



Master Power® Industrial Power Tools

SP-904-EN 0109 7-5M

**COOPER** Tools



Cooper Tools Division has attained ISO 9001 Quality System Certification for seven of our facilities. The driving force behind the implementation of the Quality System is the commitment “to provide our customers with the **best value delivered** by offering only products and services **that meet or exceed their expectations**”.



Lexington, South Carolina



Dayton, Ohio



Hicksville, Ohio



Springfield, Ohio



Braunschweig, Germany



Westhausen, Germany



Ozoir-la-Ferrière, France

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FINISHING

DRILLS

FASTENING

GRINDERS

CUTTING & PERCUSSION

ACCESSORIES

Great new tools for 2009. Same great value since 1939.



Since our founding in 1939, Master Power has been producing quality air tools for a complete range of industrial applications.

For 2008, that tradition of quality continues. Some examples of our new line are shown on

the pages that follow. As always, performance, innovative design, ergonomics, special alloys for

critical parts, hand assembly, meticulous quality control – continues to contribute to the Master Power reputation for superbly crafted, durable air tools. A real value leader.

Customer Service – The Real Value

With products of such superior quality, it's no great challenge to make a sale. The real challenge is providing the courteous treatment, prompt delivery and a full inventory of parts that customers expect. This task is accomplished at Master Power by one of the largest service networks in



the industry where "service after the sale" is not just an afterthought.

More than just fast local delivery!



- Your Master Power Distributor maintains a constantly replenished warehouse...a single, convenient source of supply that acts as your tool storehouse.
- Your shipping costs are lower because the shipping point is nearby.
- You deal with people who know your industry as well as their own.

■ Distributor salesmen are trained in the proper use and application of power tools. They are qualified to help you select the right tool for the job.



- You get quick service, catalog and price information, tools and parts, warranty administration, technical help and so much more.
- You get a lot more than just quality power tools when you buy from your Master Power distributor.

MP Master Power
 ® *Value. Performance. Delivery.*



Warranty

Cooper 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 Cooper and specifically excludes products manufactured by others. Products not manufactured by Cooper are warranted only to the extent and in the manner warranted to Cooper by the

manufacturer and then only to the extent Cooper is able to enforce such warranty. Cooper's warranty with respect to products manufactured by it is limited to the repair or replacement, as Cooper 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. Cooper 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 Cooper's approval. **COOPER 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 Products

Cooper Tools' products are classified as non-hazardous manufactured items, defined in the OSHA 1910.1200 Hazard Communication Standard as "Articles". These products, under conditions of normal use, do not release or cause exposure to a hazardous chemical.

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 are available upon request from Cooper Tools or on our website at www.coopertools.com.

Cooper is also aware of, and complies with, the provisions

of section 611 amendments to the Clean Air Act of 1990. No ozone depleting chemicals have been used in the manufacture of our products.

If you resell or distribute these products, you have the responsibility for ensuring that the Material Safety Data Sheets are provided to the purchaser.

Proper lubrication is essential to the economical operation of pneumatic and electric tools. Cooper Tools 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 Cooper Tools products.

Fastener Selection

The suggested fasteners listed in this catalog are determined by matching a tool's maximum rated load to Society of Automotive Engineers (SAE) Grade 5 and International Organization of Standardization (ISO) Grade 9.8 fasteners. The torque capabilities for SAE Grade 5 fasteners are from SAE Manual, SAE J429 (Mechanical and Material Requirement for Externally Threaded Fasteners). The torque capabilities for ISO Grade 9.8 fasteners are from ISO 898-1 (Mechanical Properties of Fasteners). All values selected are based on lubricated fasteners.

The suggested fasteners listed in this catalog are advisory only, and Cooper Tools recommends that you further consult other technical references before final tool selection. Reliance on the accuracy of this catalog data for any purpose by anyone is at the sole risk of that person. Cooper Tools is not responsible for any loss, claim, or damage arising from improper tool selection.

The torque values listed under the headings "TORQUE" are tested on an ISO 5393 soft joint rate test fixture unless otherwise stated by a special note.



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.



CAUTION

The signal word "CAUTION" identifies all situations meriting special attention to ensure that guidelines, rules, hints and the correct work procedures are observed; and, to prevent damage to and destruction of the machine and/or parts.

Operational Instructions

- These Cooper Tools portable and mountable tools are air powered. **ALWAYS USE CAUTION WHEN USING POWER TOOLS FOR PERSONAL SAFETY.**
- **General Industry Safety & Health Regulations, part 1910, OSHA 2206, available from Superintendent of Documents; Government Printing Office; Washington, DC 20402**

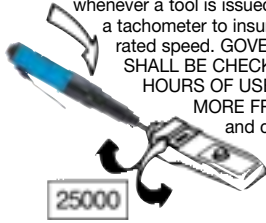
- **Safety Code for Portable Air Tools – ANSI B1861 available from American National Standards Institute, Inc.; 1430 Broadway; New York, NY 10018**
- **State and local regulations.**
- **Use only genuine Cooper Tools replacements parts.**





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 shall be checked with a tachometer to insure that its actual speed does not exceed rated speed. **GOVERNED TOOLS IN USE ON THE JOB SHALL 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

Tools shall be used for purposes intended in their design. Refer to product catalog.



