

# 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.

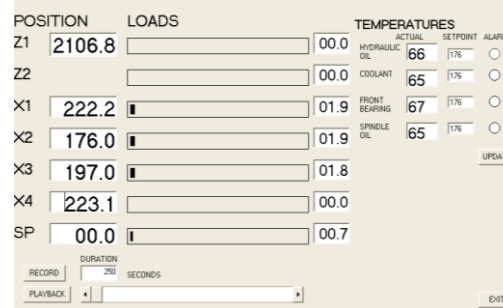
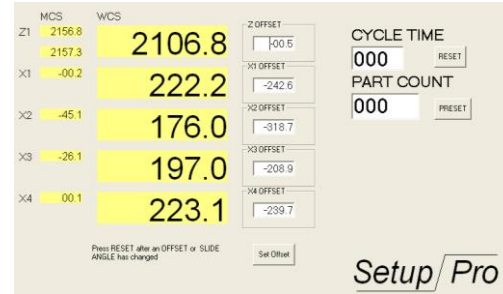
## DESIGN FEATURES

- 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”<sup>©</sup> 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

F450.3000-4

Min/max work piece Diameter:  
Cylindrical length in forward flow forming:  
Cylindrical length in reverse flow forming:

200 mm / 450 mm  
max. 3,000 mm  
max. 6,000 mm

Machine Data

Tool mounting main spindle as per DIN 55022:  
Power main spindle drive:  
Main spindle speed:  
Transverse slide unit force:  
Transverse slide unit stroke:  
Longitudinal slide stroke:  
Longitudinal slide force:  
Number of radial feed units in the slide:  
Tailstock stroke:  
Tailstock clamping force:  
Tailstock mounting as per DIN 55022:  
Ejector stroke:  
Ejector force:  
Hydraulic drive power:  
Hydraulic components:  
PLC Control:  
CNC control:

size 15  
190 kW AC Vector  
max. 600 rpm  
max. 400 kN  
200 mm  
3200 mm  
max. 500kN  
4 units  
1,000 mm  
max. 147 kN  
Size 6  
2,000 mm  
200 kN  
45 kW  
Parker Hannifin  
Siemens Step 7  
Siemens 840Dsl

Specifications Subject to Change Without Notice



**ENGINEERING AND  
TECHNOLOGY, INC.**

## Advanced CNC Equipment for Metal Forming Technology CNC Flow Forming Machines F450.3000-4



**ENGINEERED  
PERFECTION**

