NEW *Bridgeport*® SCRIBE-MASTER...

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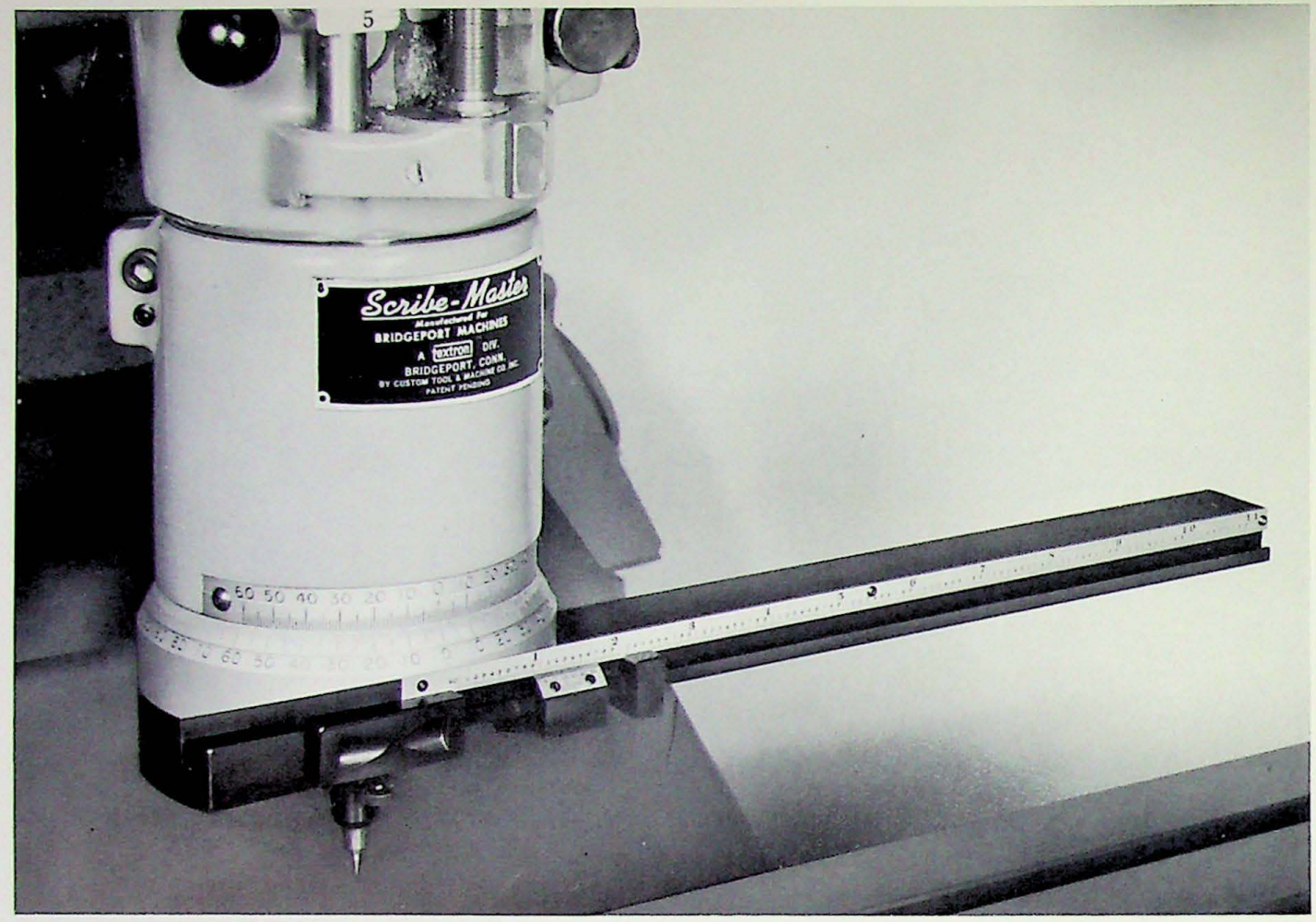
the modern way to produce drawings for the Line-A-Mill®, optical scanners and general layout work.



