32	1/4" - 28 i	3,600	Composite	1.6 lb 0.73 kg	8.7 in 221 mm	3.0 in	1/4 in	1/4 in
15L1489-36	1/4" Collet	3,600	Composite	1.6 lb 0.73 kg	8.7 in 221 mm	3.0 in	1/4 in	1/4 in
15L1489-38	1/4" Chuck	3,600	Composite	1.5 lb 0.68 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1489-51	3/8" Chuck	3,600	Composite	1.5 lb 0.68 kg	8.0 in 203 mm	3.0 in	1/4 in	1/4 in
15L1470-37	5/32" Chuck	12,000	Composite	1.2 lb 0.54 kg	6.9 in 175 mm	2.5 in	1/4 in	1/4 in
15L1401-37*	5/32" Chuck	20,000	Composite	1.0 lb 0.45 kg	6.2 in 157 mm	2.5 in	1/4 in	1/4 in
15L1471-37	5/32" Chuck	20,000	Composite	1.2 lb 0.54 kg	6.9 in 175 mm	2.5 in	1/4 in	1/4 in

*Front Exhaust Tool
All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm

Standard Equipment: Jacobs geared chuck, chuck key
Drill Diameter Capacity Matches Chuck Size

15LF Series - Light Duty Head

600 - 5,300 RPM 0.4 hp (0.30 kW)

- 600 - 5300 rpm
- 0.4 hp / 0.30 kW
- Wide array of speeds, head designs, and spindle threads for all applications
- High efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 66) -61 10-32 interal thread, -63 threaded collet, -64 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
15LF287-62	1/4" - 28 i	600	Composite	1.9 lb 0.86 kg	11.8 in 300 mm	1/4 in
15LF286-62	1/4" - 28 i	750	Composite	1.9 lb 0.86 kg	11.8 in 300 mm	1/4 in
15LF285-62	1/4" - 28 i	1,000	Composite	1.9 lb 0.86 kg	11.8 in 300 mm	1/4 in
15LF284-62	1/4" - 28 i	2,400	Composite	1.8 lb 0.82 kg	11.1 in 282 mm	1/4 in
15LF283-62	1/4" - 28 i	3,300	Composite	1.6 lb 0.73 kg	10.7 in 272 mm	1/4 in
15LF282-62	1/4" - 28 i	4,000	Composite	1.6 lb 0.73 kg	10.7 in 272 mm	1/4 in
15LF281-62	1/4" - 28 i	5,300	Composite	1.6 lb 0.73 kg	10.7 in 272 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 600 Series Mini Angle Head with 1/4"-28 internal thread

15LF Series - Heavy Duty Head

420 - 3,700 RPM 0.4 hp (0.30 kW)

- Wide array of speeds, head designs, and spindle threads for all applications
- High-efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 66) -51 10-32 interal thread, -53 threaded collet, -54 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
15LF287-52	1/4" - 28 i	420	Composite	2.0 lb 0.91 kg	12.0 in 305 mm	1/4 in
15LF286-52	1/4" - 28 i	525	Composite	2.0 lb 0.91 kg	12.0 in 305 mm	1/4 in
15LF285-52	1/4" - 28 i	700	Composite	2.0 lb 0.91 kg	12.0 in 305 mm	1/4 in
15LF284-52	1/4" - 28 i	1,700	Composite	1.8 lb 0.82 kg	10.6 in 269 mm	1/4 in
15LF283-52	1/4" - 28 i	2,300	Composite	1.7 lb 0.77 kg	11.0 in 279 mm	1/4 in
15LF282-52	1/4" - 28 i	2,800	Composite	1.7 lb 0.77 kg	11.0 in 279 mm	1/4 in
15LF281-52	1/4" - 28 i	3,700	Composite	1.7 lb 0.77 kg	11.0 in 279 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 500 Series Heavy Duty Angle Head with 1/4"-28

15LS Series - Light Duty Head

500 - 5,430 RPM 0.6 hp (0.45 kW)

- Wide array of speeds, head designs, and spindle threads for all applications
- High efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 66) -61 10-32 interal thread, -63 threaded collet, -64 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
15LS287-62	1/4" - 28 i	500	Composite	1.9 lb 0.86 kg	12.7 in 323 mm	1/4 in
15LS286-62	1/4" - 28 i	840	Composite	1.9 lb 0.86 kg	12.7 in 323 mm	1/4 in
15LS285-62	1/4" - 28 i	1,360	Composite	1.9 lb 0.86 kg	12.7 in 323 mm	1/4 in
15LS284-62	1/4" - 28 i	1,660	Composite	1.9 lb 0.86 kg	12.4 in 315 mm	1/4 in
15LS283-62	1/4" - 28 i	2,010	Composite	2.3 lb 1.04 kg	11.5 in 292 mm	1/4 in
15LS282-62	1/4" - 28 i	3,370	Composite	2.3 lb 1.04 kg	11.5 in 292 mm	1/4 in
15LS281-62	1/4" - 28 i	5,430	Composite	2.3 lb 1.04 kg	11.5 in 292 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 600 Series Mini Angle Head with 1/4"-28 internal thread

15LN Series - Light Duty Head

540 - 5,600 RPM 0.9 hp (0.67 kW)

- Wide array of speeds, head designs, and spindle threads for all applications
- High efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 66) -61 10-32 interal thread, -63 threaded collet, -64 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Head Height	Air Inlet Size
15LN287-62	1/4" - 28 i	320	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN286-62	1/4" - 28 i	540	Composite	2.5 lb 1.13 kg	13.5 in 343 mm	1.0 in	1/4 in
15LN285-62	1/4" - 28 i	1,000	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN284-62	1/4" - 28 i	1,530	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN283-62	1/4" - 28 i	1,850	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN282-62	1/4" - 28 i	3,100	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN281-62	1/4" - 28 i	5,000	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in
15LN288-62	1/4" - 28 i	5,600	Composite	2.5 lb 1.13 kg	12.0 in 305 mm	1.0 in	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 600 Series Mini Angle Head with 1/4"-28 internal thread

15LS Series - Heavy Duty Head

350 - 3,800 RPM 0.6 hp (0.45 kW)

- Wide array of speeds, head designs, and spindle threads for all applications
- High-efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 67) -51 10-32 interal thread, -53 threaded collet, -54 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
15LS287-52	1/4" - 28 i	350	Composite	2.8 lb 1.27 kg	12.3 in 312 mm	1/4 in
15LS286-52	1/4" - 28 i	590	Composite	2.8 lb 1.27 kg	12.3 in 312 mm	1/4 in
15LS285-52	1/4" - 28 i	950	Composite	2.8 lb 1.27 kg	12.3 in 312 mm	1/4 in
15LS283-52	1/4" - 28 i	1,410	Composite	2.4 lb 1.09 kg	11.0 in 279 mm	1/4 in
15LS282-52	1/4" - 28 i	2,360	Composite	2.4 lb 1.09 kg	11.0 in 279 mm	1/4 in
15LS281-52	1/4" - 28 i	3,800	Composite	2.4 lb 1.09 kg	11.0 in 279 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 500 Series Heavy Duty Angle Head with 1/4"-28

15LN Series - Heavy Duty Head

320 - 3,900 RPM 0.9 hp (0.67 kW)

- Wide array of speeds, head designs, and spindle threads for all applications
- High-efficiency motor and gear train
- Comfortable and ergonomic handle
- Other terminations available (see page 66) -51 10-32 interal thread, -53 threaded collet, -54 5/16 in - 24 thread



Cat. No.	Termination	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
15LN286-52	1/4" - 28 i	540	Composite	3.0 lb 1.36 kg	12.8 in 325 mm	1/4 in
15LN285-52	1/4" - 28 i	870	Composite	3.0 lb 1.36 kg	12.8 in 325 mm	1/4 in
15LN284-52	1/4" - 28 i	1,070	Composite	3.0 lb 1.36 kg	12.8 in 325 mm	1/4 in
15LN283-52	1/4" - 28 i	1,300	Composite	2.6 lb 1.18 kg	11.5 in 292 mm	1/4 in
15LN281-52	1/4" - 28 i	3,500	Composite	2.6 lb 1.18 kg	11.5 in 292 mm	1/4 in
15LN288-52	1/4" - 28 i	3,900	Composite	2.6 lb 1.18 kg	11.5 in 292 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Standard Equipment: 500 Series Heavy Duty Angle Head with 1/4"-28

Base Modular Quick-Change Tools

320 - 5,300 RPM

15LF: 0.4 hp (0.3 kW); 15LN: 0.9 hp (0.7 kW)

- Quick-release for range of angle head attachments
- Can be used for quick-change of: cutter size, drilling speed, head style
- Pull-back sleeve to change angle head
- Common drive system



Cat. No.	Termination	Speed		Weight	Length	Air Inlet Size
		w/ Q5X Head	w/ Q4X, Q6X, Q7X, Q9x Head			
15LF281Q	Quick Change Adapter	3700	5300	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF282Q	Quick Change Adapter	2800	4000	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF283Q	Quick Change Adapter	2300	3300	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF284Q	Quick Change Adapter	1700	2400	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF285Q	Quick Change Adapter	700	1000	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF286Q	Quick Change Adapter	525	750	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LF287Q	Quick Change Adapter	420	600	0.4 hp / 0.3 kW	0.65 kg / 1.43 lbs	1/4 in
15LN281Q	Quick Change Adapter	3500	5000	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN282Q	Quick Change Adapter	2170	3100	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN283Q	Quick Change Adapter	1300	1850	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN284Q	Quick Change Adapter	1070	1530	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN285Q	Quick Change Adapter	870	1240	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN286Q	Quick Change Adapter	540	770	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in
15LN287Q	Quick Change Adapter	320	460	0.9 hp / 0.7 kW	1.05 kg / 2.31 lbs	1/4 in

Quick-Change Angle Heads

350 - 3,800 RPM 0.6 hp (0.45 kW)

- Use with 15LFQ & 15LNQ Base modular quick change tools
- 45°, 90° and 360° light duty angle head: 600 Series
- Heavy duty angle head: 500 Series, drill chuck
- Compact angle head: 700 Series



Ordering Code	Termination	Type	Notes
302206PT-Q42	1/4 in - 28	45° Light Duty Angle Head	
302206PT-Q43	Collet (9/32 in - 40)	45° Light Duty Angle Head	*Order Collets Separately: See pg. 67
302206PT-Q52	1/4 in - 28	Heavy Duty Angle Head - 500 Series	
302206PT-Q53	Collet (9/32 in - 40)	Heavy Duty Angle Head - 500 Series	*Order Collets Separately: See pg. 67
302206PT-Q59	3/8 in - 24	Heavy Duty Angle Head - 500 Series	
302206PT-Q62	1/4 in - 28	Light Duty Head - 600 Series	
302206PT-Q63	Collet (9/32 in - 40)	Light Duty Head - 600 Series	*Order Collets Separately: See pg. 67
302206PT-Q72	1/4 in - 28	Compact Angle Head - 700 Series	
302206PT-Q73	Collet (9/32 in - 40)	Compact Angle Head - 700 Series	*Order Collets Separately: See pg. 67
302206PT-Q92	1/4 in - 28	360° Light Duty Angle Head	
302206PT-Q93	Collet (9/32 in - 40)	360° Light Duty Angle Head	*Order Collets Separately: See pg. 67

Optional Drill Attachments

For use on Dotco 15LF, 15LS, and 15LN series. Capacity: 1/4" Diameter Drill

These drill attachments can be ordered as a separate accessory item or as part of a complete model. To order as a complete model, use the basic model number from the appropriate 15LF, 15LS, or 15LN catalog page and replace the termination number (-32 for example) with the termination number of the desired optional attachment (-71 for example) from this page.

Part Number	Termination	Spindle Thread
Compact Angle Head – 700 Series		
1025477	-72	1/4"-28 Internal Thread
1025476	-73	9/32"-40 Internal Thread*
1025668	-74	5/16"-24 Internal Thread
Light Duty Head – 600 Series		
1025314	-61	#10-32 Internal Thread
1025409	-62	1/4"-28 Internal Thread
1025313	-63	9/32"-40 Internal Thread*
1025328	-64	5/16"-24 Internal Thread
Heavy Duty Angle Head – 500 Series		
1021289	-52	1/4"-28 Internal Thread
1021292	-53	9/32"-40 Internal Thread*
1021291	-54	5/16"-24 Internal Thread
1025780	-55	3/8"-24 Internal Thread
45° Light Duty Angle Head		
1025730	-42	1/4"-28 Internal Thread
1025731	-43	9/32"-40 Internal Thread*
1025733	-44	5/16"-24 Internal Thread
360° Light Duty Angle Head		
1025696	-91	#10-32 Internal Thread
1025694	-92	1/4"-28 Internal Thread

* 9/32-40 thread for collets, see page 67

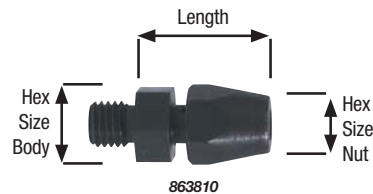
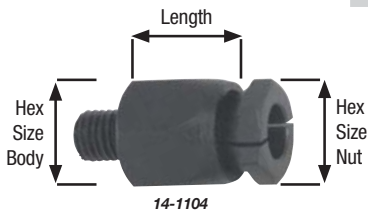


Part No.	Termination	Drill Chuck
Heavy Duty Angle Head		
1021620	-59	500 Series Angle Head with drill chuck, 1/4" capacity
1021620	-59 NC	500 Series Angle Head, no chuck 3/8"-24 ext. thread

Straight Shank Drill Adaptors

For use on Dotco 15LF, 15LS & 15LN right angle drills with 1/4"-28 spindles. (Termination codes: -42, -52, -62, -72, & -92). Adapts 1/4" - 28 output to collet/chuck for straight shank drills.

