MTM ◗

METAL SPINNING MACHINES

Spinning Technology

Spinning is a craft with centuries of technology. This technology is further developed on modern controlled spinning machines and forming centers.
Technology is a production process of chipless metal forming technology and under DIN 8583 and DIN 8594 standardized.
The requirements of the market are met by the customer-oriented series of spinning-, shear-forming-, flow-forming- and necking-in- machines.

Industries

Metal spinning products are becoming increasing important in many industrial sectors.
In the global market of metal forming we offer solutions within our range of metal spinning machines. Use of spinning machines:

Aerospace - Agriculture - Automotive - Chemical - Defense Technology - Energy and Environmental Technology - Fan Parts / Ventilators - Gas Cylinders - Hotel and Household Goods - Medical - Music Instruments - Lighting - Plant Engineering - Wheels / Rims
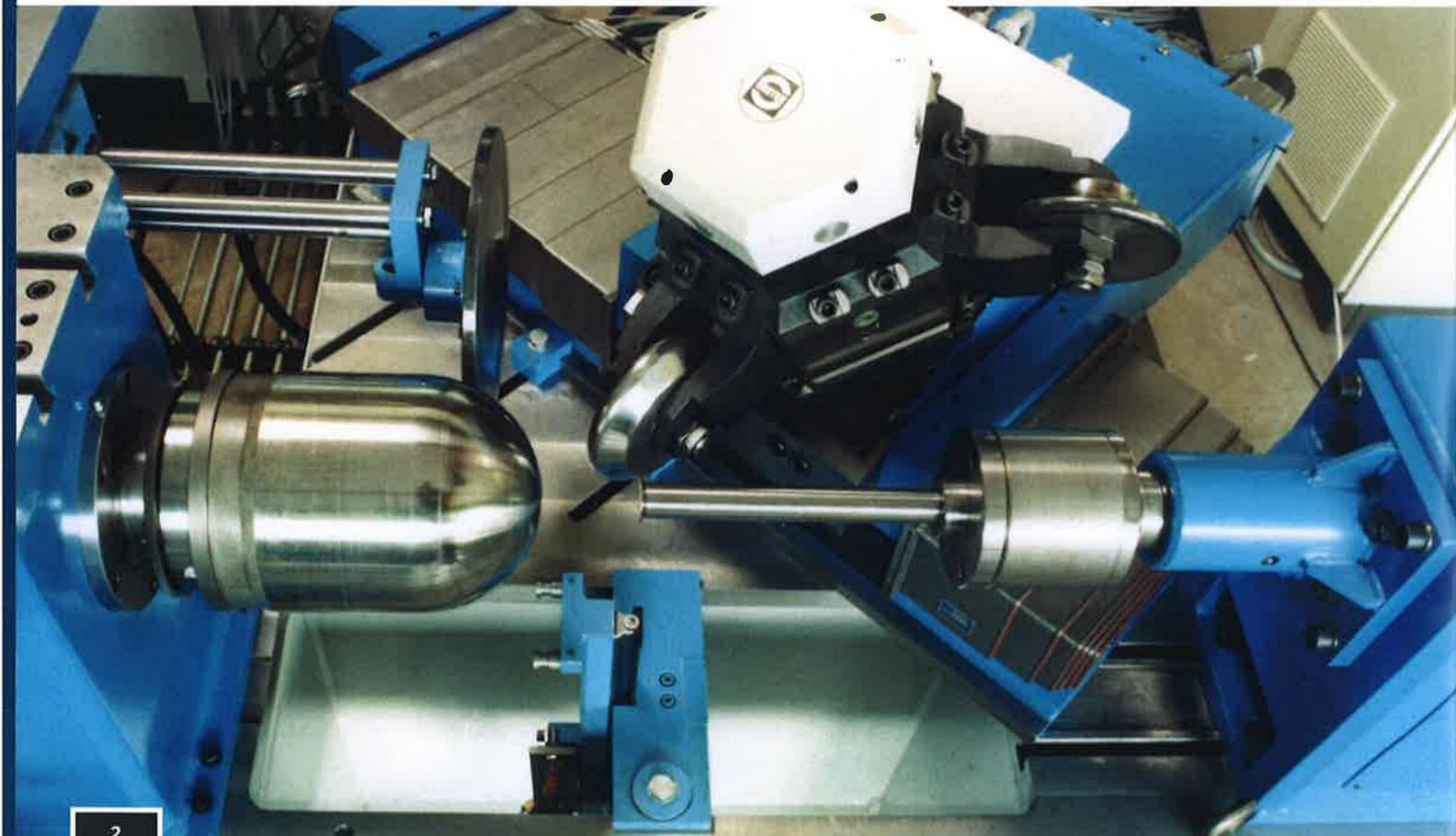
Innovative Technology – Efficiency Machines

The spinning technology is an economical alternative to known forming methods, e. g. deep drawing. Competitive advantages:

- economical machine investment - low tool cost
- high degree of material and energy utilization
- complex manufacture in one set-up - short setting and re-setting times
- material strength and hardness increase
- technical prepared for automation and feeding

Company Profile

MTM Metal-Technic-Machines GmbH. The company was founded in 2002 and is seated in D-59277 Ahlen / Westphalia.

