

# LIFETIME PRECISION GUARANTEED

GENERAL CATALOG

**Vertical lathes**  
for integrated production processes



**FAMAR**



# Precision & speed, from the 1st to 10,000,000th machined part.

From the blank to the finished piece, the best system for your specific production.

Every job and every order is unique and has its own specifications in terms of time, production numbers and technical requirements.

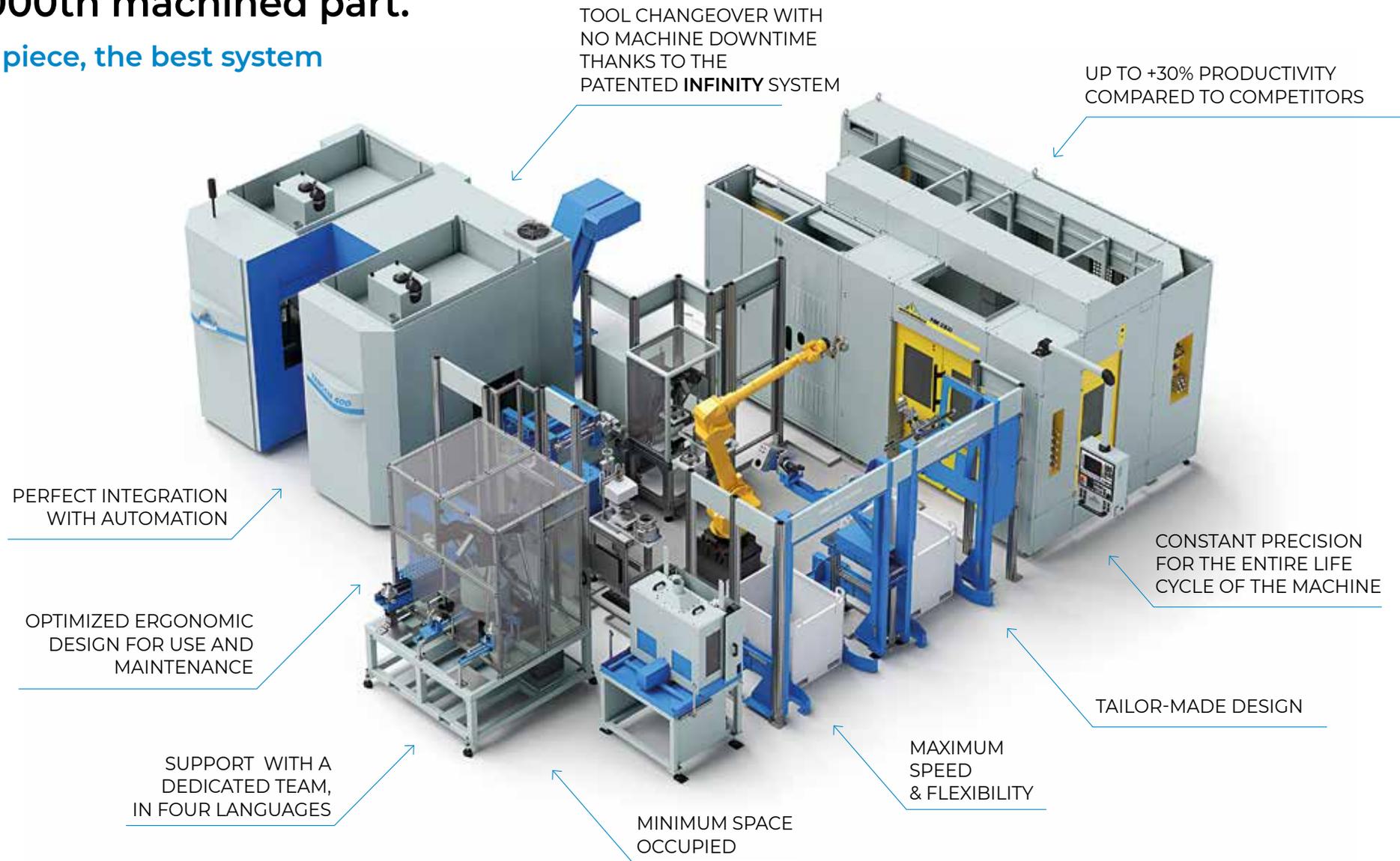
With forty years' experience in machine tools, Famar designs and produces ultra-high quality and precision vertical lathes, tailor-made for specific orders.

