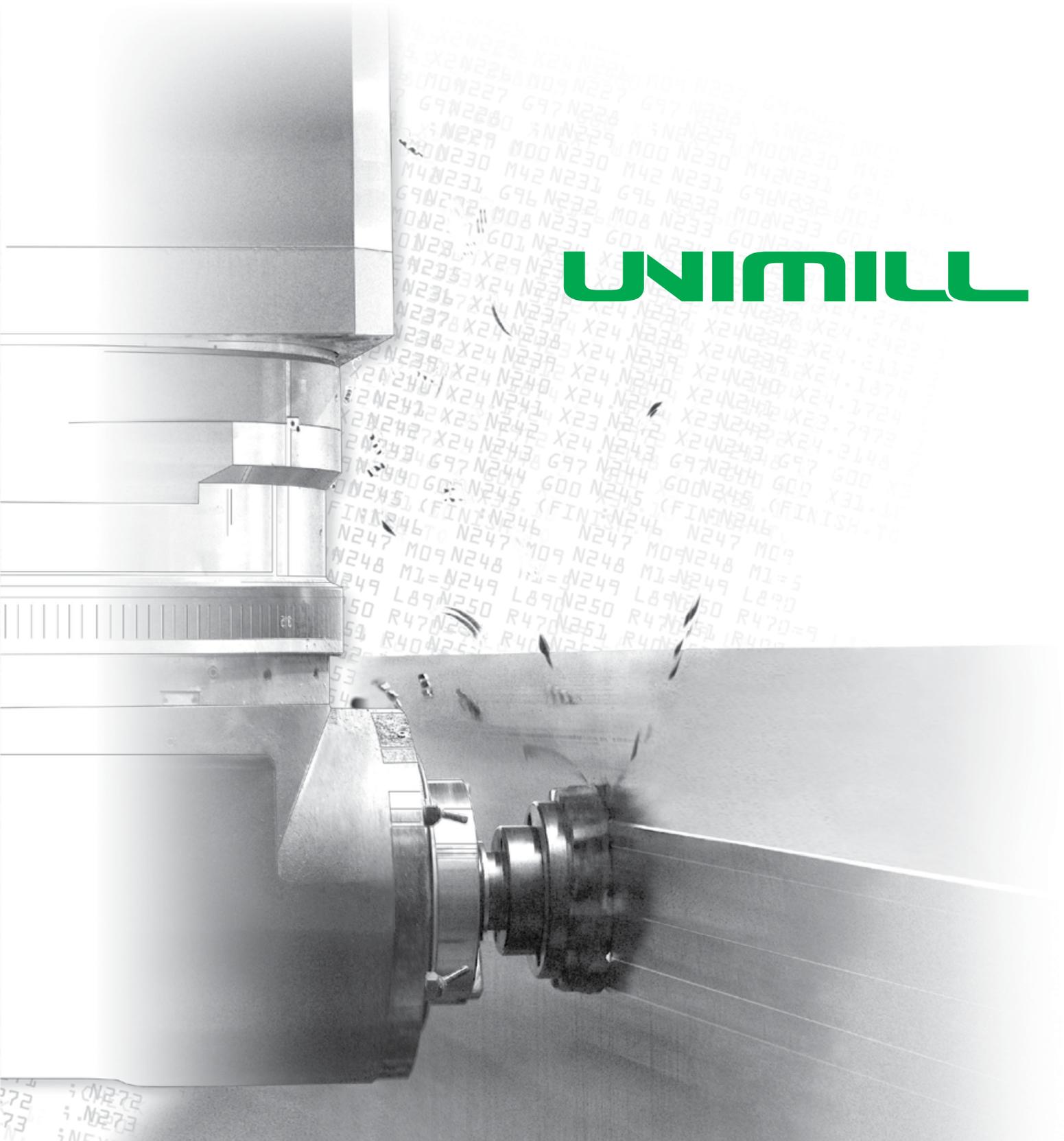


# PIETRO CARNAGHI

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*

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## *POWER PLANTS*

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## *GENERAL ENGINEERING*

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*WIND POWER*

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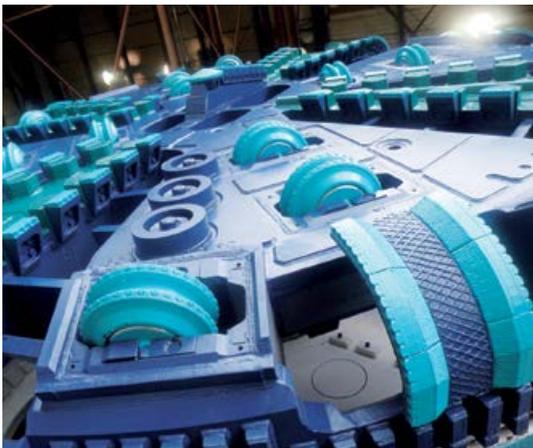
*MINING AND EARTH  
MOVING EQUIPMENT*

