

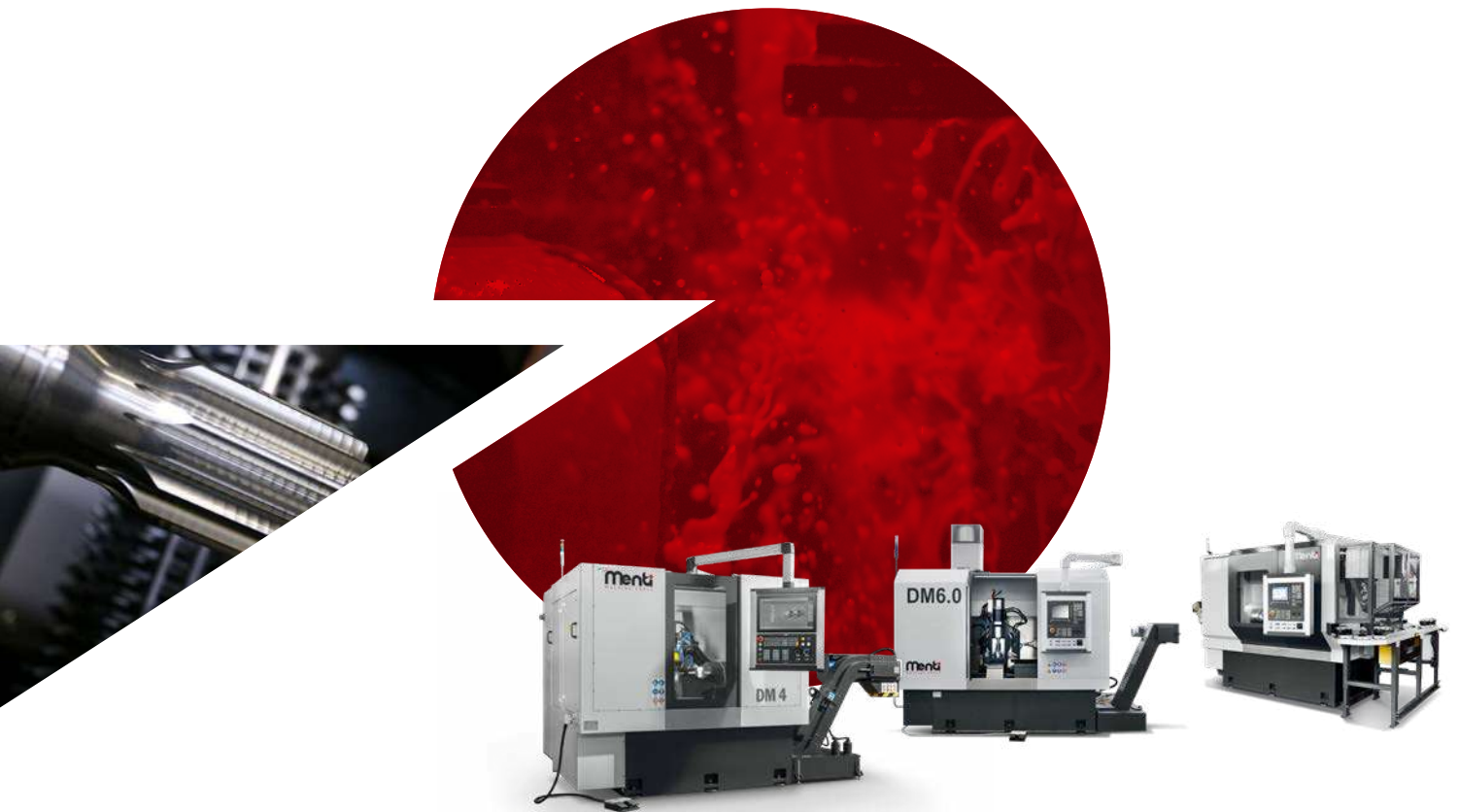
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SINCE 2000

