Always use Chipping Hammers with in-line oilers.

FIELD OPERATION

Before:
1. For 650 Series, tighten handle to 200 ft. lbs.
2. For 450 Series, ensure all nuts and bolts on handle are tight.
3. Flush Air Tool oil or 10W grade equivalent into air inlet before connecting air hose. Install in-line oiler.
4. Check retainer and spring for wear or cracks. Replace retainer if worn.
5. Clean any water and/or dirt from air hose before connecting it to the tool.

During:
1. For your safety and that of others, keep tool against work at all times!
2. When moving from one work area to another, shut off tool.
3. Never run the tool without a steel bit or chisel in it.
4. Do not use tool as a wedge or prying instrument.
5. When changing tool bit always shut air supply off and disconnect hose.
6. Always use an in-line oiler when operating tool.

After:
1. Flush tool with cleaning solvent, then refill with Air Tool oil or 10W grade equivalent.
2. Do not leave tool in water or in dirt.
3. For 650 Series, tighten handle to 200 ft. lbs.
4. For 450 Series, ensure all nuts and bolts on handle are tight.
5. Store the tool well oiled.

REMEMBER: PREVENTIVE MAINTENANCE WILL ASSURE MAXIMUM PERFORMANCE FROM ALL OF YOUR APT TOOLS.

TROUBLE SHOOTING GUIDE

If tool runs erratically:
1. Insure handle is on tight. Retighten to 200 ft. lbs. torque (650 Series Chipping Hammers).
2. Check all nuts and bolts to ensure they are tight (450 Series Chipping Hammers).
3. Flush cleaning solvent through the tool and flush Air Tool oil or 10W grade equivalent into air inlet.
4. Check for wear in front bushing (nozzle). Check for wear in the shank of the steel chisel. A worn steel shank or a worn front bushing means loss of air seal and less than optimum tool performance.

If tool has a throttle valve air leak:
Remove plug and inspect “o” rings or sealing surfaces for damage.

If tool is not hitting hard enough:
1. Check for wear in front bushing (nozzle).
2. Insure handle is on tight. Retighten to 200 ft. lbs. torque.
3. Check all nuts and bolts to ensure that they are tight (450 Series Chipping Hammers).
4. If front bushing is not worn and handle is on tight, then check for wear on internal parts, if worn, they should be replaced. Check clearances between piston and cylinder very carefully.
5. Check tool internally for rust and/or dirt.

If you cannot shut the tool off:
1. Immediately turn off air source, then disconnect air supply.
2. Check the throttle valve for damaged or missing o’rings.
CHIPPING HAMMERS
450/470 SERIES

APT Chipping Hammers are used for scaling, chiseling, removing concrete build-up from the inside of cement mixers, light concrete demolition and cement finishing, form stripping, etc.

FEATURES
- Flapper valve design allows dirt to pass without stopping the tool
- Deep case-hardened alloy steel cylinders
- Drop-forged handles
- Replaceable bushing
- Adjustable exhaust deflector
- Choice of optional retainers including the APT latch-type
- Price includes oval retainer and locking spring

MODEL 450 SERIES FEATURES:
- 4-bolt style handle for ease of maintenance
- Available in 2", 3", and 4" strokes
- Handle design has a vibration dampening feature

MODEL 470 SERIES FEATURES:
- Same features as 450 Series; with tapered nose

ORDERING INFORMATION:
Standard Accessories:
7022 oval collar retainer
1941 retainer spring
759 reducing bushing 7/8"-24 to 3/8" NPT female
18210 oval collar, tapered

Optional accessories at extra charge:
3383 latch-type retainer (no springs needed)
3026 quick-change retainer
5550 ball-type retainer
6144 round collar retainer
3388 7/8"-24 to 1/2" hose barb swivel
2698 7/8"-24 to 3/8" NPT swivel
9109 10 ft., 1/2" dia. whip hose with universal coupler and 7/8"-24 to 1/2" hose barb swivel

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Chuck Bushing</th>
<th>Bore</th>
<th>Stroke</th>
<th>BPM</th>
<th>CFM @ 90 PSI inlet pressure</th>
<th>Weight lbs. without retainer</th>
<th>Length inches without retainer</th>
<th>Air Inlet NPT</th>
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<tr>
<td>450 SERIES STRAIGHT-NOSE CHIPPING HAMMERS</td>
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CHIPPING HAMMERS
650 SERIES

APT Chipping Hammers are used for scaling, chiseling, removing concrete build-up from the inside of cement mixers, light concrete demolition and cement finishing, form stripping, etc.

