

PERFECTION
IN DETAIL
SINCE 1921.



THE ORIGINAL GRÄBENER KNUCKLE-JOINT

Since over 50 years, Gräbener designs and manufactures high speed coining presses, model MPU, and various types of medal presses, model GMP. Core component of all these machines with rated capacities between 1.000 and 10.000 kN is the bottom drive knuckle-joint system.

Advantages of the knuckle-joint drive for the embossing of coins and medals are:

- > Favorable leverage of forces and moments
- > Reduced striking speed near BDC
- > Low power input
- > Highest possible embossing forces
- > High system rigidity with low elastic strain
- > High stroke rates
- > Easily automatable with feeding systems
- > Well-proven, fail-save, reliable, and long-lasting.

Gräbener is also known for its product-line of high-capacity CNC-controlled hydraulic medallion presses, model MCO, with a rated capacity from 4.000 to 8.000 kN.

The new FLEXMEDAL® is a knuckle-joint press driven by a servohydraulic power unit.

TECHNICAL DATA FLEXMEDAL® FM250



Working principle	Mechanical knuckle-joint press with servo-hydraulic drive
Feeding	Manual feeding
Rated force	2.500 kN
Stroke	60 mm
Stroke rate	10 strokes/min.
Programmable multi-stroke	1 – 5 fold
Maximum output single-stroke	10 pieces/min.
double-stroke	8 pieces/min.
Ejector force	50 kN
Ejector stroke	10 mm
Noise level	< 60 dB(A)
Floor space required	3,3 m ²
Weight	6.000 kg
Positioning accuracy	± 0,02 mm
Force repeatability	± 10 kN
Motor capacity	12 kW



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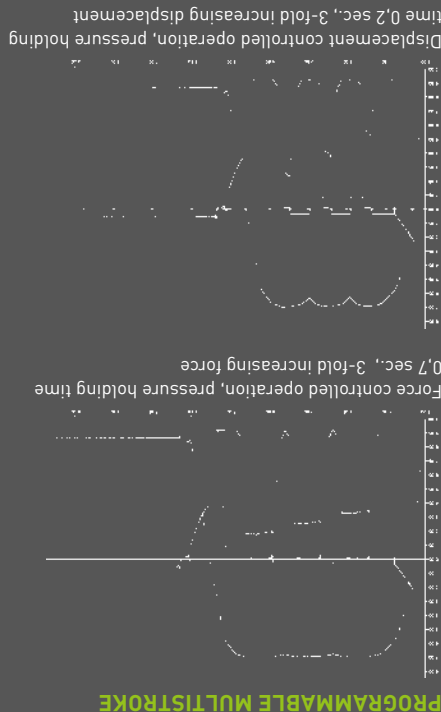
Concept & Design by: www.yellowtree.de; Coin Design by: www.stdesign.no; 3D Imagery by: www.linccoper3d.com

 GRÄBENER

SMALL AND MIGHTY.

FLEXMEDAL® FM250

The innovative powerpack for flexible medal embossing.



PROGRAMMABLE MULTISTROKE



SMALL AND MIGHTY.

LOWER SPACE REQUIREMENT, LOWER COSTS AND MORE FLEXIBILITY FOR SMALL LOT SIZES

THE NEW HYBRID DRIVE

For the production of premium-quality coins and medals in manual mode we combine the well-proven Gräbener knuckle-joint system with a servohydraulically controlled power unit. **THE RESULT: FLEXMEDAL®**, a rigid but variable press for cost-effective manufacturing of small lot sizes with lower space requirement for maximum shop floor utilization.

QUALITY

- > high guiding accuracy due to pre-strained slide guides
- > best embossing results through high machine rigidity
- > brilliant surface quality assured by a clean-air system

FLEXIBILITY

- > force- or displacement-controlled operation
- > multiple stroke with variable forces and die lifting
- > programmable striking velocity and holding time in BDC
- > programmable hologram sequence

ENERGY EFFICIENCY

- > high/low-pressure system with accumulator technology
- > very good hydraulic efficiency
- > small hydraulic power demand due to knuckle-joint leverage

ERGONOMY

- > ergonomically favorable operator position
- > no pit or platform required

