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SINCE 2000

Pointing to the future

ENG 

THE EVOLUTION OF FACING AND CENTERING MACHINES



mentel
MACHINE TOOLS

MENTI MACHINE TOOLS.

MENTI
designs and produces horizontal
and vertical gear cutters, facing
and centering machines and special
customised machines.

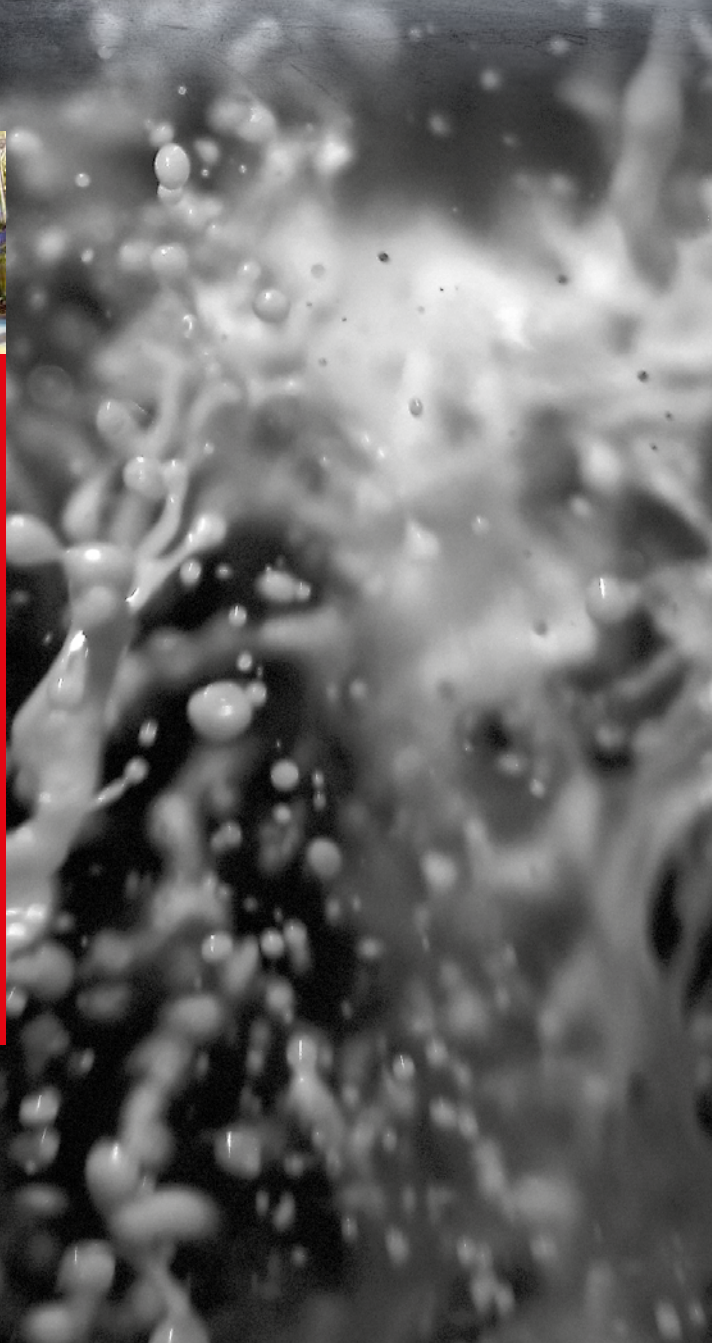
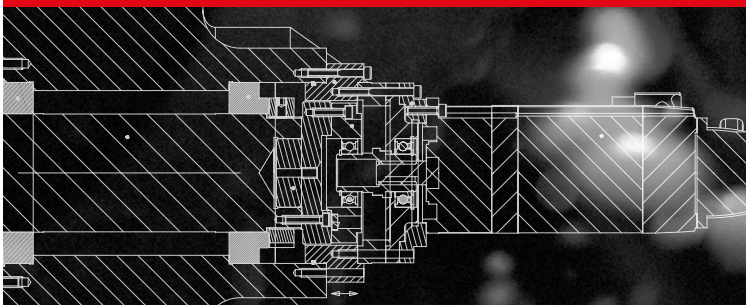


Companies that produce typical shafts for the following sectors mainly use Menti machines for processing ends:

- **Electric motors - pumps - compressors**
- **Combustion engines:** elbow shafts, camshafts
- **Farming machinery:** pinions and semi-axes
- **Earth moving machines:** semi-axes, hydraulic cylinders and shafts.
- **Pipes:** hydraulic cylinders; micropiles for foundations.