Choosing Famar means:

- **Complete design**, from the feasibility study to the best production solution, the manufacture of the machine and pre-testing at Famar's premises or your site.
- Optimized **ergonomic design and ease of use**.
- **Dedicated** support team in **four languages**, including on-site support.
- **Guaranteed overhaul** of used Famar machines.
- Availability of **spare parts**.
- **Training courses** for operators and maintenance technicians.

Your work is important: don't settle for a standard machine that is "second best".

**Choose Famar: the perfect solution tailor-made to your production requirements.**



## FAMAR GROUP



**5 DIVISIONS:**  
 FAMAR <<  
 FAUSTO MARINELLO <<  
 FAMAR AUTOMATIONS <<  
 FAMAR WERKZEUGMASCHINEN <<  
 FAMAR MACHINERY LTD. <<

**CERTIFICATIONS:**  
 ISO 45001 <<  
 ISO 9001 <<  
 ISO 14001 <<

200

— FAMAR VERTICAL LATHES

215

Ergo

260

315

400

415

500

630

815

1250



### The best solution for all machining needs

Guarantees utmost flexibility of use, making it an ideal choice for both small businesses and major manufacturers, as a stand-alone machine or inserted into a production line.

*The best solution for all types of machining needs from turning and drilling to milling, hobbing and grinding. All your needs in one machine.*

TURNING CAPACITY	200	1250
maximum chuck $\varnothing$	mm 210	→ 1300
maximum part length	mm 200	→ 800
turnable $\varnothing$	mm 170	→ 1200

200

215

Tandem

260

315

400

415

500

630



EFFICIENCY



### Double the power and productivity

Two independent pallet conveyors feed the work area and loading system, enabling output to be doubled, complete machining to be carried out in two stages or two different parts to be machined.

*Big on productivity but small on size, ideal for producing high-precision parts.*

TURNING CAPACITY	200	415
maximum chuck $\varnothing$	mm 290	→ 470
maximum part length	mm 200	→ 300
turnable $\varnothing$	mm 170	→ 400



Sub 160 2g  
biSub 160 2g  
Sub Nano 3g  
**Sub**



+

**SPEED**

**Loading and unloading in just 3 seconds**

Highly productive and compact with cutting-edge automation technology for ultra-fast loading-unloading.

*biSUB: doubles output or machines one part in two stages.*

*SUB Nano: loading-unloading in zero seconds thanks to the pendulum system of the two spindles.*

TURNING CAPACITY	NANO		SUB
maximum chuck $\varnothing$	mm 135	→	175
maximum part length	mm 65	→	120
turnable $\varnothing$	mm 100	→	140

+

**OPTIMIZED ERGONOMIC DESIGN**

to reduce machine downtime to a minimum even in the unlikely event of a fault.



# 6 Ciao



# Maxer & Ergo

Maxer 400  
Ergo 260 CL  
500 CL  
815 CL



STABILITY

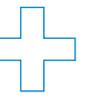


## Automation and machining, together

Excellent performance and minimum investment. High stability (with a unique bedframe). Dynamic axes and excellent ease of use.

*For small and large batches and all types of machining operations. The right balance between flexibility and output.*

TURNING CAPACITY		6
maximum chuck $\varnothing$	→	\
maximum part length	→	mm 240
turnable $\varnothing$	→	mm 260



FLEXIBILITY



## Complex machining operations, in a single set-up

With an additional spindle on the Y axis for complex milling, drilling, boring operations even outside the axis of rotation of the workpiece.

*The best choice in terms of overall size and production flexibility in their category.*

TURNING CAPACITY	260CL	815CL
maximum chuck $\varnothing$	mm 260 →	800
maximum part length	mm 240 →	500
turnable $\varnothing$	mm 350 →	850

OPTION

# Infinity



Tool changeover  
in zero time



## Reduction of up to +30% per year in tool changeover efficiency

In Famar Infinity machines, the worn tool is replaced in “hidden” time during loading/unloading.