Type	Size	Assembly	Adaptor Only	Collet Only	Length	Hex Size Body/Nut
Mini Threaded Collet	1/8"	14-1102	14-1568	14-0158	0.65"	.437 / .375
Mini Threaded Collet	1/4"	14-1104	14-1569	14-0168	0.7"	.500/.437
Mini Threaded Collet	6mm	14-1094	14-1569	14-0170	0.7"	.500/.437
Mini Collet Nut	3/16"	863810	N/A	N/A	0.8"	.500/.500
Mini Collet Nut	1/4"	863806	N/A	N/A	0.8"	.500/.500
Cone Jaw Chuck	.040" - 1/4"	1020699	N/A	N/A	0.9"	0.75/0.75



Collets

For use on Dotco 15LF, 15LS & 15LN right angle drills with 9/32"-40 spindles.

1005184



(Termination codes: - 43, -53, -63, -73, & -93)

Cat. Number	Drill Size		
	No.	Inch Decimal	mm
1006408	53	0.0600	
316PT		0.0630	1.6
1005180	1/16	0.0630	
1006412	51	0.0670	1.7
320PT		0.0787	2
1005875	46	0.0810	
1005182	3/32	0.0940	
324PT		0.0945	2.4
1005684	40	0.0980	
325PT		0.0984	2.5
1006395	39	0.1000	
326PT		0.1024	2.6
1005183	7/64	0.1090	
330PT		0.1181	3
1005873	31	0.1200	
331		0.1220	3.1
1005184	1/8	0.1250	
332PT		0.1260	3.2
1013904	30	0.1290	
333PT		0.1299	3.3
1005185	9/64	0.1410	
1005872	27	0.1440	
1005186	5/32	0.1560	
1005926	22	0.1570	
340PT		0.1575	4
1005682	21	0.1590	
1005876	20	0.1610	
341PT		0.1614	4.1
342PT		0.1654	4.2
1006035	19	0.1660	
1005187	11/64	0.1720	
1005977	17	0.1730	
344PT		0.1732	4.4
345PT		0.1772	4.5
1005927	13	0.1850	4.7
1005188	3/16	0.1880	
348PT	12	0.1890	4.8
1006001	11	0.1910	
349		0.1929	4.9
1005681	10	0.1940	
350PT		0.1969	5

Other sizes available, please contact Cleco Production Tools

Chuck Assemblies (300 Series Collet)

Size	Chuck Assembly	Thread	L
3/16"	14-3050-12	3/8"-24	2.62"/66.5mm
7/32"	14-3050-14	3/8"-24	2.62"/66.5mm
1/4"	14-3050	3/8"-24	2.62"/66.5mm
1/4"	14-1148	5/16"-24	1.62"/41.2mm
3/32"-1/4" *	14-3080	3/8"-24	2.12"/54mm



Jacobs® Chucks

Part No.	Type	Capacity	mm	Term.
1005078	With Key	1/4 in	6.3	3/8 in - 24
1001505	With Key	1/4 in HD	6.3	3/8 in - 24
1001252	With Key	3/8 in	9.5	3/8 in - 24
1009726	With Key	1/2 in	12.7	3/8 in - 24
33633	Keyless	5/16 in	8.0	3/8 in - 24
33663D	Keyless	25/64 in	10.0	3/8 in - 24



300 Series Collet Chuck

Use with Standard Collet: 1/4" (#308).
Termination Number: -36



Part Number	Description
14-1148	1/64"-1/4" capacity with a 5/16"-24 female thread

Quick-Change Chuck

Thread Size	Capacity	Part Number
3/8"-24	1/4" Hex	QRA-08



300 Series Collets

Size	Cat No
3/32"	303PT
1/8"	304PT
3/32"	305PT
3/16"	306PT
7/32"	307PT
1/4"	308PT
3mm	311PT
6mm	310PT



Drilling Guides - Manual

These drill guides, simple and sturdy, can be fitted with a removable drill bush of tempered high-speed steel. The drill bush is slide fit to H7g6 with a m6 fit on the last 3 mm.

Drilling Guides	Code Number
Tripod RB 240	70300005
Quadripod RB 245	70300010



Drilling Bushes

For Use with Drilling Guides - Manual

We can supply all drilling bushes from 0.039 in up to 0.47 in dia.

All our bushes are manufactured with a tolerance of +0.0006 in / +0 on the nominal diameter.



How to order

For ≤ 0.3933 in

Example :

Bush 0.1275 in dia
Mini dia 0.1275 in dia
Maxi dia 0.1281 in dia

Basic Code

7031

+

Collet dia in mm

3.24

70310324

Code to indicate

How to order

For dia 0.3937 in to 0.4724 in

Example :

Bush 0.4468 in dia
Mini dia 0.4468 in dia
Maxi dia 0.4474 in dia

Basic Code

7031

+

Collet dia in mm

11.35

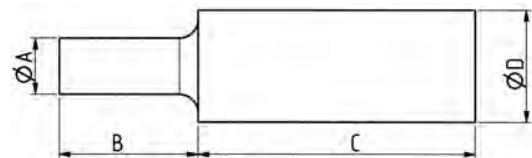
70311135

Code to indicate

Cutter Adapters

For M6, M8, and M10 Cutters

Adaptors to use threaded cutters in drill chucks.



For Cutter Thread	Ø A		B mm	C mm	Ø D mm	Code
	mm	in				
M6 x 1	4	0.157	15	15	10	10090000
M6 x 1	6	0.236	20	30	10	10090050
M8 x 1	6	0.236	20	30	12	10090055
M8 x 1	8	0.315	20	30	14	10090100
M10 x 1	10	0.394	20	30	14	10090150

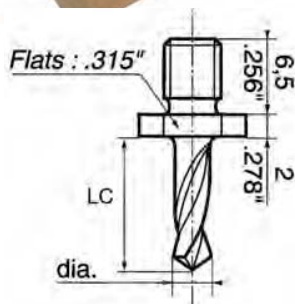
Flat Offset Angle Drill

For restricted access drilling. Fits into a standard drill chuck, shaft size is 6mm

Cutter Attachment	A	B	Code
UNF 10-32 F	84	28	10080005
	84	112.5	10080010
	63	28	10080015
	63	112.5	10080020



Drill Cutters for Flat Offset Angle Drill



Alternative drills may be manufactured on request.
E.g. special diameters and lengths.

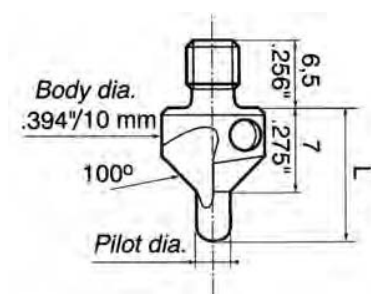
FOR USE WITH	ALUMINIUM	STEEL	TITANIUM	COMPOSITE
HSS	●			

LC		DRILL DIAMETER		PART NUMBER
mm	in	mm	in	
2.5	0.0984	12	0.472	33000020
2.5	0.0984	20	0.787	33000625
3	0.1181	12	0.472	33000025
3.2	0.126	8	0.315	33000132
3.2	0.126	12	0.472	33000030
3.2	0.126	20	0.787	33000632
4	0.1575	12	0.472	33000040
4	0.1575	15	0.591	33000240
4.8	0.189	15	0.591	33000248

Countersink Cutters for Flat Offset Angle Drill

HSS UNF 10-32F

FOR USE WITH	ALUMINIUM	STEEL	TITANIUM	COMPOSITE
HSS	●			



L		PILOT DIAMETER		PART NUMBER
mm	in	mm	in	
9.40	0.370	1.60	0.0630	33001005
10.60	0.417	2.40	0.0945	33001010
10.75	0.423	2.50	0.0984	33001015
11.60	0.456	3.20	0.1260	33001020

Microstop Cages

Microstop Cages

A wide range of Microstop Cages are available for use with Cleco® Dotco™ Pistol Grip Drills. Use for Drilling, Reaming and Countersinking. Cutters are also available for a complete system solution.



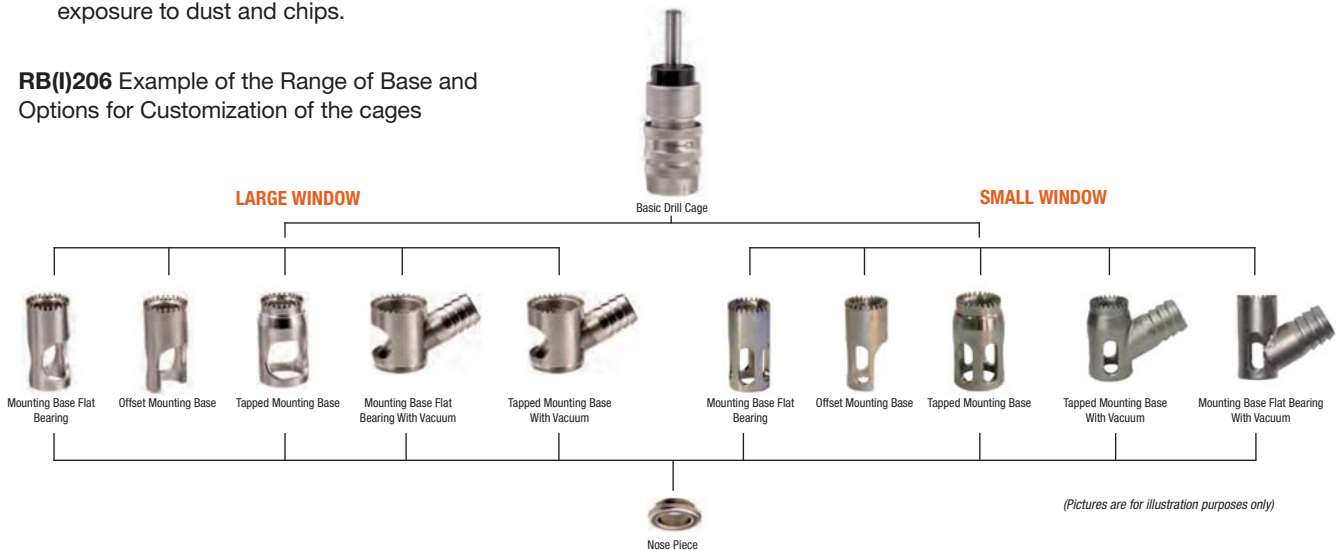
These cages have:

- High precision, body in heat-treated chrome steel, fully ground throughout
- Microstop depth adjustment options for .0005 or 0.001 in adjustment
- Microstop depth setting is held securely in place by locknut with seal. This patented feature allows an easy loosening of the locknut without damage to the drill cage.

Wide range of Basic Drill cages with varying strokes and metric/inch cutter interface

- For each there are different mounting bases available to suit the needs of the application
- Reduced dimensions for tight access areas.
- Vacuum options to reduce clean up/prevent operator exposure to dust and chips.

RB(I)206 Example of the Range of Base and Options for Customization of the cages



RB(I)256 Example of the Range of Base and Options for Customization of the cages



For full product information refer to the SP401 Aerospace Products Catalog.

Microstop Cages



Microstop Cage	Shank Dia.	Cutter Thread	Stroke	Ø EXT. MAXI	Total Length	
					Mini	Maxi
RB 156	Ø 4.8 mm - 0.19 in dia	M6 x 1	3.5 mm - 0.14 in	Ø 25 mm - 1 in dia	51 mm - 2 in	55 mm - 2.16 in
RB 206	Ø 6 mm - 0.24 in dia	M6 x 1	6 mm - 0.24 in	Ø 21 mm - 0.826 in dia	95 mm - 3.74 in	101 mm - 3.97 in
RBI 206	Ø 6 mm - 0.24 in dia	1/4 in - 28 F	6 mm - 0.24 in	Ø 21 mm - 0.826 in dia	95 mm - 3.74 in	101 mm - 3.97 in
RB 256	Ø 6 mm - 0.24 in dia	M6 x 1	7.5 mm - 0.3 in	Ø 28 mm - 1.1 in dia	91 mm - 3.58 in	98 mm - 3.85 in
RBI 256	Ø 6 mm - 0.24 in dia	1/4 in - 28 F	7.5 mm - 0.3 in	Ø 28 mm - 1.1 in dia	91 mm - 3.58 in	98 mm - 3.85 in
RB 257	Ø 6 mm - 0.24 in dia	M6 x 1	6 mm - 0.24 in	Ø 29 mm - 1.14 in dia	88 mm - 3.46 in	92 mm - 3.62 in
RB 258	Ø 6.35 mm - 1/4 in dia	M6 x 1	27 mm - 1.06 in	Ø 29 mm - 1.14 in dia	141 mm - 5.55 in	156 mm - 6.14 in
RBI 258	Ø 6.35 mm - 1/4 in dia	1/4 in - 28 F	27 mm - 1.06 in	Ø 29 mm - 1.14 in dia	141 mm - 5.55 in	156 mm - 6.14 in
RB 306	Ø 6 mm - 0.24 in dia	M8 x 1	7.5 mm - 0.3 in	Ø 28 mm - 1.1 in dia	91 mm - 3.58 in	98 mm - 3.85 in
RB 307	Ø 6 mm - 0.24 in dia	M8 x 1	7 mm - 0.28 in	Ø 29 mm - 1.14 in dia	88 mm - 3.46 in	98 mm - 3.62 in
RBI 307	Ø 6 mm - 0.24 in dia	1/4 in - 28 F	7 mm - 0.28 in	Ø 29 mm - 1.14 in dia	88 mm - 3.46 in	98 mm - 3.62 in
RB 406	Ø 6 mm - 0.24 in dia / JTI	M10 x 1	14 mm - 0.55 in	Ø 36 mm - 1.42 in dia	136 mm - 5.35 in	163 mm - 6.42 in
RB 356 HP 21	Ø 6 mm - 0.24 in dia / JTI	M6 x 1	21 mm - 0.83 in	Ø 27 mm - 1.06 in dia	116 mm - 4.57 in	136 mm - 5.35 in
RB 356 HPI 21	Ø 6 mm - 0.24 in dia / JTI	1/4 in - 28 F	21 mm - 0.83 in	Ø 27 mm - 1.06 in dia	116 mm - 4.57 in	136 mm - 5.35 in
RB 356 HP 38	Ø 6 mm - 0.24 in dia / JTI	M6 x 1	38 mm - 1.5 in	Ø 27 mm - 1.06 in dia	183 mm - 7.2 in	168 mm - 6.61 in
RB 356 HPI 38	Ø 6 mm - 0.24 in dia / JTI	1/4 in - 28 F	38 mm - 1.5 in	Ø 27 mm - 1.06 in dia	183 mm - 7.2 in	168 mm - 6.61 in
RB 356 HP 58	Ø 6 mm - 0.24 in dia / JTI	M10 x 1	58 mm - 2.28 in	Ø 38 mm - 1.5 in dia	264 mm - 10.4 in	292 mm - 11.5 in
RB 356 HPI 58	Ø 6 mm - 0.24 in dia / JTI	7/16 in - 20 F	58 mm - 2.28 in	Ø 38 mm - 1.5 in dia	264 mm - 10.4 in	292 mm - 11.5 in

Hand Cutters

A wide range of cutters are available for use with Dotco Pistol Grip Drills.

