



***MTE* MILLING
MACHINES**

Innovative technologies designed for a global market

Flexibility to develop highly customised projects

Founded in the cradle of the machine tool in 1994 by a team with decades of experience in the industry, MTE is a young, dynamic company specialised in providing customised solutions for each customer. Our main plant is located in Gipuzkoa, an area recognised by the most demanding international markets.

The entire process is developed at our recently built 6.000 m² plant. From machine design to final assembly, including the whole range of milling heads.

We manufacture all the structural cast parts in close collaboration with local foundries that are specialists in machine tools. Consequently, we obtain components of the highest quality that give our machines excellent stability and precision.

All of this, together with our team's extensive experience and their degree of commitment to the company, means we offer a top quality product. As our main market with more than 800 machines installed, we have a branch in Montabaur, Germany's industrial heartland.



Headquarters Itziar, Gipuzkoa, Spain



Branch office Montabaur, Germany



Project analysis

In communication with the customer, we study their needs and propose the best machine and configuration solution.

Machine design

We first develop a design based on the information gathered with the customer. After approval, we create 3D models that simulate the installation in detail.

Manufacturing

Our machines are assembled under the most demanding quality standards. The machining and grinding of structural pieces is verified and monitored at every step to achieve a top quality product. All components are assembled following protocols designed by our quality department.

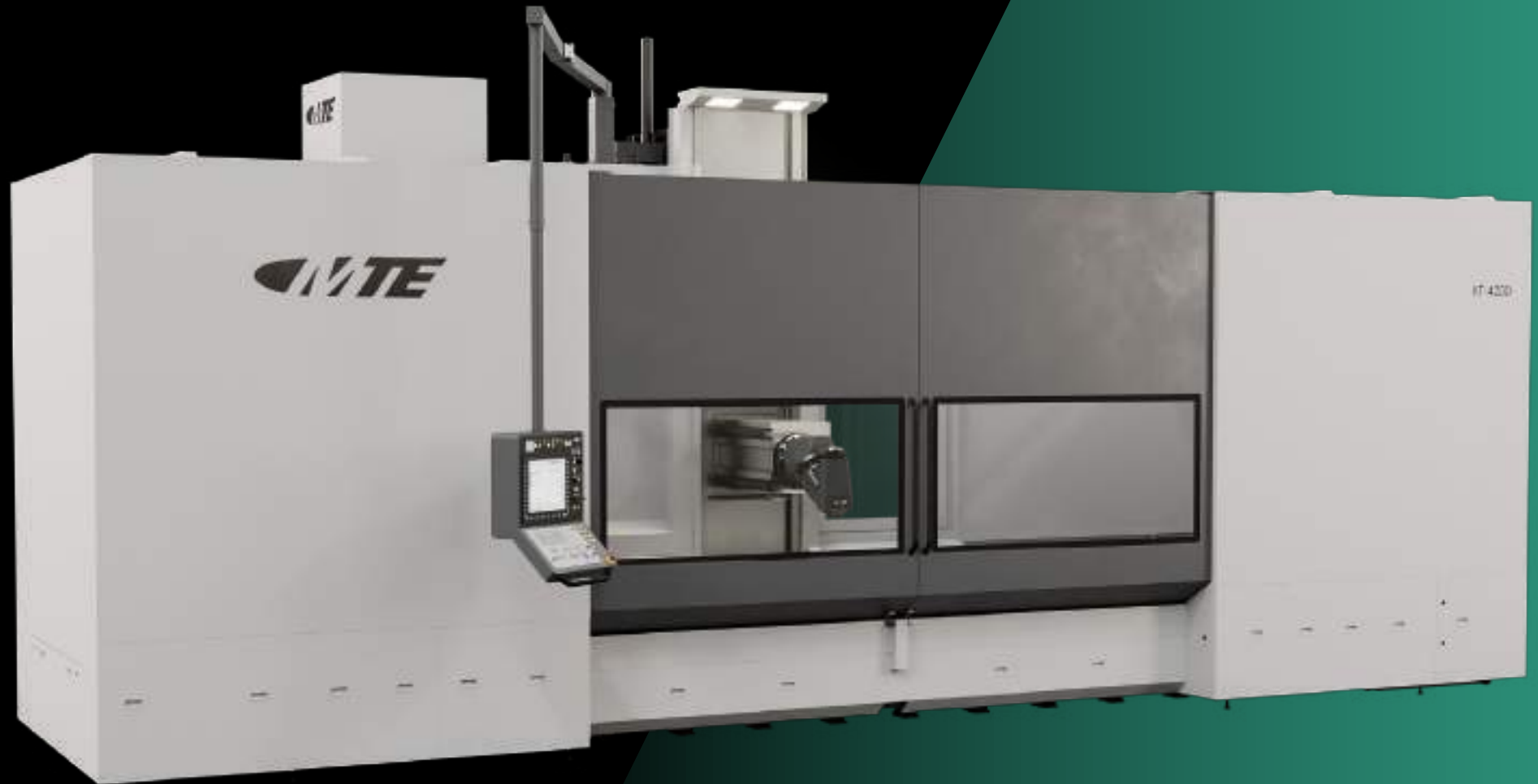
Verification

All our machines are tested together with the end customer at our facilities and before shipment.