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*TUNNEL BORING MACHINE*

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UNIMILL

PIETROCARNAGHI

PIETRO  
UNIMILL



**GANTRY MILLING MACHINES**  
FRESATRICE A PORTALE MOBILE  
PORTAL-BEARBEITUNGSZENTRUM  
FRAISEUSE À 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.











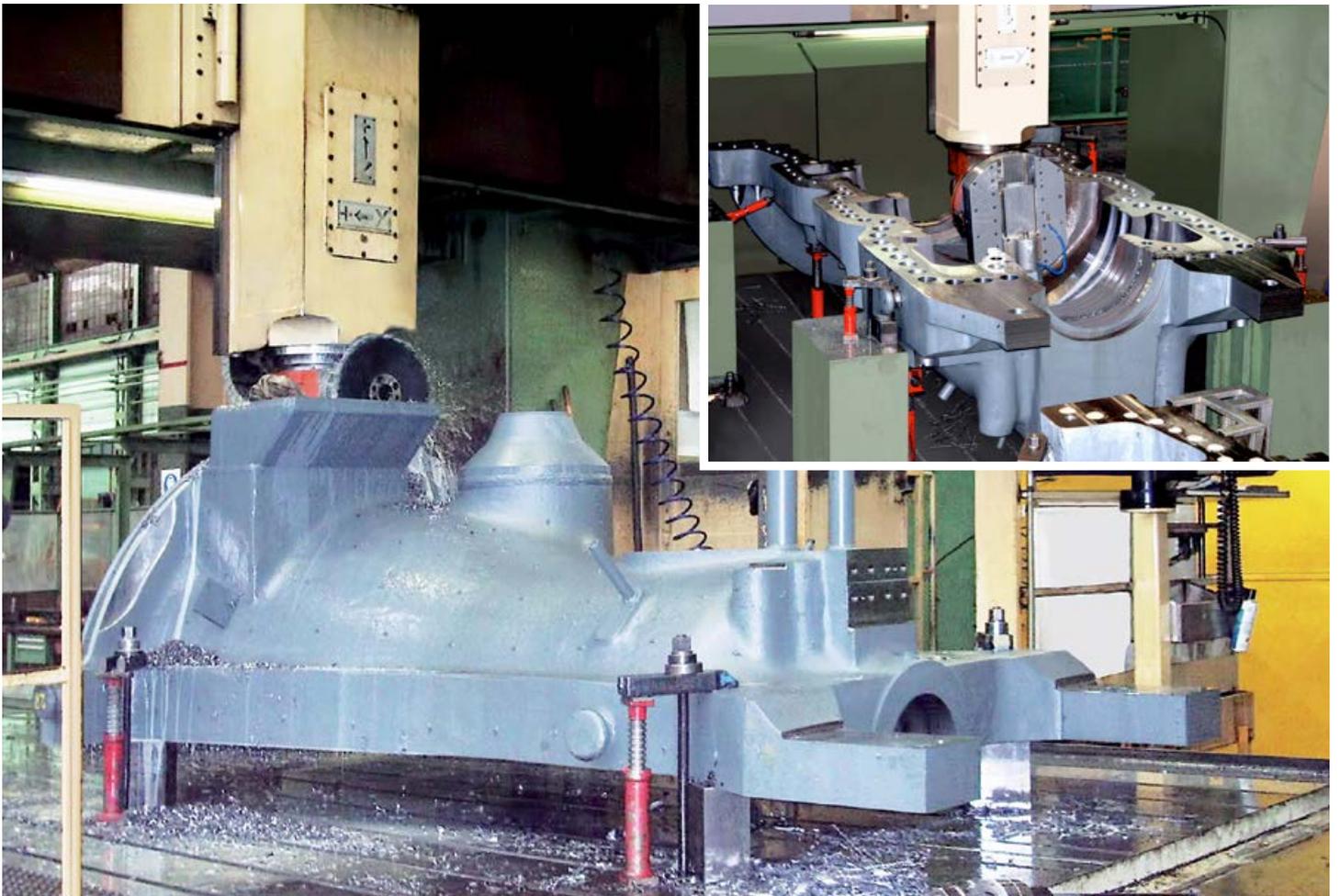
GANTRY MILLING MACHINES  
UNIMILL





GANTRY MILLING MACHINES  
UNIMILL