For product information refer to SP401 Aerospace Products Catalogue.

<p>Cutters with Inserted Pilot for Countersinking for Rivets and Screws in HSS, Carbide and PCD M6 and M8 threads 10-25mm Diameter with 3-12mm pilots</p>	
<p>Cutters with Inserted Pilot for Countersinking for Rivets and Screws in HSS, Carbide and PCD M6 and M8 threads 12-25mm Diameter with 5-14mm pilots</p>	
<p>Spotfacing Cutters with Pilot Insert in HSS, Carbide and PCD M6 and M8 threads 6-38mm Spotface</p>	
<p>Drill and Countersink Cutters in HSS, Carbide and PCD</p>	
<p>Drill, Ream and Countersink Cutters in HSS, Carbide and PCD</p>	
<p>Tapered Drill Reamers</p>	
<p>Fluted Drill Reamers</p>	
<p>Router Cutters</p>	
<p>Wire Brush for Rivet Holes</p>	

IMPACT WRENCHES

TOUGH TOOLS EASY CHOICE.

From light assembly to maximum torque requirements Cleco® has the impact wrench you demand.

MP SERIES

FAST, COMPACT, POWERFUL

Cleco MP Series Impacts are Industrial grade medium duty tools suitable for a wide range of production and MRO applications.



CV SERIES

HIGH TORQUE, LOW WEIGHT, UNBEATABLE VALUE

The CV Series is a practical and rugged workhorse for general industrial production, repair, and maintenance. Lightweight, balanced and comfortable, the CV Series impacts deliver Cleco performance at an unbeatable value.



CWC SERIES

THE ULTIMATE BALANCE OF PERFORMANCE, DURABILITY, AND ERGONOMICS

The CWC Series combines powerful performance, durability, and a user-preferred ergonomic design in one lightweight comfortable package. A reliable triple cycle heat treated twin hammer mechanism and industrial grade bearings ensure that the CWC Series impacts deliver long-lasting productivity.



CWM SERIES

ENGINEERED FOR HEAVY-DUTY APPLICATIONS IN DEMANDING ENVIRONMENTS

The CWM Series is built to thrive in the toughest environments. With hundreds of hours spent on advanced engineering and testing, this tool has been dropped from two stories, bashed on concrete and tested outside in extreme environments to make sure it performs whenever and wherever you need it.



W SERIES

DESIGNED FOR PUNISHING INDUSTRIAL APPLICATIONS, EASY SERVICE, AND REDUCED DOWNTIME

The W Series is the most powerful, longest lasting, low maintenance impact series we offer. It has a proven history for durability, holding up to the critical demands of heavy industry. Engineered to reduce downtime this series is a staple in the oil and gas, rail, and shipping industries.



MP Series

10,000 RPM

- High power to weight ratio
- 4-speed regulator for variable torque control
- All metal housing increase tool life and reduces vibration*
- Overmold grip for user comfort and removable belt clip*
- 100% ball bearing construction
- Excellent choice for soft joint applications



Model Number	Output Drive	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
MP2264B	1/4 Quick Change	10 - 90 (13.5-122)	10,000	2,000	2.15 (.98)	6 (152)	84 / 91	1/4	3/8	33
MP2265B	3/8 Pin	10 - 90 (13.5-122)	10,000	2,000	2.15 (.98)	6 (152)	84 / 91	1/4	3/8	33
MP2271	3/8 Pin	10 - 65 (13.5-88)	10,500	900	2.2 (1.0)	6.5 (165)	87	1/4	3/8	22

MP Series

10,500 RPM

- High power to weight ratio
- 4-speed regulator for variable torque control
- Top mounted reversible butterfly throttle improves control and reduces user fatigue
- Chemical resistant housing
- Excellent choice for soft joint applications



Model Number	Output Drive	Maximum Reverse Torque	Maximum Applied Torque	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	ft-lbs (Nm)	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
MP2271	3/8 Pin			10 - 65 (13.5-88)	10,500	900	2.2 (1.0)	6.5 (165)	87	1/4	3/8	22

CV Composite Series

5,500 - 8,500 RPM

- Excellent combination of performance, comfort, and value
- Powerful twin hammer mechanism
- Variable speed trigger
- Light-weight and ergonomically balanced
- Ideal for general industrial production, maintenance, and overhaul



Model Number	Output Drive	Maximum Reverse Torque	Maximum Applied Torque	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	ft-lbs (Nm)	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
CV-375P	3/8 Pin	510 (692)	420 (569)	25-275 (34-373)	8,000	1,600	2.9 (1.32)	6.2 (157)	87.9 / 98.9	1/4	3/8	4.5
CV-375R	3/8 Ring	510 (692)	420 (569)	25-275 (34-373)	8,000	1,600	2.9 (1.32)	6.2 (157)	87.9 / 98.9	1/4	3/8	4.5
CV-375R-4	1/2 Ring	510 (692)	420 (569)	25-275 (34-373)	8,000	1,600	2.9 (1.32)	6.2 (157)	87.9 / 98.9	1/4	3/8	4.5
CV-500P	1/2 Pin	1,100 (1,491)	780 (1,058)	50-600 (68-814)	8,500	1,200	4.8 (2.2)	7.6 (193)	89.1 / 100.1	1/4	3/8	5.7
CV-500R	1/2 Ring	1,100 (1,491)	780 (1,058)	50-600 (68-814)	8,500	1,200	4.8 (2.2)	7.6 (193)	89.1 / 100.1	1/4	3/8	5.7
CV-750P	3/4 Pin and Ring	1,500 (2,034)	1,300 (1,763)	200-1,000 (271-1,356)	5,500	1,000	8.2 (3.72)	8.7 (221)	91.1 / 102.1	3/8	1/2	9
CV-750P-8	1 Pin and Ring	1,500 (2,034)	1,300 (1,763)	200-1,000 (271-1,356)	5,500	1,000	8.3 (3.76)	9.1 (231)	91.1 / 102.1	3/8	1/2	9

General:

Tool Performance rated at 90 psi (620 kPa) air pressure

**** Breakaway Torque Capacity in Reverse:**

375: 510 ft-lbs (692 Nm)
 500: 1,100 ft-lbs (1491 Nm)
 750: 1,500 ft-lbs (2034 Nm)

Output Option:

R - Retaining Ring
 P - Pin Anvil or Pin Hole

CWC Composite Series

6,000 - 13,000 RPM

- Ultimate combination of power, durability, and features
- Triple heat treated twin hammer mechanism
- Variable speed trigger
- User-preferred one-hand direction control
- Ideal for heavy industries and fast-paced production environments



Model Number	Output Drive	Maximum Reverse Torque	Maximum Applied Torque	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	ft-lbs (Nm)	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
CWC-250QC	1/4 Quick Change	75 (102)	50 (68)	10-40 (14-54)	13,000	1,200	1.9 (.86)	6 (152)	89.8 / 100.8	1/4	3/8	2.7
CWC-250R	1/4 Ring	75 (102)	50 (68)	10-40 (14-54)	13,000	1,200	1.9 (.86)	6 (152)	89.8 / 100.8	1/4	3/8	2.7
CWC-375P	3/8 Pin	550 (746)	450 (610)	25-330 (34-447)	10,000	1,600	6 (152)	6 (152)	87.7 / 98.7	1/4	3/8	5.3
CWC-375R	3/8 Ring	550 (746)	450 (610)	25-330 (34-447)	10,000	1,600	6 (152)	6 (152)	87.7 / 98.7	1/4	3/8	5.3
CWC-375R-4	1/2 Ring	550 (746)	450 (610)	25-330 (34-447)	10,000	1,600	6 (152)	6 (152)	87.7 / 98.7	1/4	3/8	5.3
CWC-500P	1/2 Pin	1,180 (1,600)	800 (1,085)	50-625 (68-847)	8,000	1,250	4.4 (2)	7.6 (186)	88.2 / 99.2	1/4	3/8	5.7
CWC-500R	1/2 Ring	1,180 (1,600)	800 (1,085)	50-625 (68-847)	8,000	1,250	4.4 (2)	7.6 (186)	88.2 / 99.2	1/4	3/8	5.7
CWC-500PE	1/2 Pin 6" ext	1,180 (1,600)	800 (1,085)	50-625 (68-847)	8,000	1,250	4.7 (2.13)	9.6 (244)	88.2 / 99.2	1/4	3/8	5.7
CWC-500RE	1/2 Ring 6" ext	1,180 (1,600)	800 (1,085)	50-625 (68-847)	8,000	1,250	4.7 (2.13)	9.6 (244)	88.2 / 99.2	1/4	3/8	5.7
CWC-750P	3/4 Pin and Ring	1,800 (2,440)	1,400 (1,898)	200-1,200 (271-1,627)	6,500	1,200	7.6 (3.45)	8.4 (215)	91.4 / 102.4	3/8	1/2	9.7

General:

Tool Performance rated at 90 psi (620 kPa) air pressure

**** Breakaway Torque Capacity in Reverse:**

250: 75 ft-lbs (102 Nm)
 375: 550 ft-lbs (746 Nm)
 500: 1,180 ft-lbs (1600 Nm)
 750: 1,800 ft-lbs (2440 Nm)

Output Option:

R - Retaining Ring
 P - Pin Anvil or Pin Hole
 RE - 2" Extended Anvil w/Ring Retainer
 PE - 2" Extended Anvil w/Pin Retainer
 QC - 1/4" Quick Change

CWM All-Metal Series

6,000 - 12,000 RPM

- Triple heat treated twin hammer mechanism
- Variable speed trigger
- Industrial grade ball bearing design
- Durable all-metal housing
- Ideal for heavy industries and demanding environments



Model Number	Output Drive	Maximum Reverse Torque	Maximum Applied Torque	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	ft-lbs (Nm)	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
CWM-375P	3/8 Pin	450 (610)	340 (461)	25-175 (34-237)	12,000	1,400	3.3 (1.5)	5.5 (140)	89.5 (100.5)	1/4	3/8	3.8
CWM-375R	3/8 Ring	450 (610)	340 (461)	25-175 (34-237)	12,000	1,400	3.3 (1.5)	5.5 (140)	89.5 (100.5)	1/4	3/8	3.8
CWM-500P	1/2 Pin	1,200 (1627)	850 (1,152)	50-750 (68-1,1017)	9,000	1,200	5.8 (2.6)	7.1 (180)	90.4 (101.4)	1/4	3/8	5.6
CWM-500R	1/2 Ring	1,200 (1627)	850 (1,152)	50-750 (68-1,1017)	9,000	1,200	5.8 (2.6)	7.1 (180)	90.4 (101.4)	1/4	3/8	5.6
CWM-750P	3/4 Pin and Ring	1,725 (2,339)	1,350 (1,830)	200-1,200 (271-1,627)	6,000	1,200	10.4 (4.7)	8.3 (210)	91.7 (102.7)	3/8	1/2	7.6

General:

Tool Performance rated at 90 psi (620 kPa) air pressure

**** Breakaway Torque Capacity in Reverse:**

375: 450 ft-lbs (610 Nm)
 500: 1,200 ft-lbs (1627 Nm)
 750: 1,725 ft-lbs (2339 Nm)

Output Option:

R - Retaining Ring
 P - Pin Anvil or Pin Hole

Optional Equipment:

Suspension Bail
 3/8 - 208538P
 1/2 - 208539PT
 3/4 - 208540PT

WP Series - Pistol Grip

4,000 - 4,300 RPM

- Heavy-duty patented telescoping impact mechanism delivers durable performance with minimal reaction to the operator
- Rugged thru-bolt construction eliminates stripped housing threads and expensive repairs
- Durable casted housing and steel impact housing withstands abusive environments
- Ideal for heavy industries and harsh conditions



Model Number	Output Drive	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
WP-2060B-6	3/4	250-700 (350-950)	4,000	1,000	12 (5.4)	7.8 (197)		3/8	3/8	60
WP-2059-8	1	250-800 (350-1,100)	4,000	1,000	12.1 (5.5)	7.8 (197)		3/8	3/8	60
WP-2059-8-6E	1" w/ 6" Extended	250-750 (350-1,000)	4,000	1,000	14.3 (6.5)	13.8 (350)		3/8	3/8	60
WP-2109B-8	1	750-1,650 (1,000-2,250)	4,300	880	20.8 (9.4)	9.5 (241)		1/2	3/8	100

General:

Tool performance rated at 90 psi (620kPa) air pressure.