The enterprise is specialized in engineering, construction and trade of metal spinning machines for chipless forming technology. Decades of experience in forming technology warrant excellent counselling for an optimal use of the machines for the customer product.

mTm

1-Roller Metal-Spinning Machines

Series   MSM 10.400 CNC
          MSM 10.800 CNC
          MSM 10.1200 CNC
          MSM 10.1600 CNC

2-Roller Shear-Forming Machines

Series   MSM 20.400 CNC
   MSM 20.600 CNC
          MSM 20.800 CNC
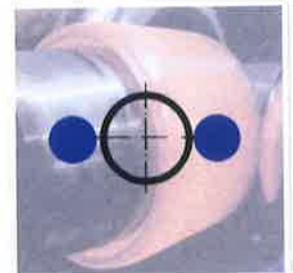
3-Roller Flow-Forming Machines

Series   MSM 30.300 CNC
          MSM 30.400 CNC

Necking-in Machines – Hot Forming

Series   OSM 200 CNC
          OSM 300 CNC
          OSM 500 AL CNC
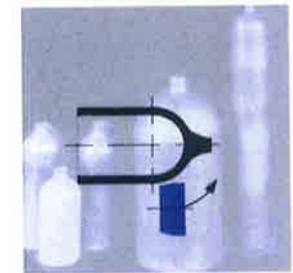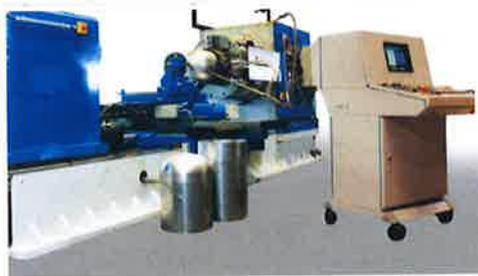
Wheel / Rim Forming Process Center

Series   MSM 600 RV CNC
   MSM 700 RV CNC

## Wheel / Rim Forming Process Center

Series   MSM 800 RH CNC
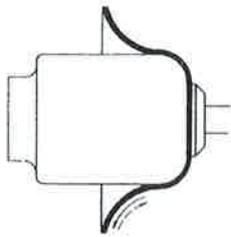
Process for the manufacture of spun parts (Din 8584)
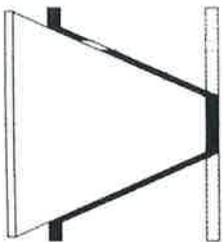
Process for the manufacture of shear-form parts (Din 8583)
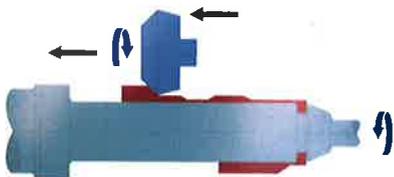

Process for the manufacture of cylindrical flow-formed parts (Din 8583)

Process for hot forming and closure of cut-to-size tubes for pressurized gas cylinders.
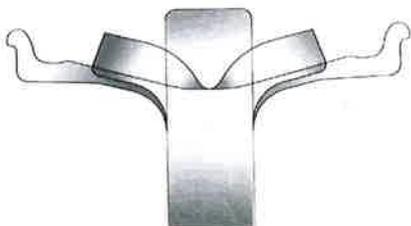

Process for the manufacture of aluminium wheels.
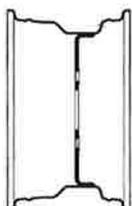

Process for the production of steel wheels.