Modification of the tool, or use of non specified accessories, may result in serious injury.



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 recommended 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 shall 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. Redress out-of-balance wheels. SEE REGULATIONS.



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



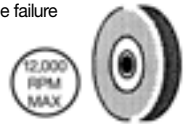
WARNING



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 shall be worn, if necessary, for spark protection deflection. SEE REGULATIONS.



WARNING



High sound levels can cause permanent hearing loss. use hearing protection as recommended by your employer or OSHA. See 29CFR Part 1910.



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," ANSI B186.1.

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 shall 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 shall not be used and must be properly disposed.





The solution for finishing it right.

Master Power offers one of the most complete range of pneumatic equipment for rubbing, sanding and polishing in the world today. Master Power products are in demand by craftsmen and professionals in a wide variety of industries throughout the world. If you are working with wood, composites, solid surface, metal or stone, Master Power has a product that will provide a cost effective finish to your exacting standards.

Major Product Improvements

Significant improvements have been made across the complete range of Master Power products to assure you, our customer, of our continued commitment to enhance your productivity. Just a few of the improvements that will benefit you and make your work more pleasurable: Less Vibration . . . Quieter Running . . . More Power . . . Ease of Repair . . . Reduction in Parts Inventory.

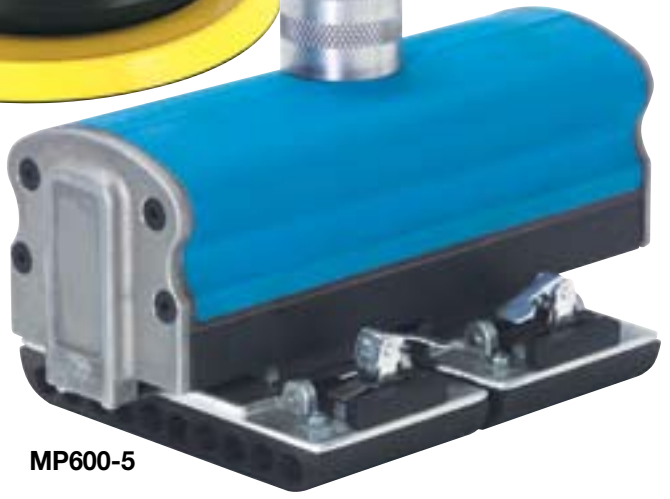
When you want the best, ask for Master Power! Available from your Industrial Distributor.

MP4403-05
(with 3/32" chrome lever)



MP4470-09

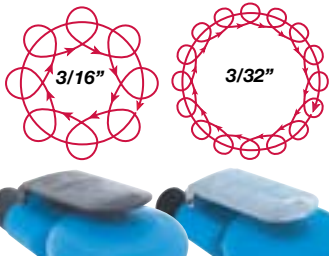






MP4400 Series Random Orbital Sanders

- New improved air shield shaft balancer for longer bearing life.
- The low profile gives the operator more sanding control and greater comfort.
- Consumes less air than comparable tools— ideal for small shops with smaller compressors, yet can run economically in large industrial plants.
- Light weight & low vibration are benefits attributed to the use of high-strength polymer materials. All the qualities of metal without the weight!
- 3/16" orbit pattern for fine finishing or 3/32" orbit pattern for superb finishing.
- Levers allow users to visually see difference between 3/16" & 3/32" tools.



Durable high carbon steel lever won't break off

Sintered bronze one piece muffler does an excellent job of muffling noise and does not clog as easily as competitive models. When needed, makes servicing tool easy.

3 interchangeable grips to reduce fatigue and increase user comfort shipped standard with every sander



