1/2" MAGNUM® HOLE-SHOOTERS

EXCLUSIVE MAGNUM® FEATURES:
- Powerful 5.5 AMP Motor
- Removable Brush Cartridge System
  Change brushes in less than one minute, only a screwdriver. Self-stopping brushes. Instant brush replacement by using spares stored in cartridge system
- Aluminum Gear Case And Diaphragm Supplies Greater Support For Shaft And Bearings
- Heavy-Duty Industrial Chucks
- Powerful MILWAUKEE Built Motors
- Trigger Speed Control Reversing Switches
- High Strength, Impact Resistant Handles
- 3-Wire Quik-Lok® Cord Sets
  Quick detachment from tool for tangle free carrying and storage. Instant field repair. 8' No.48-76-4008 standard equipment, No.48-76-4025 25' offered. 8' and 25' Quik-Lok with twist lock plug cord sets also available.

EXCLUSIVE 0235-20 FEATURE:
- Single Sleeve Keyless Chuck
- Fast and Easy Bit Changes
- Allows Operator Up to 70% More Torque on Chuck

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>CAPACITY IN STEEL</th>
<th>VOLTS AC ONLY</th>
<th>AMPS</th>
<th>NO LOAD RPM</th>
<th>GEAR TRAIN</th>
<th>SPINDLE DIAMETER AND THREAD</th>
<th>REPLACEMENT CHUCK CATALOG NO.</th>
<th>REPLACEMENT CHUCK KEY CATALOG NO.</th>
<th>LENGTH (IN.)</th>
<th>NET WT. (LBS.)</th>
<th>SHIP. WT. (LBS.)</th>
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STANDARD EQUIPMENT: FOR 0234-6 — 8' 3-Wire Quik-Lok Cord, Chuck Key, Rubber Key Holder and Side Handle. FOR 0236-6 — Variable Speed 1/2" Magnum Hole-Shooter No. 0234-1, 8' 3-Wire Quik-Lok Cord, Chuck Key, Rubber Key Holder, Side Handle and Steel Carrying Case No. 48-55-0711. FOR 0244-1 — 8' 3-Wire Quik-Lok Cord, Chuck Key, Rubber Key Holder and Side Handle. FOR 0235-20 — 8' 3-Wire Quik-Lok Cord, 1/2" Single Sleeve Keyless Chuck and Side Handle.
HEAVY-DUTY

1/2" HOLE-SHOOTERS

0238-1
0-850 RPM WITH 10' 2-WIRE QUIK-LOK CORD
DOUBLE INSULATED

0239-1
0-850 RPM WITH 10' 2-WIRE QUIK-LOK CORD AND POWER-TIGHT® KEYLESS CHUCK
DOUBLE INSULATED

EXCLUSIVE 0238-1 & 0239-1 FEATURE

2-Wire Quik-Lok® Cord® Sets
Quick detachment from tool for tangle free carrying and storage. Instant field repair.

Tools come with 2-wire, 10'-16 gauge rubber cord No. 48-76-5010. A 25' cord No. 48-76-5025 is also available.

* 2-Wire Quik-Lok Cord is not compatible with previous 3-Wire Quik-Lok configurations.

EXCLUSIVE 0239-1 FEATURES:

POWER-TIGHT® KEYLESS CHUCK

- Fastest, Easiest Way of Changing Bits
- Ratchet Mechanism Drives all Three Jaws to a Balanced, Powerful Grip
- Exclusive and Patented MILWAUKEE Chuck

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>CAPACITY IN STEEL</th>
<th>VOLTS AC ONLY</th>
<th>AMPS NO LOAD RPM</th>
<th>GEAR TRAIN</th>
<th>SPINDLE DIAMETER AND THREAD</th>
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<th>REPLACEMENT CHUCK KEY CATALOG NO.</th>
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STANDARD EQUIPMENT FOR: 0238-1 — 10' 2-Wire Quik-Lok Cord, Chuck Key, Rubber Flex Key Holder and Side Handle. 0239-1 — 10' 2-Wire Quik-Lok Cord, and Side Handle.
**1/2" "D" HANDLE HOLE-SHOUTERS & REVERSING RIGHT ANGLE DRILLS**

