

### Optional Accessories for the P-DP70 Drill Press:

#### Micro Chucks –



An accurate, economical adapter chuck, used for 60 to 80 wire gauge drills. The A-MC2 can be held in any 1/8" collet.



for use with drills #70-80



Holds 1/16" shank friction grip burs and has a 3/32" shank.

#### Micro Chucks must be used at lower speeds:

A-MC2 10,000 RPM maximum speed

A-M50 10,000 RPM maximum speed

A-M52 20,000 RPM maximum speed

**Drills - visit [www.foredom.net](http://www.foredom.net) to learn more about our broad selection of diamond, steel and cobalt drills.**

#### Collet Adapters –

This is not a collet. It is a 'step down' adapter that fits inside a collet and allows the use of smaller shank size accessories without having to actually change the collet. Use in H.MH-170 micromotor handpiece (also for flexible shaft collet style handpieces):

**HPL4-3233** 3/32" to 1/16"

**HPL4-3234** 1/8" to 1/16"

**HPL4-3235** 3.0mm to 3/32"

**HPL4-3236** 1/8" to 3/32"

**HPL4-3237** 3.0mm to 1.6mm

#### For More Information:

For more information on Foredom® equipment and accessories, contact your local dealer. When no local dealer is available, visit on line: [www.foredom.net](http://www.foredom.net)

#### LIMITED WARRANTY

Foredom Electric Company warrants the P-DP70 Drill Press to be free of defects in material or workmanship for a period of one year after purchase. During the warranty period, the defective product will be repaired or replaced without charge or, at our option, the purchase price will be refunded. This warranty does not cover damage caused in transit or by accident, misuse, or ordinary wear.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE YEAR FROM DATE OF PURCHASE, AND WE WILL NOT BE LIABLE OR RESPONSIBLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES.

Repair or replacement will be made at our option if the product is returned post-paid to:

Foredom Electric Company  
16 Stony Hill Road  
Bethel, CT USA 06801

All warranty repairs must be done at the factory at the above address. We will not pay any shipping or transportation charges. This warranty only covers the original purchaser of the product. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

# FOREDOM®

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[www.foredom.net](http://www.foredom.net)

# FOREDOM® P-DP70

## Owner's Manual

**For Your Own Safety:  
Always wear eye protection.  
Read this Owner's Manual  
before operating your  
Foredom tool.**



Micromotor not included

## General Information

Freedom's P-DP70 Drill Press is designed for use our High Speed, Rotary Micromotor Handpiece– H.MH-170. It securely holds the handpiece in a vertical position for drilling straight, accurate holes to specified depths. It is also ideal for modeling, spot-facing, countersinking and reaming in wood, wax, plastic, metal, glass and gemstone.

## Follow these Important

### Safety Instructions:

**Always** wear safety glasses to protect eyes from flying debris and chips.

**Never** continue to use a drill or accessory which appears to be wobbling, out of round, vibrating or not running true.

**Always** use drills and accessories rated for 38,000 RPM or higher.

**Never** wear loose clothing, dangling jewelry or other apparel which may become caught in the equipment.

**Always** keep hands, fingers and hair well away from the drill or other accessories.

**Always** bolt down the Drill Press for extra stability.

## Set-Up and Operation

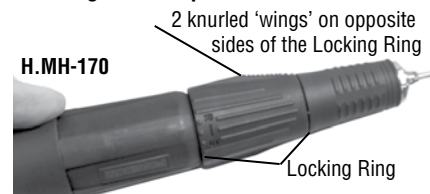
As you unpack the Drill Press, make sure that you have the complete assembly (see photo). Loosen the Adjusting Knob and move the Head Assembly up the Post to the desired height. Tighten the Knob securely. Be sure that the head, table and base are aligned and centered.

**Freedom recommends bolting the drill press to the workbench or platform for extra stability.** Insert suitable length bolts through the four holes provided in the Base Plate. Fasten to the workbench or to a piece of plywood approximately 2' x 2' x 3/4".

