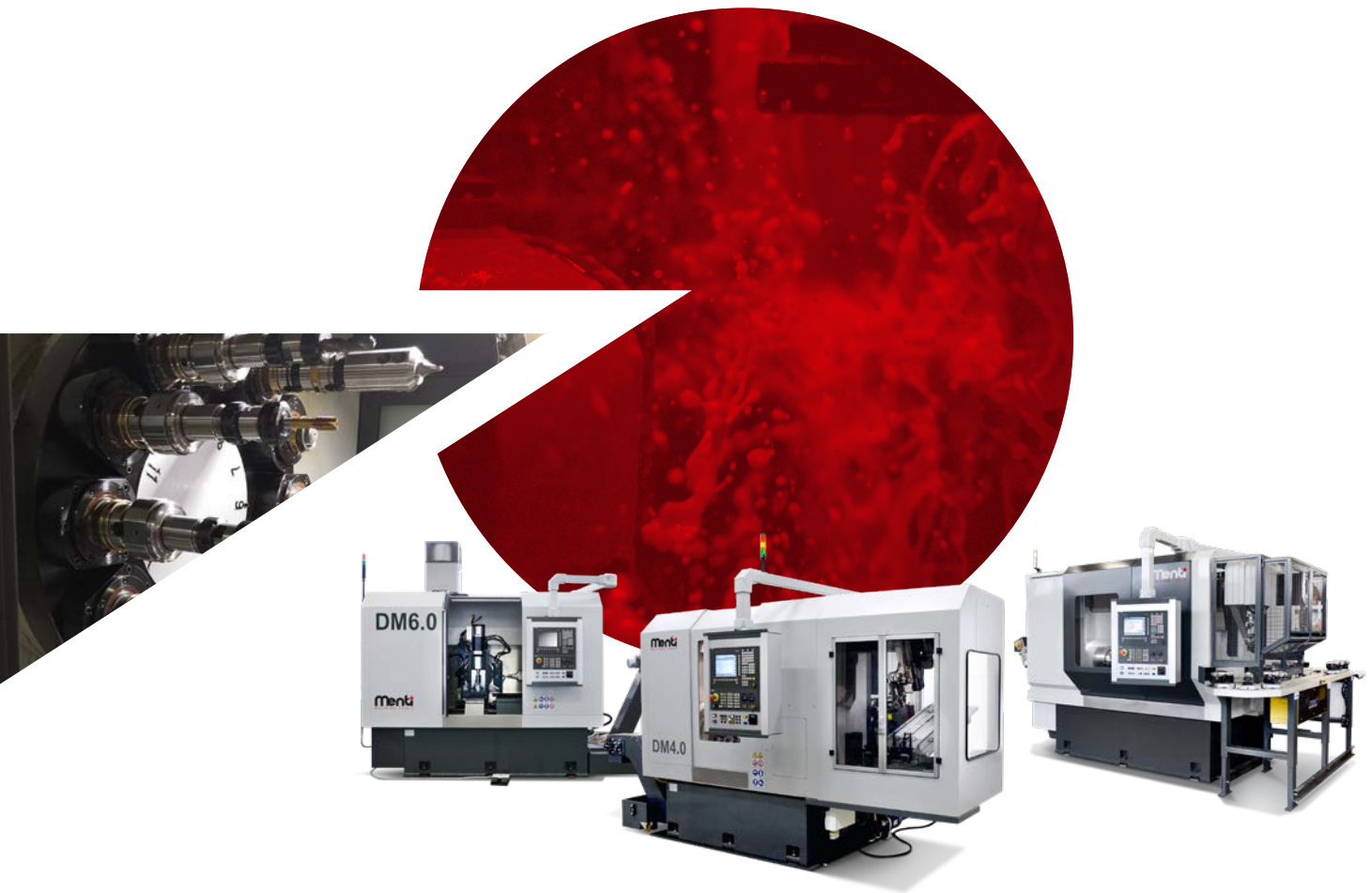


DM 4.0 / DM 6.0 / DM 8.0

GEAR HOBBING MACHINES



MENTI MACHINE TOOLS.

