

PIETRO CARNAGHI

Gantry Milling Machines



UNIMILL

GANTRY MILLING MACHINES

PIETROCARNAGHI is producing vertical movable portal milling machines (GANTRY type) named Series UNIMILL since many decades. Characterized by extremely innovative technical solutions and with a high level of automation and quality, UNIMILL machines are designed and assembled with massive structures, with the movable portal sustained by means of hydrostatic guideways, including the movement of Y axis.

The distance between the columns arrives up to 13000 mm (42.65 ft) and the working floor plate arrives up to 10000 mm (32.8 ft) wide. Floor plate length is modular and it is defined by customer requirements.

The UNIMILL gantry milling machines can be equipped with an additional Turning table: the most complete solution for all the possible machining capabilities.





UNIMILL machines allow operation with pendulum concept: it is possible to have 2 separate areas on the floor table. One machining area, with protections and movable enclosures (optional) and one area to set up the part, that is accessible by means of bridge on the guideways covers.

During the design activity the main focus is on flexibility, to ensure the maximum productivity.

Fully automatic accessories and tools changing by tool chains, disk magazines or movable pick up systems.

A wide range of different accessories for milling operations are available.

MAIN APPLICATIONS

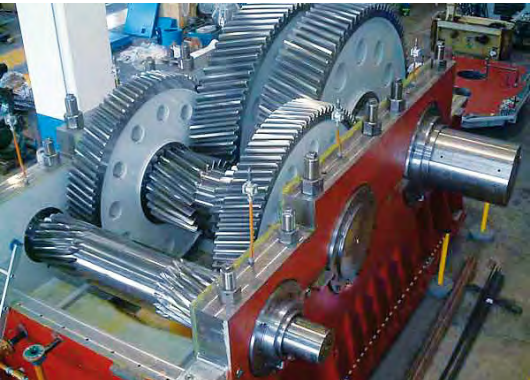
TURBINES



POWER PLANTS



GENERAL ENGINEERING



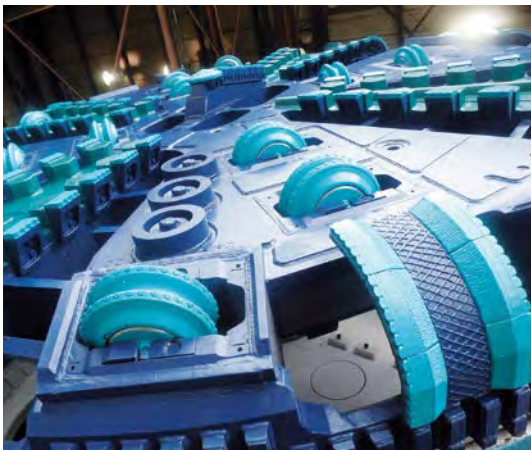
WIND POWER



*MINING AND EARTH
MOVING EQUIPMENT*

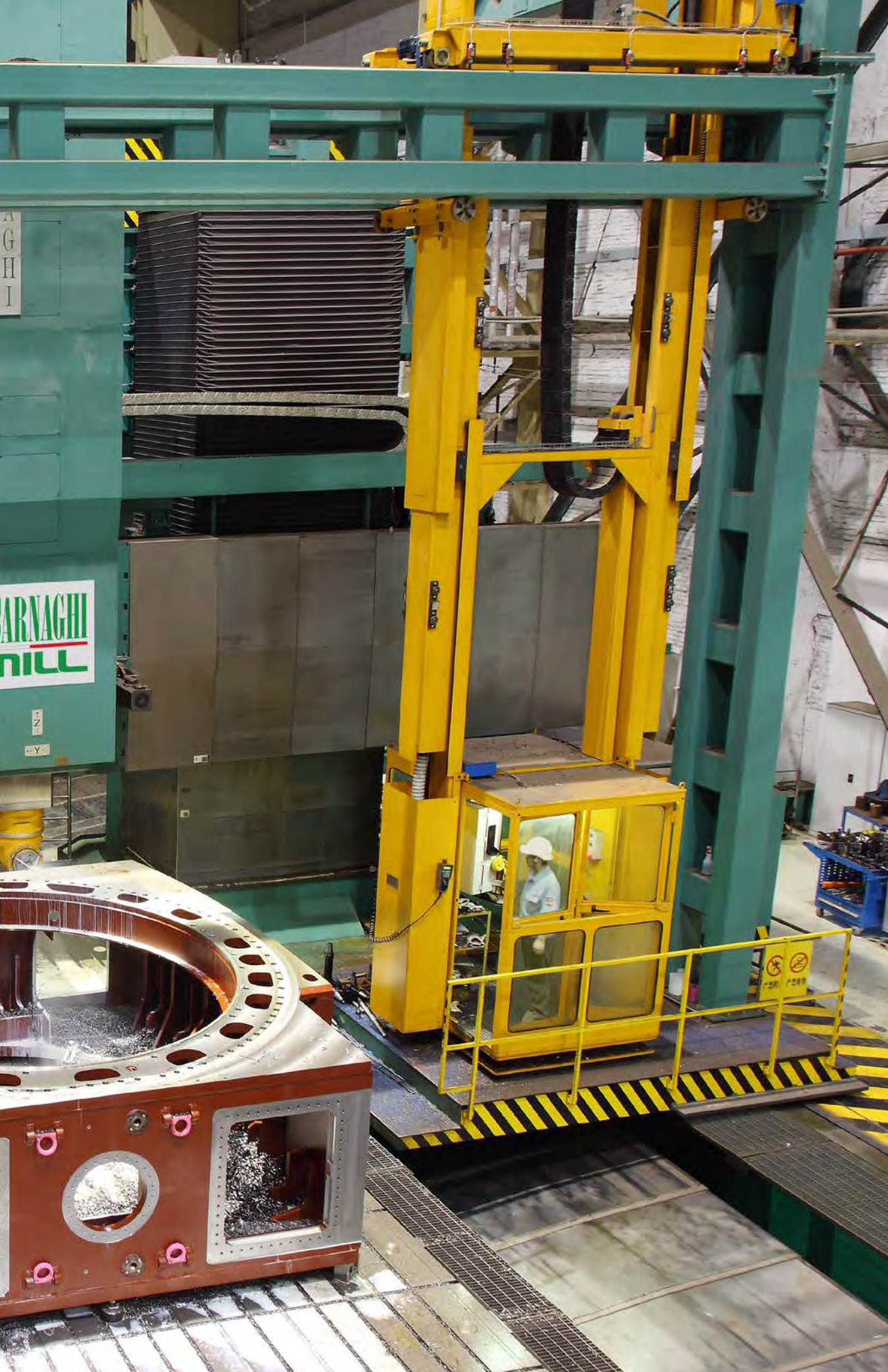


TUNNEL BORING MACHINE





GANTRY MILLING MACHINES
UNIMILL



GANTRY MILLING MACHINES

FRESATRICE A PORTALE MOBILE
PORTAL-BEARBEITUNGSZENTRUM
FRAISEUSE A PORTIQUE MOBILE

UNIMILL
SERIES

MAIN FEATURES

- All axes are hydrostatic, providing low wear and high vibration damping capabilities.
- High efficiency transmission: rack and double pinion type powered by twin motors, preloaded and controlled by CNC electronic card.
- Crossrail is designed and manufactured to absorb vibration and withstand severe cutting conditions.
- Heavy Milling capability: comprising high power and high torque spindle with either direct drive or gearbox solution.
- Large proportion rigid Hirth coupling connection for milling heads, accessories and toolholders.