1-Roller Metal-Spinning Machine

Samples

MSM 10.400 CNC

MSM 10.800 CNC

MSM 10.1200 CNC
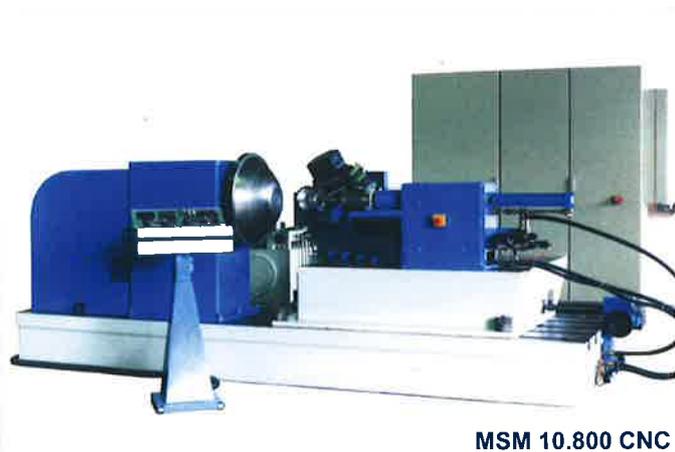
1-Roller Metal-Spinning Machine
MSM 10.400 CNC
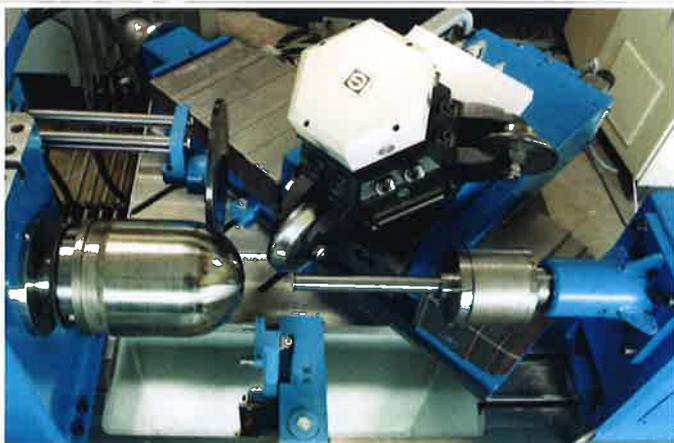
| Technical Data		MSM 10.400 CNC
Workpiece Dia.	mm	700
Centre Height	mm	400
Centre Distance	mm	1.000
Spindle Drive Motor	kW	11
Machine Weight approx.	kg	5.000

