



# 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.

## 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 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 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 com-



**MP2264**

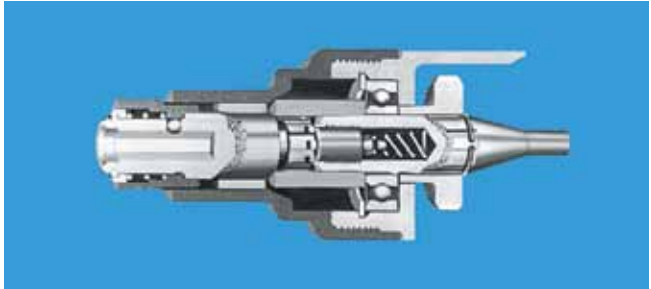
**FASTENING**



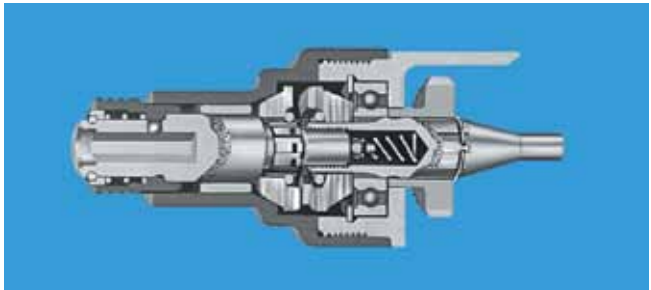


# Screwdrivers & Nutrunners

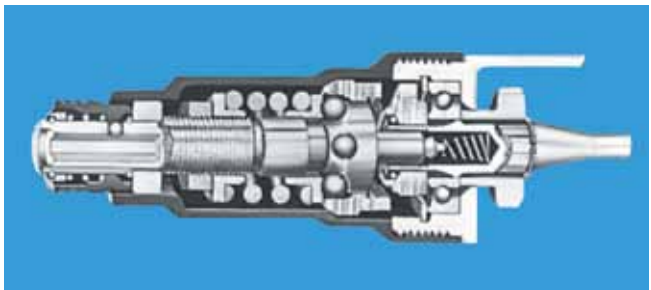
## Requirements



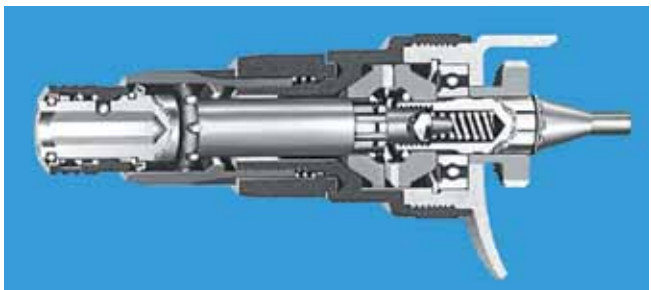
**Direct drive or "Stall Drive"** rotates the fastener until resistance overcomes motor power and motor stalls. Torque is set by adjusting air pressure.



**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.



promise between accuracy and speed must be reached.

**MP2465**

### Clutch Types

Master Power fastening tools are available with Direct Drive or a choice of clutches: positive, adjustable, or Versa™. 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.

FASTENING



**Size and Type of Screw, Nut, or Bolt** – When ordering Master Power screwdrivers and nutrunners, you must first know the size and type of fasteners to be used. This determines the proper bit or socket for the job. When ordering a screwdriver, the type of screw head and diameter of the screw should always be specified.

**Kind of Fastening Job** – The kind of clutch best suited to a particular job depends upon the resistance characteristics on the screw or bolt. The six most common types of assembly jobs are described in the table below. The table evaluates the performance of the clutches available for each kind of job.

<b>CLUTCH SELECTION GUIDE</b>					
<b>Typical Screwdriving Jobs</b>		<b>Excellent</b>	<b>Good</b>	<b>Fair</b>	<b>Poor</b>
<p><b>1. FREE RUNNING – SUDDEN STOP</b></p> <p>Turns easily until screw head or nut seats against a solid stop. Resistance builds up rapidly.</p>	Auto Shut Off	Versa Clutch Adjustable	Positive	Direct Drive	
<p><b>2. SOFT PULL-UP</b></p> <p>Turns easily until screw head or nut seats, then resistance builds up gradually through one or more turns as resilient material is compressed.</p>	Adjustable Auto Shut Off	Versa Clutch Positive	Direct Drive		
<p><b>3. SELF TAPPING IN THICK MATERIAL</b></p> <p>Increasingly heavy resistance through entire travel until screw head seats. Then either (A) gradual or (B) sudden final buildup of resistance.</p>	Versa Clutch Positive	Adjustable Direct Drive		Auto Shut Off	
<p><b>4. SHEET METAL SCREWS</b></p> <p>Resistance increases rapidly, eases slightly, then builds rapidly when screw head seats.</p>	Versa Clutch	Adjustable	Positive Auto Shut Off	Direct Drive	
<p><b>5. LOCKNUTS</b></p> <p>Starts with heavy resistance that lasts through entire travel until screw or nut seats. Then either (A) gradual or (B) sudden further buildup of resistance.</p>	Versa Clutch	Adjustable Direct Drive	Positive	Auto Shut Off	
<p><b>6. WOOD SCREWS</b></p> <p>Starts with small resistance that steadily increases through entire travel with additional resistance as screw head seats.</p>	Positive Versa Clutch Direct Drive			Adjustable Auto Shut Off	