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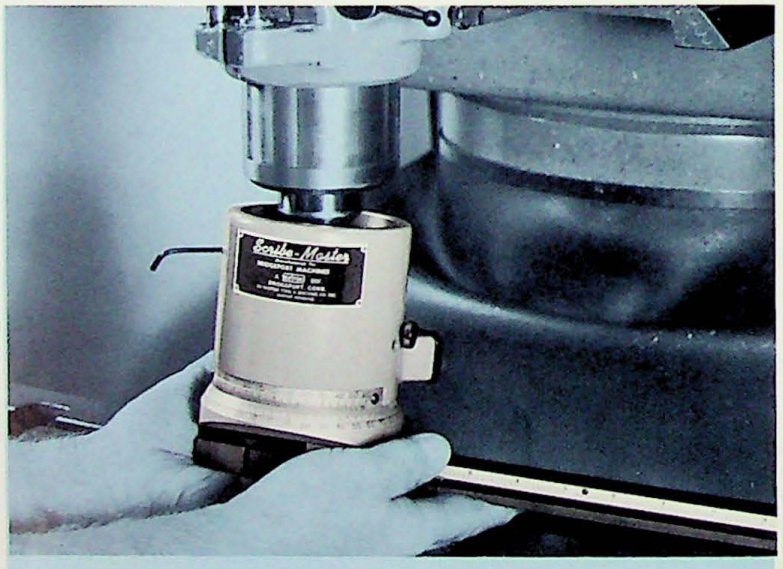


DESCRIPTION

The Scribe-Master is a mechanical device which attaches to the quill of any Bridgeport machine to produce drawings accurate within .001 for use on Bridgeport's Line-A-Mill® or other duplicating or tracing machines which follow a tracing optically.