2-Roller Shear-Forming Machine
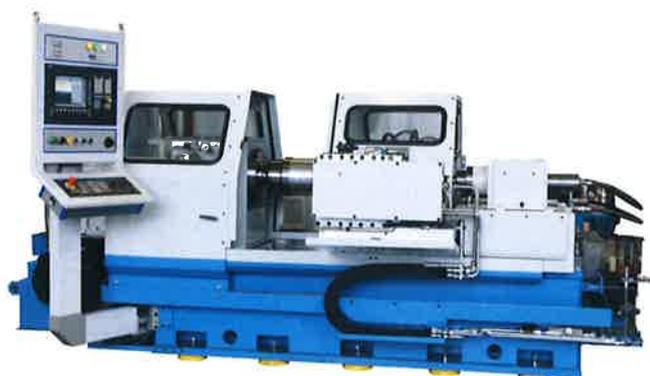
Samples

MSM 20.400 CNC

MSM 20.600 CNC

MSM 20.800 CNC

2-Roller Shear-Forming Machine
MSM 20.400
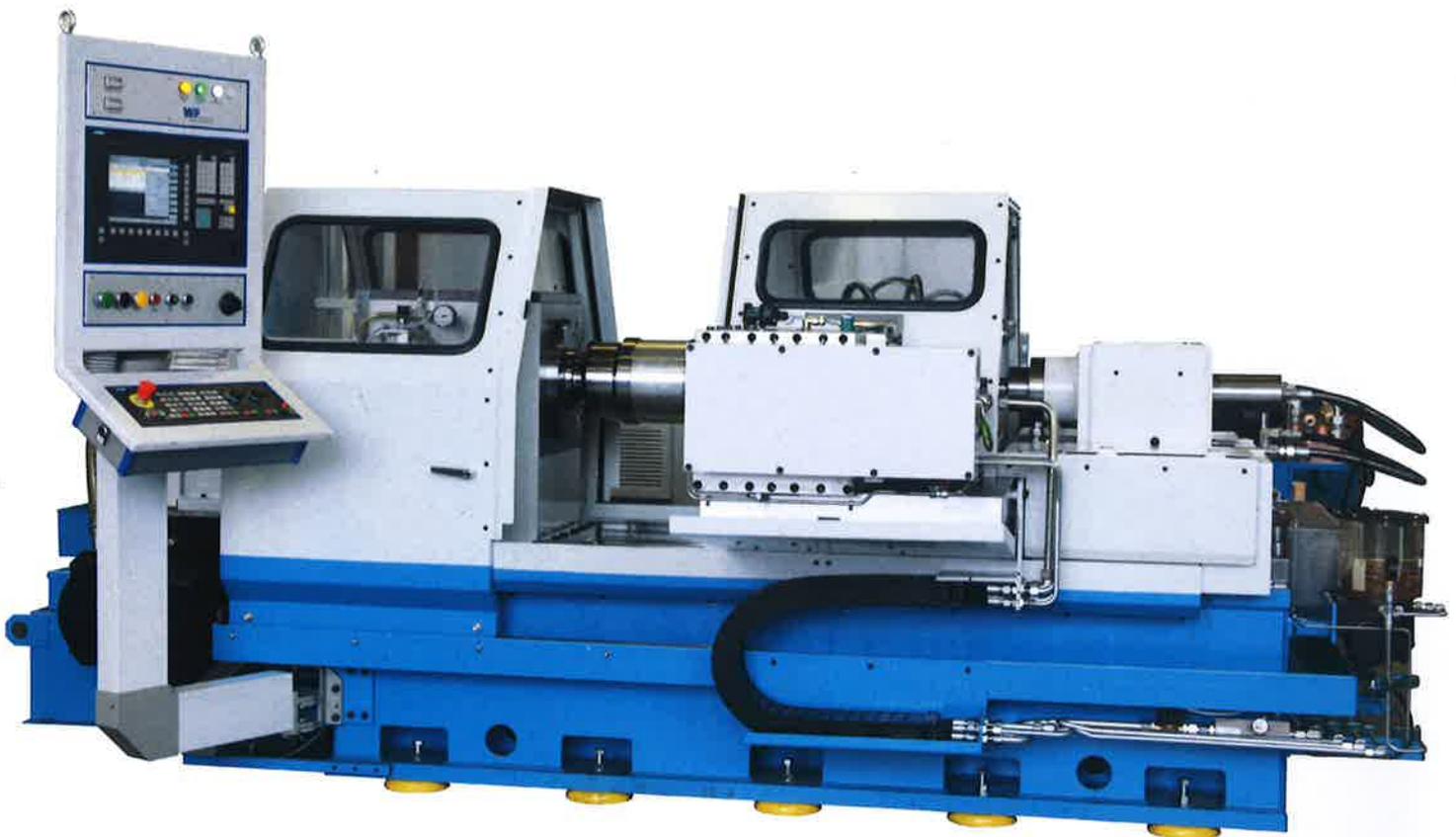
Technical Data		MSM 20.400 CNC
Workpiece Dia.	mm	300
Workpiece Length	mm	350
Centre Height	mm	400
Centre Distance	mm	1.000
Spindle Drive Motor	kW	60
Machine Weight approx.	kg	12.000

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3 Roller Flow-Forming Machine

MSM 30.200 R

MSM 30.400 CNC
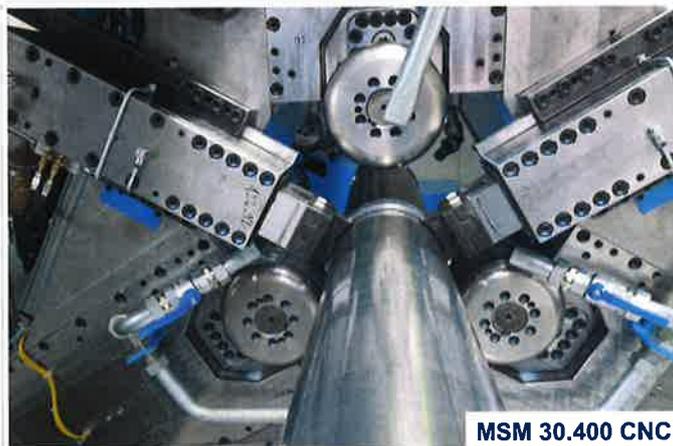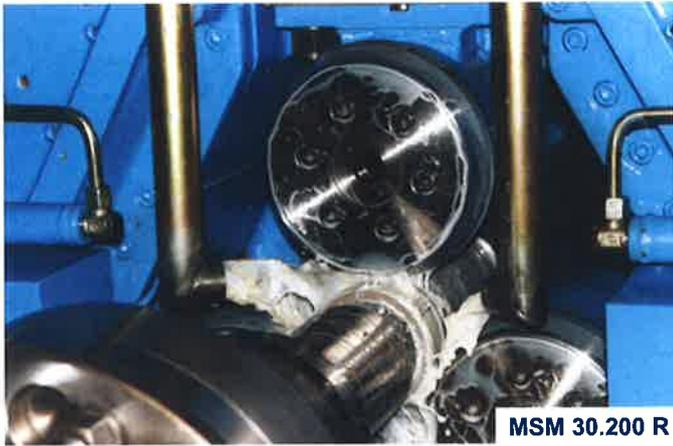
MSM 30.400 CNC