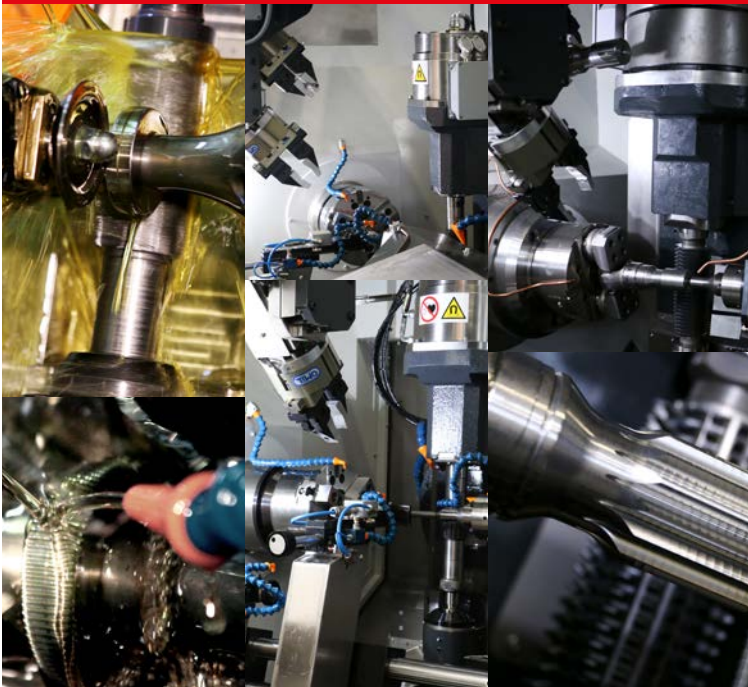
MENTI Machine Tools

designs and builds
gear hobbing machines, boring machines,
chromed shaft machines,
centring facing machines,
special customized machines.



OPTIONAL

- DEBURRING DEVICE
- SKIVING READING DEVICE
- LOAD / UNLOAD PORTAL
- SUPPLY WAREHOUSE
- TOOL MONITORING
- HOB EMERGENCY STOP AND RETRACT SYSTEM



GEAR HOBBING MACHINE DM 4.0

High performance and maximum precision machine.
Great for medium/high productions.



Representative images, version with load/unload portal

- Horizontal CNC gear hobbing machine, designed for the machining of small and medium gears, it can be equipped to mill worm screws.
- Its rigid structure and assembly with high-quality materials, allow a longer life of cutting edge, ensuring greater production with a single sharpening.
- Easy to equip and highly versatile to adapt to the customer's equipment.
- Software realized by us. It is simple, complete and intuitive and it can be adapted or implemented on specific requests.
- It can be supplied with an optional customizable loading and unloading system.
- Remote service, installable on request.
- Only 4m² ground area.
- CNC Siemens.

DATA SHEET

GEAR HOBBING MACHINE DM 4.0

Machine	
Max. diameter workpiece	Ø 140
Max. length workpiece	400 mm
Max. hobbing module	3
Min-max. distance between centers	10/120 mm
Axial travel (Z)	300 mm useful
Radial travel (X)	110 mm
Hob head	
Max. diameter hob	120 mm
Max. length hob	180 mm
Shift stroke (Y)	160 mm
Speed milling cutter (S)	4000 RPM
Swivel angle (A)	+ 45° - 45°
Spindle nose	ISO 30
Spindle torque	60 Nm
Slide	
Slide speed rotation	850 RPM
Slide bore	Ø 48
Slide torque	170 Nm
Axes	
Axis Z	15.000 mm/min
Axis X	15.000 mm/min.
Axis Y	5.000 mm/min.
Tailstock	
Tailstock travel (W)	300 mm
Max. power boost	750 daN
Dimensions (mm)	
Width, depth, height	2950 - 2050 - 2180

Some examples of products made



GEAR HOBBING MACHINE DM 6.0

Great compromise between power
and dynamism



- Horizontal CNC gear hobbing machine intended for small and medium sized hobbing, ideal for gears and splined shafts.
- The distance between the guides and the tool axis allows to accommodate pieces with large overall dimensions and permits the table to rotate freely.
- The solid structure ensures the best production standards and a longer life of cutting edge, allowing continuity of production and a significant increase in hourly profitability.
- The strength of this machine is the versatility of adapting to the customer's equipment for each individual production piece.
- The high shift stroke allows the housing of different combinations of tools and the realization on the single workpiece of multiple hobbing with a single set-up, without repositioning.
- The height of the table and the wide sliding doors are designed to allow an easy access to the operations of tooling or replacing workpieces.
- Software realized by us. It is simple, complete and intuitive and it can be adapted or implemented on specific requests.
- It can be supplied with an optional, customizable, double-arm loading and unloading system.
- Remote service, installable on request.
- CNC Siemens.