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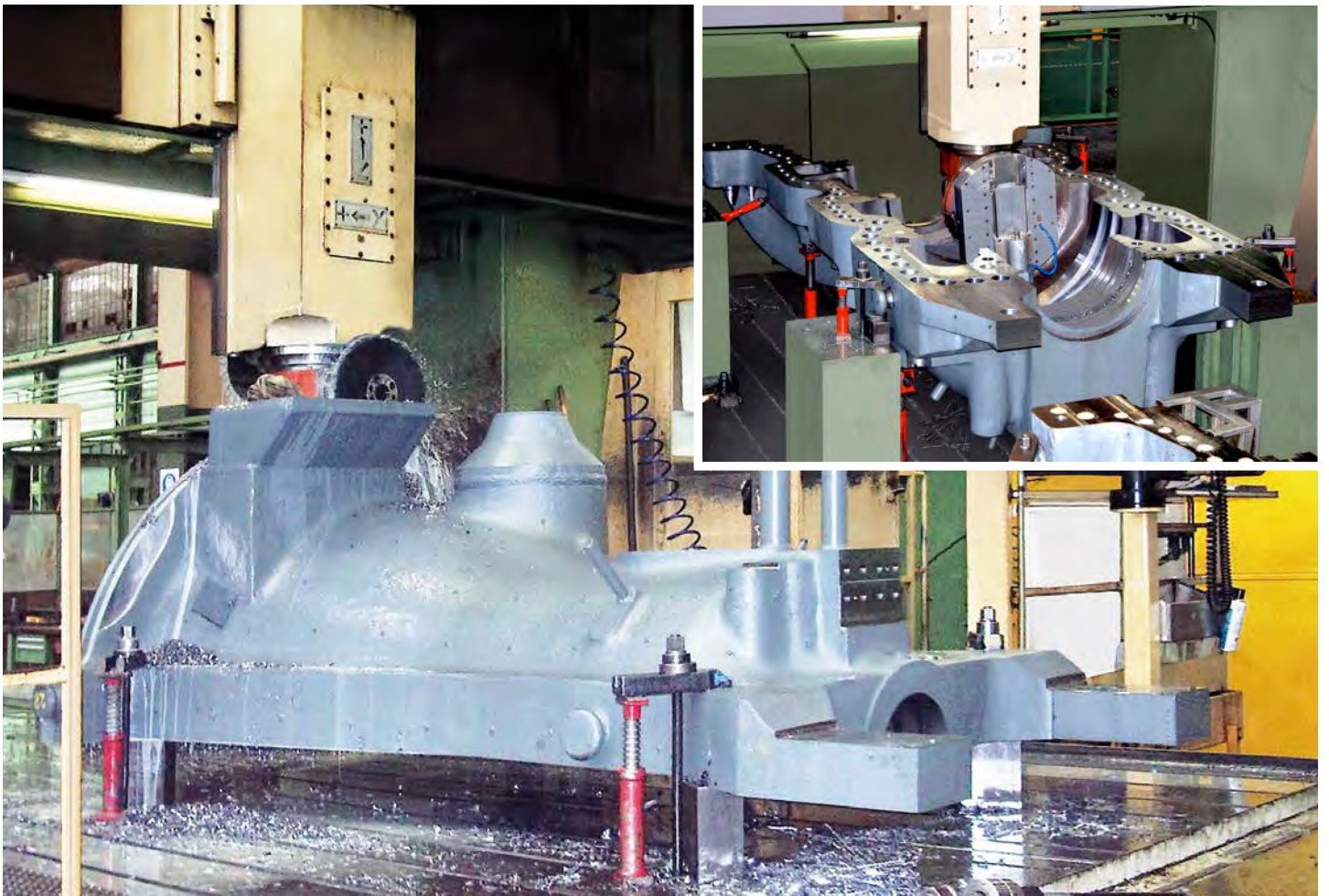
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MILLING ACCESSORIES