**FASTENING**



# Screwdrivers

Direct Drive



## Direct Drive Screwdrivers

- Torque Range  
Up to 120 In. Lbs  
Up to 13 Nm
- Reversible
- 1/4" Hex Quick Change
- Balanced design offers easy handling and control to reduce operator fatigue
- High parts interchangeability
- Side to center 13/16" (20.64 mm)



MP2453



MP2454

FASTENING

Model Number	Free Speed RPM	Torque Rating				Wood Screws (in oak)	Thread Cutting Screws	Machine Screws	Sheet Metal Screws	Length		Weight		Air Consumption CFM
		Hard Slam		Soft Pull						in.	mm	lbs.	kg	
		In.Lbs.	Nm	In.Lbs.	Nm									
MP2452	2800	65	7.2	30	3.3	#8	#8	#10	#10	5.7	145	2.2	.99	22
MP2453	1800	75	8.3	55	6.1	#12	1/4"	1/4"	1/4"	5.7	145	2.2	.99	22
MP2454	1100	120	13.6	85	9.4	#14	1/4"	5/16"	5/16"	7.0	178	2.9	1.3	22

**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:**

Owners Manual  
Parts Sheet

**Optional Accessories:**

60538 Master Guard oil (4 oz.)  
60539 Master Guard oil (1 qt.)  
63593 8' Hose Whip 1/4" I.D.  
22034 Hose Line Oil





## Positive Clutch Screwdrivers

- Torque Range
  - Up to 140 In. Lbs
  - Up to 15 Nm
- Reversible
- 1/4" Hex Quick Change
- Balanced design offers easy handling and control to reduce operator fatigue
- High parts interchangeability
- Side to center 13/16" (20.64 mm)



FASTENING

Model Number	Free Speed RPM	Torque Rating				Wood Screws (in oak)	Thread Cutting Screws	Machine Screws	Sheet Metal Screws	Length		Weight		Air Consumption CFM
		Hard Slam In.Lbs.	Nm	Soft Pull In.Lbs.	Nm					in.	mm	lbs.	kg	
MP2464	2800	75	8.5	30	3.4	#8	—	#10	#10	6.8	172	2.5	1.1	22
MP2465	1800	100	11	45	5.1	#8	1/2"	3/4"	1/4"	6.8	172	2.5	1.1	22
MP2466	1100	140	15.9	85	9.6	#14	1/4"	5/16"	5/16"	8.1	205	3.1	1.4	22

**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:**  
 Owners Manual  
 Parts Sheet

**Optional Accessories:**  
 60538 Master Guard oil (4 oz.)  
 60539 Master Guard oil (1 qt.)  
 63593 8' Hose Whip 1/4" I.D.  
 22034 Hose Line Oil





# Screwdrivers

Adjustable Clutch



## Adjustable Clutch Screwdrivers

- Torque Range  
12 - 140 In. Lbs  
1.4 - 15 Nm
- Reversible
- 1/4" Hex Quick Change
- Balanced design offers easy handling and control to reduce operator fatigue
- High parts interchangeability
- Side to center 13/16" (20.64 mm)



MP2477



MP2474

FASTENING

Model Number	Free Speed RPM	Torque				Screw Size		Length		Weight		Air Consumption
		Hard Slam		Soft Pull		in.	mm	in.	mm	lbs.	kg	CFM
		In.Lbs.	Nm	In.Lbs.	Nm							
<b>Pistol Grip</b>												
MP2476	2800	20-75	2.3-8.5	12-30	1.4-3.4	#10	5	8.5	216	2.9	1.3	22
MP2477	1800	37-100	4.2-11	30-45	3.4-5.1	#10	6	7.8	197	2.6	1.2	22
MP2478	1100	20-140	2.3-15	17-85	1.9-9.6	1/4"	7	9.1	232	3.4	1.5	22
<b>Inline</b>												
MP2474	1800	37-100	4.2-11	30-45	3.4-5.1	#10	6	10.1	257	2.8	1.3	22

**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:**  
Suspension bail (lever style only)  
Clutch adjustment wrenches  
Owners Manual  
Parts Sheet  
Standard Clutch Spring  
9111500 MP2476  
8620800 MP2478, MP2474

**Optional Accessories:**  
60538 Master Guard oil (4 oz.)  
60539 Master Guard oil (1 qt.)  
63593 8' Hose Whip 1/4" I.D.  
22034 Hose Line Oiler





## Versa Clutch™ Screwdrivers

- Torque Range  
5 - 140 In. Lbs  
.6 - 15 Nm
- Reversible
- 1/4" Hex Quick Change
- Balanced design offers easy handling and control to reduce operator fatigue
- High parts interchangeability
- Side to center 13/16" (20.64 mm)