***** Breakaway torque capacity in reverse:**

2059 Series: 1200 ft-lbs. (1600 Nm)
2109 Series: 2500 ft-lbs. (3400 Nm)

*Quick change chuck

** 6" Extended spindle

Standard Equipment:

Operating instructions & service manual

WT Series - Spade Handle

3,300 - 4,600 RPM

- Heavy-duty patented telescoping impact mechanism delivers durable performance with minimal reaction to the operator
- Rugged thru-bolt construction eliminates stripped housing threads and expensive repairs
- Positive oil-foam lubrication reduces maintenance and repair costs
- Easily serviced and maintained reduces productivity disruption
- External and internal metal construction for maximum dependability
- Designed for continuous abuse in heavy industry applications



Model Number	Output Drive	Working Torque Range	Free Speed	Blows Per Minute	Weight	Length	Sound Pressure / Power	Air Inlet	Hose ID	Air Consumption
	in	ft-lbs (Nm)	RPM	BPM	lb (kg)	in (mm)	dBA	Inches	Inches	CFM
WT-2110-8	1	750-1,650 (1,000-2,250)	4,600	880	21 (9.5)	12.9 (327)		1/2	1/2	100
WT-2120-12	1 1/2	1,200 -3,000 (1,600-4,000)	3,300	850	27.6 (12.5)	29 (13.1)		1/2	5/8	105
WTS-2110	# 5 Spline	750-1,650 (1,000-2,250)	4,600	880	21 (9.5)	12.9 (327)		1/2	1/2	100
WTS-2120	# 5 Spline	1,200-2,800 (1,600-3,800)	3,300	850	27.6 (12.5)	14.3 -362		1/2	5/8	105
WT-2109-8	1	750-1,650 (1,000-2,250)	4,300	880	21 (9.5)	12.9 (327)		1/2	1/2	100
WTS-2109	# 5 Spline	800-1,800 (1,100-2,450)	4,300	880	21.5 (9.8)	13.1 (333)		1/2	1/2	100
WT-2119-12	1 1/2	1,200-2,600 (1,600 - 3,500)	3,300	820	29 (13.1)	14.3 (362)		1/2	5/8	105
WTS-2119	# 5 Spline	1,200-2,500 (1,600 - 3,400)	3,300	820	29 (13.1)	29 (13.1)		1/2	5/8	105

General:
Tool performance rated at 90 psi (620kPa) air pressure.

*** Breakaway torque capacity in reverse:**
2109 Series: 2500 ft-lbs. (3400 Nm)
2119 Series: 3500 ft-lbs. (4700 Nm)

Standard Equipment:
Operating instructions & service manual
Dead handle bracket
Dead Handle

SCREWDRIVERS

BEST-IN-CLASS PERFORMANCE

The Clecomatic® clutch delivers **Best-in-Class Accuracy** exceeding a Cm of 2.0 with a tolerance of +/- 10%.

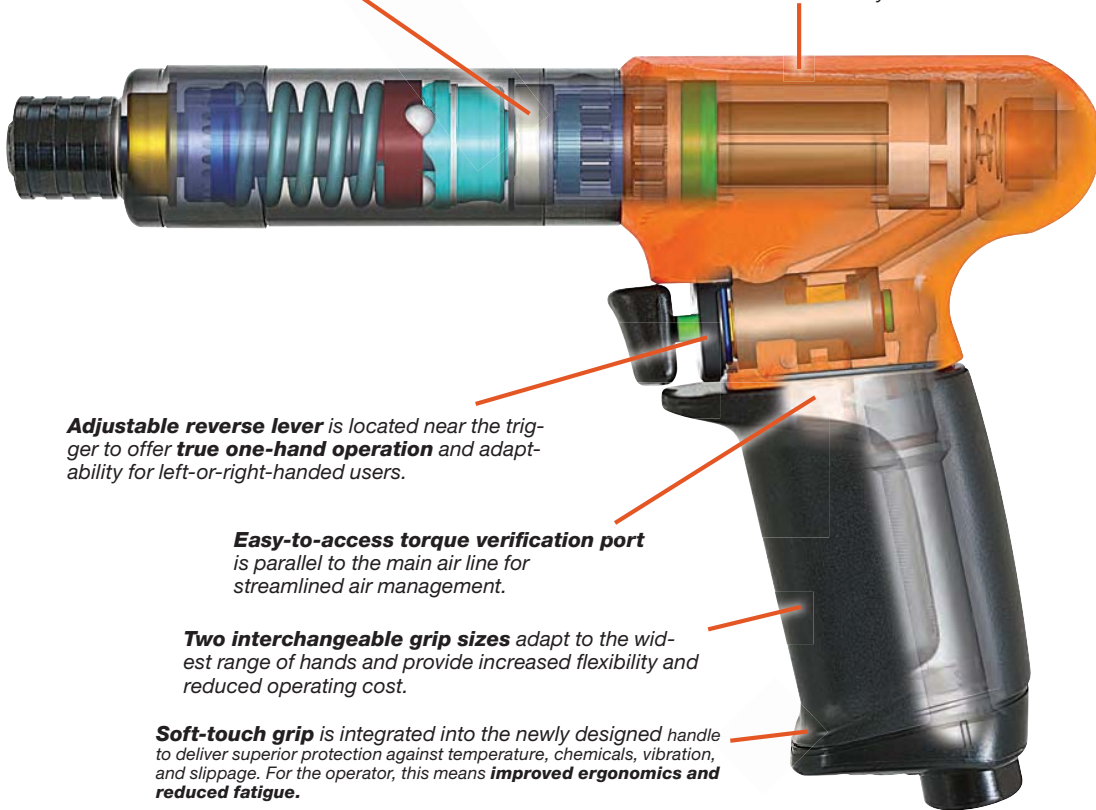
Built-in the USA and factory tested to guarantee a high level of torque accuracy and repeatability.

The Clecomatic® clutch has an **Industry Leading 5-Year Guaranteed!**

The latest design provides up to a **19% Weight Reduction**, improving balance and reducing user fatigue, with no loss of durability.

Completely re-engineered **Clecomatic®** clutch delivers **best-in-class accuracy**, exceeding a Cm of 2.0 with a tolerance of $\pm 10\%$.

New design and advanced materials yield up to **19% weight reduction** based on configuration, at no loss of balance or durability.



Adjustable reverse lever is located near the trigger to offer **true one-hand operation** and adaptability for left-or-right-handed users.

Easy-to-access torque verification port is parallel to the main air line for streamlined air management.

Two interchangeable grip sizes adapt to the widest range of hands and provide increased flexibility and reduced operating cost.

Soft-touch grip is integrated into the newly designed handle to deliver superior protection against temperature, chemicals, vibration, and slippage. For the operator, this means **improved ergonomics and reduced fatigue**.



19 Series

Torque Range: 0.6 - 14.7 Nm 5 - 130 In. Lbs.

- Push-to-start and Push & Lever start
- External torque adjustment
- Bit & Finder & 1/4" quick change chuck



Model Number		Torque Range				Free Speed	Length*		Weight		Air Consumption			
		Tool Range		With Std. Spring							RPM	in.	mm	lbs.
Bit & Finder*	1/4" Quick Change	in.-lbs.	Nm	in.-lbs.	Nm									
2RSA-10B				0.5 - 8	.06 - 0.9	1000	7.6	194	0.5	0.20	1/8"	3/16"	6	
2RSA-10SB**				0.5 - 8	.06 - 0.9	1000	6.4	162	0.5	0.20	1/8"	3/16"	6	
	19BPA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2300	9.1	230	1.4	0.63	1/8"	3/16"	11	
	19BPA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1600	9.3	235	1.4	0.64	1/8"	3/16"	11	
	19BPA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	920	9.1	230	1.3	0.61	1/8"	3/16"	11	
	19BPA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	560	9.5	240	1.5	0.67	1/8"	3/16"	11	
	19BPA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	220	9.5	240	1.5	0.68	1/8"	3/16"	11	
Push-to-Start - Collar Reverse														
	19SPA02B	19SPA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	9.1	230	1.4	0.63	1/8"	3/16"	11
	19SPA03B	19SPA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	9.3	235	1.4	0.64	1/8"	3/16"	11
	19SPA04B	19SPA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	9.1	230	1.3	0.61	1/8"	3/16"	11
	19SPA05B	19SPA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	9.5	240	1.5	0.67	1/8"	3/16"	11
	19SPA06B	19SPA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	9.5	240	1.5	0.68	1/8"	3/16"	11
Lever Push-to-Start - Collar Reverse														
	19SCA02B	19SCA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	9.8	249	1.5	0.69	1/8"	3/16"	11
	19SCA03B	19SCA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	10.0	254	1.5	0.70	1/8"	3/16"	11
	19SCA04B	19SCA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	9.8	249	1.5	0.66	1/8"	3/16"	11
	19SCA05B	19SCA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	10.2	259	1.6	0.73	1/8"	3/16"	11
	19SCA06B	19SCA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	10.2	259	1.6	0.74	1/8"	3/16"	11

*Add .63" (16mm) for bit & finder models

** Short housing

General:

90 psi (620kPa) required for maximum rated torque.

Standard Equipment:

Operating instructions & service manual.
Suspension bail.

All torque springs required to meet indicated torque.

Lever Push-to-Start models include kit to convert to lever only. (301409)

Optional Equipment:

Additional accessories: Pages 12-13

Bits & finders: Page 12

Non-Reverse Kit: 207030

Torque Signal Kit: 301106 (lever only)

Overhose: 207019

19 Series

Torque Range: 0.6-14.7 Nm 5.0-130 In. Lbs.

- Class-leading accuracy and repeatability
- Adjustable reverse lever for true one-hand: left-handed or right-handed – operation
- External torque adjustment
- 1/4" hex quick change drive
- "P" and "T" style handles
- 2 interchangeable soft-touch grip sizes
- Streamlined torque signal ports
- Trigger and Push & Trigger start



Model Number	Torque Range				Free Speed	Length		Weight		Air Consumption		
	Tool Range		With Std. Spring			in.	mm	lbs.	kg	Air Inlet NPT	Min. Hose I.D.	SCFM
1/4" Quick Change	in.-lbs.	Nm	in.-lbs.	Nm	RPM							
Push and Trigger Start - T Handle - Clecomatic Clutch												
19TCA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	8.0	202	1.44	0.7	1/4"	3/8"	11
19TCA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	8.2	207	1.54	0.7	1/4"	3/8"	11
19TCA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	8.0	202	1.54	0.7	1/4"	3/8"	11
19TCA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	8.4	212	1.54	0.7	1/4"	3/8"	11
19TCA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	8.4	212	1.54	0.7	1/4"	3/8"	11
19TCA07Q	15 - 60	1.7 - 6.8	24 - 60	2.7 - 6.8	660	8.4	212	1.54	0.7	1/4"	3/8"	11
19TCA09Q	15 - 79	1.7 - 8.9	24 - 60	2.7 - 8.9	470	9.3	235	1.73	0.8	1/4"	3/8"	11
Trigger Start - T Handle - Clecomatic Clutch												
19TTA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	7.9	199	1.44	0.7	1/4"	3/8"	11
19TTA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	8.1	204	1.54	0.7	1/4"	3/8"	11
19TTA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	7.9	199	1.54	0.7	1/4"	3/8"	11
19TIA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	8.3	210	1.54	0.7	1/4"	3/8"	11
19TTA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	8.3	210	1.54	0.7	1/4"	3/8"	11
19TTA07Q	15 - 60	1.7 - 6.8	24 - 60	2.7 - 6.8	660	8.3	210	1.54	0.7	1/4"	3/8"	11
19TTA09Q	15 - 79	1.7 - 8.9	24 - 79	2.7 - 8.9	470	9.3	235	1.73	0.8	1/4"	3/8"	11
19TTA15Q	45 - 130	5.1 - 14.7	45 - 130	5.1 - 14.7	260	9.6	243	1.94	0.9	1/4"	3/8"	11

General:

Tool performance rated at 90 psi (620kPa) air pressure.

Standard Equipment:

Operating instructions & service manual
Suspension bail
Dead handle on models above 100 in.-lbs. torque cap.
All torque springs required to meet indicated torque specification

Optional Equipment:

Additional accessories: Pages 12-13
Torque Springs: Page 13
Torque Signal Kit: 302021PT
(Trigger w/Clecomatic clutch only)
Overhose: 207107
Push-only Conversion Kit: 301121

Model Number	Torque Range				Free Speed	Length		Weight		Air Consumption		
	Tool Range		With Std. Spring			in.	mm	lbs.	kg	Air Inlet NPT	Min. Hose I.D.	SCFM
1/4" Quick Change	in.-lbs.	Nm	in.-lbs.	Nm	RPM							
Push and Trigger Start - P Handle - Clecomatic Clutch												
19PCA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	8.1	206	1.41	0.6	1/4"	3/8"	11
19PCA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	8.3	211	1.51	0.7	1/4"	3/8"	11
19PCA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	8.1	206	1.41	0.6	1/4"	3/8"	11
19PCA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	8.5	216	1.51	0.7	1/4"	3/8"	11
19PCA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	8.5	216	1.51	0.7	1/4"	3/8"	11
19PCA07Q	15 - 60	1.7 - 6.8	24 - 60	2.7 - 6.8	660	8.5	216	1.51	0.7	1/4"	3/8"	11
19PCA09Q	15 - 79	1.7 - 8.9	24 - 60	2.7 - 8.9	470	9.8	248	1.65	0.7	1/4"	3/8"	11
Trigger Start - P Handle - Clecomatic Clutch												
19PTA02Q	5 - 19	0.6 - 2.1	5 - 19	0.6 - 2.1	2800	8.0	204	1.41	0.6	1/4"	3/8"	11
19PTA03Q	5 - 26	0.6 - 2.9	5 - 19	0.6 - 2.1	1900	8.2	209	1.51	0.7	1/4"	3/8"	11
19PTA04Q	10 - 40	1.1 - 4.5	10 - 38	1.1 - 4.3	1100	8.0	204	1.41	0.6	1/4"	3/8"	11
19PTA05Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	660	8.4	214	1.51	0.7	1/4"	3/8"	11
19PTA06Q	10 - 45	1.1 - 5.1	10 - 38	1.1 - 4.3	260	8.4	214	1.51	0.7	1/4"	3/8"	11
19PTA07Q	15 - 60	1.7 - 6.8	24 - 60	2.7 - 6.8	660	8.4	214	1.51	0.7	1/4"	3/8"	11
19PTA09Q	15 - 79	1.7 - 8.9	24 - 79	2.7 - 8.9	470	9.8	248	1.65	0.7	1/4"	3/8"	11
19PTA15Q	45 - 130	5.1 - 14.7	45 - 130	5.1 - 14.7	260	9.7	247	1.91	0.9	1/4"	3/8"	11

General:

Tool performance rated at 90 psi (620kPa) air pressure.