**1/2" "D" HANDLE HOLE-SHOUTERS**
- **1001-1**
  - VARIABLE SPEED 0-600 RPM
- **1007-1**
  - VARIABLE SPEED 0-600 RPM
- **1101-1**
  - SINGLE SPEED 500 RPM
- **1107-6**
  - VARIABLE SPEED 0-600 RPM
- **1250-1**
  - VARIABLE SPEED 0-1000 RPM

**1/2" REVERSING RIGHT ANGLE DRILL KITS**
- **3102-6**
  - PLUMBER'S KIT
- **3002-1**
  - ELECTRICIAN'S KIT
- **3107-6**
  - VARIABLE SPEED KIT

**3300-1**
- MAGNUM* RIGHT ANGLE DRILL KIT

**"D" HANDLE AND REVERSING RIGHT ANGLE DRILL COMMON FEATURES**
- 1/2" Trigger Speed Control Reversing
- 7 Amp MILWAUKEE Motors
  (For increased power and performance. All models except 3300-1.)
- All Ball And Roller Bearings
- Helical Cut, Heat Treated Gears
- Durable, Glass Reinforced Nylon Handles

**REVERSING RIGHT ANGLE DRILL FEATURES**
- Use With Up To 4-5/8" Selfeed Bits
  (Model numbers 3107-6, and 3102-6 only)
- Steel Hardened Shafts
- Head And Handle Swivel 360°—Can Be Locked Tight In Any Position
  (Allow 5-1/2" for right angle drill head and chuck.)

**QUICK CHANGE CHUCK FOR "D" HANDLE DRILLS**
- 48-03-0007 Shank — 1/2"-20
  - 7/16" Quick drive shaft.

**TYPE "A" GREASE FOR "D" HANDLE DRILLS**
- 49-08-0500
  - 1/2 Ib. can
- 49-08-0800
  - 1 Ib. can

**TYPE "E" GREASE FOR MAGNUM* DRILLS**
- 49-08-4122
  - 1 Ib. can

**ACCESSORIES**

**SPECIFICATIONS**

<table>
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<th>CAPACITY IN STEEL</th>
<th>VOLTS AC ONLY</th>
<th>AMPS</th>
<th>SPEED</th>
<th>USES QUIK-LOK® CORD NO</th>
<th>NO LOAD RPM</th>
<th>GEAR TRAIN</th>
<th>SPINDLE DIAMETER AND THREAD</th>
<th>REPLACEMENT CHUCK NO</th>
<th>REPLACEMENT CHUCK KEY NO</th>
<th>SIDE HANDLE NO</th>
<th>LENGTH (IN.)</th>
<th>NET WT. (LBS.)</th>
<th>SHIP. WT. (LBS.)</th>
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<td>6-3/4</td>
<td>10-1/2</td>
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</table>

**STANDARD EQUIPMENT: ALL "D" HANDLE DRILLS AND R.A.D.'s INCLUDE:**
- Chuck Key and Rubber Flex Key Holder
1/2" COMPACT HOLE-SHOOTERS & 3/4" & 1-1/4" SUPER HOLE-SHOOTERS

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 Quick-Lok* Cord Set
  Quick detachment from tool for tangle-free carrying and storage. Instant field repair.

SUPER HOLE-SHOOTER FEATURES
- Heavy-Duty Aluminum Alloy Housing
- Powerful Milwaukee Built Motor
- Reversing
- Ruggely 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.
- TYPE "E" GREASE FOR COMPACT HOLE-SHOOTERS
  48-08-4121 1 lb. can
- TYPE "J" GREASE FOR SUPER HOLE-SHOOTERS
  48-08-4221 1 lb. can

CATALOG NUMBER
- 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
- 2404-1 250 RPM 1-1/4" CAPACITY FURNISHED WITH NO. 3 INTERNAL MORSE TAPER SOCKET
- 1854-1 350 RPM 3/4" CAPACITY

SPECIFICATIONS
- CATALOG NUMBER | CAPACITY IN STEEL (INCHES) | VOLS | NO LOAD RPM | GEAR TRAIN | SPINDLE DIAMETER AND THREAD | REPLACEMENT CHUCK CATALOG NO. | REPLACEMENT CHUCK KEY CATALOG NO. | LENGTH (INCHES) | NET WT. | SHEET WGT. | LBS. | 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

STANDARD EQUIPMENT: FOR 1663-20 3-Wire Quick-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.)