Samples

Forward Flow Forming
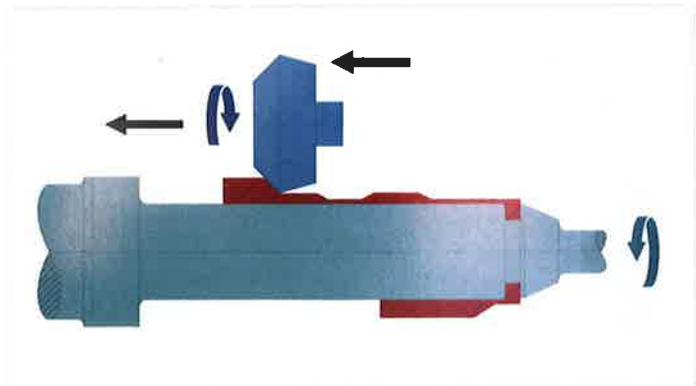
3-Roller Flow-Forming Machine
MSM 30.400 CNC

Technical Data		MSM 30.400 CNC
Workpiece Dia. Min/max	mm	70-350
Workpiece Length		
Forwarding Flow Forming	mm	2.200
Reverse Flow Forming	mm	4.000
Spindle Drive Motor	kW	130
Machine Weight approx.	kg	37.000

Necking-in Machine Hot-Forming

Samples

OSM 200

OSM 300
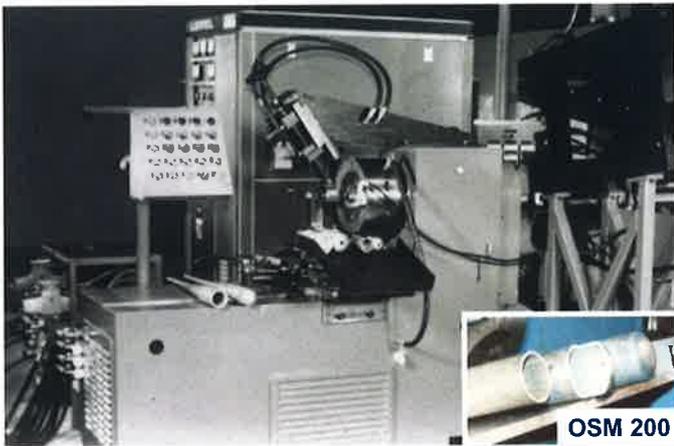
OSM 500 AL

Necking-in Machine – Hot-Forming
OSM 500 CNC AL
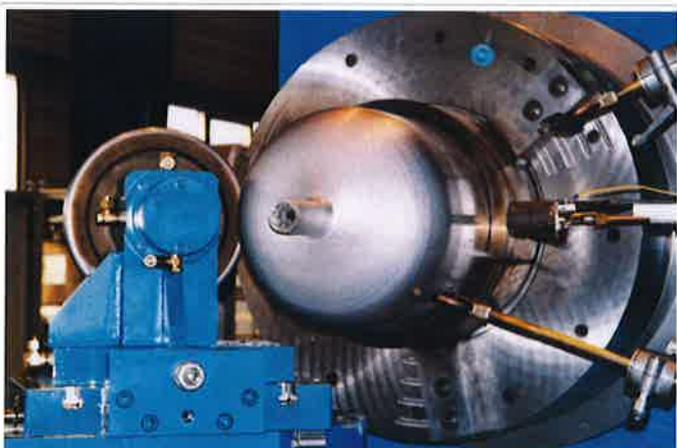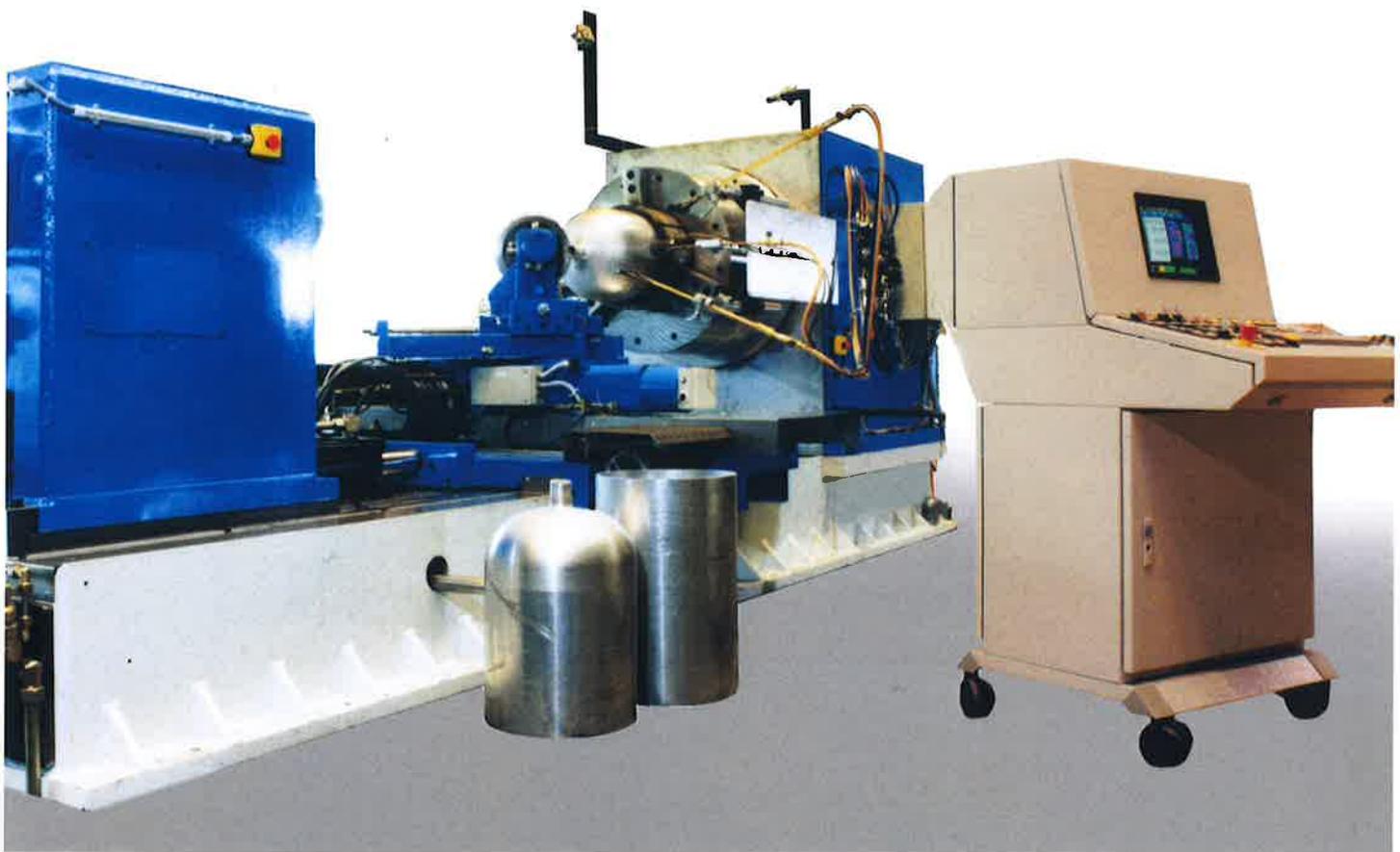
Technical Data	OSM 500 CNC AL	
Workpiece Dia.	mm	100-550
Workpiece Length	mm	2.000
Spindle Drive Motor	kW	110
Machine Weight approx.	kg	30.000

Wheel / RIM Forming Process Center
MSM RV
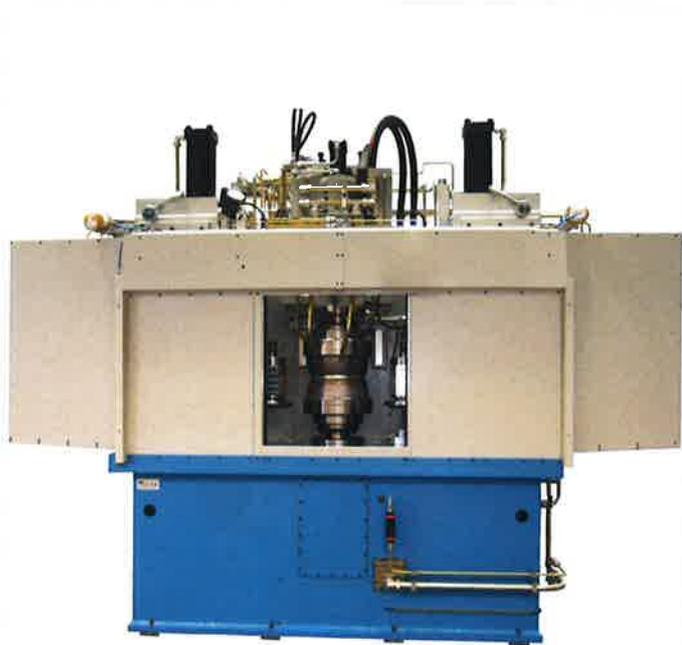
Samples