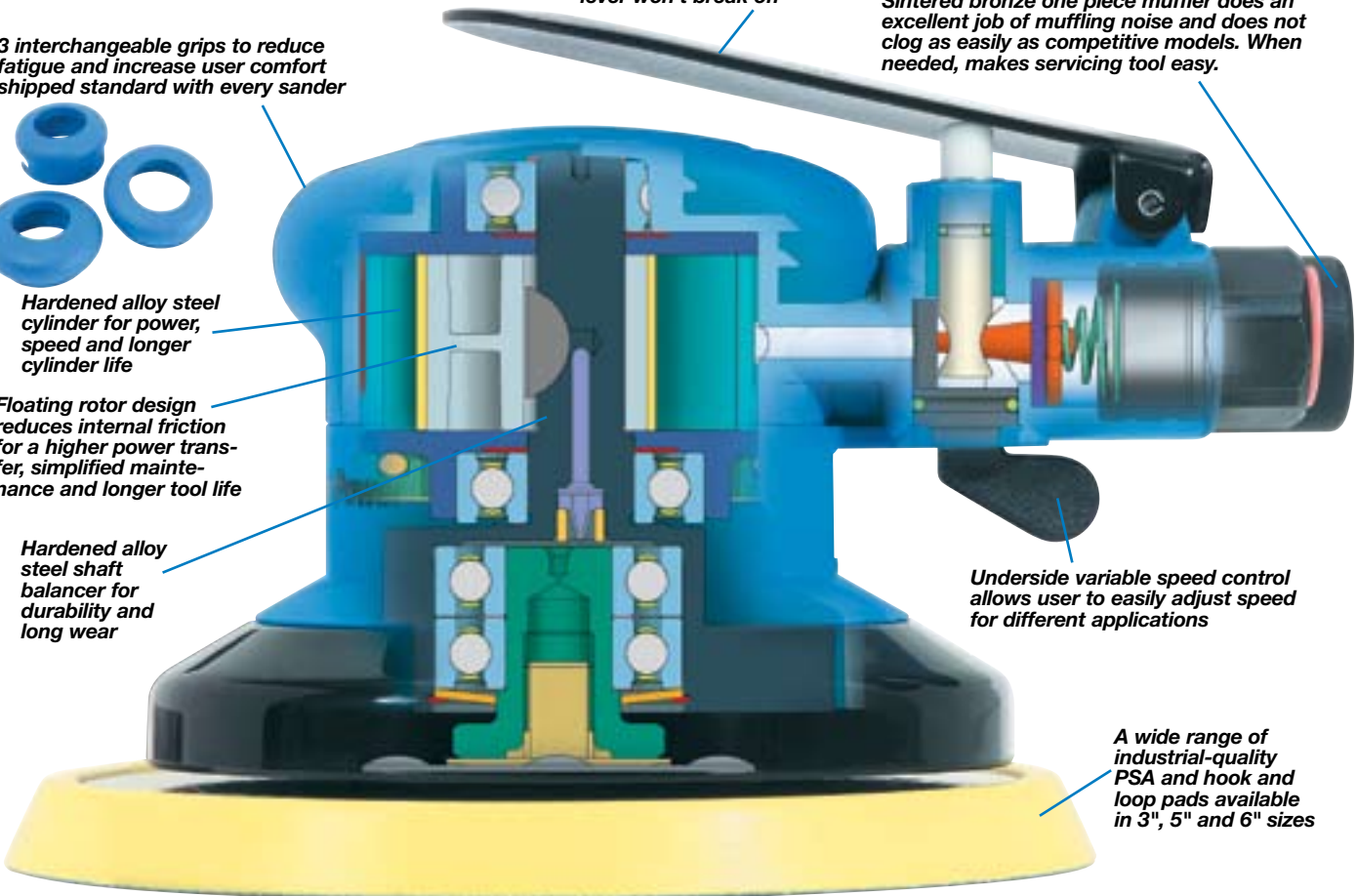
Hardened alloy steel cylinder for power, speed and longer cylinder life

Floating rotor design reduces internal friction for a higher power transfer, simplified maintenance and longer tool life

Hardened alloy steel shaft balancer for durability and long wear

Underside variable speed control allows user to easily adjust speed for different applications

A wide range of industrial-quality PSA and hook and loop pads available in 3", 5" and 6" sizes



MP4400 & MP4403 Series Random Orbital Sanders

Model Number		Backup/Sanding Pad Size	Free Speed RPM	Weight		Height		Length	
3/16"	3/32"			lbs.	kg	in.	mm	in.	mm
12,000 RPM – Non Vacuum									
MP4400-03		3.5	12,000	1.56	0.71	3.33	84.58	5.11	129.79
MP4400-05†	MP4403-05†	5.0	12,000	1.62	0.73	3.33	84.58	5.48	139.19
MP4400-06†	MP4403-06	6.0	12,000	1.68	0.76	3.33	84.58	5.48	139.19
12,000 RPM – Central Vacuum with Shroud									
MP4400-35	MP4403-35HL	5.0	12,000	1.66	0.75	3.33	84.58	7.06	179.32
12,000 RPM – Central Vacuum with Skirt									
MP4400-15	MP4403-15	5.0	12,000	1.73	0.78	3.33	84.58	7.75	196.75
12,000 RPM – Self Generated Vacuum, Floor Bag, Hose & Skirt									
MP4400-23		3.5	12,000	1.60	0.73	3.33	84.58	7.99	202.95
MP4400-25		5.0	12,000	1.73	0.78	3.33	84.58	8.33	211.58

General

Air Inlet 1/4" NPT
 Min. Hose Size: 3/8"
 Tool performance rated at 90 psi (620 kPa) air pressure.
 All threads are 5/16"-24
 Maximum SCFM: 17

Standard Equipment:

Operating instructions & parts manual
 3/8" low profile, medium density premium urethane back-up pad
 Interchangeable grips (3): 70421900 – 2 1/2"
 70422000 – 2 3/4"
 70422100 – 3"

Optional Equipment:

Vac Hose 100704300
 Spare Parts Kit 88004400
 Rotor & Vane Kit 70444800
 † Hook and Loop model available

MP4400-03

MP4400-05

MP4403-05 (with 3/32" chrome lever)

MP4400-06

MP4400-35




MP4470 Series Orbital Sanders

- Lightest weight full size orbital sander in the world.
- Consumes less air than comparable tools—ideal for small shops with smaller compressors, yet can run economically in large industrial plants.
- Light weight & low vibration are benefits attributed to the use of high-strength polymer materials. All the qualities of metal without the weight.
- Patent pending pad suspension system that produces unmatched performance.
- 3/16" orbit pattern for fine finishing.
- 3 interchangeable grips (shipped standard with each tool) means less fatigue and greater user comfort no matter what the hand size.



