

3500

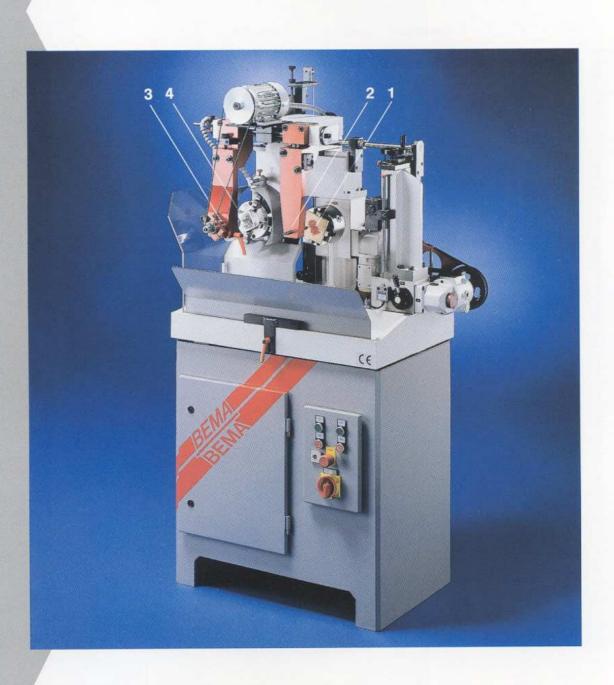
Three-Dimensional,
1:1 Copying Machine



Three-Dimensional, **Copying Machine System 3500**

Threedimensional engraver's profile milling which has been successful for several decades of years. A tracing pin (2) serves to scan the metal or duroplastic (1) template. The work piece can be milled at the same time, because there is a solid connection between the tracing pin (2), and a milling spindle (3). The perfect surface quality of the finished work pieces is beyond any competition Even the slightest cavities get detected. You may, of course, also mill mirror-inverted and vary the sectional heights infinitely. Operators will be completely familiar with the system within less than a day. (4) The die can be engraved geometrically identical or laterally inverted.

The material is tool steel.



BEMA System 3500

including Standard Accessories:

- Precision-milling Spindel Ø 40 × 140 mm, 16.000 U/min, maintenance, with draw-in tube Ø6 mm
- Carbide milling cutter Ø 6 mm
- Stylus hard metal 17 Grad
- 2 unite concentrice chuck Ø 125 mm → Infinitely variable drive
 - Pressure weights

Technical Datas:

- Copy 1: 1 for max. work-piece/model diameter 250 mm
- Mirror-inverted transmission right or left ("Janus-form")
- Automatic circumference speed control from work-piece and modell







Special Accessories:

High-Frequency Milling Spindle (Pict. 1)

Using a high-frequency milling spindle, a working speed of 5.000 to 35.000 rpm may selected in advance.

The use of a high-frequency milling spindle is recommended when high cutting speeds at a constant number of revolutions are required (for example diamond cutting).

The milling spindle is supplied with a transformer. The speed range (number of revolutions) may be read at the available scale.

The Milling-Graver (Pict. 2)

For an optimal machine output, the chisel form has proven to be the best shape of the milling-cutter.

Carbide milling cutters or diamond milling cutters ground to the shape of a chisel ensure the highest tool life.

For special applications also standard millinggravers may be used.

Machine system 3500 (Pict. 3)

The machine, fully equipped with halogen machine light, high-frequency converter and power driven milling spindle.

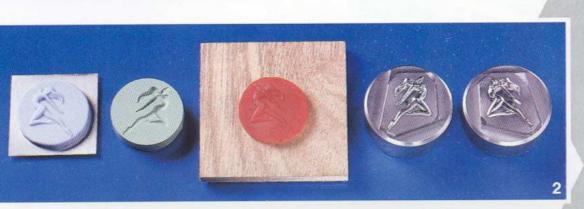
ield of Application



1 Mirror-Inverted Transmission

The machine is equipped with a reversing gear which allows a synchronous reverse rotation of model and work-piece. It results a mirror-inverted transmission from model to work-piece. This fact enables the production of symmetrical mirror-inverted workpieces ("Janus-form").

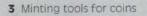


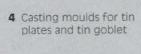


2 Working process: wax model, silicone casting, scanning model, duroplastic. Work piece right hand and left hand.













- 5 Stamping dies for the jewellery industries
- **6** Stamping dies for ring, earring and endrop





- 7 Electrodes for spark erosion machines
- 8 Processing of semi precious stones such as coral, onyx, agate and pearl-shell