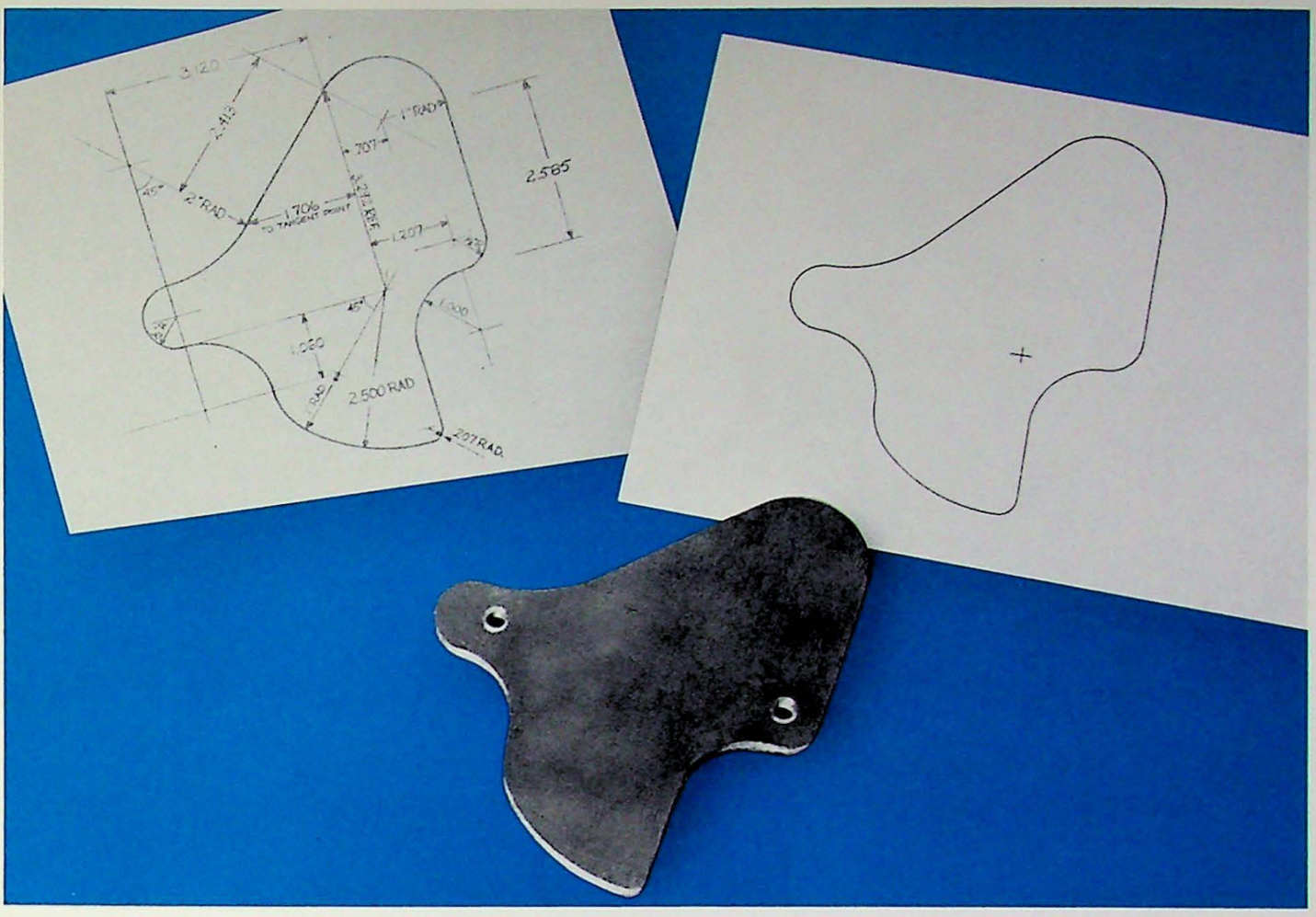
CAPABILITY

With the Scribe-Master the most complex mechanical drawings can be reproduced. The Scribe-Master is calibrated in degrees and minutes to allow reproduction of any angle.

MOUNTING AND SETTING THE SCRIBE-MASTER

This is a simple operation, as follows:

1. Place Scribe-Master on quill of any Bridgeport machine.
2. Line up zero marks on upper and lower scales of the Scribe-Master housing and lock in position with knurled thumb screw.
3. Indicate the arm of the Scribe-Master with the longitudinal axis of the machine table by loosening clamping screw and swinging the whole Scribe-Master into alignment.
4. Tighten clamping screw to lock the whole assembly in position.



PURPOSE

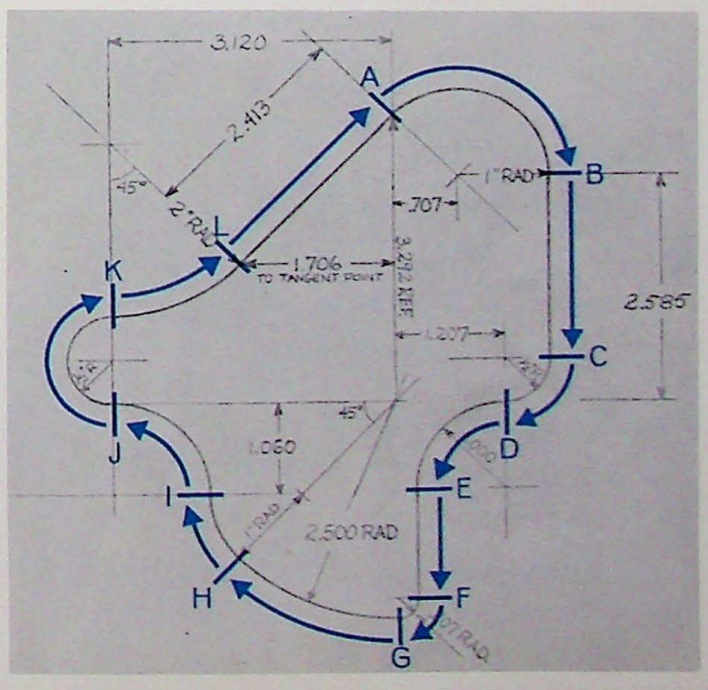
The Scribe-Master was developed to provide an accurate method of converting mechanical drawings to a template or pattern which optical scanners could follow. Since the optical system used by Bridgeport is highly accurate and self-centers on any line being followed, drawings made by lead pencils or ink pens could not produce a line of sufficient uniformity of width to be acceptable. Moreover, commercially available drawings proved to be too time consuming and expensive. The Scribe-Master, however, uses a metal scriber or stylus which quickly and economically produces a constant line. The Scribe-Master is furnished with .012 and .017 points as well as with a special sharp point for laying out metal templates.