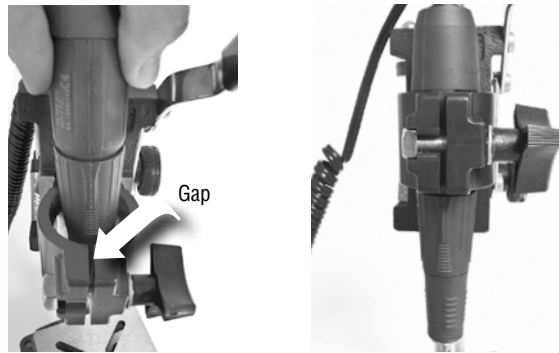
### Arm Adjustment

Test the downstroke action of the handle. This has been preadjusted at the factory, but may have rattled loose during shipping. It should feel smooth and free. If it feels too loose, adjust the Shoulder Screws in the handle arm assembly. These screws should be tightened snugly.

### Inserting the Handpiece



The Locking Ring on the handpiece turns to Release or Secure accessories in the collet. The 'wings' on the Locking Ring



should align vertically with the gap at the front and back of the Handpiece Holder when inserting the H.MH-170 Micromotor handpiece. Loosen the mounting knob on the holder and gently slide the handpiece into the handpiece holder all the way until it is snug. The handpiece should fit so far down that the Locking Ring is below the Handpiece Holder and can twist to open and close positions for changing out accessories. Re-tighten the knob until the handpiece is firmly held in place. Take care not to tighten and damage the handpiece. You can now open the collet and insert the bur or drill bit and close the collet to begin work.

### Table Adjustment

Determine the desired table height for the thickness of the material to be worked. When using a drill, make sure that the drill tip is aligned with the center of the Table Drill Hole by moving the drill gently through the hole while the motor is still off.

### Removing Adjustable Table

If you need to remove the adjustable table, the Head Assembly must be removed first. Loosen the Head Adjusting Knob and slide the Head Assembly up and off the Post.

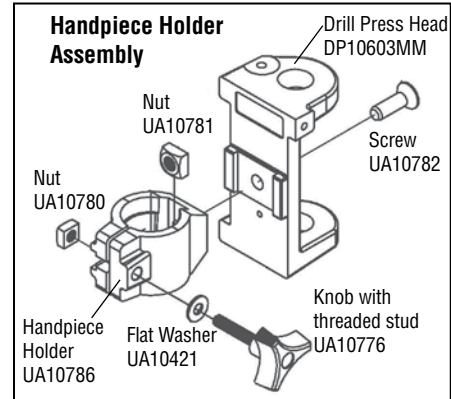
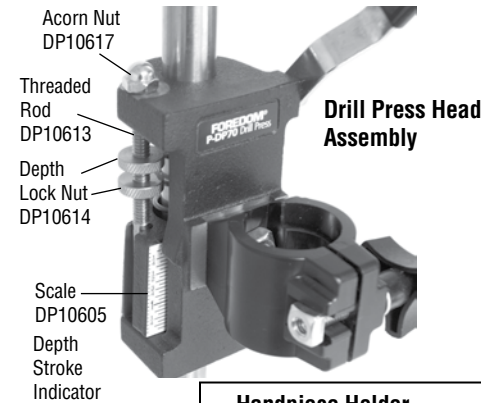
**Note:** Make sure that you have a firm grip on the Head Assembly before loosening the knob. It could be damaged if allowed to drop. Place the head on the work surface, handle side up. Repeat procedure with the Adjustable Table. Replace the Handpiece Head Assembly onto the post and tighten the Adjusting Knob, aligning head and base plate.

### Drill Stroke Adjustment

Adjust the drill stroke depth from 0–1-1/4" with Lock Nuts. Move the Depth Stroke Indicator to the desired measurement on the Scale by pressing down on the handle. Hold at desired setting and move Lock Nuts until the depth indicator is stopped.

### Securing the Workpiece

Slots are provided in the Adjustable Table and Base Plate for use with clamps, jigs, and other holding devices. Make sure the workpiece is securely fastened before beginning work.