**FASTENING**

Model Number	Free Speed RPM	Torque				Wood Screws (in oak)	Thread Cutting Screws	Machine Screws	Sheet Metal Screws	Length		Weight		Air Consumption
		Hard Slam In.Lbs.	Nm	Soft Pull In.Lbs.	Nm					in.	mm	lbs.	kg	CFM

**Pistol Grip**

MP2436	1800	17-100	1.9-11	5-45	.6-5.1	#12	1/4"	#10	1/4"	7.7	197	2.6	1.20	22
MP2437	1100	5-140	.6-15	5-85	.6-10	#14	1/4"	1/4"	5/16"	9.9	231	3.3	1.50	22

**Inline**

MP2433	1800	17-100	1.9-11	5-45	.6-5.1	#12	1/4"	#10	1/4"	10.2	257	2.9	1.32	22
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**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:**

Owners Manual  
Parts Sheet  
Suspension Bail

**Optional Accessories:**

60538 Master Guard oil (4 oz.)  
60539 Master Guard oil (1 qt.)  
63593 8' Hose Whip 1/4" I.D.  
22034 Hose Line Oiler





# Impact Nutrunners

Reversible



## MP2260 Series

- High power to weight ratio
- Speed of a screwdriver, power of an impact
- Ideal for soft joint applications
- 4 built-in speed control regulator positions for varying torque output
- Smooth and efficient impact mechanism creates no torque reaction
- Compact clutch design
- 100% ball bearing design
- Reversible
- Detachable belt clip (MP2264, MP2265)



MP2264



MP2265



MP2266

FASTENING

Model Number	Drive	Torque Range		Free Speed	Blows Per Minute	Bolt Capacity		Weight		Air Consumption
	In.	Ft.Lbs.	Nm	RPM		in.	mm	lbs.	kg	CFM
<b>Pistol</b>										
MP2264	1/4 QC	10-100	13.5-135	10,000	1700	1/2"	10	2.2	1	20
MP2265	3/8 SQ*	10-100	13.5-135	10,000	1700	1/2"	10	2.2	1	20
<b>Inline</b>										
MP2266	1/4 QC	10-100	13.5-135	9,500	1700	1/2"	10	2.2	1	20

**General:**

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

**Standard Equipment:**

Owners Manual  
 Parts Sheet

**Optional Accessories:**

60538 Master Guard oil (4 oz.)  
 60539 Master Guard oil (1 qt.)  
 22034 Hose Line Oiler  
 70497000 Flow Regulator  
 88007045 Trigger Assembly Kit, MP2264, MP2265





## MP2271

- Reversible
- Full power forward and reverse
- Unique butterfly throttle
- 4 built-in speed control regulator positions for varying torque output



MP2271



MP2276

## MP2276

- Lightweight yet durable composite housing
- Ergonomic grip for improved operator comfort
- Built-in power regulator with four settings
- Reversible

FASTENING

Model Number	Drive In.	Torque Range		Free Speed RPM	Blows Per Minute	Bolt Capacity		Weight		Air Consumption CFM
		Ft.Lbs.	Nm			in.	mm	lbs.	kg	
<b>Inline</b>										
MP2271	3/8 SQ	40-50	54-68	10,500	900	3/8"	9.5	2.2	1.0	22
<b>Pistol</b>										
MP2276	3/8 SQ	70-90	95-122	7,500	1100	1/2"	12	3.1	1.4	35

**General:**

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

**Standard Equipment:**

Owners Manual  
 Parts Sheet

**Optional Accessories:**

60538 Master Guard oil (4 oz.)  
 60539 Master Guard oil (1 qt.)  
 22034 Hose Line Oiler  
 70497000 Flow Regulator  
 88007045 Trigger Assembly Kit, MP2264, MP2265

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must be equal or exceed speed of air tool @ 90 psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



It is the user's responsibility to refer and comply with ANSI B7.1

# Impact Wrenches

Reversible



## MP2290 Series

- Twin hammer anvil for reduced vibration
- High power to weight ratio
- Built in power regulator with four settings
- 100% ball bearing motor design
- Full power forward and reverse
- Smooth and efficient impact mechanism
- Compact clutch design
- Reversible



FASTENING



Model Number	Drive	Torque Range		Free Speed	Blows Per Minute	Bolt Capacity		Weight		Air Consumption
	In.	Ft.Lbs.	Nm	RPM		in.	mm	lbs.	kg	CFM
MP2294	1/2 (ring ret.)	37-370	50-502	6,500	1400	3/4"	20	5.3	2.4	40
MP2295	1/2 (pin ret.)	37-370	50-502	6,500	1400	3/4"	20	5.3	2.4	40

**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:**

Owners Manual  
 Parts Sheet

**Optional Accessories:**

60538 Master Guard oil (4 oz.)  
 60539 Master Guard oil (1 qt.)  
 63593 8' Hose whip  
 22034 Hose line oiler