MP4470-09

MP4470 Series 3/16" Orbital Sanders

Model Number - 3/16" Clip	Abrasive Size	Free Speed		Weight		Height		Length		Width	
		OPM	lbs.	kg	in.	mm	in.	mm	in.	mm	
10,000 OPM - .24 hp (179 W) – Non Vacuum											
MP4470-09	3 2/3" x 9"	10,000	2.28	1.03	3.94	100.01	6.88	174.63	3.53	89.69	

General:
 Air Inlet 1/4" NPT
 Min. Hose Size: 3/8"
 Tool performance rated at 90 psi (620 kPa) air pressure.
 Maximum SCFM: 16.3

Standard Equipment:
 Operating instructions & parts manual
 3/8" low profile, medium density premium urethane back-up pad
 Interchangeable grips (3): 70421900 – 2 1/2"
 70422000 – 2 3/4"
 70422100 – 3"

Optional Equipment:
 Vac Hose 100704300
 Spare Parts Kit 70494300
 Rotor & Vane Kit 70493600

Service Repair Tools

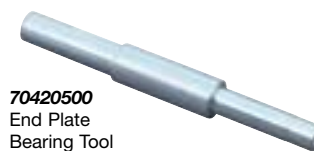
Not supplied with tool.



Lock Ring and Spindle Puller
 MP4400 & MP4403 Series **70420000**
 MP4470 Series **70505200**



70420100
 Service Clamp



70420500
 End Plate
 Bearing Tool



70505200†
 Sander Motor Removal

† Quotation required.



Backup Pads For Random Orbital Sanders

Low Profile Backup Pads for Random Orbital Sanders

A thinner, harder pad generally recommended for aggressive sanding and leveling of flat surfaces.

Diameter	Thickness	PSA Pads		Hook & Loop Pads	
		Non-Vacuum	Vacuum	Non-Vacuum	Vacuum
3-1/2"	3/8"	543025	543025	543026	543026
5"	3/8"	543017	543018	543019	543020
6"	3/8"	543021	543022	543023	543024



Tapered Edge Backup Pads for Random Orbital Sanders

A thicker, softer pad generally recommended for contour sanding and feather edging.

Diameter	Thickness	PSA Pads
		Non-Vacuum
5"	3/4"	543041
6"	3/4"	543042



Backup Pads for Orbital Sanders

PSA adhesion to tool eliminates the need for any tools when changing pads. Pad remains flat throughout full orbit at any speed.

Diameter	Thickness	PSA Pads		Hook & Loop Pads	
		Non-Vacuum	Vacuum	Non-Vacuum	Vacuum
3-2/3"x7"	3/8"	543011	543013	543012	543014†



† Quotation required.

All Pads Are Not Created Equal

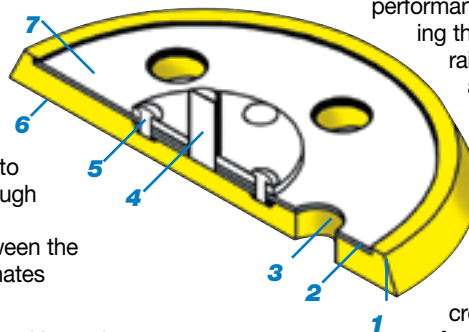
The backing pad is a very important interface between the tool and your work. A quality pad performs three main functions. First, it provides a flexible, yet flat surface to mount the abrasive to the tool. Second, a quality pad has a controlled weight and mass that balances with your tool and allows the tool to operate with minimum vibration. Third, a quality pad will be long lasting. The difference between quality pads and other pads can be seen in their components and construction.

Our quality pads have:

1 A specially designed, environmentally friendly, molded polyurethane foam, that dampens vibration to prevent your tool from bouncing, yet is flexible and tough enough to withstand the rigorous operation of dual-action random orbit sanders. A permanent bond between the polyurethane and other components of the pad eliminates separation problems.

2 A rugged thermoset fiberglass epoxy backing, that withstands the abuse of heat, flexing and impact, to keep the pad running flat and true for a long time. Aluminum backings bend from impact and lose their flatness, while heat and flexing cause molded plastic backings to warp, distorting the face of the pad. A pad that is not flat causes vibration which fatigues the user and prevents creating a professional finish.

3 Full 1/2" diameter vacuum holes that match standard paper and allow maximum performance of your tools' vacuum system.



4 A durable welded and plated stud assembly on random orbital pads. Welding assures a permanent alignment between the pad and the tool. Plating assures easy pad removal by preventing corrosion.

5 A stud assembly that is rigidly attached to the backing with four rivets on random orbital pads. Stud assemblies that are molded in place can loosen and strip, causing poor performance and difficulties when removing the pad from the tool. A large, flat, raised steel washer with a four rivet attachment forms an ideal distributor of stress. This assures perfect alignment with all tools, and allows the pad to remain in service for a long time.

6 An embossed vinyl facing or hook facing that is intimately molded with the polyurethane to create a permanent durable and flat surface. Embossed vinyl facings offer maximum adhesion with PSA style paper while operating the tool, yet allow quick and easy replacement. Quality hook facings also offer secure adhesion yet quick and easy removal.

7 Strict tolerance on weight, balance, roundness, and flatness. A pad that is not the correct weight, out of round, out of balance, or uneven causes vibrations which fatigue the user and prevents creating a professional finish. Strict tolerances assure you that each pad performs consistently for a long time.



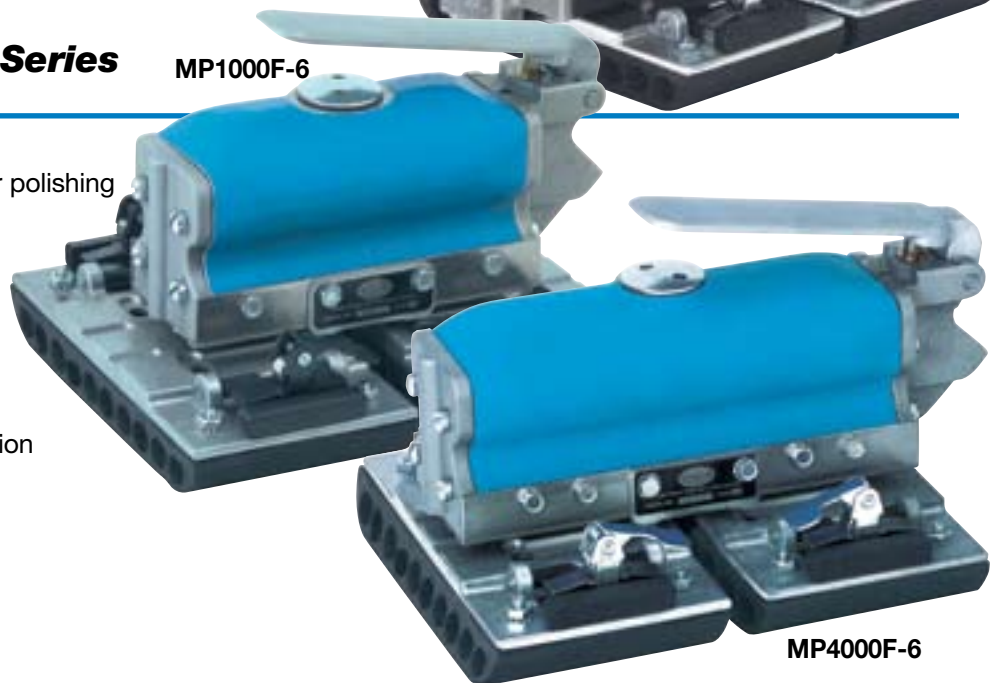
MP600 Series Sanders/Polishers

- 1200 SPM
- Rugged, powerful machine for rubbing, sanding and polishing large flat surfaces
- Pads driven by horizontally opposed pistons: Minimized operator fatigue
- More power: To handle all top coat rubbing, finishing operations faster and easier
- Precision machined slide assembly: Smoother more consistent finish
- Opposed straight line
- Wet or dry applications



MP1000 & MP4000 Series Sanders/Polishers

- Opposed straight line
- Wet or dry rubbing, sanding or polishing
- Double padding provides fast, superb finishes
- Pads powered by horizontally opposed inline pistons
- Large abrasive area: 70 square inches
- Compact and smooth running
- Beautifully finished with precision machined slide assembly



Model Number	Pad Type	Stroke (ins.)	Speed	Paper Capacity	Weight	
			SPM	Sheets	lbs.	kg

MP600 Series:

1/3 Sheet Capacity

MP600-5	Soft Tubular Rubber	1-1/2"	1200	4-8	30	13.61
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MP1000 & MP 4000 Series:

Tool without Shoes

MP1000F-1	None	7/16"	3700	4-8	7.5	3.40
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1/4 Sheet Capacity

MP1000F-7	Soft Mattress	7/16"	3700	4-8	7.5	3.40
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1/3 Sheet Capacity

MP1000F-6	Soft Tubular Rubber	7/16"	3700	4-8	7.5	3.40
MP4000F-6	Soft Tubular Rubber	3/4"	3100	4-8	9.0	4.08

General:

Air Inlet 1/8" NPT
Use 1/4" (6.4 mm) I.D. hose.
All tools performance rated @ 75psi (517 kPa) air pressure.