**VERTICAL
MILLING HEAD**



**HORIZONTAL
MILLING HEAD**



**UNIVERSAL
POSITIONING HEAD**



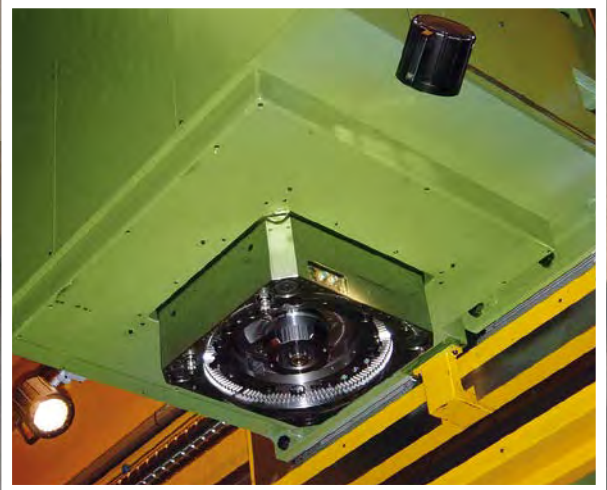
**VERTICAL
EXTENDED HEAD**



**BIROTATIVE
INDEXED HEAD**



**HIGH SPEED
UNIVERSAL HEAD**



HIRTH COUPLING CONNECTION FOR MILLING ACCESSORIES



FACING AND BORING HEAD

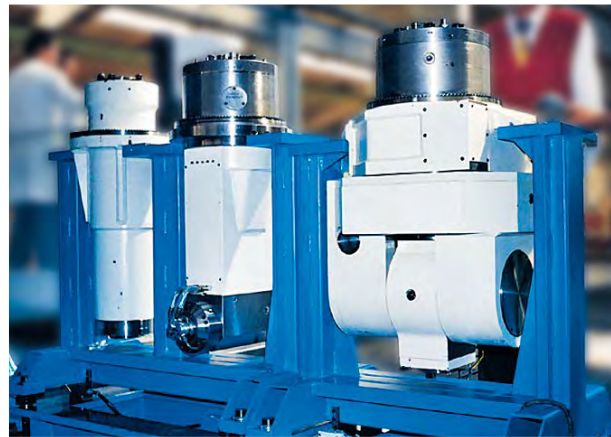
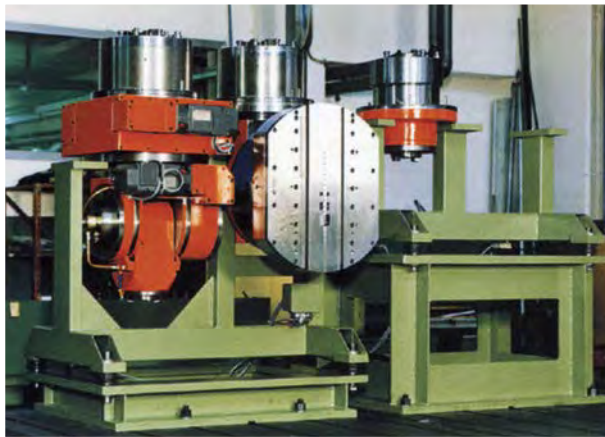