GANTRY MILLING MACHINES  
UNIMILL



# MILLING ACCESSORIES



**VERTICAL  
MILLING HEAD**



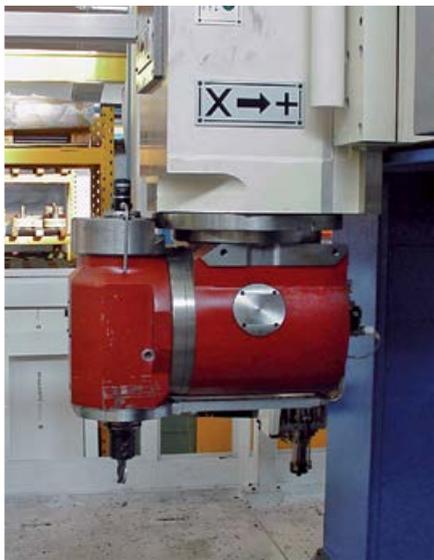
**HORIZONTAL  
MILLING HEAD**



**UNIVERSAL  
POSITIONING HEAD**



**VERTICAL  
EXTENDED HEAD**



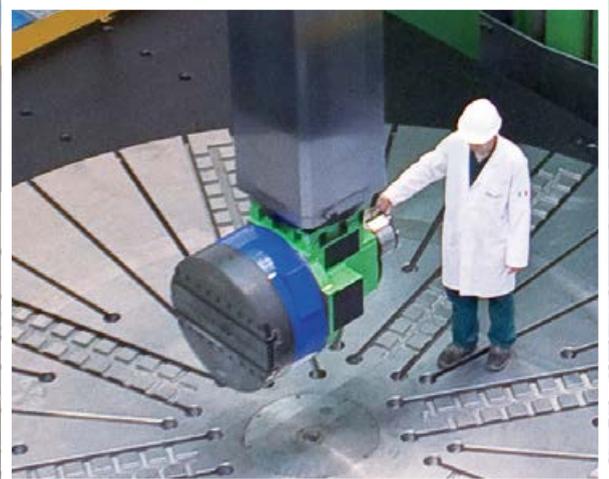
**BIROTATIVE  
INDEXED HEAD**



**HIGH SPEED  
UNIVERSAL HEAD**



**HIRTH COUPLING CONNECTION FOR MILLING ACCESSORIES**



**FACING AND BORING HEAD**

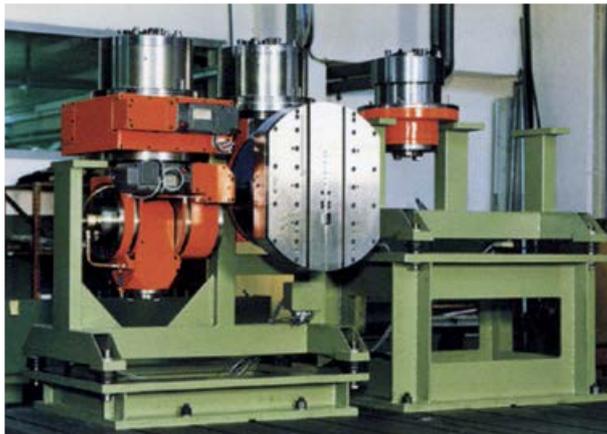