MAIN PROCESSING:

- Simple centre - front end cutting and/or milling
- Perforation and tapping, even rigid
- Deep drilling
- The interpolated milling of faces, colletti, inner and outer threads Using the 3 axes (X-Y-Z), holes, surfaces, hollows and any other feasible frontal processing
- Holes



OUR CENTERING-FACING MACHINE SOLUTIONS

FIRST OF ALL,
AN ACCURATE DESIGN PHASE



The machines basically have a base of various lengths that are suitably sized, ribbed and stabilised for maximum structural rigidity, but also to guarantee maximum chip evacuation.

The two opposite units, each one of which is moved by two or three CNC axes, are even interpolated with each other.

The movement axes have guides with movement rollers and ball bearings that are suitably sized for maximum rigidity and precision.

The operating units, which have strong cutting spindles that are suitable for milling, counterboring, contouring, drilling and tapping, can be mounted on multi-spindle or single-spindle heads with tool change.

- **Piece locking system** by self-centring clamps or specific systems to correctly divide the machining allowance of cast pieces like camshafts, etc..
- CNC control system with **SIEMENS** drives and motors; as an alternative, a **FANUC** package can be requested.
- The machines are equipped with full housing, doors that open manually or automatically, and by all the safety systems indicated by current EC directives.
- The machines can be fitted with dedicated **automatic load/unload systems** or Robots.
- **Customised systems** according to the client's requirements.

Some examples of products manufactured using our machines



STANDARD FACING AND CENTERING MACHINE

The perfection of an entry-level machine.

CIM100 

An entry level that can process pieces of **diameter 100** and **length 800 mm**. A machine that can **mill, drill, centre** and **thread** on both sides. It also has an operator programming panel that is easy to use.



Machine capacity	Min. workpiece diameter	diam.	12
	Max. workpiece diam.	diam.	100
	Min. workpiece length	mm	90
	Max. workpiece length	mm	800
Clamping unit	Fast work	mm/min.	15,000
	Max. vice opening run	mm	130
	Vice tightening force	kN	30
Right/Left work unit	Cylindrical cutter connection	Diam.	40
	Max. cutter diam.	Diam.	125
	Bit holder	Type	ER 40
	Motor power	Kw	11
	Easy axes	Mm/min	15,000
	Max. milling spindle speed	RPM	600
	Max. drilling speed	RPM	1,500
	Tapping	M	16
Cooling system	Pump capacity	L/min.	40
	Tank capacity	Litres	160
Hydraulic power unit	Pump capacity	L/min.	12
	Tank capacity	Litres	60
Lubrication gearcase	Working pressure	BAR	16
	Tank capacity	Litres	2.7
System size	Length	mm	3,400 approx.
	Breadth	mm	1,800 approx.
	Height	mm	1,877 approx.
Weight	Kg		6,500 approx.

CUSTOM FACING AND CENTERING MACHINES

Machines with numerous capacities and great performances, designed and produced for customized needs.

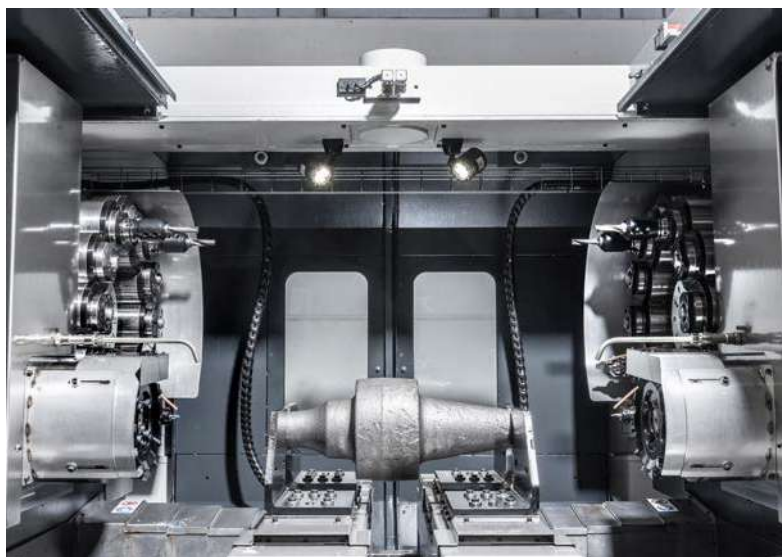
CIM150 

CIM200 



Machines that can cut, drill, centre and thread pieces **from both sides with diameters up to 250 and length 2000 mm.**

Two tool storehouses with up to 12 positions each and a large touch screen for keeping everything under control.



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV

ISO 9001

menti
MACHINE TOOLS



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