FEATURES
- Flapper valve design allows dirt to pass without stopping the tool
- Deep case-hardened alloy steel cylinders
- Drop-forged handles
- Replaceable bushing
- Adjustable exhaust deflector
- Choice of optional retainers including the APT latch-type
- Price includes oval retainer and locking spring

MODEL 650 SERIES FEATURES:
- Traditional pistol grip handle
- Available in 2", 3", and 4" strokes

ORDERING INFORMATION:
Standard Accessories:
7022 oval collar retainer
1941 retainer spring
759 reducing bushing 7/8"-24 to 3/8" NPT female

Optional accessories at extra charge:
3383 latch-type retainer (no springs needed)
3026 quick-change retainer
5550 ball-type retainer
6144 round collar retainer
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AMERICAN PNEUMATIC TOOL

APT MODEL
650 SERIES
CHIPPING HAMMER

SEE OPTIONAL RETAINERS

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<th>STROKE</th>
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272 (ROUND)
273 (HEX) BUSHING

Cylinder Assy

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* FOR REFERENCE ONLY
(THES PARTS NOT SOLD SEPARATELY)
APT Chipping Hammers are used for scaling, chiseling, removing concrete build-up in mixers, light concrete demolition, cement finishing, form stripping, etc.

Available in 3" and 4" strokes.

- Patent Pending Ball Valve Design - more forgiving of dirt and debris, easier to maintain, made from corrosion resistant material
- Ball-type throttle valve – less complicated, makes teasing the throttle easier
- New ½” x ¼” NPT threaded air inlet bushing for a more secure fit. A screen has also been added to prevent dirt and debris from entering the tool
- The new 2-bolt design makes the tool easier to maintain in the field
- Drop-forged handle and collar for a stronger, longer lasting tool
- Adjustable exhaust deflector
- Replaceable bushing

Price includes oval retainer and locking spring, 6-foot whip hose, air fitting and swivel.

### APT 260 SERIES 2-BOLT, D-HANDLE CHIPPING HAMMER

<table>
<thead>
<tr>
<th>Length</th>
<th>Chuck</th>
<th>Stroke size, each</th>
<th>Item no.</th>
<th>Weight, w/o retainer</th>
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<td>18667-04</td>
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<td>253 – 3</td>
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<td>15-9/16</td>
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<td>264 – 4</td>
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<td>264 – 4</td>
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Talk to customer service about additional retainer options to turn your tool into a universal collared rental machine!
2 BOLT CHIPPING HAMMER

<table>
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<tr>
<th>MODEL</th>
<th>CYLINDER ASSEMBLY</th>
<th>PISTON</th>
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<tbody>
<tr>
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<td>M263, 3&quot; STROKE, HEX BUSHING</td>
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<td>M264, 4&quot; STROKE, ROUND BUSHING</td>
<td>18674</td>
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<tr>
<td>M264, 4&quot; STROKE, HEX BUSHING</td>
<td>18677</td>
<td>703</td>
</tr>
</tbody>
</table>

For assistance in any sales, technical, maintenance or repair questions, please call APT @ Phone 800 532 7402 or 562 204 1555
Fax 800 715 6502 or 562 204 1773
e-mail info@apt-tools.com
OPTIONAL RETAINERS
(FOR APT STRAIGHT-NOSE CHIPPING HAMMERS)

DO NOT USE 3383 Latch-type Retainer with .580 hex-shank chipping hammer steel. The latch does not properly catch the round collar, thereby allowing the steel to shoot out of the chipping hammer. This retainer (3383 Assy) should only be used with .680 round collar or round shank steel only.

OPTIONAL FITTINGS

OPTIONAL RETAINER
(FOR APT TAPERED-NOSE CHIPPING HAMMERS)