

## "SetupPRO"® Machine Monitoring Software

• Revolutionary software solutions from MJC that ease the use and setup of modern CNC flow forming machines.

• Roller Positioning and Offset Control

• Individually and Programmable Axial Roller Force Control

• Longitudinal Axis Force Feedback

• Main Spindle Motor Load Feedback

• Actual Cycle Time Timer for Production Cycle Optimization

• Production Part Counter for counting up or down

• Programmable Machine System Temperature Monitoring



## Machine Specifications

Blank/Work piece dimensions:

F450.2000-3

Min/max work piece Diameter:

200 mm / 450 mm

Cylindrical length in forward flow forming

max. 2,000 mm

Cylindrical length in reverse flow forming

max. 4,000 mm

Machine Data

Tool mounting main spindle as per DIN 55022:

size 15

Power main spindle drive:

190 kW AC Vector

Main spindle speed:

max. 600 rpm

Transverse slide unit force:

max. 400 kN

Transverse slide unit stroke:

200 mm

Longitudinal slide stroke:

2,200 mm

Longitudinal slide force:

max. 500kN

Number of radial feed units in the slide:

3 units

Tailstock stroke:

1,000 mm

Tailstock clamping force:

max. 147 kN

Tailstock mounting as per DIN 55022:

Size 6

Ejector stroke:

2,000 mm

Ejector force:

200 kN

Hydraulic drive power:

45 kW

Hydraulic components:

Parker Hannifin

PLC Control:

Siemens Step 7

CNC control:

Siemens 840Dsl

Specifications Subject to Change Without Notice

# MACROSS DYNAMICS

MAKRO-DİNAMİK LTD. ŞTİ.

Advanced CNC Equipment for Metal Forming Technology  
CNC Flow-Forming Machine  
F450.2000-3



## ENGINEERED PERFECTION

# Advanced CNC Metal Flow Forming Machines

With its new 3-roller flow forming machines, Macross has developed the future within flow forming technology. This new concept has revolutionized the metal forming industry. Macross Flow Forming Machines are specially designed for the manufacturing of rotary and shear formed precision components. The cylindrical flow forming process allows great potential for weight optimization, reduction of production steps, and control of tight tolerance wall thicknesses.

Macross customers benefit from the best service and support in the industry through locally authorized service centers.



## DESIGN FEATURES

- 3-Roller Design
- Increased Feed Rate
- Better Balance in Forming Forces
- Faster Cycle Times
- Rugged Construction
- Massive Main Components
- Oversized Linear Slide Bearings
- Hydraulic or ball screw Z Axis
- Hydraulic X Axes
- Extremely Rigid X Slide Units
- Trouble-free Operation
- Quick Tooling Changeovers
- Simple Diagnostics
- Low Maintenance
- Siemens Sinumerik control system
- Custom programming software