DATA SHEET

GEAR HOBBING MACHINE DM 6.0

Machine	
Max. diameter workpiece	Ø 300
Max. length workpiece	600 mm
Max. hobbing module	5
Min-max. distance between centers	10/200 mm
Axial travel (Z)	600 mm useful
Radial travel (X)	190 mm
Hob head	
Max. diameter hob	135 mm
Max. length hob	270 mm
Shift stroke (Y)	250 mm
Speed milling cutter (S)	2000 RPM
Swivel angle (A)	+ 45° - 45°
Spindle nose	ISO 30
Spindle torque	81 Nm
Slide	
Slide speed rotation	450 RPM
Slide bore	Ø 68
Slide torque	430 Nm
Axes	
Axis Z	12.000 mm/min.
Axis X	12.000 mm/min.
Axis Y	5.000 mm/min.
Tailstock	
Tailstock travel (W)	500 mm
Max. power boost	750 daN
Dimensions (mm)	
Width, depth, height	3680 - 2050 - 2190

Some examples of products made



GEAR HOBBING MACHINE DM 8.0

Robust guides and torque motors
for heavy machining.



- Horizontal CNC gear hobbing machine designed for hobbing up to module 8. Solidity and power are ensured by large guides and torque motors, for all types of hobbing.
- Detailed research on locking systems has improved the cutting hob duration, ensuring repeatability, precision and rigidity.
- The shifting axis allows the housing of several tools and it is managed to optimize the cooling down and consumption of the cutting edge.
- With the optional effort control and the quick tool release in case of excessive wear, emergency or power failure, the hob is preserved from expensive breakages.
- The height of the table and the wide sliding doors are designed to allow an easy access to the operations of tooling or replacing workpieces.
- The table can be equipped with all standard or customized dragging systems.
- Software realized by us. It is simple, complete and intuitive and it can be adapted or implemented on specific requests.
- It can be supplied with an optional, customizable, double-arm loading and unloading system.
- Remote service, installable on request.
- CNC Siemens.

DATA SHEET

GEAR HOBBING MACHINE DM 8.0

Machine	
Max. workpiece-diameter	Ø 220
Max. workpiece length	600 mm (1000-2000 optional)
Max. hobbing module	8
Min-max. distance between centers	10/160 mm
Axial travel (Z)	600 mm useful
Radial travel (X)	150 mm
Hob head	
Max. diameter hob	135 mm
Max. length hob	270 mm
Shift stroke (Y)	250 mm
Speed milling cutter (S)	1200 RPM
Swivel angle (A)	+ 45° - 45°
Spindle nose	ISO 40
Spindle torque	450 Nm
Slide	
Slide speed rotation	200 RPM
Slide bore	Ø 68
Slide torque	860 Nm
Axes	
Axis Z	12.000 mm/min.
Axis X	12.000 mm/min.
Axis Y	5.000 mm/min.
Tailstock	
Tailstock travel (W)	500 mm
Max. power boost	750 daN
Dimensions (mm)	
Width, depth, height	3960 - 2150 - 2380

Some examples of products made



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

menti
MACHINE TOOLS



The technical data and product characteristics in this catalogue are understood as indicative and non-binding. Therefore, M Services reserves the right to modify them at any time, without notice. The technical drawings and information contained in this document are owned by M Services Srl. Rights reserved for legal terms.

Menti Machine Tools / M Services Srl

Menti Machine Tools
is a brand of M Services S.r.l.



M Services s.r.l.

Via Silvio Pellico, 6
36075 Montecchio Maggiore (Vicenza) Italy
Tel. +39 (0)444 653004 - Fax. +39 (0)444 695123
sales@mentimachinetools.com
www.mentimachinetools.com