Commissioning

In the final phase of the project, experienced specialists carry out the installation, commissioning and final verification of the machine at the customer's premises.

KT SERIES





TRAVELS

X axis: 2.000 - 5.000 mm (longitudinal)

Y axis: 1.500 - 1.600 mm (cross)

Z axis: 1.500 - 2.000 mm (vertical)

TABLE

2.200 - 5.200 x 1.200 / 1.400 mm

Optionally integrated rotary table for milling / turning

MAIN SPINDLE

Power: 32 / 40 / 43 kW

Speed: 4.000 / 6.000 rpm

FEEDS

Maximum: 25.000 mm/min

MILLING HEADS



MFK



AFK



BFK



SFK



OFK

The **KT series** is the BT series' big sister, both in terms of size and features. A larger resizing allows to reach a transverse travel up to 1.600 mm. As in the BT models, it can be equipped with rotary tables of different types with positioning and turning functions.



Standard equipment

- Manual cooled head 4,000 rpm (MFK)
- CNC Heidenhain TNC 640 / TNC 7
- 19 inch touch screen
- Heidenhain direct linear scales (pressurised in SB and FBF models)
- HR-510 electronic handwheel
- Integrated security system
- CNC moveable panel front and back work area (except SB and FBF models)
- Automatic lubrication system
- CE standard enclosure
- External cooling equipment
- Electrical cabinet cooling unit (except K and BF models)
- Hydraulic counterbalance system
- Tool change pedal or ram button
- Working light with LED technology
- Precision levelling elements (except K and BF models)

Optional equipment

- Automatic head change system (for SB and FBF models)
- Other CNC: Fagor 8065M, Siemens Sinumerik ONE and Fanuc 31iB-Plus
- 2nd CNC panel in the front area
- Wireless handwheel
- Teleservice
- Random type 24 tools vertical changer
- Horizontal / vertical chain type tool change: 40, 60, 80, 100 tools
- Advanced tool magazine management
- Chip conveyors
- Coolant through the spindle 20/50 bar with pressure adjustment
- Magnetic drum filtering / Oil band skimmer + micro-oxygenator
- Air through nozzles and the spindle
- Coolant spray gun for cleaning
- 4th axis rotary tables / tailstocks
- Turning rotary tables
- Tool and piece probes: Hexagon M&H, Heidenhain, Blum and Renishaw
- Laser tool probes
- Brankamp-Artis Collision Monitoring System integrated in CNC
- MQL systems
- Pendular working system (for SB and FBF models)
- Vertical/horizontal movable operator cabin (for FBF-M and FBF-X models)
- Perimeter enclosure without or with roof (for bed type models)
- Spinning windows
- Exhaust extraction equipment (for bed type models and perimeter enclosure with roof)
- Automatic doors (for bed type models and perimeter enclosures)
- Machine status light tower

MTE Milling heads

Designed for each application

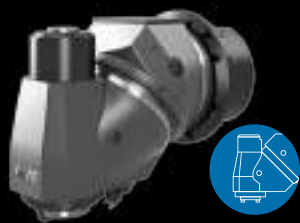


MFK Manual milling head

Index: Manual



MFK



AFK Automatic milling head

Index: Hirth coupling
Shaft B 2,5° / Shaft A 2,5° (opción 1°)



AFK



BFK Automatic milling head

Index: Hirth coupling
Shaft B 0,01° / Shaft A 0,01°



BFK

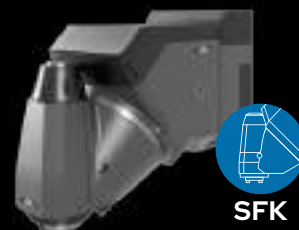


CFK Turning head

Tool holder for CAPTO C5 / C6 / C8
Automatic tool clamping in horizontal and vertical positions



CFK



SFK Automatic milling head

Index: Hirth coupling
Shaft B 0,001° / Shaft A 0,001°



SFK



OFK Orthogonal milling head

Index: Hirth coupling
Shaft B 1° / Shaft A 1°



OFK



HFK Direct output

Rod length: 225 - 500 mm
Outside diameter: 198 mm



HFK

Taper: SK-50 DIN69871 Big Plus®

Pool stud: ISO7388 2A

MTE Technologies

Finding solutions positions us at the cutting edge of the industry

Advanced Rotary Table Management



In machines with a pendular working mode, it enables the manipulation of rotary tables in parallel. Including cycles developed by MTE to find centre of rotary tables and plane displacement.

Advanced Tool Management



System designed for safe access to the tool magazine. Enables handling of stored tools during the machining process to maximise efficiency.

Tool Center Calibration



Cycles developed by MTE to optimise small head compensations. In combination with a probe and precise hardware, the machine is capable of self-calibration.

ECO mode



This technology avoids waste of energy, thereby achieving greater efficiency and helping the user to meet their environmental targets and reduce cost in the process.

Remote Service



In order to provide support and reduce costs, this solution enables secure and direct remote access to the machine, via a physically switchable VPN tunnel.

Automatic Head Changing system



Stored in a closed station the heads are automatically exchanged according to the needs of each application. These cycles are exclusive for SB and FBF machines.



Providing a customised service is our hallmark

Technical support

Our specialists and engineers are always available to help with any needs you may have. Whether it is maintenance of our milling machines or finding a way to improve processes, we will be happy to help.

Providing a customised service is our hallmark; it drives us to keep on improving and finding solutions that position us at the cutting edge of the industry. Such as our Remote Service, which we use to resolve operating issues instantly and remotely.

Spare parts in stock

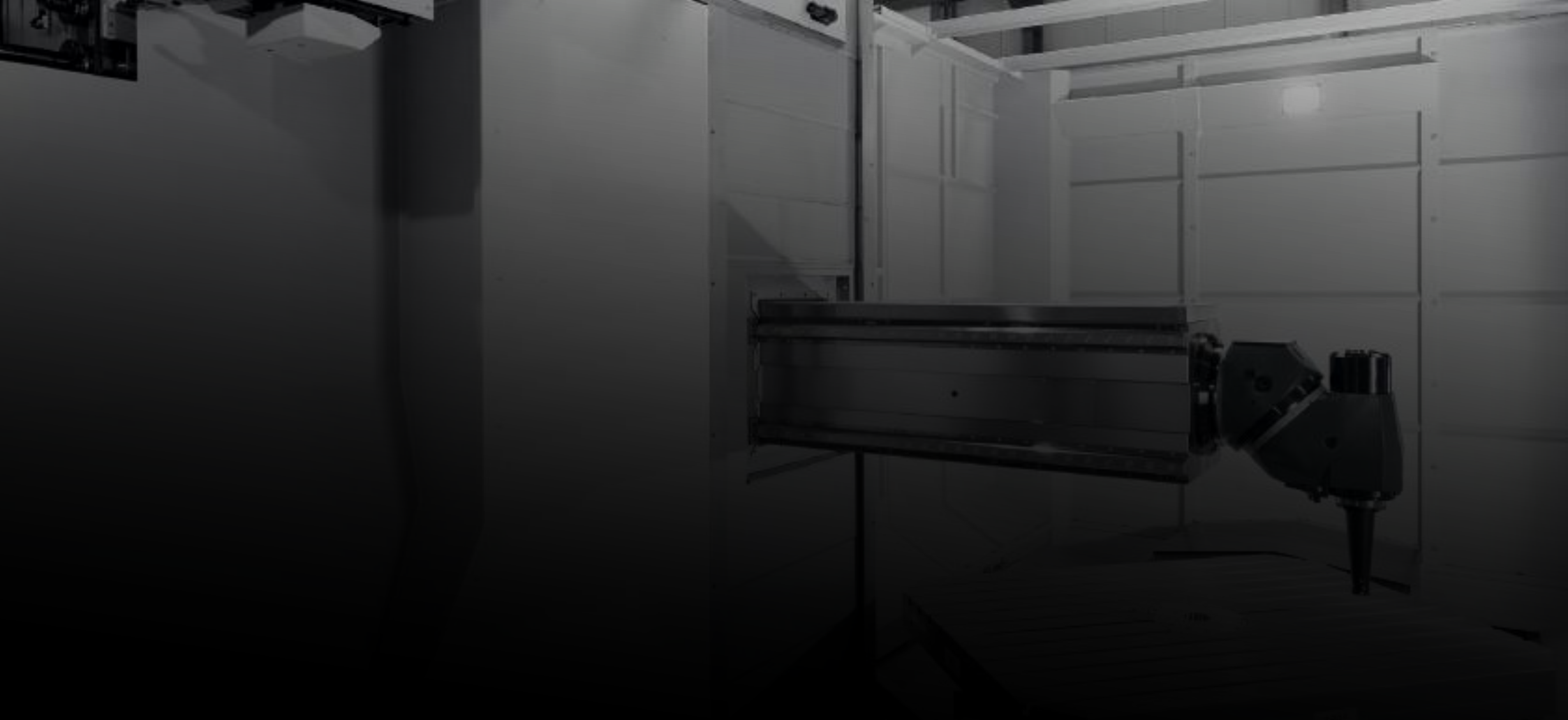
We have the necessary spare parts in stock to provide a fast, immediate service. Therefore our customers can keep on working with the peace of mind that comes from having their equipment performing optimally with verified parts.

Milling head maintenance

We have specialists and state-of-the-art resources to maintain and repair our MTE milling heads. Once the heads have been repaired, they are tested on our test benches before being sent to our customers.

Milling head replacement and rental

To avoid machine downtime as much as possible, we offer a milling head replacement and rental service. We have all the range of MTE milling heads available for if a head is being repaired or there is a one-off need.



MTE MILLING MACHINES

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* We reserve the right to carry out technical modifications, which serve to improve the technical development of the machine. For these reasons, all technical data in our advertisements, catalogues etc. are non-obligatory.