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SHORT SURVEY ON <u>SEMI-AUTOMATIC</u> MACHINES FOR WORKING OF ROUND TUNGSTEN CARBIDE DIES:

ETC-1/HF:

High speed semiautomatic Tc die processing machine for the precision grinding and polishing of both the dies' drawing cone and cylindrical bearing.

Suitable for the reconditioning and/or production of <u>round</u> tc dies and in an extremely short worktime.

Workrange: 0,70 - 20,0 mm Ø

(best within $1 - 10 \text{ mm } \emptyset$)

Weight: appr. 100 Kgs.







HPM-1:

This tungsten carbide drawing die machine has been constructed for reworking (grinding +polishing) of conical (+ cylindrical) die-portions and in a diameter range between approx. 0,50 - 16,00 mm.

Main Features:

Control panel in a separate housing
Equipped with a three jaw chuck dia. 80 mm
Housing with sound protection.
Offering automatic down movement of die-table.
Weight: approx. 80 Kgs.

Available as options:

automatic diamond suspension supply. special fixing system for clamping of needles 8/10 mm.

three jaw chuck with dia. 100 mm.



AZM-2 :

High Precision Calibrating Machine

for sizing/polishing of the cylindrical bearing section of tungsten carbide dies in semi-automatic execution.

Workrange: 0.30 - 6,50 mm Ø

Accuracy: approx. +/- 0.001 mm Weight: approx. 85 Kgs.

Recommendation:

Ideal in combined use as follows:

HPM-1 – for the conical die-portions

AZM- 2 – for the bearing-calibration

MFF-A : Semi-automatic Machine for tc dies with fine bore-Ø





To work such fine-bore to dies in sizes between only 0.15 to 1.50 mm Ø to needs, requires modern and precise sturdy- but easy to use equipment.

This has been the spur why the MFF-A machine machine has been developed, uniting two machines into one, which can efficiently work both the die-cone and the die-bearing and for a small to medium throughput of such dies.

All operations are managed by an **OPLC** and a quick pin-change-device for clamping of tapered- or calibration steel workpins and an automatic and programmable diamond suspension/paste feeding have been provided too.