34
1675-6
1200 AND 300 RPM CAN POWER UP TO 4-5/8" SELFEED BIT IN LOW SPEED. DRILL UP TO 1-3/8" SELFEED BIT IN HIGH SPEED

1676-6
1675-6, WITH STEEL CARRYING CASE

1670-1
900 RPM CAN POWER UP TO 2-9/16" SELFEED BIT

1678-20 AND 1678-21 FEATURES
- Extra 4-3/4" Reach
- Extended length for easier reach into high or low places.
- Current Feedback
- Maintains speed when the tool is under load.
- Soft Start
- Used to reduce initial start-up torque and reduce 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.
- Dial Speed Control—Adjust Speed With Thumb Wheel
- Tool will operate at selected speed until reset.

SPECIFICATIONS

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<th>CATALOG NUMBER</th>
<th>CAPACITY IN STEEL (INCHES)</th>
<th>VOLTS</th>
<th>AC ONLY</th>
<th>AMPS</th>
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<th>GEAR TRAIN</th>
<th>SPINDLE DIAMETER AND THREAD</th>
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<th>LENGTH (INCHES)</th>
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INDUSTRIAL DRILL CHUCKS

CHUCKS FOR REVERSING DRILLS (Chuck Key Included)

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<th>CHUCK CATALOG NUMBER</th>
<th>CAPACITY</th>
<th>THREAD SIZE</th>
<th>CHUCK KEY CATALOG NUMBER</th>
<th>KEY HOLDER CATALOG NUMBER</th>
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<td>48-66-0104</td>
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Note: Chuck removal wedges required (Set of 2)
For 1/4" drill – #1 Jacobs taper No. 49-91-0010
For 3/8" drill – #2 Jacobs taper No. 49-91-0020

KEYLESS CHUCKS

<table>
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POWER-TIGHT KEYLESS CHUCKS

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QUICK CHANGE CHUCKS

Converts your 3 jaw chuck into a quick change chuck. Allows rapid, keyless insertion and removal of 1/4" or 7/16" hex drive accessories.

<table>
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<tr>
<th>QUICK CHANGE CHUCKS CATALOG NUMBER</th>
<th>SHANK</th>
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<td>48-03-0005</td>
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<td>7/16&quot; Quick drive shank</td>
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SDS/CHUCK ADAPTER KIT*

48-66-1370
For use on rotary hammers shown on pages 63 and 64. Kit includes chuck adapter No. 48-66-1360, chuck screw No. 06-75-3150 and chuck key No. 48-66-3280.

* Parts in KIT may be ordered separately. Use part numbers listed below.

CHUCK ADAPTER
48-66-1360
Includes Chuck Key 48-66-3280

1/2" CHUCK
48-66-1360

CHUCK SCREW
06-75-3150
Left Hand Thread

CHUCK KEY
48-66-3280

BULK CHUCK KEYS AND KEY HOLDERS – NON CARDED

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>48-66-3201</td>
<td>25 Pack for 1/4&quot; chuck with 7/32&quot; pilot</td>
</tr>
<tr>
<td>48-66-3081</td>
<td>25 Pack for 3/8&quot; chuck with 1/4&quot; pilot</td>
</tr>
<tr>
<td>48-66-3241</td>
<td>25 Pack for 3/8&quot; chuck with 15/64&quot; pilot</td>
</tr>
<tr>
<td>48-66-3261</td>
<td>25 Pack for 3/8&quot; and 1/2&quot; chuck with 1/4&quot; pilot</td>
</tr>
<tr>
<td>48-66-4041</td>
<td>25 Pack chuck key holders</td>
</tr>
<tr>
<td>48-66-4081</td>
<td>25 Pack chuck key holders</td>
</tr>
</tbody>
</table>
ELECTROMAGNETIC DRILL PRESSES

4204-1
(4203 AND 4253-1)
INCLUDES 4253-1 1/2" MOTOR,
4203 ADJUSTABLE POSITION,
VARIABLE SPEED BASE

4206-1
(4203 AND 4262-1)
INCLUDES 4262-1 3/4" MOTOR,
4203 ADJUSTABLE POSITION,
VARIABLE SPEED BASE

DRILL STAND DIMENSIONS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>LENGTH</th>
<th>STAND ONLY WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4202</td>
<td>15&quot;</td>
<td>4-1/4&quot;</td>
<td>11&quot;</td>
<td>41</td>
</tr>
<tr>
<td>4203</td>
<td>17-14&quot;</td>
<td>4-1/4&quot;</td>
<td>11&quot;</td>
<td>49</td>
</tr>
</tbody>
</table>