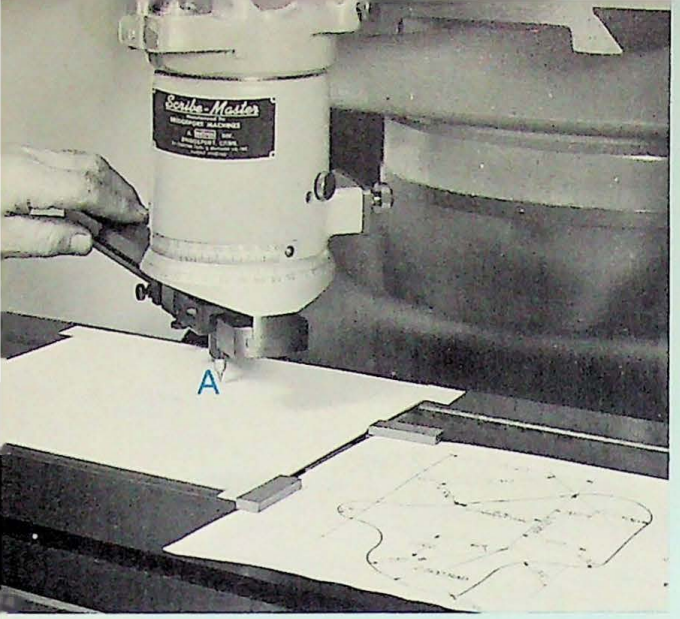
METHOD

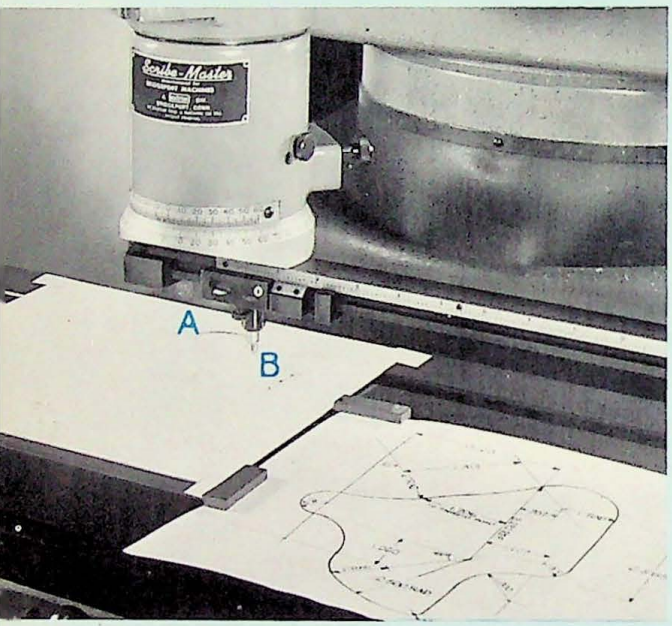
Layouts are made on Scribe-Plex, a specially coated sheet of plastic material. In producing a template, the Scribe-Master stylus removes the coating uniformly, leaving a perfect pattern to be followed.

