

## "SetupPRO"™ Machine Monitoring Software

- Revolutionary software solutions from MD 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

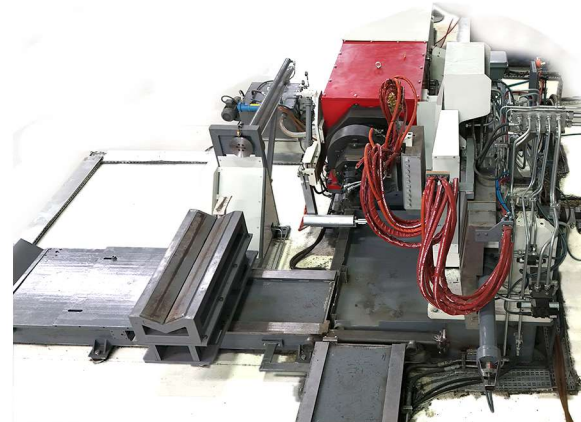
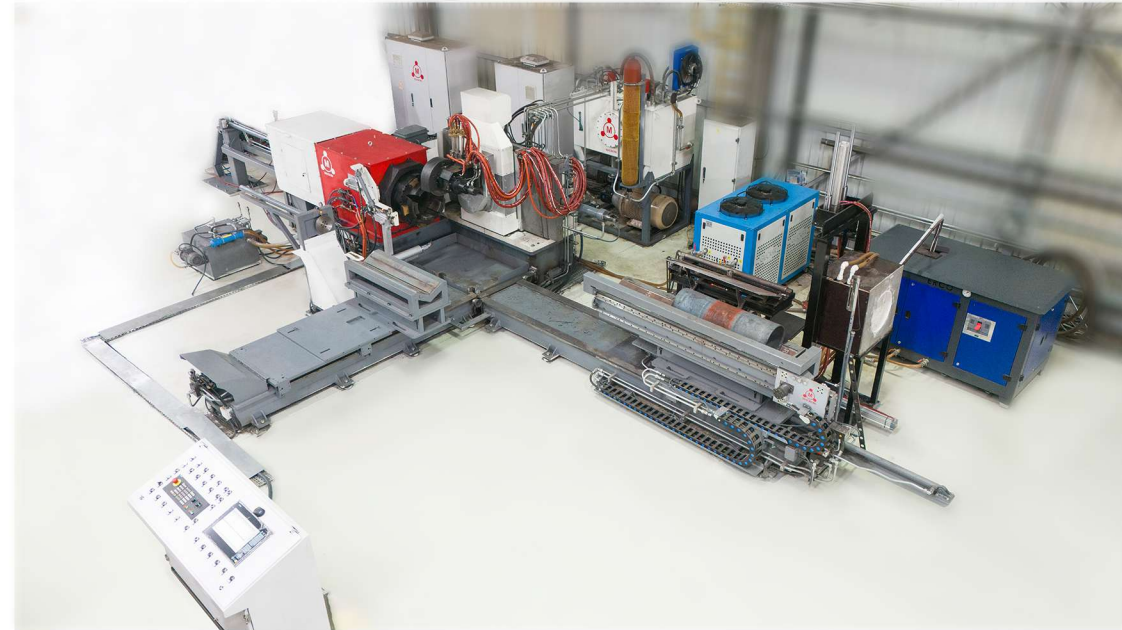
	<u>HS16.200</u>	<u>HS11.100</u>
<b>Blank/Work piece dimensions</b>		
Work piece Diameter: min/max	232 mm / 425 mm	150 mm / 285 mm
Maximum length:	2,500 mm	2,000 mm
<b>Machine Data</b>		
Power main spindle drive:	160 kW AC Vector	100 kW AC Vector
Main spindle speed:	max. 800 rpm	max. 1000 RPM
Longitudinal slide speed:	0-160mm/sec	0-160mm/sec
Longitudinal slide force:	max. 165kN	max 75kN
Rotation Travel:	110 degrees	110 degrees
Rotation Speed:	0 – 60 degrees/sec.	90degrees/sec.
Hydraulic drive power:	65 kW	38kW
Chucking Method:	Hydraulic Draw Tube	Hydraulic Draw Tube
Clamping Force:	500kN	250kN
Chuck Opening Stroke:	17mm	10mm
Slide Lubrication Method:	Automatic	Automatic
Hydraulic components:	Parker Hannifin	Parker Hannifin
PLC Control:	Siemens Step 7	Siemens Step 7
CNC control:	Siemens 840Dsl	Siemens 840Dsl

Specifications Subject to Change Without Notice

[www.macrossdynamics.com](http://www.macrossdynamics.com)

**MACROSS DYNAMICS**  
MAKRO-DİNAMİK LTD. ŞTİ.

Advanced CNC Equipment for Metal Forming Technology  
CNC Neck-Forming and End-Closing Spinning Equipment



**ENGINEERED  
PERFECTION**



# Heavy Duty CNC Neck Forming Machines

MD Neck Forming Machines are specially designed for manufacturing of high pressure cylinders for a wide variety of industrial and commercial applications. This includes neck forming and end closing. Using the latest technology available and standard components ensures the highest productivity while keeping maintenance and cost of ownership the lowest in the world. MD customers benefit from the best service and support in the industry through locally authorized service centers.

## DESIGN FEATURES

- 1-Roller Design
- Increased Feed Rate
- Better Balance in Forming Forces
- Faster Cycle Times
- Rugged Construction
- Massive Main Components
- Oversized Linear Slide Bearings
- Hydraulic Z Axes
- 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