

COMPACT

ACCESSIBLE

FM 252 i

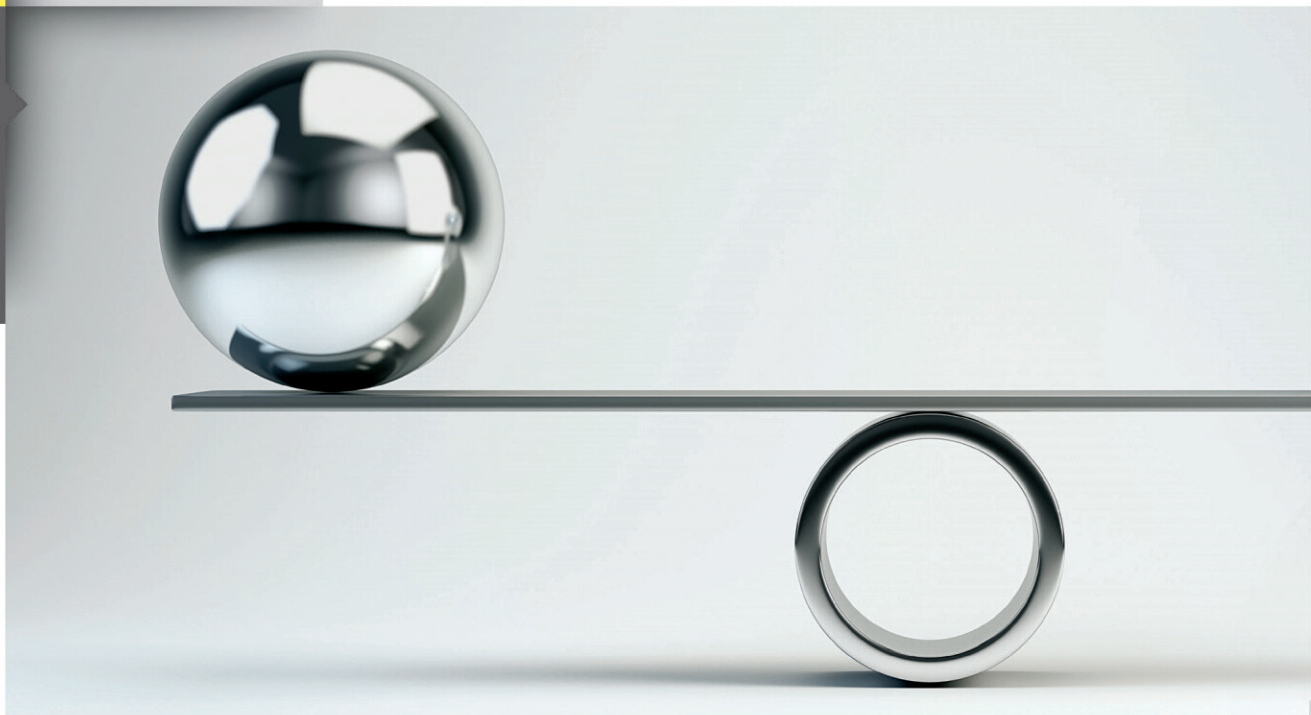


A FAMAR GROUP COMPANY

COMPACT

ACCESSIBLE

VERSATILE



The perfect balance between technology and compactness

We retought the Working Centre, to offer the best available technology, enriched with new and functional advantages.

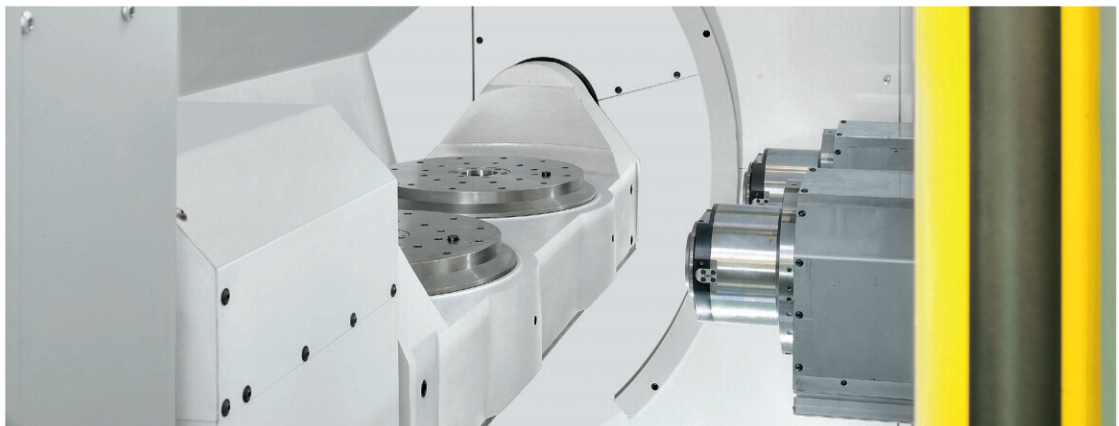
The **new Horizontal Machining Centre FM 252 i** is designed to provide maximum **productivity** and **flexibility** from medium to high production volumes, with the possibility of **customizing** the machine according to the **Customer's requests**.

FM 252 i is therefore the perfect balance

between **technology, compactness and accessibility**.

The size of the **FM 252 i** also allows the arrangement of **machining lines in less space**, resulting in higher productivity and more savings.



FM 252 i ensures an **accessibility** never achieved before by a Machining Centre, for the **operator**, for the spindles and for any mechanical, electrical or hydraulic **maintenance**.