MSM 600 RV

MSM 700 RV
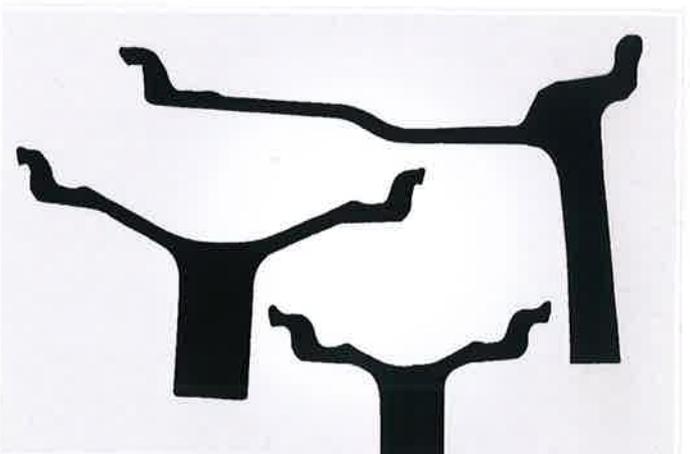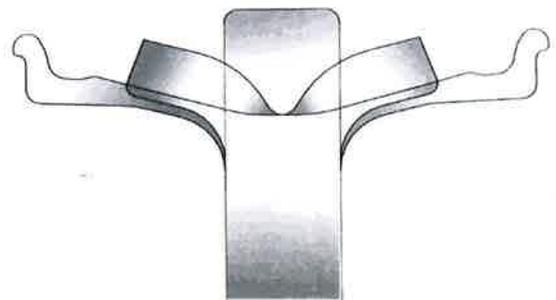
Wheel / RIM Forming Process Center
## MSM 600 RV CNC

Technical Data		MSM 600 RV CNC
Workpiece Dia.	mm	300-600
Workpiece Height	mm	350
Spindle Drive Motor	kW	120
Machine Weight approx.	kg	15.000

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Wheel / RIM Forming Process Center
MSM 800 RH CNC
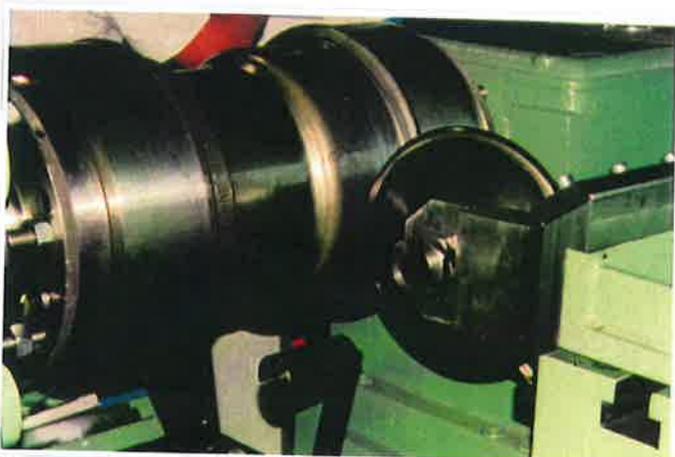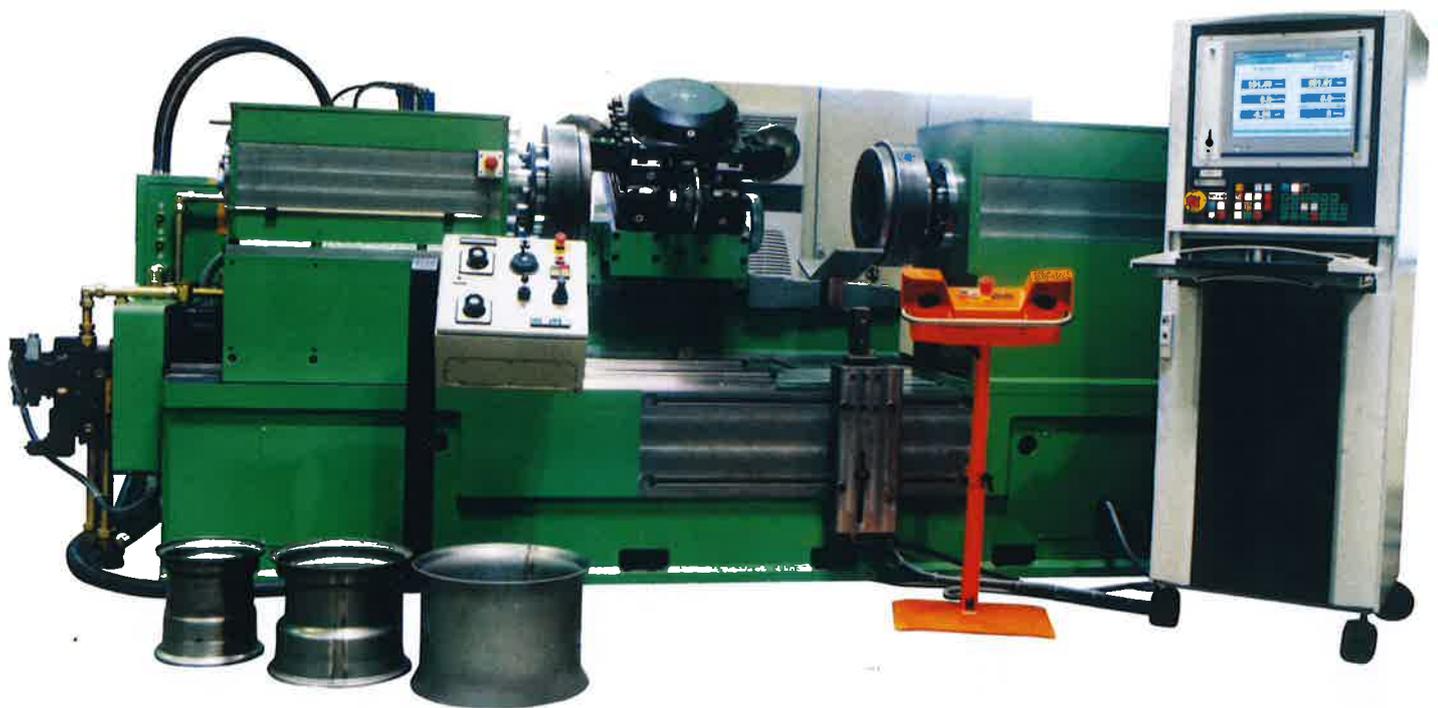
Technical Data		MSM 800 RH CNC
Workpiece Dia. Min/max	mm	200-800
Workpiece Height	mm	700
Spindle Drive Motor	kW	60
Machine Weight approx.	kg	10.000

