

Heavy Duty 4-Roller CNC Flow-Forming Machines

MJC has developed the future with its new 4-roller flow forming machines. 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

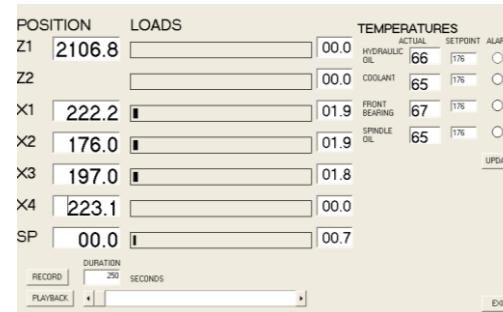
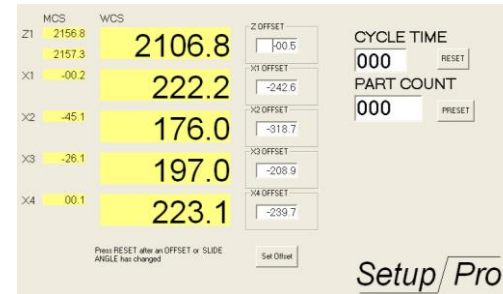
• Longitudinal Axis Force Feedback

• 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



**ENGINEERING AND
TECHNOLOGY, INC.**

Advanced CNC Equipment for Metal Forming Technology CNC Flow Forming Machines F1300.3000-4



Machine Specifications

Blank/Work piece dimensions:

Work piece Diameter: min/max
Cylindrical length in forward flow forming
Cylindrical length in reverse flow forming

F1300.3000-4

200 mm / 1300 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 20
333 kW AC Vector
max. 450 rpm
max. 650 kN
350 mm
3,300 mm
max. 1000kN
4 units
1,000 mm
max. 300 kN
Size 6
2,000 mm
400 kN
75 kW
Parker Hannifin
Siemens Step 7
Siemens 840DsI

Specifications Subject to Change Without Notice

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PERFECTION**