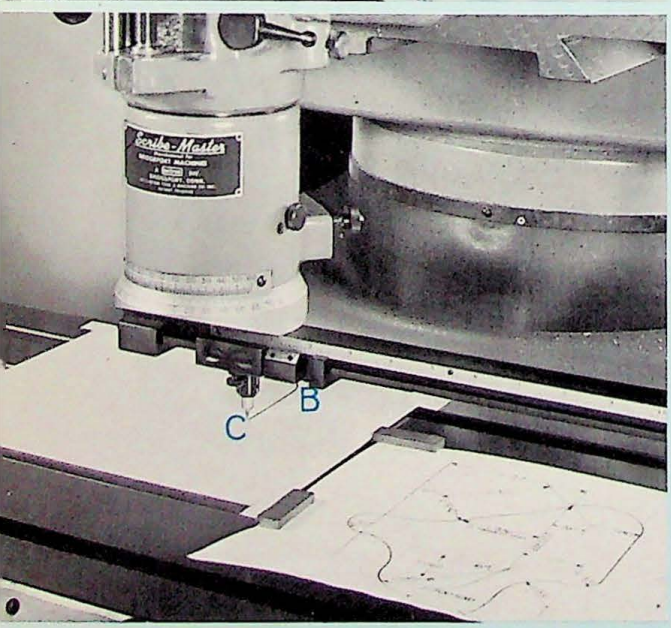
PREPARING A TRACING

Any mechanical drawing consists of straight lines, radii or combinations thereof. All the layout man need do with the Scribe-Master, then, is to reduce the drawing to its basic elements, determine the sequence of lines and radii, and draw them on the Scribe-Plex plates specially designed for the Scribe-Master.









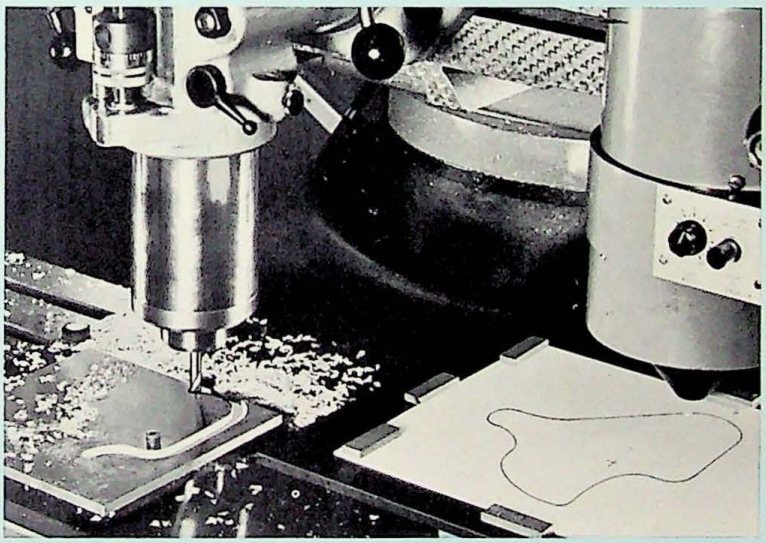
SCRIBING A DRAWING

Place Scribe-Plex sheet on table and fasten. Pick a starting point and develop all movements from that point. Using the drawing illustrated, follow these steps:

1. Start at Point A.
2. Scribe 1″ radius to Point B.
3. Draw a straight line to Point C by moving cross travel of machine.
4. Draw ½″ radius from Point C to Point D.
5. Draw 1″ radius from D to E.
6. Continue drawing in same manner back to Point A.
7. Drawing has now been scribed on the Scribe-Plex sheet ready for use on the Line-A-Mill.

To describe a radius, set the vernier scale on the arm to radius desired and lock in position. Move Scriber block against the stop, lock in position and draw manually to the next point.

Whenever machine table is used to draw a line, make sure Scribe-Master unit is locked with thumb screw.



PRODUCTION OF PARTS

After the drawing has been made on the Scribe-Plex sheet, simply place the sheet under the optical scanner of the Line-A-Mill and continue with normal procedures to mill the part.

SCRIBE-PLEX SHEETS

These sheets of specially coated plastic material are available in two popular sizes 8 x 10″ and 12 x 18″. They are carried in stock by Authorized Bridgeport Dealers.

TOUCH UP KITS

Also available from Bridgeport Dealers are the handy Touch Up Kits for correcting any errors made on the Scribe-Plex sheets.

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