Equipment: Shoes & Pads

1/4 Sheet
Shoe Assembly: URM1041 (complete with sandpaper clamps)
Pad Assembly: URM1053 1/2" Felt
Pad Assembly: URM1108 3/4" Felt
Pad Assembly: URM1049-B Soft Mattress
Pad Assembly: URM1050-3 Soft Tubular Rubber

1/3 Sheet

Shoe Assembly: URM700 (complete with sandpaper clamps)
Pad Assembly: URM2119 3/8" Felt 3-2/3"x9"
Pad Assembly: URM2131 1/2" Felt 3-2/3"x9-3/4"
Pad Assembly: URM2166-2 Soft Tubular Rubber 3-2/3"x9"





Random Orbital Sander

- 9,500 OPM
- Precise feathering throttle produces a better finish
- Built in air regulator for maximum operator control
- Lightweight yet durable composite handle
- Removable handle for right or left hand operation



Heavy Duty High Speed Disc Sander

- Ideal for feather edging, light sanding and rust removal
- Designed to sand contours and hard to reach areas
- Variable speed regulator for on-the-job adjustment
- Ergonomic grip for operator comfort
- Lower dBA and lighter than competitive models



Model Number	Free Speed OPM	Disc Capacity	Length		Weight		Hose Size		Air Consumption CFM	Air Inlet NPT
			in.	mm	lbs.	kg	in.	mm		
Orbital/Random Orbital										
MP4425	9,500	6"	8	203	2.9	1.3	1/4	6.4	20	1/4"
Disk										
MP6151	14,000	5"	6 5/16	160	2.1	.95	3/8	10	22	1/4"

General:
 Air Inlet 1/4" NPT
 Use 3/8" (9.52 mm) I.D. hose MP4425
 Use 1/4" (6.4 mm) I.D. hose MP6151
 All tools performance rated @ 90psi (620 kPa) air pressure.

Standard Equipment:
 Owners Manual
 Parts Sheet
 MP4425: 543021 6" PSA pad

Optional Accessories:
 6" H&L pad for model MP4425 - No. 543023
 60538 Master Guard oil (4 oz.)
 60539 Master Guard oil (1 qt.)
 63593 8' Hose whip
 22034 Hose line oiler





MP8000, MP8001 & MP8002 Series Air Vacuums

- Moves water fast. Powerful motor delivers 116" water lift, 110 SCFM flow, and 60 gpm water pick-up capacity
- Low noise
- Lasts longer with little maintenance. No moving parts

- Increased power and efficiency from venturi system
- Overflow valve standard with all units
- Fine material filtering, down to 5 micron.
- Safe because it uses no electricity. Pick-up wet or dry and in other hazardous conditions*
- Cast aluminum epoxy coated heads for maximum corrosion resistance
- Recommended air supply hose size 1/2" I.D.



***CAUTION: VACUUM MUST BE GROUNDED AND CONDUCTIVE HOSE USED TO CONTROL STATIC ELECTRICITY.**

Model Number	Description	Pick-up Hose	Water Lift	Flow SCFM	Weight lbs.	C.F.M @ 90 PSIG	Air Inlet	Standard Equipment
MP8000	6 Gallon Wet/Dry Air Vac	1 1/2"	116"	110	19.3	5.5	3/8"	10' x 1 1/2" Vinyl hose #710040 Two Stage filter cartridge #718460
MP8001	20 Gallon Wet/Dry Air Vac	1 1/2"	116"	110	39.5	5.5	3/8"	10' x 1 1/2" vinyl hose #710040 Two Stage filter cartridge #718461 Extra Heavy Duty 3 Wheel Dolly
MP8002	55 Gallon Wet/Dry Air Vac (Tank not included)	1 1/2"	116"	110	18.5	5.5	3/8"	10' x 1 1/2" vinyl hose #710040 Two Stage filter cartridge #718462

Note: Foam Muffler 80098300 used on all vacuums to reduce noise.





No. 710006 floor tool with brush, non metallic



No. 710009 floor tool, metal with brush



No. 710011 floor tool, metal



No. 710012 squeegee tool, plastic



No. 710013 12" floor tool



No. 710014 11" crevice, plastic



No. 710015 18" bulk pickup nozzle, aluminum



No. 710016 6" Nozzle



No. 710017 overhead pipe cleaning tool (for pipes over 6" dia.)



No. 710018 overhead pipe cleaning tool (for pipes 4-6" dia.)



No. 710025 non metallic bulk pickup nozzle



No. 710026 aluminum dust brush



No. 710027 aluminum crevice tool



No. 710028 dust brush, plastic



No. 710030 single bend aluminum extension



No. 710031 one piece wand, double bend



No. 710032 aluminum extension, 54"



No. 710033 one piece double bend aluminum extension



No. 710034 Floor wand 2 piece 54" metal



No. 710040 10' x 1 1/2" vinyl hose

No. 710041 15' x 1 1/2" vinyl hose

No. 710043 25' x 1 1/2" vinyl hose



No. 710044 conductive static hose with cuff 10' x 1 1/2"

No. 710045 conductive static hose with cuff 20' x 1 1/2"



No. 800992 coupling for 20' conductive hose



No. 710051 crevice tool



Master Power air drills. Built to perform...designed to last.