**UNIVERSAL HEAD  
2 CONTINUOUS AXES**

# AUTOMATIC CHANGE OF TOOLS

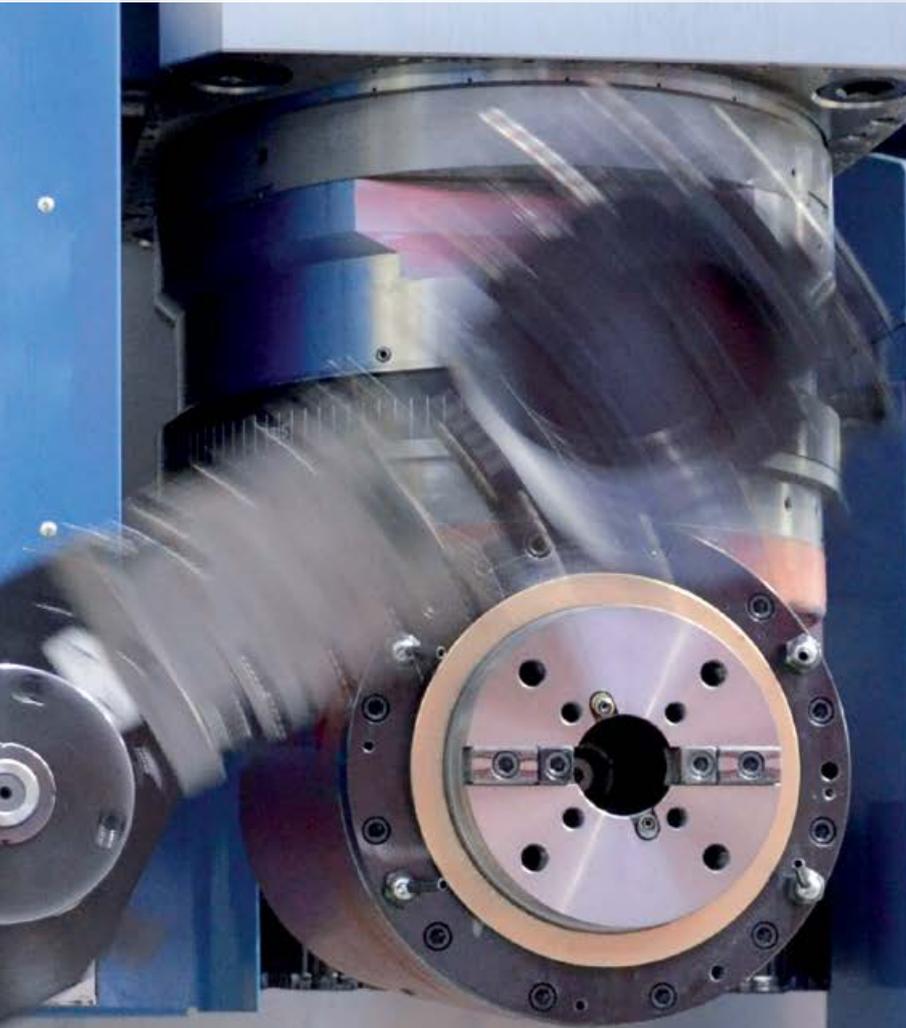


## ACCESSORIES



AUTOMATIC TROLLEY HEAD CHANGER

# PROBES & OTHER ACCESSORIES



CAMERA ON CARRIAGE



CAMERA ON RAM



TURNING TOOL : PRESETTING



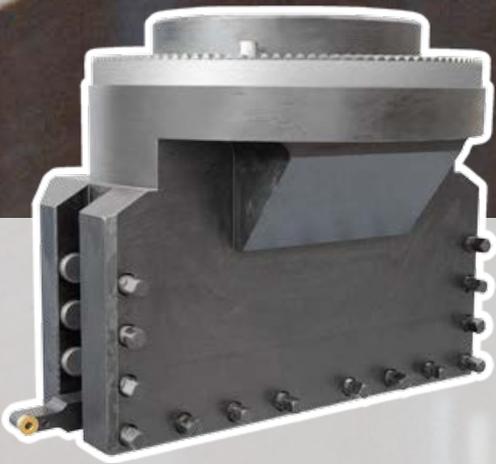
ROTATING TOOL : PRESETTING



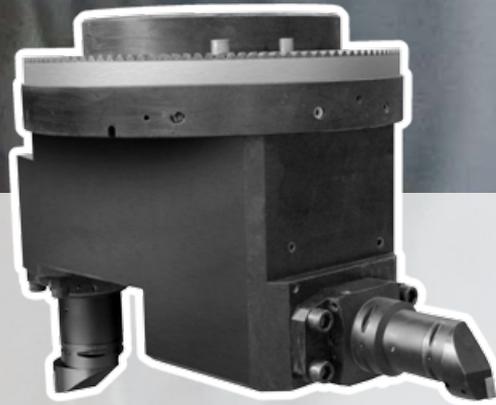
# TURNING ACCESSORIES



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 =