### Drilling

For drilling, generally high-speed steel, cobalt and diamond drills are most often used. Whatever accessory you use, **let the speed of the tool do the work.** Too much feeding pressure can damage or break your drill, and may cause loss of control. Twist drills are often used for drilling holes in metals, woods, and plastics. On work items with rounded surfaces such as rods, it is a good idea to centerpunch a starting hole to keep the tip of the drill from "walking" or wandering from the desired starting point.

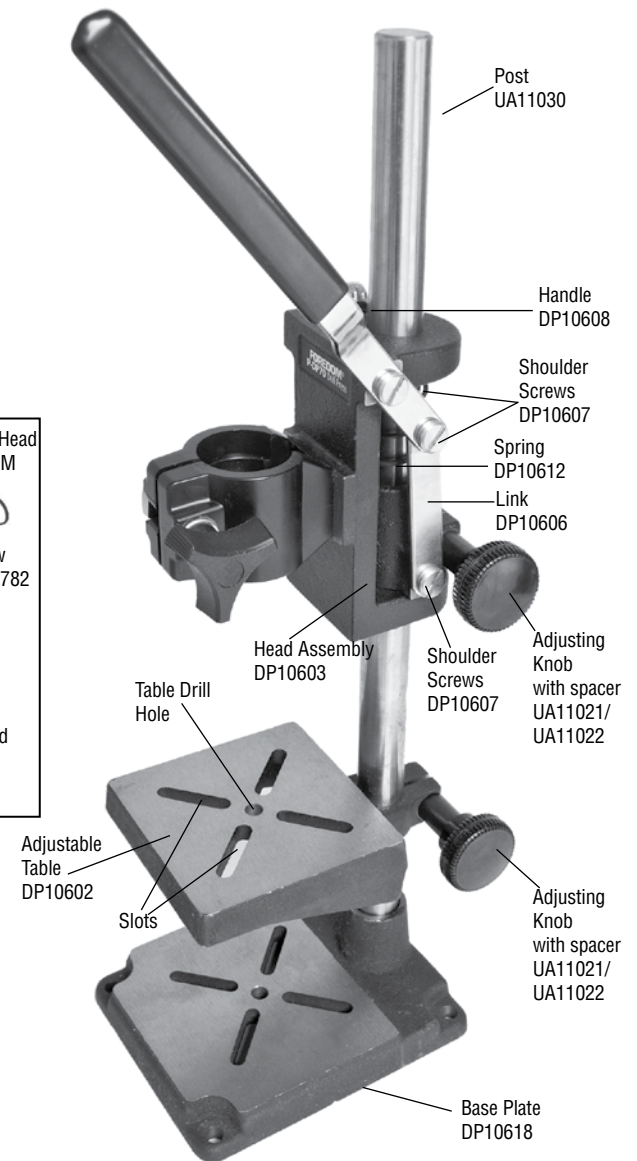
**When drilling, lift the drill up and down frequently to clear away dust and chips.**

### Speed

Always use drills and accessories rated for 38,000 RPM or higher. Generally, work speed is determined by experience and varies with the type of material being drilled, the type of drill or accessory, the thickness of the material, and the type of work being done. Follow recommendations of the drill or accessory manufacturer. Usually, higher speeds are used on soft materials and lower speeds on harder materials. It is always a good idea to experiment on a scrap piece of material before beginning the final work operation.

### Coolants

Coolants are sometimes needed to help keep the accessory



cool and to keep the workpiece clean of debris. Which type to use is determined by the material and the accessory and will vary with operator preference. Wetting agents with rust inhibitors, waxes, oils and water are often used when drilling very hard materials such as metals, gems and stones. **Coolant must not be allowed to enter the handpiece.**

### Lubrication

All unpainted surfaces are sprayed with a rust inhibitor when shipped. Be sure to clean away all debris after use. Respray with rust inhibitor when necessary, especially during storage. The Spring and two Shoulder Screws should be lubricated periodically with a light coat of oil.