DRILLS



Productivity

High Power-to-Weight Ratio – Assures operator comfort in handling Master Power drills.

Gear Trains – Master Power gears are carefully engineered and precision cut to transmit power and high speed in a small space.

All Ball and Roller Bearing Construction – Precision ball and roller bearings are used at vital wear points for reduced friction, minimized wear, smooth, quiet operation and extended tool life.

Rugged Construction –

The science of ergonomics, the interface between man and machine, is employed throughout Master Power designs to achieve maximum control and ease of handling.



MP1463-51

MP1454-38



Adaptability

Throttle Options – Two-stage Unitized Valve Throttle.

This 2-speed throttle allows the operator to locate and start the drill accurately at slow speed and prevent damage to the workpiece. Full speed is achieved with full pressure on the throttle. (Provided on most pistol grip models.)

Versatility – Master Power drills are easily converted to direct drive screwdrivers with slip chucks.

Handleability

Quiet operating – Another application of ergonomics to Master Power drills, is design which limits tool noise to within standards.

Two Exhaust Systems – Drill motors have either 360° rotatable or rear exhaust. Rear Exhaust models are designed to vent exhaust harmlessly and quietly away from the work area, while 360° rotatable side vented exhaust models allow the operator to deflect the exhaust to the most advantageous direction.



MP1457-51

Serviceability

Parts Interchangeability

– Many Master Power tools are constructed of standard unitized parts which allows for greater parts interchangeability and adaptability.



Pistol Grip Drills

Reversible & Non-Reversible



MP1454-38

- Nominal Motor Power
0.3 hp / 0.22 kW
- Ergonomic design with comfort grip
- Small size ideal for tight access areas; handle is almost 90° to the spindle
- Variable speed trigger
- Handle exhaust
- Only 1.5 lbs.



MP1454-38

MP1457-51

- Nominal Motor Power
1 hp / 0.745 kW
- Non-Reversible
- Double row ball bearings on output spindle for excellent alignment and true running bits
- Parts interchangeable with Master Power screwdrivers
- 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



MP1457-51

Model Number	Free Speed	Hp.	Chuck Capacity	Length		Weight		Spindle Offset		Air Consumption	Air Inlet
	RPM			in.	mm	lbs.	kg	in.	mm	CFM	
MP1454-38	3000	.30	1/4"	5.5	139.7	1.5	.68	-	-	12	1/4"
MP1457-51	2800	1.0	3/8"	7.5	191.0	1.9	.85	.84	20.6	25	1/4"

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



Pistol Grip Drills

Reversible & Non-Reversible



MP1463-51

- Nominal Motor Power
1 hp / 0.745 kW
- Reversible
- Ball bearings on output spindle for excellent alignment and true running bits
- Parts interchangeable with Master Power screwdrivers
- 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



MP1463-51

MP1458-55

- Nominal Motor Power
1.2 hp / 0.894 kW
- Non-reversible
- Ball bearings on output spindle for excellent alignment and true running bits
- Parts interchangeable with Master Power screwdrivers
- 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



MP1458-55

DRILLS

Model Number	Free Speed	Hp.	Chuck Capacity	Length		Weight		Spindle Offset		Air Inlet
	RPM			in.	mm	lbs.	kg	in.	mm	
MP1463-51	1800	1.0	3/8"	6.8	172.7	2.5	1.1	.84	20.6	1/4"
MP1458-55	1400	1.2	1/2"	9.0	228.6	2.1	.95	.84	20.6	1/4"

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





Master Power Fastening Tools... A Complete Line To Help Keep Production Schedules Tight.

Productivity

Powerful High Torque Output – Master Power Fastening tools are designed to provide slightly more torque (with throttle wide open) than will be required for the largest fastener on which the tool will be used. Variations of torque can be controlled by the addition of a clutch, use of less air pressure, or using a different RPM tool.

Integral Quick Change Chuck – Many Master Power pneumatic screwdrivers are equipped with quick change bit adapters, or 'slip bit adapters', to allow quick change and positive retention of 1/4" hex bits, bit and finder combinations, insert bit holders, socket adapters and many other accessories.

Reversibility

– Reverse action is standard on all Master Power screwdrivers and nutrunners. The reversibility feature enables the operator to remove rusted, cross-threaded or extra-tight fasteners to make assembly adjustments.

MP2453



Durability

Rugged Construction/Ergonomics –

The science of human engineering is integrity in the design of every Master Power Air Tool to provide maximum control and ease of handling for the operator. The weight and shape

of a particular tool are determined by the selection of the proper motor for the tool's duty rating. Many housings are shaped to fit hand contours while providing a lightweight, yet rugged and "functional jacket."