The machine downtime for manually replacing tools has been cut to zero, with a drastic reduction in discarded parts in the tool setting operations.

Infinity - **an exclusive Famar patent** - is an innovation without precedent that simplifies, speeds up, rationalises and makes the work process infinitely more productive.

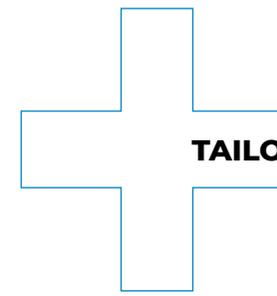


FIND OUT ABOUT  
INFINITY!  
REQUEST  
THE CATALOGUE

## SIMPLE GESTURE, DEDICATED SOFTWARE

The tool magazine is external and can hold identical tools or tools for different operations, without the need to manually retool.

Management of worn tools and indexed tool replacement. Extremely easy to use with Famar’s dedicated software.



## TAILOR-MADE DESIGN WITH ADDITIONAL OPTIONS



### OPTION Z

Electric spindle with gear hobbing or skiving unit for turning and hobbing of the workpiece in one or two operations.



### OPTION G

Turning and grinding in a single set-up: less grinding time and dressing frequency for diamond wheels and more production flexibility.



### OPTION 2T

For Ergo 260/500 with dedicated bedframe. A second turret driven by its own independent X1-axis allows multiple drilling/tapping operations with variable pitch diameters.



### OPTION Y

A third controlled axis, mounted on the bedframe, enabling the transverse movement of the turret with variable strokes base on the model, allowing machining outside the axis of rotation of the workpiece.



### OPTION L

The elongated bedframe means you can add work units and perform other operations on the workpiece.



All these options  
are available on the  
**ERGO and/or  
TANDEM lines**

To find out more,  
contact  
[info@famargroup.com](mailto:info@famargroup.com)

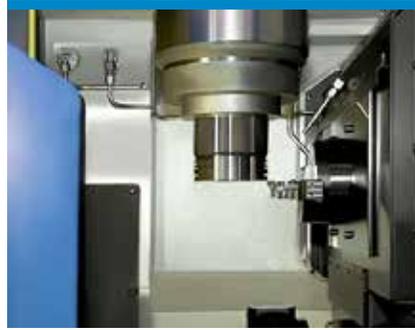
# SPECIAL Solutions

— FAMAR VERTICAL LATHES



## FCP

The live center mounted on the bedframe and the tool turret featuring an additional X1-axis enable the machining of crankshafts, pistons, and constant-velocity joints



## OT

Building on Famar's extensive experience in the machining of pistons, this solution is designed for non-cylindrical machining, for oval piston turning with micrometric precision.



## DH

Machining gearbox interiors is no longer a problem with this extremely precise application, which cuts down machining times while maintaining high accuracy and productivity.



## MG

Featuring a CNC horizontal pivot for hard and soft milling operations and for grinding constant-velocity track joints in a single set-up, with major capex savings and minimum bulk.



### IN-PROCESS METER

A sensor can be installed immediately outside the work area. This allows for constant control of the production quotas and extreme machining stability, automatically correcting tolerance drift due to worn tools. Thanks to this device, the tools can be automatically and simply pre-set in the machine.



# SPECIAL Applications



Excellent machining quality for each specific workpiece, minimum investment.

## DANCING

With hydraulic or CNC operation, it has been designed for the simultaneous facing of two surfaces. When the machining operation has finished, the upper insert mechanism detaches releasing the workpiece.



## ROLLING HEADS

They can be fitted on the turret or as a dedicated unit fixed to the machine bedframe. This application allows you to perform roller forming directly on Famar lathes, avoiding a resetting operation.



## DEDICATED MULTIPLE HEADS

Implemented based on the workpiece being machined, they are installed on dedicated drives fixed directly to the machine bedframe.



## MULTIPLE HEADS IN TURRET

Implemented based on the workpiece being machined, they are installed on dedicated drives fixed directly to the machine bedframe.



## MULTIPLE TOOLS

Specifically developed to eliminate turret rotation to switch from one tool to another, thus guaranteeing a reduction in cycle time.





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