Pointing to the future

ENG 

DM 4.0 / DM 6.0 / DM 8.0
HORIZONTAL

GEAR CUTTERS



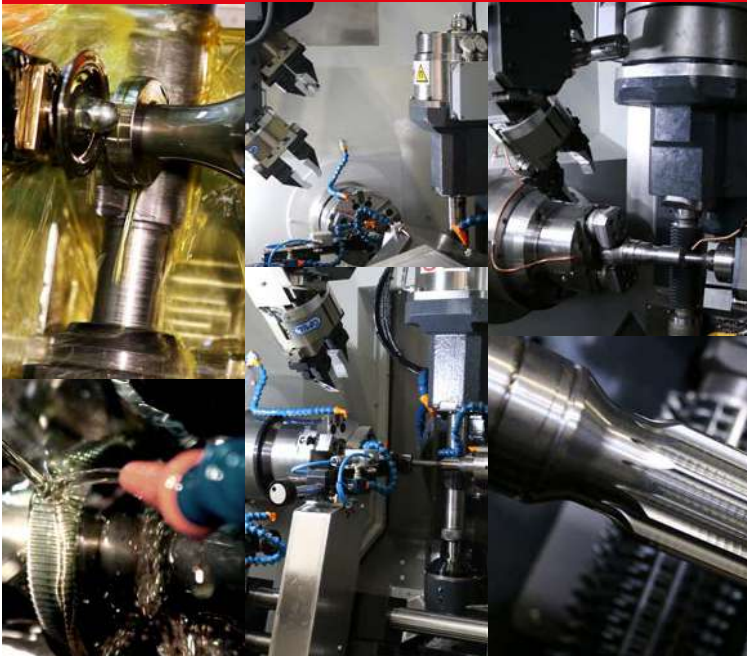
menti
MACHINE TOOLS

MENTI MACHINE TOOLS.

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

OPTIONAL ACCESSORIES

- DISC DEBURRING DEVICE
- SKIVING READING DEVICE
- LOADING AND UNLOADING PORTAL
- SUPPLY STORES
- TOOL CONTROL
- HOB EMERGENCY RETREAT AND SELF-SUFFICIENT RELEASE SYSTEM.





OUR GEAR-CUTTING SOLUTIONS

IT'S THE SMALL DETAILS THAT MAKE PROCESSING GREAT.

Since 2002 we have been designing and producing horizontal gear cutters with numeric control to make **small- and medium-sized teeth** that are ideal for splined gears and shafts.

Thanks to the distance between the guides and the spindle, our gear cutters can work with high-geometry pressed material while allowing the table to rotate freely.

The solid, strong structure of the machine guarantees the highest production standards and longer hob duration, permitting production continuity and an increase in hourly profitability. The strong point of these machines is their versatility, because they adapt to the client's equipment for every single production code.

The long run of the shift axis means that different tool combinations can be held and multiple teeth can be implemented in a unique set-up without having to reposition. The table height and the wide sliding doors have been studied to give comfortable access to the equipping or piece replacement operations.

In addition, our gear-cutters have a software package produced by us that is complete, intuitive, easy to implement, and which can be adapted or implemented according to specific requests. Each gear cutter can be supplied with an optional automatic loading and unloading system.