Standard Equipment:

Operating instructions & service manual
Suspension bail
Dead handle on models above 100 in.-lbs. torque cap.
All torque springs required to meet indicated torque specification

Optional Equipment:

Additional accessories: Pages 12-13
Torque Springs: Page 13
Torque Signal Kit: 302021PT
(Trigger w/Clecomatic clutch only)

19 Series Stall

Torque Range: 2.1 – 7.9 Nm 19 – 70 In. Lbs.

- 1/4" hex quick change drive
- Trigger start
- "P" and "T" style handles (19 series)
- 2 interchangeable soft-touch grip sizes (19 Series)
- Adjustable reverse lever for true one-hand left or right - operation (19 series)
- Sliding knob or push button reverse (8 series)



Model Number	Torque Range		Free Speed RPM	Length		Weight		Air Consumption		
	1/4" Quick Change	in.-lbs.		Nm	in.	mm	lbs.	kg	Air Inlet NPT	Min. Hose I.D.
Trigger Start - T Handle - Sliding Knob Reverse										
19TTS02Q	19	2.1	2800	5.8	146	1.19	0.5	1/4"	3/8"	11
19TTS03Q	26	2.9	1900	6.1	154	1.19	0.5	1/4"	3/8"	11
19TTS04Q	40	4.5	1100	5.8	146	1.19	0.5	1/4"	3/8"	11
19TTS05Q	45	5.1	660	6.1	154	1.19	0.5	1/4"	3/8"	11
8RNP-20BQ	44	5.0	1800	5.4	137	2.1	1.0	1/4"	1/4"	19
8RNP-10BQ	70	7.9	800	6.1	156	2.4	1.1	1/4"	1/4"	19
Trigger Start - P Handle - Sliding Knob Reverse										
19PTS02Q	19	2.1	2800	5.9	150	1.16	0.5	1/4"	3/8"	11
19PTS03Q	26	2.9	1900	6.1	155	1.16	0.5	1/4"	3/8"	11
19PTS04Q	40	4.5	1100	5.9	150	1.16	0.5	1/4"	3/8"	11
19PTS05Q	45	5.1	660	6.1	155	1.16	0.5	1/4"	3/8"	11

General:

Tool performance rated at 90 psi (620kPa).

Standard Equipment:

Operating instructions & service manual
 Suspension bail
 All torque springs required to meet indicated torque
 Dead handle on all models above 100 in.lbs. torque

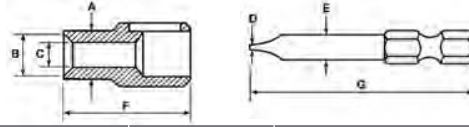
Standard Equipment if Specified:

Dead handle (861006; 8 series models)

Optional Equipment:

Additional accessories: Pages 12-13
 Bits: Page 12

Standard and Extended Flat Bits and Finders



Screw Size	Standard Length (F=1 3/16 in.; G= 1 15/16 in.)		Finder Dimensions (in.)			Bit Dimensions (in.)		Extended Length (F=2 1/4 in.; G= 3 in.)	
	Bit No.	Finder No.	A	B	C	D	E	Bit No.	Finder No.
1F- 2R	849617	847299	.22	.169	.128	.026	.122	849891	847481
2F- 3R	849843	863242	.250	.196	.140	.028	.134	849879	847480
3F- 4R	849618	847300	.285	.228	.160	.032	.154	849892	847482
4F- 5R	849153	847301	.315	.259	.193	.034	.187	849893	847483
5F- 6R	849619	847302	.345	.291	.221	.036	.215	849894	847484
6F- 8R	849154	847303	.380	.323	.256	.038	.250	849895	847485
8F-10R	849620	847294	.445	.386	.281	.042	.275	849896	847486
10F-12R	849155	847304	.530	.431	.318	.046	.312	849897	847487
12F-14R	849156	847305	.590	.513	.366	.050	.360	849898	847488

Finder Springs

Light Force

844000

Medium Force

865728

Phillips Bits and Support Bushings



809470



809473



847303



847485

Phillips Bit Point Size	Bit Body Diameter (in.)	Phillips Bit Part No.	Support Bushing* Part No.
Standard: 1/4 in. Hex Shank Bit – 2 3/4 in. O.A. Length; Bushing – 1 3/16 in. O.A. Length			
1	3/16	809451	847301
2	1/4	809470	847303
3	5/16	809471	847304
Extended: 1/4 in. Hex Shank Bit – 3 1/2 in. O.A. Length; Bushing – 2 1/4 in. O.A. Length			
1	3/16	809453	847483
2	1/4	809473	847485
3	5/16	809474	847487

*Bushing not required on Quick Change models.

Bit Holders and Support Bushings



849325



849621



847245



201203

1/4" Hex Drive Magnetic Bit Holder
Part No. 849325 (2 3/8" O.A. Length)

Magnetic Support Bushing* Part No. 849621

Nonmagnetic Support Bushing* Part No. 847245

Quick-Change Bushing Part No. 201203
Fits all finder type tools except No. 2 Screwdriver
**Bushing not required on Quick Change models.*

Torque Signal Kits

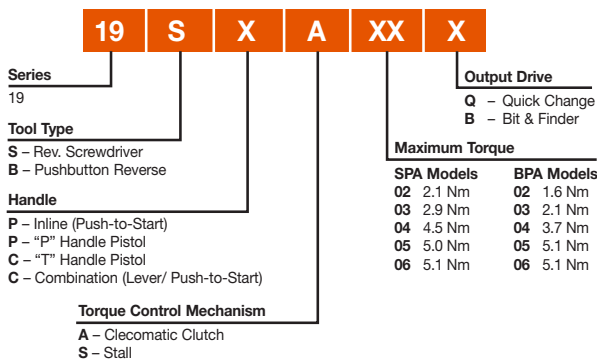
Part No.	Tool Used On
301106	19SCA & 19RAA series (inline & right angle)
302021PT	19TTA & 19PTA series (pistol "P" handle or "T" handle)

Portable Tool Balancers

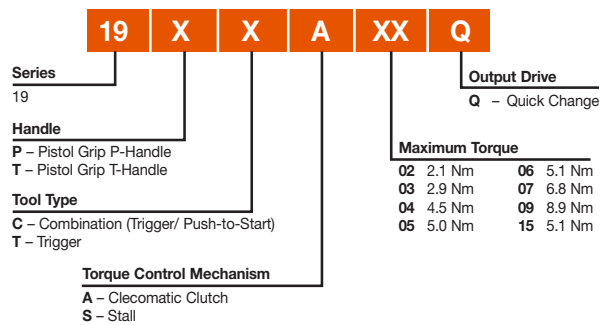
Part Number	Capacity		Net Weight	Min. Distance Hook to Hook	Length of Working Cable
	Max.	Min.			
200427	2 lbs.	0 lbs.	1.25 lbs.	10.8 in.	5.0 ft.
200428	4 lbs.	2 lbs.	1.25 lbs.	10.8 in.	5.0 ft.
200429	5 lbs.	3 lbs.	1.25 lbs.	10.8 in.	5.0 ft.
PL-12A	12 lbs.	1 lbs.	-	6.8 in.	4.6 ft.
BL-2A	2 lbs.	1 lbs.	1.1 lbs.	10.4 in.	5.2 ft.
BL-4A	4 lbs.	2 lbs.	1.1 lbs.	10.4 in.	5.2 ft.



Cleco 19 Series Inline



Cleco 19 Series Pistol



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Routers
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Saws
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Specialty Tools
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Percussion Tools
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12 Series - Right Angle Routers

- Available in both geared and gearless
- Multiple speed and power options available to find the right tool for the application



Cat. No.	Exhaust	Shank Diameter Capacity	Free Speed (rpm)	Drive	Weight	Length	Air Inlet Size
12L2218-36RT	Front	1/4 in	18,000	Geared 0.6 hp (0.45 kW)	1.8 lb 0.82 kg	7.5 in 191 mm	1/4 in
12L2718-36RT	Front	1/4 in	18,000	Geared 0.9 hp (0.67 kW)	1.9 lb 0.86 kg	8.0 in 203 mm	1/4 in
12L1281-36RT	Rear	1/4 in	20,000	Geared 0.3 hp (0.22 kW)	1.7 lb 0.77 kg	6.5 in 165 mm	1/4 in
12L1201-36RT	Front	1/4 in	20,000	Geared 0.3 hp (0.22 kW)	1.7 lb 0.77 kg	6.5 in 165 mm	1/4 in
12L1381-36RT	Rear	1/4 in	25,000	Gearless 0.3 hp (0.22 kW)	1.5 lb 0.68 kg	7.4 in 188 mm	1/4 in
12L1300-36RT	Front	1/4 in	30,000	Gearless 0.3 hp (0.22 kW)	1.5 lb 0.68 kg	7.4 in 188 mm	1/4 in
12L1380-36RT	Rear	1/4 in	30,000	Gearless 0.3 hp (0.22 kW)	1.5 lb 0.68 kg	7.4 in 188 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Collet, applicable wrenches

10-10 & 12-10 Series - Inline Router

30,000 - 34,000 RPM 0.3 hp (0.22 kW)

- Tremendous power for the toughest portable routing operations
- Unique governor design assures minimum air consumption, maximum power all at correct speed and long motor life
- All models oil free



Cat. No.	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
12L1000-36RT	1/4 in	30,000	Composite	1.4 lb 0.64 kg	6.7 in 170 mm	1/4 in
12L1001-36RT	1/4 in	34,000	Composite	1.4 lb 0.64 kg	6.7 in 170 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Collet, applicable wrenches

12-20 Series - Inline Router

20,000 - 25,000 RPM 0.6 hp (0.45 kW)

- Roll valve gives easy, convenient operation
- Tremendous power for the toughest portable routing operations
- Unique governor design assures minimum air consumption, maximum power at correct speed and long motor life



Cat. No.	Exhaust	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
12L2001-01RT	Front	1/4 in	20,000	Composite	1.9 lb 0.86 kg	7.5 in 191 mm	1/4 in
12L2081-01RT	Rear	1/4 in	20,000	Composite	1.9 lb 0.86 kg	7.5 in 191 mm	1/4 in
12L2000-01RT	Front	1/4 in	25,000	Composite	1.9 lb 0.86 kg	7.5 in 191 mm	1/4 in
12L2080-01RT	Rear	1/4 in	25,000	Composite	1.9 lb 0.86 kg	7.5 in 191 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Collet, applicable wrenches

10-20 Series - Inline Router

20,000 - 25,000 RPM 0.6 hp (0.45 kW)

- Roll valve gives easy, convenient operation
- Tremendous power for the toughest portable routing operations
- Unique governor design assures minimum air consumption, maximum power at correct speed and long motor life



Cat. No.	Exhaust	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
10L2000-01RT	Front	1/4 in	25,000	Aluminum	1.8 lb 0.82 kg	6.3 in 160 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 Standard Equipment: Collet, applicable wrenches

12-25 Series - Inline Router

18,000 - 23,000 RPM 0.9 hp (0.67 kW)

- Sustained power for any routing application
- Composite comfortable grip
- Roll valve for easy operation



Cat. No.	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
12L2582-01RT	1/4 in	18,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in
12L2582-0124RT	3/8 in	18,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in
12L2580-0124RT	3/8 in	23,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in
12L2500-01RT	1/4 in	23,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in
12L2580-01RT	1/4 in	23,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in
10L2500-01RT	1/4 in	23,000	Aluminum	2.5 lb 1.13 kg	6.9 in 175 mm	1/4 in
10L2580-01RT	1/4 in	23,000	Aluminum	2.5 lb 1.13 kg	6.9 in 175 mm	1/4 in
12L2502-01RT	1/4 in	18,000	Composite	2.6 lb 1.18 kg	7.1 in 180 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 Standard Equipment: Collet, applicable wrenches

12-40 Series - Inline Router

18,000 RPM 1.7 hp (1.27 kW)

- Maximum power for larger routing application
- Tremendous power for the toughest portable routing operations
- Unique governor design assures minimum air consumption, maximum power at correct speed and long motor life
- All models oil free



Cat. No.	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
10L4018-01	1/4 in	18,000	Aluminum	4.2 lb 1.91 kg	11.3 in 287 mm	1/2 in
12L4018-01	1/4 in	18,000	Composite	4.2 lb 1.91 kg	11.3 in 287 mm	1/2 in
12L4018-03	3/8 in	18,000	Composite	4.2 lb 1.91 kg	11.3 in 287 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 1/2 in / 12.7 mm
 Standard Equipment: Collet, applicable wrenches

10-43 Series - Base Mount Router

9,000 - 18,000 RPM 1.7 hp (1.27 kW)

- Roll valve gives easy, convenient operation
- Cool running pneumatic motor - Stays cool even under heavy load
- Easy-to-use thumb throttle can be operated without releasing hand from handle
- Smooth accurate cuts - assured by precision spindle



Cat. No.	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
10T4309-62	1/2 in	9,000	Aluminum	7.4 lb 3.36 kg	7.1 in 180 mm	1/2 in
10T4316-62	1/2 in	16,000	Aluminum	7.4 lb 3.36 kg	7.1 in 180 mm	1/2 in
10T4318-62	1/2 in	18,000	Aluminum	7.4 lb 3.36 kg	7.1 in 180 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Collet, applicable wrenches

11-43 Series - Mountable Power Unit

18,000 RPM 1.7 hp (1.27 kW)

- Cool running pneumatic motor stays cool even under heavy load
- Flat top provides firm setting for changing cutters and making adjustments
- Smooth accurate cuts - assured by precision spindle



Cat. No.	Shank Diameter Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
11T4309-62	1/2 in	9,000	Aluminum	5.5 lb 2.49 kg	7.1 in 180 mm	1/2 in
11T4316-62	1/2 in	16,000	Aluminum	5.5 lb 2.49 kg	7.1 in 180 mm	1/2 in
11T4318-62	1/2 in	18,000	Aluminum	5.5 lb 2.49 kg	7.1 in 180 mm	1/2 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm
Standard Equipment: Collet, applicable wrenches

Router Assemblies

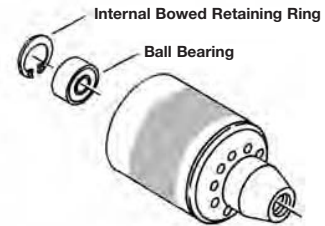
For use with Dotco 12-10, 12-20 and 12-25 series.