Engineering
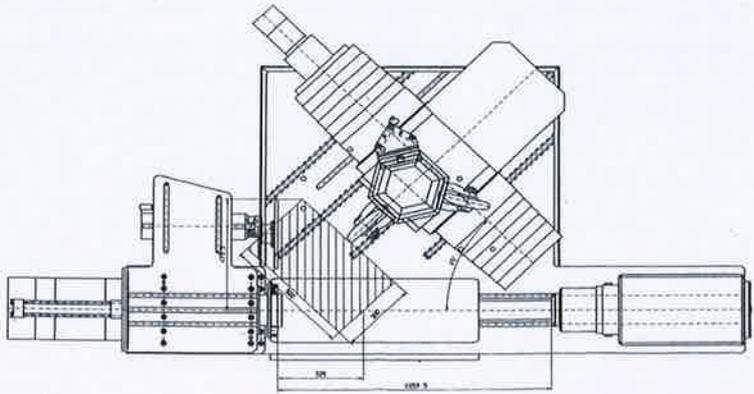
Special Machines

Performing technology, Edge-forming, Production optimization

Machine Line Compressed Gas Cylinders

Necking-in machines, Hardening / testing, Surface technology, Automation

Lighting Technology

Spinning machines, Performing technology, Surface technology, Automation


Machine Line Steel Wheels

Bending machine, Welding machine, Spinning machine, Automation

Automation

Robot equipped assembly line for industrial products
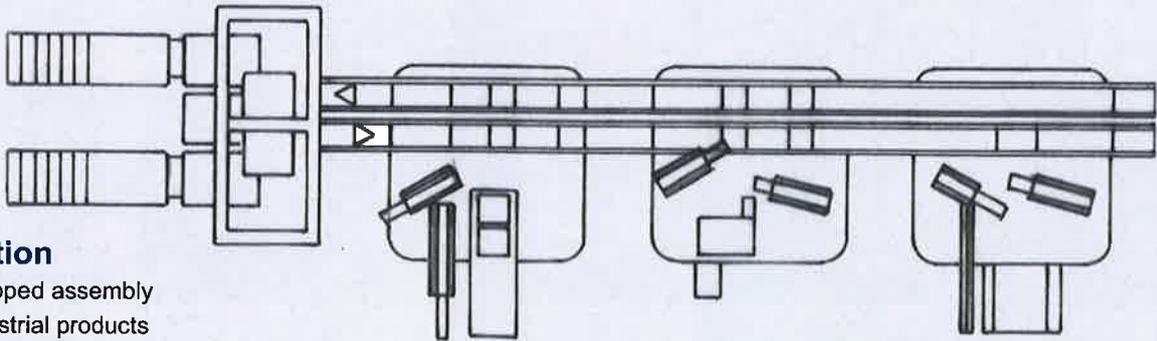
Retrofit

Manual Spinning Machine New

Spinning machines in conventional design,
Heavy-duty engineering and modern drive technology

Series		MSM 300	MSM 400
Centre height	mm	300	400
Centre distance	mm	500	800
Drive motor	kW	3	5

Retrofit used Metal-Spinning Machine

Mechanic and hydraulic overhauled
New electric with CNC control
Tooling, programming and set-up

New spinning slide

in modern heavy-duty engineering, with turntable and support
turntable with plan-gearing, linear guide ways, ball screw, ser-
vo-axes, teach-in control, complete ready-to-use module

Feed slide stroke	mm	1.000
Cross slide	mm	400
Feed slide force	mm	100
Cross slide force	mm	100