**UNIVERSAL HEAD
2 CONTINUOUS AXES**

AUTOMATIC CHANGE OF TOOLS

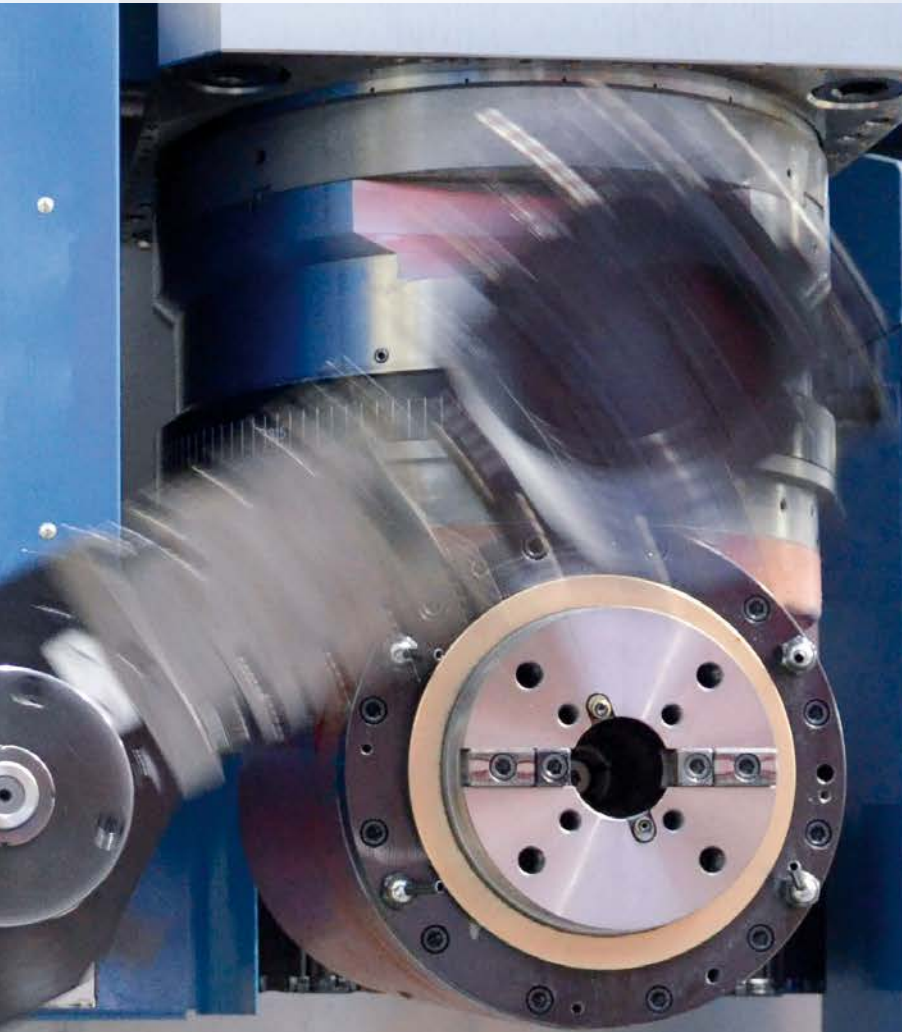


ACCESSORIES

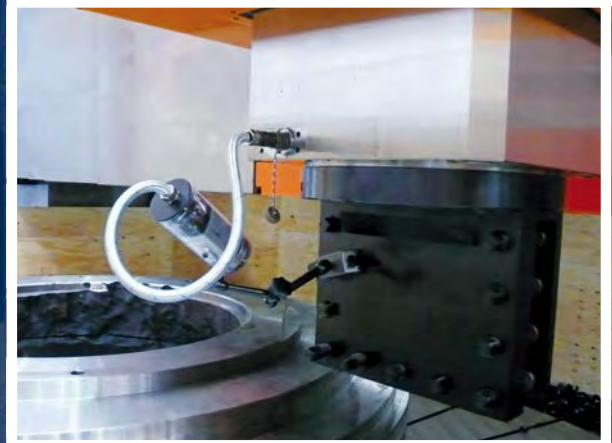


AUTOMATIC TROLLEY HEAD CHANGER

PROBES & OTHER ACCESSORIES



CAMERA ON CARRIAGE



CAMERA ON RAM



TURNING TOOL : PRESETTING



ROTATING TOOL : PRESETTING

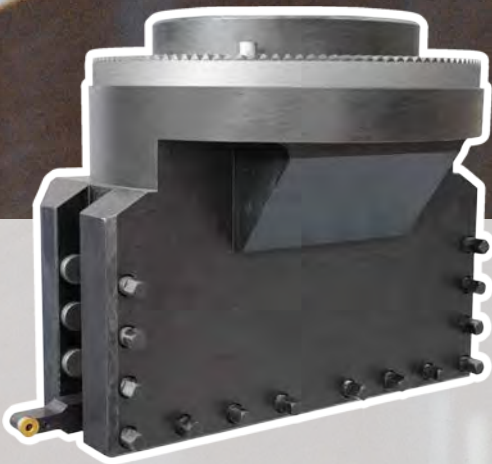


TURNING TABLE
UNIMILL

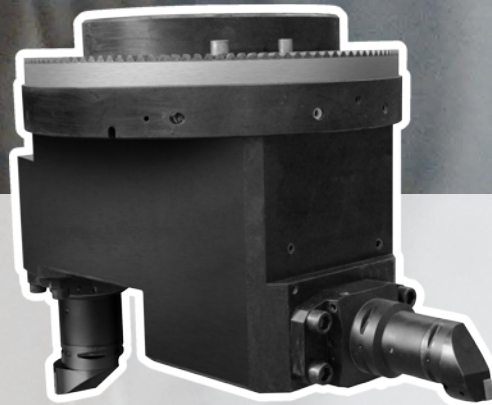
TURNING ACCESSORIES



TAILOR MADE
TOOLHOLDER



STANDARD
TOOLHOLDER



DOUBLE MODULAR
TOOLHOLDER



STANDARD
BORING BAR



PIETRO CARNAGHI

M a c h i n e T o o l s



COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =

