



GEMINIS MAHER HOLDING

ALL IN ONE

ONE MACHINE **ALL PROCESSES:**

- ·Turning
- · Milling
- ·Boring
- · OD/ID grinding
- · Burnishing and fine machining
- · Deep hole drilling
- · CNC facing
- ·Hobbing
- · Others under request

ONE SET UP **ALL ADVANTAGES:**

- · Technological differentiation
- · Production increase
- · High accuracy
- · Maximum comfort
- · Customized solutions















Power transmission shaft



Landing gear machining





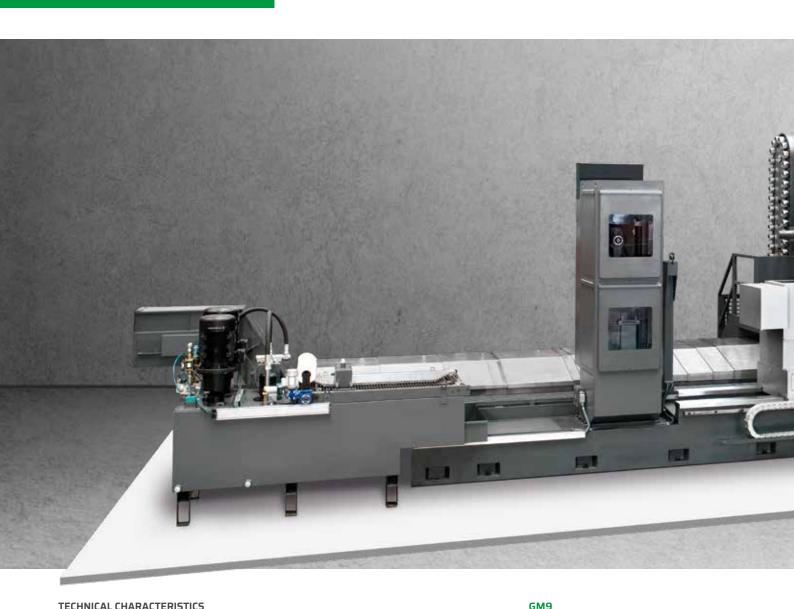


Turbine rotor shaft complete machining solutions



Crankshaft machining

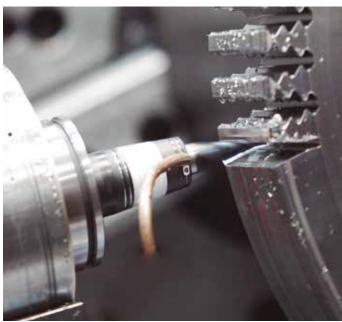
GM-9



TECHNICAL CHARACTERISTICS		GM9	
Max. turnable swing	mm	2.000 - 2.500	
Distance between centres	mm	1 - 24	
Main spindle power	kW	74 - 120	
Max. Torque	Nm	23.000 - 120.000	
C axis positioning accuracy	0	0,001	
Slides speed	m/min	20	
Vertical travel "Y"	mm	1.000 - 2.000	
Milling power	kW	37 - (52*)	
Milling torque	Nm	1.300 - (1.650*)	
Milling speed (2 ranges)	min-1	3.000 - (4.000*)	
Turn-milling toolholder		HSK 100 - (Capto C8*)	
Turn-milling head indexing degrees "a" and "b" axis		1 - (0,003*)	
Tool magazine		30 - 120	
Weight between centres	Kg	25.000 - 80.000	







Finishing of turbine Blade fir tree roots



Combined steady rests (hydrostatic & roller or babbitt contact type)

PRODUCTIVITY

- · Down time reduction due to one set up machining.
- · High dynamic slides & C axis.
- · Wide rango of machining heads .
- · Automatic head change (Pick Up).
- · Automatic tool change.
- · Ram system to access narrow areas.

ACCURACY

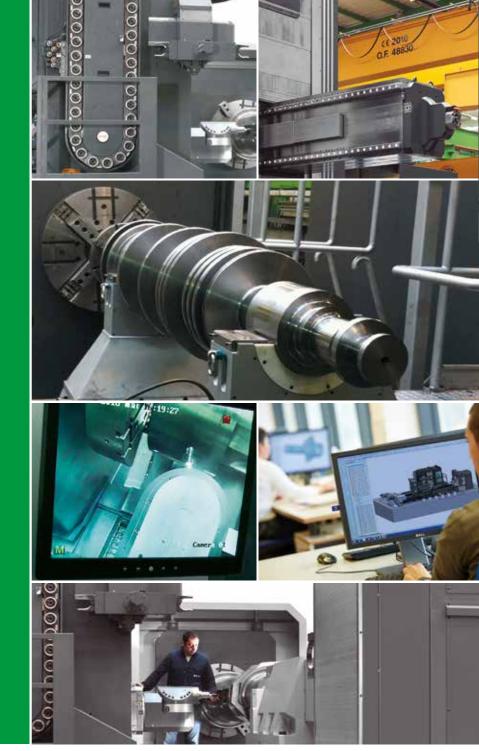
- · Failure minimisation due to one set up machining.
- · C axis Twin Drive system.
- · Specifically developed measuring cycles.
- · Thermal stability.
- · Linear scales.
- · Part and tool measuring probes.

COMFORT

- · Optimal view of working area.
- · Ergonomic position operator/work piece.
- · Adjustable control panel height.
- · PTZ video system.
- · Cabin temperature control (optional).
- GEMINIS Smart Factory Solutions (Smart HMI, Machine process and monitoring systems)

CUSTOMISATION

- · Turnkey projects.
- Customised solutions according to customer requirements by building quality and reliable machines.



OPTIONS AND SOLUTIONS:

- Wide range of heads (Indexing milling-turning, 5 axis continuous, horizontal milling, heavy duty turning, grinding, boring, ...)
- · Chucks (3 jaws closed, 4 jaws independent, self-centering, big bore, 2+2 power, heavy duty, large diameter, ...)
- Steadies (3&4 contacts closed, open, C type, self-centering, chuck type, sliding-roller- hydrostatic surface contact options, manual, automatic or programmable, ...)

CUSTOMER SUPPORT SERVICES

- Field services (installation, scheduled preventive maintenance, machine repair).
- Training (Electrical & mechanical maintenance, applications engineering, CNC programing, machine set up and operation).
- Machining consultancy (Support of machining, technology and methods).

GEMINIS MAHER HOLDING

OUR HEADS





5 axis machining

OD / ID Grinding





Horizontal milling

Heavy duty turning



Multitasking head - Deep hole drilling solutions



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