

Advanced CNC Metal Flow Forming Machines

With its new 4-roller flow forming machines, MJC has developed the future within flow forming technology. This new concept has revolutionized the metal forming industry. MJC 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. MJC customers benefit from the best service and support in the industry through locally authorized service centers.



DESIGN FEATURES

- 4-Roller Design
- Increased Feed Rate
- Better Balance in Forming Forces
- Faster Cycle Times
- Rugged Construction
- Massive Main Components
- Oversized Linear Slide Bearings
- Dual Z Axis Ball-screw Drives
- 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

“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

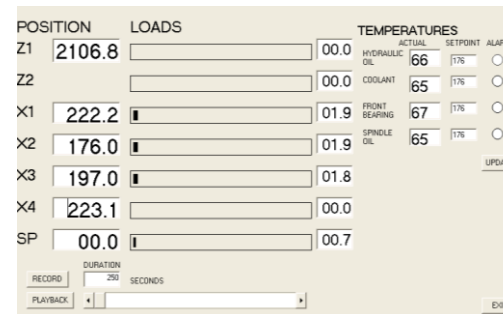
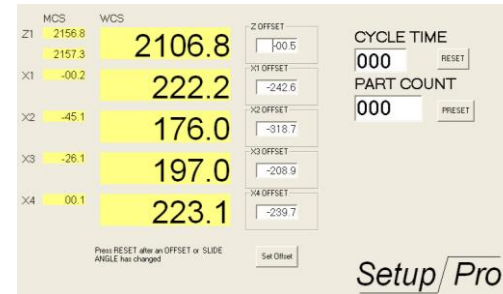
•Longitudinal Axis Force Feedback

•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:	F450.2000-4
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:	4 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



**ENGINEERING AND
TECHNOLOGY, INC.**

Advanced CNC Equipment for Metal Forming Technology CNC Flow-Forming Machine F450.2000-4



**ENGINEERED
PERFECTION**