Tool Series	Cutter Shank Capacity	Part Number					
		Complete Attachment	Nose Housing	Bearing	Ring	Lock Nut	Router Housing
12-10	1/4"	14-2187	14-2176	14-0508	1098	14-2082	14-1180
12-20/12-25	1/4"	14-2180	14-2176	14-0508	1098	14-2082	14-2080
12-20/12-25	3/8"	14-2429	14-2426	14-0533	1068	14-2082	14-2080
12-12/12-22/12-27	1/4"	7197		14-0508	1098	N/A	N/A



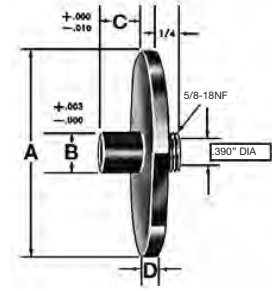
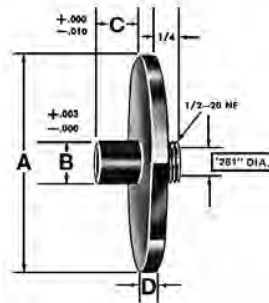
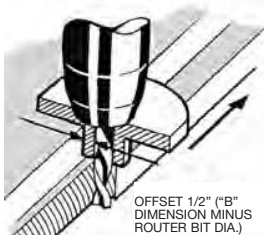
For use with Dotco 12-40 series.

Tool Series	Cutter Shank Capacity	Part Number		
		Nose Housing	Bearing	Retaining Ring
12-40	1/4"	4272	14-0508	1098
12-40	3/8"	4263	14-0533	1068



Router Guides

For use on Dotco 12-10, 12-20, 12-20, 12-25 and 12-40 series.



Part Number	Dimensions (in.)			
	A	B	C	D
For Router Bits with 1/4" Shanks				
14-2703	3/4	3/8	1/2	1/8
14-2400	1	3/8	1/8	1/8
14-2401	1	3/8	1/4	1/8
14-2402	1	3/8	3/8	1/8
14-2406	1	7/16	1/8	1/8
14-2407	1	7/16	1/4	1/8
14-2408	1	7/16	3/8	1/8
14-2411	1	1/2	1/4	1/8
14-2412	1	1/2	1/2	1/8
14-2413	1	1/2	5/8	1/8
14-2414	1	1/2	3/4	1/8
14-2417	1	9/16	1/8	1/8
14-2420	1	5/8	1/8	1/8
14-2421	1	5/8	5/8	1/8
14-2500	1 1/2	3/8	1/8	1/8
14-2501	1 1/2	3/8	1/4	1/8
14-2502	1 1/2	3/8	3/8	1/8
14-2505	1 1/2	7/16	1/8	1/8
14-2506	1 1/2	7/16	1/4	1/8
14-2507	1 1/2	7/16	3/8	1/8
14-2510	1 1/2	1/2	1/4	1/8
14-2511	1 1/2	1/2	3/8	1/8
14-2512	1 1/2	1/2	1/2	1/8
14-2600	2 1/2	1/2	1/2	3/16

Part Number	Dimensions (in.)			
	A	B	C	D
For Router Bits with 3/8" Shanks				
14-2531	1 1/2	1/2	3/8	1/8
14-2538	1 1/2	1/2	1/2	1/8
14-2539	1 1/2	1/2	5/8	1/8
14-2540	1 1/2	9/16	3/8	1/8
14-2541	1 1/2	9/16	1/2	1/8
14-2542	1 1/2	9/16	5/8	1/8
14-2893	1 1/2	5/8	3/8	1/8
14-2925	1 1/2	5/8	1/2	1/8
14-2544	1 1/2	5/8	5/8	1/8
14-2240	2 1/2	1/2	3/8	1/8
14-2632	2 1/2	1/2	1/2	1/8
14-2633	2 1/2	1/2	5/8	1/8
14-2634	2 1/2	9/16	3/8	1/8
14-2630	2 1/2	9/16	1/2	1/8
14-2635	2 1/2	9/16	5/8	1/8
14-2243	2 1/2	5/8	3/8	1/8
14-2636	2 1/2	5/8	1/2	1/8
14-2631	2 1/2	5/8	5/8	1/8

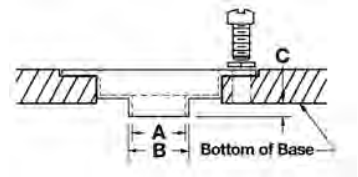
The minimum router bit length (Overall Length) to be used is determined by the formula:
 OAL = 1-13/16"+C+P (series 12-10);
 OAL = 2"+C+P (series 12-20 & 12-25). "C" is the "C" dimension of the router guide and "P" is the desired protrusion of the router bit.

Important: Insert bit into collet as far as possible, then pull out 1/16" and tighten collet.

In an emergency, if it is necessary to pull out the bit more than 1/4", be sure to insert a short length of blank shank (not to exceed 5/8" long) in the bottom of the collet before inserting the bit.

10-43 Series Router Template Guides

Part Number	Dimensions in Inches			For Use w/Router Bits Up To:
	A	B	C	
14-4019	5/16	3/8	3/16	1/4"
14-4020	3/8	7/16	5/16	5/16"
14-4021	9/16	5/8	3/16	1/2"



Rivet Trimmer Attachment

For use on Dotco 12-12 series front or rear exhaust collet models. Trims "pop" or "blind" rivets up to 3/16" diameter, also suitable for shaving small welds. Micrometer adjustment controls height of cut to .001". Runner pads minimize scratching of the work surface.

Part No.	Diameter	Shank	Length	Description	Recommended Use
Trimmer					
14-1723					
Cutters					
14-1732	3/4"	1/4"	1 7/8"	Inverted Cone, carbide	Steel Rivets
14-1332	1/2"	1/4"	1 7/8"	Cylindrical, carbide	Shaving welds



Two Handed Router Base (Use with front or rear exhaust collet models.)

Two handed control for router applications. Easy depth adjustment. Can also be used with 10-43 template guides. Cutters: 14-2442 (combination flush/bevel 22°)

Part Number	Series
14-1577	Dotco 12-10 Series
14-2577	Dotco 12-20 & 12-25 Series



Laminate Trimmer Attachment

Part Number	Series
14-1178	Dotco 12-10 Series
14-2178	Dotco 12-20 & 12-25 Series



12-22 Series

14,000 RPM 0.6 hp (0.45 kW)

- Available in right angle or inline
- Compact and easy to use
- Excellent control and high productivity with minimum fatigue
- Easy to change blades
- Adjustable depth control



Cat. No.	Free Speed (rpm)	Configuration	Saw Blade Capacity	Maximum Depth of Cut	Type Housing	Weight	Length	Air Inlet Size
12L2240-90	14,000	Right Angle	2.5"	9/16 in	Composite	2.3 lb 1.04 kg	10.9 in 277 mm	1/4 in
12L2065-90	14,000	Inline	2.5"	9/16 in	Composite	2.1 lb 0.95 kg	8.9 in 226 mm	1/4 in

*All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Applicable wrenches, oilless blades*

12-12 Series - Saw

2,400 - 20,000 RPM 0.3 hp (0.22 kW)

- Vacuum ready
- Compact and easy to use
- Easy to change blades
- Adjustable depth control



Cat. No.	Exhaust	Free Speed (rpm)	Saw Blade Capacity	Maximum Depth of Cut	Type Housing	Weight	Length	Air Inlet Size
12S1288-02	Rear	2,400	2.0"	7/16 in	Composite	1.6 lb 0.73 kg	8.9 in 226 mm	1/4 in
12S1289-02	Rear	3,600	2.0"	7/16 in	Composite	1.6 lb 0.73 kg	8.9 in 226 mm	1/4 in
12S1206-02	Front	12,000	2.0"	7/16 in	Composite	1.3 lb 0.59 kg	7.1 in 180 mm	1/4 in
12S1273-03	Vacuum Ready	12,000	2.0"	7/16 in	Composite	2.3 lb 1.04 kg	7.1 in 180 mm	1/4 in
12S1282-02	Rear	12,000	2.0"	7/16 in	Composite	1.3 lb 0.59 kg	7.1 in 180 mm	1/4 in
12S1207-02	Front	20,000	2.0"	7/16 in	Composite	1.3 lb 0.59 kg	7.1 in 180 mm	1/4 in
12S1274-03	Vacuum Ready	20,000	2.0"	7/16 in	Composite	2.3 lb 1.04 kg	7.1 in 180 mm	1/4 in
12S1283-02	Rear	20,000	2.0"	7/16 in	Composite	1.3 lb 0.59 kg	7.1 in 180 mm	1/4 in

*All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm
Standard Equipment: Applicable wrenches, oilless blades*

12-27 Series - Saw

940 - 11,000 RPM 0.9 hp (0.67 kW)

- Compact and easy to use
- Excellent control and high productivity with minimum fatigue
- Easy to change blades



Cat. No.	Exhaust	Free Speed (rpm)	Saw Blade Capacity	Maximum Depth of Cut	Type Housing	Weight	Length	Air Inlet Size
12S2790-02	Rear	430	4 in	1 in	Composite	6.2 lb 2.81 kg	16.2 in 411 mm	1/4 in
12S2792-02	Rear	940	3.375 in	1 in	Composite	6.2 lb 2.81 kg	16.2 in 411 mm	1/4 in
12S2793-02	Rear	3,200	4 in	1 in	Composite	5.2 lb 2.36 kg	14.5 in 368 mm	1/4 in
12S2794-01	Rear	4,700	2.5 in	9/16 in	Composite	4.6 lb 2.09 kg	13.2 in 335 mm	1/4 in
12S2794-02	Rear	4,700	3.375 in	1 in	Composite	5.2 lb 2.36 kg	14.5 in 368 mm	1/4 in
12S2774-02	Vacuum Ready	7,000	3.375 in	1 in	Composite	6.5 lb 2.95 kg	14.1 in 358 mm	1/4 in
12S2775-01	Vacuum Ready	8,500	4 in	1 in	Composite	7.2 lb 3.27 kg	14.1 in 358 mm	1/4 in
12S2775-03	Vacuum Ready	8,500	4 in	1 in	Composite	6.5 lb 2.95 kg	14.1 in 358 mm	1/4 in
12S2748-01	Front	9,000	4 in	1 in	Composite	4.8 lb 2.18 kg	11.4 in 290 mm	1/4 in
12S2749-01	Front	11,000	3.375 in	1 in	Composite	4.8 lb 2.18 kg	11.4 in 290 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 5/16 in / 7.9 mm

Standard Equipment: Applicable wrenches, oilless blades, 3/4 in Arbor adapter

12-42 Series - Saw

5,800 - 8,600 RPM 1.7 hp (1.27 kW)

- Adjustable depth control
- Easy to change blades
- Compact and easy to use

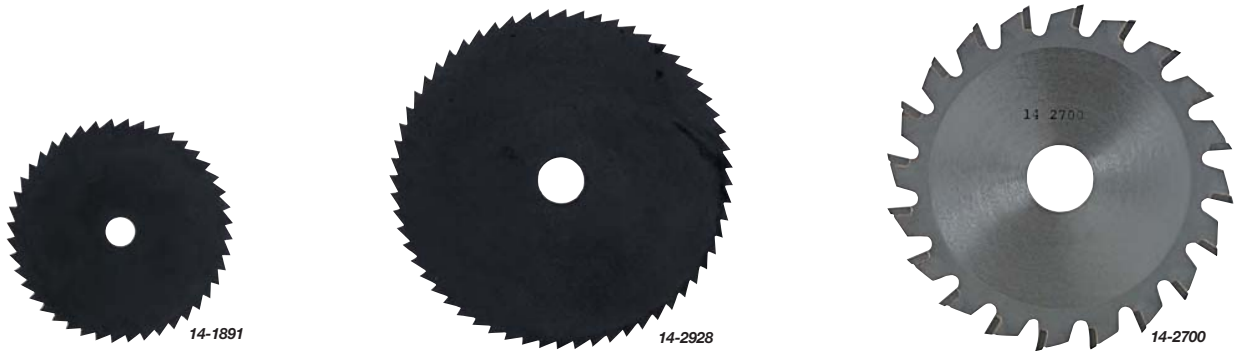


Cat. No.	Exhaust	Free Speed (rpm)	Saw Blade Capacity	Maximum Depth of Cut	Type Housing	Weight	Length	Air Inlet Size
12S4216-01	Front	5,800	4.0"	1 in	Composite	7.9 lb 3.58 kg	15.5 in 394 mm	1/4 in
12S4217-01	Front	7,200	4.0"	1 in	Composite	7.9 lb 3.58 kg	15.5 in 394 mm	1/4 in
12S4225-01	Vacuum with PortaBag	8,500	4.0"	1 in	Composite	9.9 lb 4.49 kg	17.0 in 432 mm	1/4 in
12S4225-02	Vacuum with Floor Bag	8,500	4.0"	1 in	Composite	9.2 lb 4.17 kg	17.0 in 432 mm	1/4 in
12S4218-01	Front	8,600	4.0"	1 in	Composite	7.9 lb 3.58 kg	15.5 in 394 mm	1/4 in
12S4225-03	Vacuum Ready	8,500	4.0"	1 in	Composite	9.2 lb 4.17 kg	17.0 in 432 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/2 in / 12.7 mm