Other tools have rugged, functional handles which make the tools easily maneuverable and allow pressure to be applied in critical operations. Each housing is built to withstand abusive



MP2276





use and provide years of maintenance-free service.

Heavy-Duty Spiral Bevel Gears – Used in Master Power angle head tools are made of durable, extra-strong materials to provide smooth, efficient power transmission and long trouble-free service.

Planetary Gearing

– To provide maximum service life, Master Power's wide selection of planetary gearing is made from extra strong, specially heat treated materials. Gears are carefully engineered and precision cut to special form. They achieve maximum strength, carry high speed and transmit power in a small space. The entire planetary system is amply supported on precision bearings and can be externally lubricated.

Handleability

Push-To-Start – A standard with torque control tools and available with most clutch models; a real time and air savings feature.

Tool speed and torque requirements

The function of torque in a fastening tool is to provide tension in a bolt or screw . . . proper torque is a means of arriving at desired bolt or screw tension. On fastening tools, torque accuracy can be controlled by the kind of clutch used, or by motor RPM. With Master Power Air Tools, increased torque control can generally be obtained by (in order of increased control): a positive clutch, an adjustable clutch, a torque control clutch, and a precision clutch for the most control. Master Power Screwdrivers and Nutrunners are rated in terms of 'free speed' (the RPM of the drive spindle with no load at recommended air pressure and the throttle wide open). A calibrated torque wrench can be used to check torque on the job. Proper tool speed should be selected so that stall torque is greater than, or at least equal to, the torque required for



MP2264

FASTENING

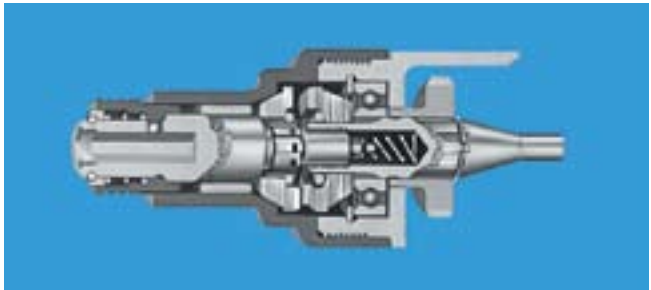


Screwdrivers & Nutrunners

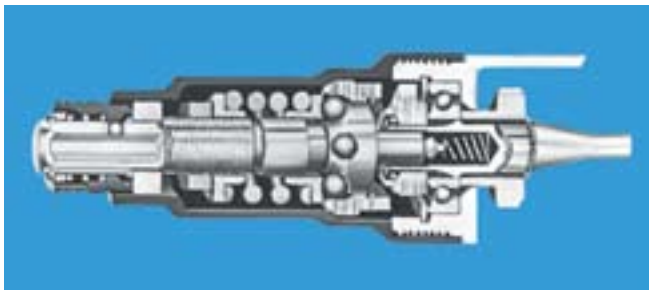
Requirements



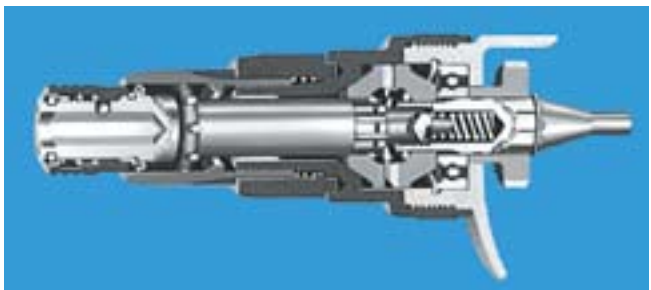
Direct drive or "Stall Drive" rotates the fastener until resistance overcomes motor power and motor stalls. Torque is set by adjusting air pressure.



Positive Clutch is a good general purpose clutch for soft draw applications in wood and aluminum. Torque output is determined by the force applied by the operator.



Adjustable clutch offers torque range control independent of operator pressure. When pre-set torque is reached, the clutch slips. Torque output is determined by adjusting the spring force.



Versa Clutch allows the operator to externally adjust the engagement of the clutch plates providing a full range of torque (5-140 In. Lbs. – .56-15.8 Nm) "if ever there was an all-purpose screwdriver for all trades, this is it." When torque is reached, the operator can push and re-engage the clutch jaws to obtain more torque.

FASTENING



MP2465

the largest screw or bolt and nut on which the tool will be used. While lower RPM tools provide higher torque, and their torque can be more closely controlled, they increase fastener run-down time. Therefore, if run-down time is an important cost factor, a compromise between accuracy and speed must be reached.

Clutch Types

Master Power fastening tools are available with Direct Drive or a choice of clutches: positive, adjustable, or Versa™, or PrecisionMaster™ (see page 35).

With a broad selection of clutches and motors, the Master Power line of tools covers a wide range of torque at several speeds. Coupled with rugged construction and integral drivers, these tools are suitable for an indefinite number of applications.

