



1/2" COMPACT HOLE-SHOOTERS & 3/4" & 1-1/4" SUPER HOLE-SHOOTERS

1610-1

650 RPM
1/2" CAPACITY

1630-1

900 RPM
1/2" CAPACITY

1660-6

450 RPM
1/2" CAPACITY



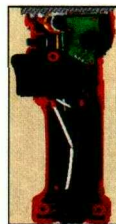
1663-20

115-450 RPM
1/2" CAPACITY
WITH POWER
ELECTRONICS



- Reversing Switch is Conveniently Located
- Dial Speed Control - Adjust Speed with Thumb Wheel

Tool will operate at selected speed until reset.



COMPACT AND SUPER HOLE-SHOOTER FEATURES

- Extra Long Switch Handle And Pipe Handle Afford Maximum Leverage For Drilling or Reaming Large Holes
- Pipe Handle For Added Control
- Glass Filled Nylon Spade And Switch Handles
- Moly Chrome Alloy Steel for High Torque Transmission with Minimum Wear

EXCLUSIVE 1/2" COMPACT HOLE SHOOTER FEATURES

- Electronic Speed Control Adds greater Precision to Heavy-Duty Large Drills

EXCLUSIVE 1663-20 FEATURES

- Current Feedback Reduces Speed Fluctuation When the Tool is Under Load.
- Soft Start Used to reduce initial start-up torque and reduces the stress on the gear train. Reaches full speed rapidly.
- Line Voltage Compensation This feature compensates for normal variations in input voltage levels and helps keep motor speed constant.
- Three-Wire Quik-Lok® Cord Set Quick detachment from tool for tangle-free carrying and storage. Instant field repair.

2404-1

250 RPM
1-1/4" CAPACITY
FURNISHED WITH NO. 3
INTERNAL MORSE
TAPER SOCKET



1854-1

350 RPM
3/4" CAPACITY



SUPER HOLE-SHOOTER FEATURES

- Heavy-Duty Aluminum Alloy Housing
- Powerful Milwaukee Built Motor Reversing
- Ruggedly Built, Reserve Power for Toughest Drilling Jobs
- Heat Treated Gears are Helical-Cut for Quiet Performance
- Drive Shafts Run Smoothly on Pre-Lubricated Ball Bearings

ACCESSORIES

QUICK CHANGE CHUCK

Converts your 3 jaw chuck into a quick change chuck. Allows rapid, keyless insertion and removal of 7/16" hex drive accessories.

48-03-0008 5/8" - 16 7/16" Quick Change drive shank

TYPE "E" GREASE FOR COMPACT HOLE-SHOOTERS

49-08-4122 1 lb. can

TYPE "J" GREASE FOR SUPER HOLE-SHOOTERS

49-08-4220 1 lb. can



SPECIFICATIONS

CATALOG NUMBER	CAPACITY IN STEEL (INCHES)	VOLTS	AMPS	NO LOAD RPM	GEAR TRAIN	SPINDLE DIAMETER AND THREAD	REPLACEMENT CHUCK CATALOG NO. CHUCK KEY INCLUDED	REPLACEMENT CHUCK KEY CATALOG NO.	LENGTH (INCHES)	NET WGT. LBS.	SHIP. WGT. LBS.
1610-1	1/2	120 AC ONLY	7	650	DOUBLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1630-1	1/2	120 AC ONLY	7	900	DOUBLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1660-6	1/2	120 AC-DC	7	450	TRIPLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1663-20	1/2	120 AC ONLY	7	115-450	TRIPLE	5/8" - 16	48-66-1381	48-66-3280	12-1/4	9-1/2	13
1854-1	3/4	120 AC DC	10	350	TRIPLE	#3 J.T.*	48-66-2085	48-66-3160	18-1/2	19	23
2404-1	1-1/4	120 AC DC	10	250	TRIPLE	#3 M.T.▲	-	-	18-3/4	23-3/4	27-3/4

STANDARD EQUIPMENT: FOR 1663-20 3-Wire Quik-Lok Cord No. 48-76-4008.

* Jacobs Taper Spindle. ▲ With No. 3 Internal Morse Taper Socket. ■ To adapt a 3/4" Capacity Chuck to 2404-1 or 2405-20 Drill with No. 3 Internal Morse Taper Socket, order Accessory Chuck Kit No. 49-22-1550. (Kit Consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100.)

ELECTROMAGNETIC DRILL PRESSES

MOTOR AND STAND COMBINATIONS
120 VOLT AC ONLY
12.5 AMPS MAXIMUM RATING



4204-1

(4203 AND 4253-1)
INCLUDES 4253-1 1/2" MOTOR,
4203 ADJUSTABLE POSITION,
VARIABLE SPEED BASE



- Solid State Electronic Switching
- Feedback Speed Control
- Computer Controlled Reverse
- Full Wave Holding Power
- Superior Cutting Tool Performance
- Line Lock-Out
Prevents tool from operating should voltage be restored to an interrupted line when switch is locked in the "on" position.
- Motor/Magnet Interlock
- Automatic Base/Chip De-Mag
- Soft-Start
- For Use On Any Flat Ferrous Material 1/2" And Thicker

4206-1

(4203 AND 4262-1)
INCLUDES 4262-1 3/4" MOTOR,
4203 ADJUSTABLE POSITION,
VARIABLE SPEED BASE



DRILL STAND DIMENSIONS

CATALOG NUMBER	HEIGHT	WIDTH	LENGTH	STAND ONLY WEIGHT (LBS.)
4202	15"	4-1/4"	11"	41
4203	17-14"	4-1/4"	11"	49

ACCESSORIES

STEEL HAWG® METAL CUTTERS
 49-57-0750 - 6000

See page 53.



SPECIFICATIONS

CAPACITY

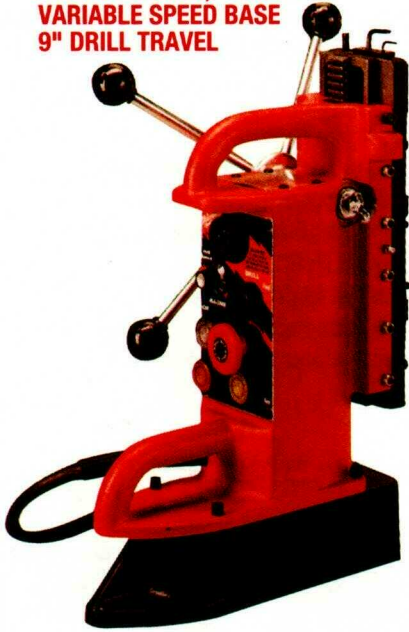
CATALOG NUMBER	VOLTS AC ONLY	AMPS	DRILL	TAP	§ DRILL POINT PRESSURE LBS.	REPLACEMENT CHUCK CATALOG NUMBER	REPLACEMENT CHUCK KEY CATALOG NUMBER	WEIGHT (LBS.)
4204-1	120	7.2	1/2"	5/8"-18	1650	48-66-1360	48-66-3280	57
4206-1	120	12.5	3/4"	1"-14	1670	48-66-2085	48-66-3160	70
4208-1	120	12.5	1-1/4"	1"-14	1600	45-34-0110	#3 Taper Socket	72
4210-1	120	12.5	3/4"	1"-14	1630	48-66-2085	48-66-3160	62

§ Drill point pressure on a 1" thick steel plate with the chuck mounted closest to the base. Values for numbers 4204-1, 4206-1, and 4208-1 are with the base adjusted to the rearward position.

ELECTROMAGNETIC DRILL MOTORS AND BASES

120 VOLT AC ONLY
12.5 AMPS MAXIMUM RATING

4202
BASE ONLY
FIXED POSITION,
VARIABLE SPEED BASE
9" DRILL TRAVEL



4203
BASE ONLY
ADJUSTABLE POSITION,
VARIABLE SPEED BASE
11" DRILL TRAVEL



- Solid State Electronic Switching
- Feedback Speed Control
- Computer Controlled Reverse
- Full Wave Holding Power
- Superior Cutting Tool Performance
- Line Lock-Out

Prevents tool from operating should voltage be restored to an interrupted line when switch is locked in the "on" position.

- Motor/Magnet Interlock
- Automatic Base/Chip De-Mag
- Soft-Start
- For Use On Any Flat Ferrous Material, 1/2" And Thicker

STEEL HAWG®
METAL CUTTERS
See page 53.



Select one of these 4 MILWAUKEE motors for your No. 4202 or No. 4203 Electromagnetic Drill Stand.



4253-1



4262-1



4292-1



4297-1

SPECIFICATIONS			CAPACITY				DRILL STAND ONLY								
DRILL MOTOR CATALOG NUMBER	VOLTS AC ONLY	AMPS	DRILL	▲ TAP	NO LOAD RPM	CHUCK OR TAPER	REPLACEMENT CHUCK CATALOG NUMBER	REPLACEMENT CHUCK KEY CATALOG NUMBER	§ DRILL POINT PRESSURE LBS.	MOTOR WEIGHT ONLY LBS.	CAT. NO.	HEIGHT	WIDTH	LENGTH	WGT. LBS.
4253-1 REV. ●	120	6.2	1/2"	5/8"-18†	600	Chuck	48-66-1360	48-66-3280	1610/1650	8	4202	15"	4-1/4"	11"	41
4262-1 REV.	120	11.5	3/4"	1"-14	350	Chuck	48-66-2085	48-66-3160	1630/1670	21					
4292-1 REV. ■	120	11.5	1-1/4"	1"-14	750/375	No. 3MT	45-34-0110	#3 TAPER SOCKET	1530/1600	23	4203	17-1/4"	4-1/4"	11"	49
4297-1 REV. ■	120	11.5	1-1/4"	1"-14	500/250	No. 3MT	45-34-0110		1530/1600	23					

REV. after Catalog Number indicates reversing motor.
 † Two speed drills. ● Drills except No. 4253-1 have dual mount gear case permitting reverse mounting of drill for close quarter work.
 ‡ 5/8"-11 or 1/2"-13 taps not recommended.
 ▲ NOTE: To adapt a 3/4" capacity chuck to 1-1/4" Drills with No. 3 internal Morse Taper Socket specify Chuck and Arbor Kit No. 49-22-1550, which consists of Chuck No. 48-66-2000 and Arbor No. 48-07-0100. Extend chuck capacity to full drill capacity by using 1/2" reduced Shank Twist Drills shown in the MILWAUKEE catalog.
 § Drill point pressure on a 1" thick steel plate with the chuck mounted closest to the base. Values listed are for the drill motor mounted on a No. 4202 base/No. 4203 base that is adjusted to the rearward position.