

Underwood Portable Milling Machine

Figure 150

ESTABLISHED 1870

H. B. UNDERWOOD CORPORATION

1015-1025 HAMILTON ST., PHILADELPHIA 23, PA.

Manufacturers of Portable Machine Tools

SADDLE TRAVEL ON BED - 71"
 RAM FEED IN SADDLE - 25"
 DIAMETER OF SPINDLE - 5"
 SPINDLE FEED BY HAND - 12"
 WHEN SPINDLE IS ALL THE WAY UP
 TOTAL OVERALL 40 1/4" AND BOTTOM
 OF SPINDLE IS 2 1/4" ABOVE BOTTOM OF BED.
 TOTAL WIDTH OF RAM & PARTS - 26 3/4"
 ONE SIDE EXTENDS 12 1/2" FROM CENTER
 OTHER SIDE EXTENDS 14 1/4" FROM CENTER.
 WHEN RAM IS ALL THE WAY BACK
 8 3/4" FROM BED TO CENTER OF SPINDLE.
 WHEN RAM IS ALL THE WAY BACK
 19 3/4" FROM FACE OF BED TO
 EXTREME EXTENDING PART.
 TOTAL LENGTH OF RAM & PARTS - 72"

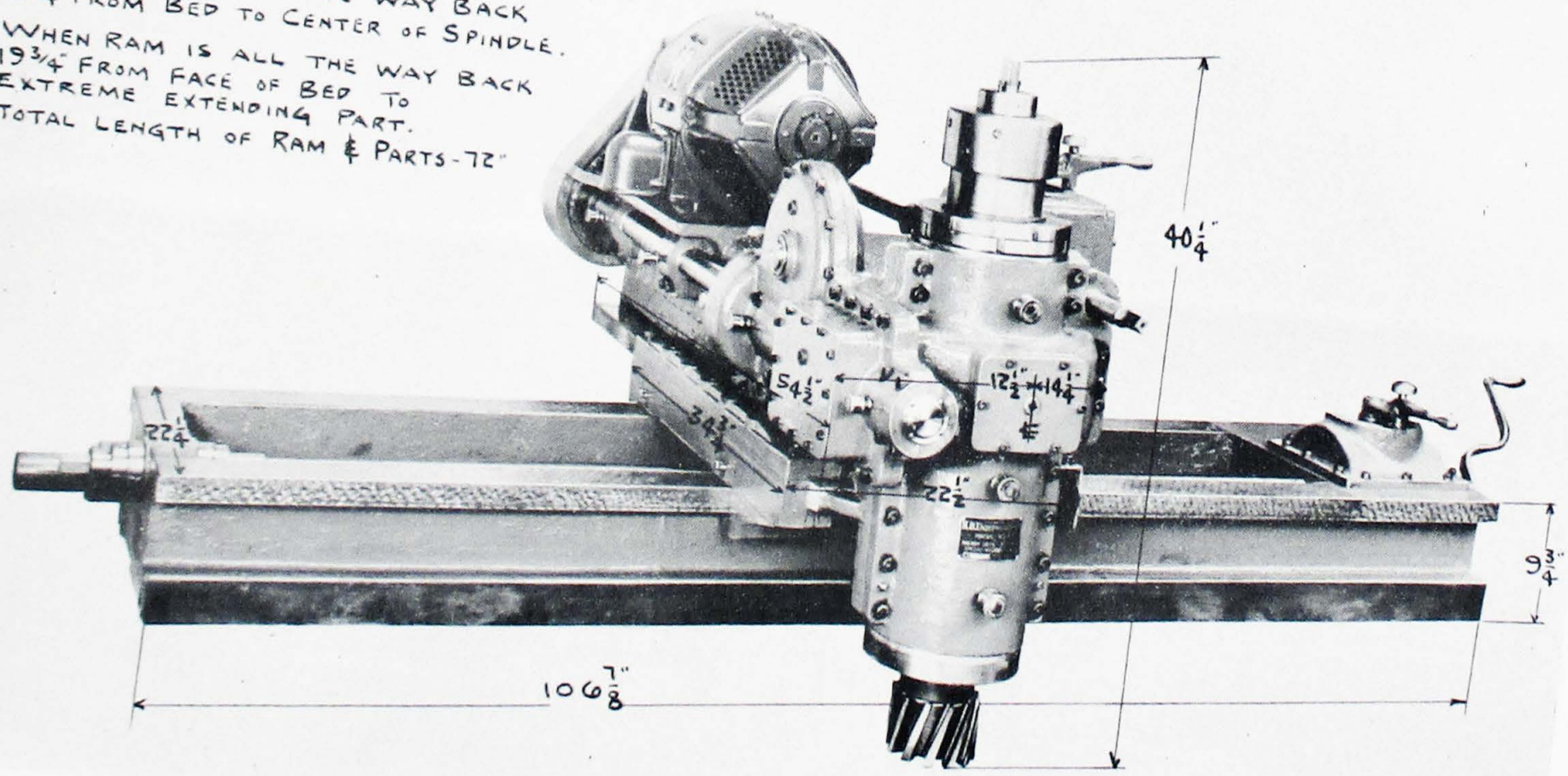


Fig. 150 Portable Milling Machine showing sizes as regularly built
 Special length bed can be built if desired

Underwood Portable Milling Machine

Fig. 150

A portable machine that has various uses in Shipyards and many other industrial plants. Can be used on Gun Turrets, engine foundations, hammer blocks, rolling mill housings, etc.

Machine is made of high grade iron with bronze bushings for all bearings, bed is made in one piece, with heavy cross ribs; the bottom is machined providing two long bearing surfaces projecting $\frac{1}{4}$ " below any cross member, each bearing surface is provided with tee slots their entire length, suitable for $\frac{3}{4}$ " tee head holding down bolts. The top has a finished surface acting as ways for carrying the saddle, the front and back way projects beyond the face to form a tongue to prevent the saddle from rising from the bed. The saddle has slide of the proper shape and size to match the ways of the bed; a bronze gib is fitted in the rear to take up wear, the saddle has broad ways formed on the top at right angle to the machine for supporting the ram. The ram has a cross-travel of 25" in saddle and saddle has a travel of 71" on bed. The ram is designed to form the bearing of the spindle; the spindle is 5" dia. and mounted in a quill and is taper bored for #12 Brown & Sharpe taper and is machined with keyway for cutter key. The spindle has a vertical movement of 12" by hand operation and is fitted at top and bottom of quill with bronze thrust collars provided with means of taking up wear, and spindle has one speed.

A 5 H.P. motor is mounted on the ram and worm shaft is driven by silent chain from motor. Feed for both saddle and ram is positive. Control for saddle feed is located at one end of the bed and control for ram feed is mounted on the ram. There is one feed for each. Controls are designed for forward, reverse and neutral. All shaftings are of high grade steel. Gears and worms are cut from the solid with accurate cut teeth. All ways and sliding parts are accurately machined and scraped to a perfect fit. All sliding gears are a perfect fit and shafts suitably splined. All bearings are provided with suitable means of lubrication.

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For use in Locomotive Repair Shops, Navy Yards, Ship Yards and many other Industrial Plants.



Portable Locomotive Cylinder or Dome Facing Machine

Portable Center Crank Pin Returning Machine

Portable Crank Pin Returning Machine

Portable Power Pipe Bending Machine

Portable Hand Pipe Bending Machine

Portable Pedestal Milling Machine

Portable Milling Machine

Portable Rotary Planer

Portable Boring Bar

Link or Curve Planer Attachment

Rotary Flue Cleaning Machine

Circular Planing Tool

Radius Planer Attachment, Etc.