Standard Equipment: Applicable wrenches, oilless blades, 3/4 in Arbor adapter



Part Number	Diameter	Type	Maximum Depth & Width of Cut	Maximum rpm	Recommended Use (Guidelines only)
Saw Blades – 1/4" arbor hole					
14-1875	1 1/4"	High Speed Steel 22 Teeth	3/32" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-0930	1 1/4"	High Speed Steel 44 Teeth	3/32" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1895	1 1/2"	High Speed Steel 22 Teeth	7/32" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1890	2"	High Speed Steel 22 Teeth	7/16" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1891	2"	High Speed Steel 44 Teeth	7/16" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1892	2"	High Speed Steel 60 Teeth	7/16" x 1/16"	12,000	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1396*	1 1/2"	Carbide Chip 36/80 Grit	7/32" x 3/32"	20,000	Fiberglass, Rubber
14-1395*	2"	Carbide Chip 36/80 Grit	7/16" x 3/32"	20,000	Fiberglass, Rubber
14-1398*	1 1/2"	Diamond Chip 40/60 Grit	7/32" x 5/64"	20,000	Fiberglass, Rubber
14-1400*	2"	Diamond Chip 40/60 Grit	7/16" x 5/64"	20,000	Fiberglass, Rubber, Carbon Fiber

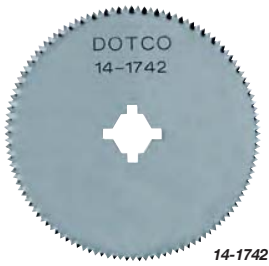
*CAUTION: Use only for sawing non-metallic materials.

Part Number	Diameter	Type	Maximum Depth of Cut	Use With Model	Recommended Use Up To (Guidelines only)
Saw Blades – 7/16" arbor hole					
14-2147	2 1/2"	High Speed Steel 44 Teeth	9/16"	12S2794-01	1/4" Aluminum, 1/2" Plywood, 1/2" Phenolic
14-2146	2 1/2"	High Speed Steel 80 Teeth	9/16"	12S2793-01	16 Gauge Steel
14-2928	3 3/8"	High Speed Steel 60 Teeth	15/16"	12S2794-02	1/4" Aluminum, 1/2" Plywood, 1/2" Phenolic
14-2929	3 3/8"	High Speed Steel 80 Teeth	15/16"	12S2792-02	20 Gauge Steel, Paneling, Plywood
14-1887	2"	High Speed Steel 22 Teeth	7/16" x 1/16"	12S1288-04	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1888	2"	High Speed Steel 44 Teeth	7/16" x 1/16"	12S1288-04	Aluminum, Laminated Plastics, Pressed Board, Wood
14-1889	2"	High Speed Steel 60 Teeth	7/16" x 1/16"	12S1288-04	Aluminum, Laminated Plastics, Pressed Board, Wood

Part Number	Diameter	Type	Maximum Depth & Width of Cut	Recommended Use (Guidelines only)
Saw Blades – 3/4" arbor hole				
14-2701*	4"	Carbide Chip 36/80 Grit**	1" x 1/8"	Fiberglass, Hard Rubber
14-2694*	4"	Carbide Chip 36 Grit	1" x 11/64"	Hard Rubber
14-2697*	4"	Carbide Chip 80 Grit	1" x 1/8"	Fiberglass
14-2699*	4"	Carbide Tip 20 Teeth	1" x 7/64"	Thin Fiberglass, Plastic Laminates to 1/8" thick
14-2700*	4"	Carbide Tip 20 Teeth	1" x 7/64"	Thicker Fiberglass, Plastic Laminates to 1/2" thick
14-2710	4"	Carbide Tip 20 Teeth	1" x 7/64"	Thin non-ferrous material (to approx. 1/8" thick)
14-2711	4"	Carbide Tip 12 Teeth	1" x 7/64"	Thicker non-ferrous material (to approx. 1/2" thick)
14-2690*	4"	Diamond Chip 60/80 Grit	1" x 5/64"	Fiberglass, Composite, Carbon Fiber

*CAUTION: These carbide chip and tip and diamond blades are not to be used on metallic materials.

**Slim blade for easy cutting of fiberglass, with minimum dust -36 grit on periphery and 80 grit on the sides.



14-1742

Part Number	Diameter	Type	Maximum Depth & Width of Cut	Recommended Use (Guidelines only)
Saw Blades – Oscillating saws with 3/8” arbor hole				
14-1740*	2”	Carbide Chip 36/80 Grit	7/16” x 3/32”	Fiberglass
14-1741*	2”	Diamond Chip 40/60 Grit	7/16” x 5/64”	Fiberglass, Carbon Composites
14-1742	2 1/2”	Stainless Steel 124 Teeth	9/16” x 3/64”	Wood, Uncured or Cured Composites, Aluminum, Plastic
14-1746	2 1/2”	Flush Stainless 124 Teeth	9/16” x 3/64”	Wood, Uncured or Cured Composites, Aluminum, Plastic
14-1743	2 1/2”	Carbide 120 Teeth	9/16” x 1/16”	Cured Graphic Composites
14-1744	2 1/2”	Razor	9/16” x 3/64”	Cardboard, Light Plastic
14-1745	2 1/2”	Stainless Steel 120 Teeth	9/16” x 3/64”	Confined Space
14-1747	3”	Razor	9/16” x 3/64”	Cardboard, Light Plastic

*Use only for sawing non-metallic materials.



Vacuum Conversion Kits

12-27 series

To convert an existing Dotco front exhaust series 12-27 saw to Vacuum operation, order any of the conversion kits listed in the table. NOTE: When converting to vacuum, free speed of the tool will be reduced 20%.

Part Number	Converts front exhaust to this configuration
2704	Option 1 – Porta Bag
2705	Option 2 – Floor Bag
2729	Option 3 – Vacuum System Adapter

12-42 series

To convert an existing Dotco front exhaust series 12-42 saw to Vacuum operation, order any of the conversion kits listed in the table. NOTE: When converting to vacuum, free speed of the tool will be reduced 20%.

Part Number	Converts front exhaust to this configuration
4131	Option 1 – Porta Bag
4132	Option 2 – Floor Bag
4133	Option 3 – Vacuum System Adapter

SC3A Series - Triple Scaler

- Piston Type
- For maximum material removal
- Heavy duty, rugged application



Cat. No.	Bore	Stroke	Type Housing	Blows Per Minute	Weight	Length	Air Inlet Size
SC3A	0.88 in	0.81 in	Aluminum	5,200	7.9 lb 3.58 kg	13.3 in 338 mm	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 3/8 in / 9.6 mm
 Standard Equipment: Operating instructions & service manual

B1 Series - Lever Start - Needle Scaler

- Built-in Chisel Retainer
- Front Exhaust
- Lever Start
- Needle Type



Cat. No.	Bore	Abrasive Capacity	Stroke	Type Housing	Blows Per Minute	Weight	Length	Air Inlet Size
B1-CNB-LT-RD	1.0 in	5" needles standard, 7" needles optional	1.1 in	Steel	4,600	6.3 lb 2.86 kg	15.0 in 381 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
 Minimum Hose I.D.: 5/16 in / 7.9 mm
 Standard Equipment: Operating instructions & service manual

MP5187 - Lightweight Needle Scaler

- 4,200 blows per minute
- Compact design for work in close quarters
- Almost half the weight of standard models with similar BPM
- Precision heat treated needles for maximum performance



Cat. No.	Throttle Handle	Blows Per Minute	Bore	Stroke	Weight	Length
MP5187	Lever	4,200	.79 in 20 mm	.59 in 15 mm	2.5 lb 1.1 kg	8.9 in 225 mm

General:
 Air Inlet 1/4" NPT
 Use 1/4" (9.6 mm) I.D. hose
 All tools performance rated @ 90psi (620 kPa) air pressure.

Standard Equipment:
 MP5187: 12 needles, 1/8" (3mm) dia., 5" (125mm) long
 Owners Manual
 Parts List

B1 Series - Lever Start - Needle Scaler Kit

- Kit Includes B1-CNB-LT-RD scaler, whip hose, extra set of needles, two chisels, extra chisel retainer, retainer parts and metal case.



Cat. No.	Bore	Abrasive Capacity	Stroke	Type Housing	Blows Per Minute	Weight	Length
B1-CNB-LT-RD-K	1.0 in	5" needles standard, 7" needles optional	1.1 in	Steel	4,600	6.3 lb 2.86 kg	15.0 in 381 mm

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Operating instructions & service manual

B1 Series - Push-Pull Start - Chisel Scaler

- Built-in Chisel Retainer
- Chisel Type



Cat. No.	Bore	Abrasive Capacity	Stroke	Type Housing	Blows Per Minute	Weight	Length	Air Inlet Size
B1-C-PT	1.0 in	1/2" square stock	1.1 in	Steel	4,600	4.3 lb 1.95 kg	12.0 in 305 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Operating instructions & service manual

B Series - Lever Start - Chisel Scaler

- Built-in Chisel Retainer
- Chisel Type



Cat. No.	Bore	Abrasive Capacity	Stroke	Type Housing	Blows Per Minute	Weight	Length	Air Inlet Size
B1-C-LT	1.0 in	1/2" Square Stock	1.1 in	Steel	4,600	4.3 lb 1.95 kg	10.3 in 262 mm	1/4 in
BR-C-LT	1.0 in	5/8 round stock	1.1 in	Steel	4,200	4.3 lb 1.95 kg	10.4 in 264 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Operating instructions & service manual

MP5195 - Long Reach Scaler

- 2,200 blows per minute
- For rugged scaling applications
- Long reach scaler design for quick and easy stripping of dirt, grease, paint, glue, resins, floor coverings and tiles
- Full range of chisel blades



Cat. No.	Blows Per Minute	Piston Diameter	Piston Stroke	Weight	Length
MP5195	2,200	1.1 in 29 mm	1.5 in 39 mm	11.5 lb 5.2 kg	60.0 in 1524 mm

General:
Air Inlet 1/4" NPT for MP5195 Model
Use 1/4" (9.6 mm) I.D. hose
All tools performance rated @ 90psi (620 kPa) air pressure.

Standard Equipment:
51741 4" 5/8 hex chisel
Owners Manual
Parts List

CH30 Series Chipping Hammer

- Heavy duty for rugged use
- Ring valve hard hitting hammer
- Forged steel hammer
- Heat treated cylinder & piston for reduced wear
- Replaceable bushing



Cat. No.	Bore	Abrasive Capacity	Stroke	Type Housing	Blows Per Minute	Weight	Length	Air Inlet Size
CH-30-HX	1.125 in	.580 Hex	2.5 in	Aluminum	2,200	15.0 lb 6.80 kg	17.7 in 450 mm	3/8 in
CH-30-HX-QC	1.125 in	.580 Hex	2.5 in	Aluminum	2,200	15.0 lb 6.80 kg	17.7 in 450 mm	3/8 in
CH-30-RD	1.125 in	.680 Round Shank	2.5 in	Aluminum	2,200	15.0 lb 6.80 kg	17.7 in 450 mm	3/8 in
CH-30-RD-QC	1.125 in	.680 Round Shank	2.5 in	Aluminum	2,200	15.0 lb 6.80 kg	17.7 in 450 mm	3/8 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/2 in / 12.7 mm

Standard Equipment: Operating instructions & service manual

Rivet Hammers

- For driving 1/8"-1/4" (3-6 mm) rivets
- 0.401 Rivet Set Shank Diameter
- Built-in air regulator controls power output
- Spool valve for precise speed control



Cat. No.	Bore	Retainer Style	Rivet Capacity	Stroke	Blows Per Minute	Weight	Length	Air Inlet Size
E4-2335	0.50 in	Open	3/16" / 4.8mm	4.0 in	1,600	2.6 lb 1.20 kg	8.4 in 213 mm	1/4 in
E5-2336	0.50 in	Open	1/4" / 6.4mm	5.0 in	1,400	2.9 lb 1.30 kg	9.4 in 239 mm	1/4 in
F4-PT-RT-B	0.56 in	Beehive	1/4" 6.4mm	4.0 in	1,700	3.3 lb 1.50 kg	8.7 in 221 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 1/4 in / 6.4 mm

Standard Equipment: Operating instructions & service manual
E4-2335 and E5-2336 have minimum order quantities

B1 Series Chisels (Safety Retainer Type)

Type	Cutting edge		Square Stock Size		Overall Length		Code Number
	in.	mm	in.	mm	in.	mm	
Hardened Blank	—	—	1/2	12.7	7 1/2	190	839052
Hardened Blank	—	—	1/2	12.7	12	305	839053
Cold Chisel	3/4	19	1/2	12.7	7 1/2	190	839051
Cold Chisel	3/4	19	1/2	12.7	12	305	839341
Cold Chisel	3/4	19	1/2	12.7	18	457	839335
Cold Chisel	1 1/2	38	1/2	12.7	8	203	839467
Spoon Chisel	1 3/8	35	1/2	12.7	7 1/4	184	839050
Spoon Chisel	1 3/8	35	1/2	12.7	12	305	839299
Spoon Chisel	1 3/8	35	1/2	12.7	18	457	839334
Spoon Chisel	1	25	1/2	12.7	7 1/4	184	839740