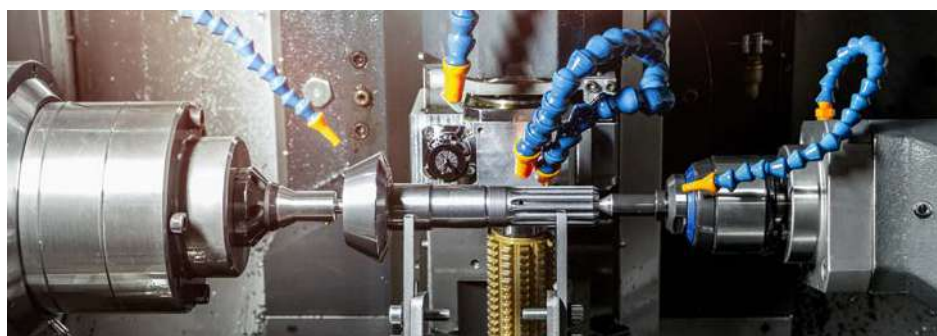
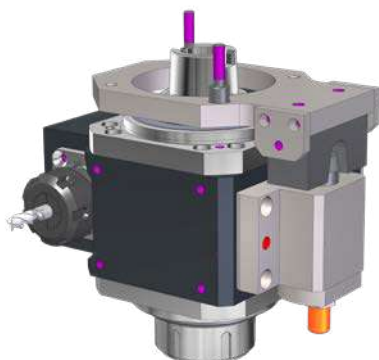
Each model has an on-board Siemens CNC.

Bevelling module for gear-cutters

With the patented bevelling module we can create bevels, transversal holes, milled pieces, key seats, etc. using the same machine, which notably shortens the cycle time.



**MENTI
PATENTED
SYSTEM**



GEAR CUTTER DM 4.0

High-performance and maximum precision,
small in size.

Siemens One control with a 22" touch screen
and easy operator interface.
With **Skiving** processing, a **high-precision laser**
reads the gear position for fast and effective
hub spindle synchronisation, all in a modern
design that is **small in size**.



Some examples of products made using our machines



GEAR CUTTER DM 6.0

Optimal compromise between power and dynamics.

GEAR CUTTER DM 8.0

Robust guides and high torque motors for heavy-duty processing.



		DM 4.0	DM 6.0	DM 8.0
Machine	Max. workpiece diameter	Ø 140	Ø 300	Ø 220
	Max. workpiece length	300 mm	600 mm	600 mm (1000-2000 optional)
	Max. tooth module	2.5 mm	6 mm	8 mm
	Min. tooth module	0.3 mm	0.5 mm	1 mm
	Min.-max. centre distances	10/120 mm	10/200 mm	10/160 mm
	Axis run (Z)	300 mm usable	600 mm usable	600 mm usable
	Radial run (X)	110 mm	190 mm	150 mm
Hob head	Max. hob diameter	80 mm	135 mm	135 mm
	Max. hob length	180 mm	270 mm	270 mm
	Axis shift run (Y)	160 mm	250 mm	250 mm
	Max. hob rotation speed	4000 RPM	1600 RPM	1200 RPM
	Spindle left/right inclin. angle (A)	+ 45° - 45°	+ 45° - 45°	+ 45° - 45°
	Hob spindle connection	ISO 30	ISO 30	ISO 40
	Hob spindle torque	25 Nm	168 Nm	450 Nm
Table	Table rotation speed	850 RPM	650 RPM	250 RPM
	Table hole	Ø 50	Ø 60	Ø 60
	Table motor torque	66 Nm	360 Nm	860 Nm
Axes	Z-axis rapid	12,000 mm/min	12,000 mm/min.	12,000 mm/min.
	X-axis rapid	12,000 mm/min.	12,000 mm/min.	12,000 mm/min.
	Y-axis rapid	5,000 mm/min.	5,000 mm/min.	5,000 mm/min.
Tailstock	Tailstock run (W)	300 mm	500 mm	500 mm
	Max. thrust force	500 daN	750 daN	750 daN
	Connection	CM 3	CM 5	CM 5
Cooling system	Pump capacity	L/min. 80	L/min. 80	L/min. 80
	Tank capacity	Lt. 160	Lt. 160	Lt. 160
Hydraulic control unit	Pump capacity	L/min. 12	L/min. 12	L/min. 12
	Tank capacity	Lt. 60	Lt. 60	Lt. 60
Size	Width, depth, heighta	2950 - 2050 - 2180	3680 - 2050 - 2190	3960 - 2150 - 2380
	Weight	Kg 6,200 approx.	Kg 8,300 approx.	Kg 10,500 approx.

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV

ISO 9001

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MACHINE TOOLS



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