ACCESSORIES

STEEL HAWG® METAL CUTTERS
49-57-0750 - 6000
See page 53.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>CATALOG NUMBER</th>
<th>VOLTS AC ONLY</th>
<th>AMPS</th>
<th>DRILL</th>
<th>TAP</th>
<th>$ DRILL POINT PRESSURE LBS</th>
<th>REPLACEMENT CHUCK CATALOG NUMBER</th>
<th>REPLACEMENT CHUCK KEY CATALOG NUMBER</th>
<th>WEIGHT (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4204-1</td>
<td>120</td>
<td>7.2</td>
<td>1/2&quot;</td>
<td>5/8&quot;-18</td>
<td>1650</td>
<td>48-66-1360</td>
<td>#3 Taper Socket</td>
<td>57</td>
</tr>
<tr>
<td>4205-1</td>
<td>120</td>
<td>12.5</td>
<td>3/4&quot;</td>
<td>1&quot;-14</td>
<td>1670</td>
<td>48-66-2085</td>
<td></td>
<td>57</td>
</tr>
<tr>
<td>4206-1</td>
<td>120</td>
<td>12.5</td>
<td>1-1/4&quot;</td>
<td>1&quot;-14</td>
<td>1690</td>
<td>45-34-0110</td>
<td>#3 Taper Socket</td>
<td>70</td>
</tr>
<tr>
<td>4210-1</td>
<td>120</td>
<td>12.5</td>
<td>3/4&quot;</td>
<td>1&quot;-14</td>
<td>1630</td>
<td>48-66-2085</td>
<td></td>
<td>72</td>
</tr>
</tbody>
</table>

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

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

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

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>DRILL MOTOR NUMBER</th>
<th>VOLTS AC ONLY</th>
<th>AMPS</th>
<th>DRILL TAP</th>
<th>NO LOAD RPM</th>
<th>CHUCK OR TAPER</th>
<th>REPLACEMENT CHUCK NUMBER</th>
<th>REPLACEMENT CHUCK KEY NUMBER</th>
<th>DRILL POINT PRESSURE</th>
<th>WEIGHT ONLY</th>
<th>CAT. NO.</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>LENGTH</th>
<th>WEIGHT LBS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4253-1 REV. •</td>
<td>120</td>
<td>6.2</td>
<td>1/2&quot; 5/8&quot;</td>
<td>600</td>
<td>Chuck</td>
<td>48-66-1360</td>
<td>48-66-3280</td>
<td>1610/1650</td>
<td>8</td>
<td>4202</td>
<td>15&quot;</td>
<td>4-1/4&quot;</td>
<td>11&quot;</td>
<td>41</td>
</tr>
<tr>
<td>4262-1 REV.</td>
<td>120</td>
<td>11.5</td>
<td>3/4&quot; 1-1/4&quot;</td>
<td>350</td>
<td>Chuck</td>
<td>48-66-2085</td>
<td>48-66-3160</td>
<td>1630/1670</td>
<td>21</td>
<td>4203</td>
<td>17-1/4&quot;</td>
<td>4-1/4&quot;</td>
<td>11&quot;</td>
<td>49</td>
</tr>
<tr>
<td>4292-1 REV.</td>
<td>120</td>
<td>11.5</td>
<td>1-1/4&quot; 1-1/4&quot;</td>
<td>750/375</td>
<td>No. 3MT</td>
<td>45-34-0110</td>
<td>#3 TAPER SOCKET</td>
<td>1530/1600</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>4297-1 REV.</td>
<td>120</td>
<td>11.5</td>
<td>1-1/4&quot; 1-1/4&quot;</td>
<td>500/250</td>
<td>No. 3MT</td>
<td>45-34-0110</td>
<td>#3 TAPER SOCKET</td>
<td>1530/1600</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

**NOTE:** 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.

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- 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

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4253-1
4262-1
4292-1
4297-1

**STEEL HAWG® METAL CUTTERS** See page 53.

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- 120 VOLT AC ONLY
- 12.5 AMPS MAXIMUM RATING