BR Series Chisels (Safety Retainer Type)

Type	Cutting Edge		Round Stock Size		Overall Length		Code Number
	in.	mm	in.	mm	in.	mm	
Blank	—	—	5/8	16	7 1/2	190	829173
Long Wide Blade	1 3/4 x 3/32	44.5 x 2.4	5/8	16	7	203	829165
Cold	3/4 x 3/32	19.1 x 2.4	5/8	16	8 1/2	216	829150
Scaling	1 1/4 x 3/32	31.8 x 2.4	5/8	16	9	229	829301
Spoon	1 3/8 x 3/32	34.9 x 2.4	5/8	16	7 1/2	190	829310



Cleco[®]
Dotco[™]

14CF Series - Rivet Shaver with Stabilizer

- Non-Reversible
- Optional stabilizer attachment



Cat. No.	Free Speed (rpm)	Abrasive Capacity	Weight	Length
14CFS60-95	29,000	0.0005 Cutter Adjustment	2.3 lb 1.04 kg	8.2 in 208 mm
14CFS60-98	29,000	0.00025 Cutter Adjustment	2.3 lb 1.04 kg	8.2 in 208 mm
14CNL60-95	20,000	0.0005 Cutter Adjustment	4.5 lb 2.04 kg	8.9 in 226 mm

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Stabilizer and choice of skirt

Cutter Diameter Inches	Carbide Cutter	Part Number										
		Skirts		1" Extended Skirt			4" Extended Skirt			6" Extended Skirt		
		Std.	Wide	Adapter	Skirt	Assembly	Adapter	Skirt	Assembly	Adapter	Skirt	Assembly
5/16	-	14-4391	14-4401	-	-	-	-	-	-	-	-	-
3/8	14-4382	14-4392	14-4402	-	-	14-4532	14-4302	14-4312	14-4512	-	14-4372	14-4572
7/16	14-4383	14-4393	14-4403	14-4323	-	14-4533	14-4303	-	14-4513	14-4363	14-4373	14-4573
1/2	14-4384	14-4394	14-4404	14-4324	14-4334	14-4534	-	-	14-4514	14-4364	14-4374	14-4574
9/16	14-4385	14-4395	14-4405	-	-	-	-	-	-	-	-	-
5/8	14-4386	14-4396	14-4406	-	-	-	14-4306	14-4316	14-4516	-	-	-
3/4	14-4387	14-4397	-	-	-	-	-	-	-	-	-	-
1	14-4422	14-4410	-	-	-	-	-	-	-	-	-	-
1-1/4	-	14-4412	-	-	-	-	-	-	-	-	-	-

14CF Series - Shears & Scissors

- Industrial shears suitable for a variety of general industry applications



Cat. No.	Spindle Size	Abrasive Capacity	Type Housing	Weight	Length	Air Inlet Size
14CFS93-98	Scissor Shear	18 Gauge Steel-1/16" other material	Aluminum	2.4 lb 1.09 kg	9.8 in 249 mm	1/4 in
14CFS93-99	Standard Shear	18 Gauge Steel-1/16" other material	Aluminum	2.2 lb 1.00 kg	8.0 in 203 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.
Minimum Hose I.D.: 5/16 in / 7.9 mm
Standard Equipment: Shear attachment and cutter blades

12-20 Series - Nibbler

- Great for tight access application
- Suitable for general industry



Cat. No.	Capacity	Speed SPM	Type Housing	Weight	Length	Air Inlet Size
12L2062-96	18 ga. Mild Steel	6	Composite	1.1 lb 0.50 kg	8.3 in 211 mm	1/4 in

All tools performance rated @ 90psi / 620 kPa air pressure.

12-10 Series - Lint Picker - 300 Series Collet

- Front or Rear Exhaust
- 6" or 9" pick rod
- Ideal for textile operation



Cat. No.	Exhaust	Capacity	Free Speed (rpm)	Type Housing	Weight	Length	Air Inlet Size
12L1010-36	Front	6" or 9" Picker Rod	20,000	Composite	0.75 lb 0.34 kg	4.8 in 122 mm	1/4 in
12L1031-36	Rear	6" or 9" Picker Rod	20,000	Composite	0.8 lb 0.36 kg	5.5 in 140 mm	1/4 in

All tools performance rated @ 90 psi / 620 kPa air pressure.

Minimum Hose I.D.: 1/4 in / 6.4 mm

Standard Equipment: Applicable collet, collet wrenches, 6" / 152 mm Picker Rod 14-2181

TULMan Electronic Counter

- Simple and easy to install on any small pneumatic tool, the Cleco TULMan allows you to know when and how often your tools are used for calibration, service and overall life. This device can also be used to monitor consumables and productivity.
- Rugged polymer construction drop tested and crush-resistant
- Electronics isolated from air to prevent contamination
- 1/4 in NPT outlet and inlet
- LEDs indicate a yellow warning when cycle or run time limits are being reached
- LEDs turn red when cycle or run time limits are reached
- Tamper-proof cover for micro USB access requires T10 torx driver
- Micro USB connection for program set up and data

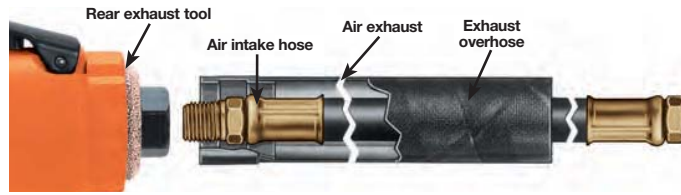


Model Number	Max Pressure	Min Flow	Max Flow	Weight	Connection
240461PT	100 psi / 6.9 bar	5 cfm / 145 lpm	20 cfm / 570 lpm	2.8 oz / 80 g	1/4 in NPT



Overhose Assemblies

For use with Cleco/Dotco series rear exhaust tools:



Tool Series	Overhose and Airhose	Non-Overhose to Overhose Conversion Kit	Overhose Only			Airhose Only		
			Number	Length		Number	Length	
				ft.	m		ft.	m
10-04	45-0946		45-0945	1.0	0.3	45-0948	5.0	1.5
	45-0953		45-0955	2.0	0.6	45-0948	5.0	1.5
	45-0954		45-0956	4.0	1.2	45-0948	5.0	1.5
12-03, 12-04	45-6013		45-6003	1.0	0.3	45-0948	5.0	1.5
	45-6012		45-6002	2.0	0.6	45-0948	5.0	1.5
	45-6000		45-6001	4.0	1.2	45-0948	5.0	1.5
10-10, 10-11, 10-12	45-1930		45-1904	2.0	0.6	45-1409	8.0	2.4
	45-1931		45-1901	4.0	1.2	45-1409	8.0	2.4
	45-1932		45-1902	8.0	2.4	45-1409	8.0	2.4
12-10, 12-11, 12-12		45-2783	45-2629	2.0	0.6	45-1408	8.0	2.4
12-13, 15LF, 15-14		45-2784	45-2687	4.0	1.2	45-1408	8.0	2.4
		45-2785	45-2688	8.0	2.4	45-1408	8.0	2.4
10-20, 10-21, 10-22		45-2786	45-2629	2.0	0.6	45-1508	8.0	2.4
10-25, 10-26, 10-27		45-2787	45-2687	4.0	1.2	45-1508	8.0	2.4
12-20, 12-21, 12-22		45-2788	45-2688	8.0	2.4	45-1508	8.0	2.4
12-25, 12-26, 12-27, 12-28, 15LS, 15IN								
12-91			45-0974	4.0	1.2	01-9167	5.0	1.5
14CF			45-2687	4.0	1.2	45-1508	8.0	2.4
14CS			45-2687	2.0	0.6	45-1408	8.0	2.4
			45-2687	4.0	1.2	45-1408	8.0	2.4
			45-2688	8.0	2.4	45-1408	8.0	2.4
			45-2688	8.0	2.4	45-1408	8.0	2.4
14CN			45-2687	2.0	0.6	45-1508	8.0	2.4
			45-2687	4.0	1.2	45-1508	8.0	2.4
		1025687	45-2688	8.0	2.4	45-1508	8.0	2.4
			45-2688	8.0	2.4	45-1508	8.0	2.4

Airline Filter and Lubricator



Part Number	Description	NPT	Air Flow		Max. Pressure	
		in.	SCFM	m ³ /min	psig	bar
45-0211	Filter w/cartridge*	1/4	17	8.0	100	6.9
45-0212	Filter cartridge	-	-	-	-	-
45-0201	Lubricator**	1/4	22	10	100	6.9
45-0301	Lubricator**	3/8	22	10	100	6.9

GENERAL: Use where inconvenient for standard filter or lubricator.

* NOTE: Filter will not remove water.

** NOTE: One ounce reservoir good for an average eight hour shift.



Air Hoses

Part Number	Hose I.D.		Fittings (NPT)		Length	
	in.	mm	in.	mm	ft.	m
A110026	3/16	4.7	1/8	3/8-24*	6.0	1.8
A139856	3/16	4.7	1/8	1/8	6.0	1.8
45-1307	3/16	4.7	1/8	1/4	7.0	2.1
45-1408	1/4	6.4	1/4	1/4	8.0	2.4
45-1409	1/4	6.4	1/8	1/4	8.0	2.4
45-1508	5/16	7.9	1/4	1/4	8.0	2.4
45-1610	3/8	9.5	3/8	3/8	10	3.0
45-1810	1/2	12.7	3/8	1/2	10	3.0
45-1812	1/2	12.7	1/2	1/2	12	3.7
45-1825	1/2	12.7	1/2	1/2	25	7.6

GENERAL: 3/16" & 1/4" hoses have braided covers, all others have neoprene covers.

* NOTE: 3/8"-24 is a straight thread

Activeswivel

Part No.	NPT in.	Air Flow		Max. Pressure		Weight	
		SCFM	m ³ /min	psig	bar	lbs.	kg
SW-102	1/4	25	7.1	150	10.4	0.20	0.09
SW-103	3/8	45	12.7	150	10.4	0.40	0.18
SW-104	1/2	65	18.4	150	10.4	0.80	0.36
SWR-102*	1/4	25	7.1	150	10.4	0.25	0.11

* NOTE: Equipped with built-in flow regulator.





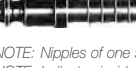


Swivel Hose Couplings

Part Number	NPT in.
A20744	1/4
A20741	3/8
A20764	1/2



Quick Disconnect Fittings

Fitting Type*	NPT in.	Nominal Size		
		1/4"	3/8"	1/2"
Coupler (male NPT) 	1/8	45-0710	-	-
	1/4	45-0711	45-0713	-
	3/8	45-0712	-	-
	1/2	-	-	45-0717
Coupler (female NPT) 	1/4	-	-	-
	3/8	45-0732	45-0734	45-0736
Nipple (male NPT) 	1/8	45-0720	-	-
	1/4	-	45-0724	-
	3/8	45-0722	45-0725	45-0726
	1/2	-	-	45-0727
Nipple (female NPT) 	1/4	-	45-0744	-
	3/8	45-0742	45-0745	45-0746
	1/2	-	-	45-0747
Nipple (with hose barbs) 	1/4**	45-0748	-	-
	1/2**	-	-	45-0753

* NOTE: Nipples of one size will not fit couplers of another size.

** NOTE: Indicates inside diameter of hose.

NOTE: 1/4" nominal will pass 49 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 30 cfm.

3/8" nominal will pass 90 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 53 cfm.

1/2" nominal will pass 168 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 109 cfm.

Steel Handle Bushings

Part Number	Size
881276*	1/4 in. MPT x 1/4 in. FPT
841554†	1/4 in. MPT x 1/4 in. FPT
841553	3/8 in. MPT x 1/4 in. FPT
841552	3/8 in. MPT x 3/8 in. FPT

* Light duty for rotary tools

† Heavy duty for percussion tools.

Lubricants

Part Number	Size	Description	M.S.D.S. No.
Oils			
540397	1 qt. plastic	Air line oil	CPT-153
533485	1 gal. metal	Air line oil	CPT-153
536333	1 gal. metal	High film strength	CPT-154
45-0918	1 qt. plastic	Air line oil (<i>Dotco</i>)	CPT-155
45-0919	1 gal metal	Air line oil (<i>Dotco</i>)	CPT-155
539317	1 qt. plastic	Hydraulic oil (<i>Pulse</i>)	CPT-157
Greases			
513156	18 oz. can	Teflon grease	CPT-145
45-0983	2 oz. tube	Dotco gear grease	CPT-147
45-0980	2 oz. tube	Dotco gear lube	CPT-148

NOTE: Under normal conditions of use, lubrication products sold separately for or used within these tools should not cause an exposure hazard. Refer to the Material Safety Data Sheet (M.S.D.S.) for Safety and Disposal information. M.S.D.S. sheets shown in the chart are available upon request.

Push Type Grease Gun

Part Number: 45-1982
(*Dotco lube sold separately - see above*)



Service Tools

"T" Wrenches

Part Number	Description
1021202	3/16" Hex socket screws

To remove and replace hex socket screws in tool housings.



Hex Key Wrenches

Part Number	Description
1008860	1/8"
1006443	3/16"

Open End Wrenches

Part Number	Description
1006626	3/6" & 5/16"
1011691	7/16"
1014471	1/2"
1004958	9/16" & 1-33/64" Hex Box
1014472	11/16"
1010911	7/8"
1016694	1-1/8"

Snap Ring Pliers

Part Number	Description
1007488	External sizes 25 thru 87



Part Number	Description
1008702	External sizes 37 thru 93



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