FAUSTO MARINELLO

FM 252 i

SANTAMBROGIO  





THE HIGHEST LEVEL OF TECHNOLOGY

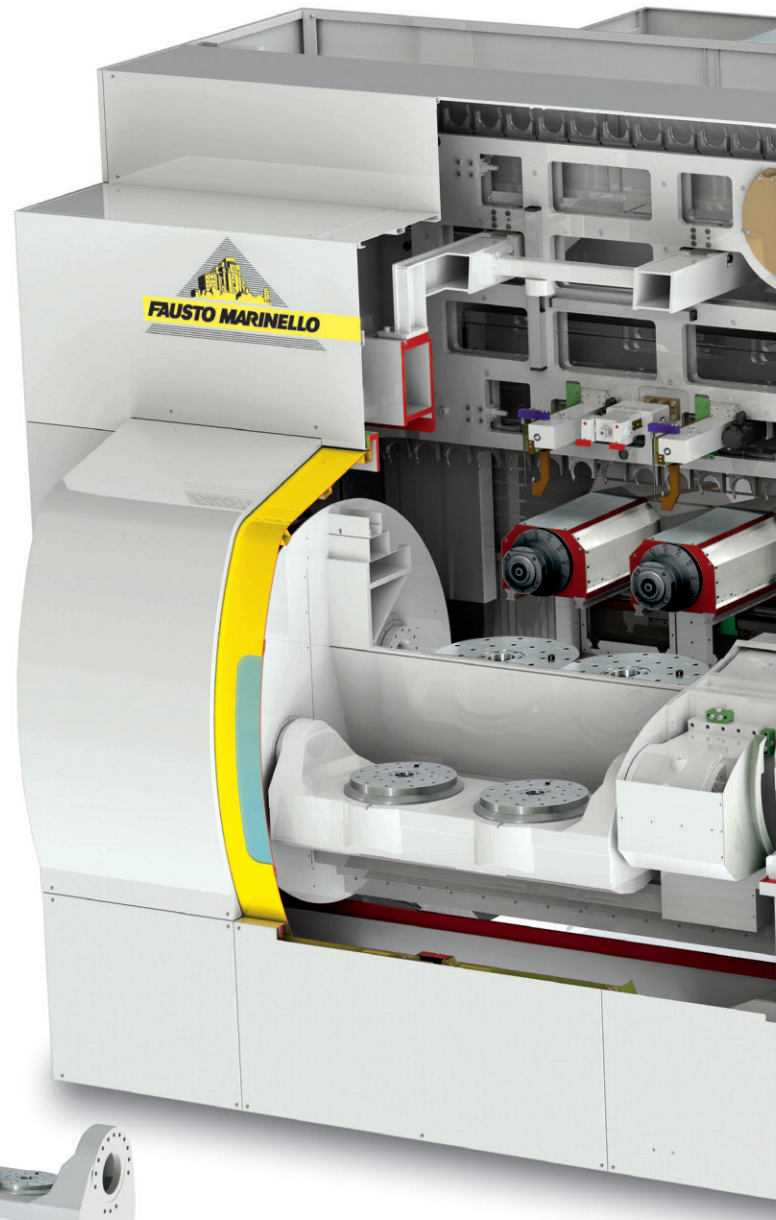
The technology of the **FM 252 i** Machining Centre provides axis speeds of up to **90 m/1'** with accelerations of up to **15 m/s²**, so as to have minimum travel time between one machining operation and the next.

In addition, the possibility to configure the machine with a **pallet changer**, with **4th axis** or **4th and 5th axes**, together with **HSK63** or **HSK80** high-speed electro-spindles.

This makes the **FM 252 i** ideal for machining both **aluminium and ferrous materials**.

The Machining Centre is designed to provide a **tool change time of less than 4 seconds**, so as to reduce production times.

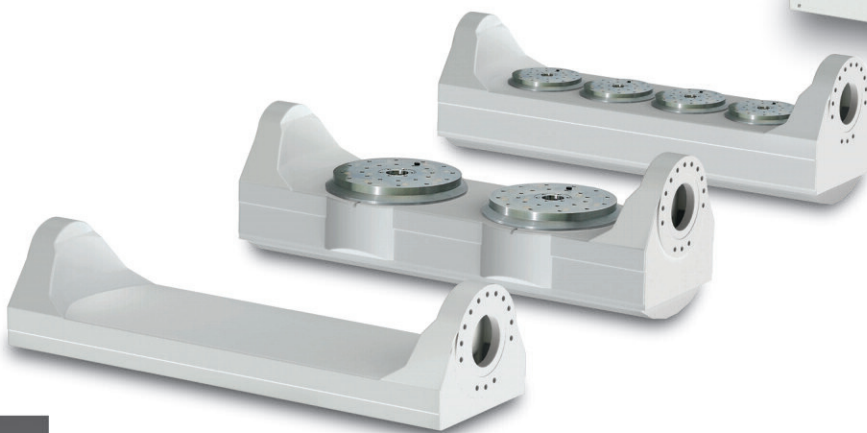
The electric opening of the doors, allows the use of **any loading and unloading system** needed for optimizing production. With robotic, manual or gantry systems.



THE HIGHEST STABILITY

The bedframe of the **FM 252 i** Machining Centre is built from a single, electro welded normalized steel lattice structure.

The polymer cement that fills the bedframe confers **high stiffness and minimizes thermal dilations**. This guarantees extremely accurate machining, with **maximum vibration absorption**.



Accessible technology

In its standard version, **FM 252 i** is equipped with a **module fitted with a 4th axis**, with the **possibility of adding a 5th optional axis**.

The **"box in the box"** central structure has its heart in the spindle carriage, which performs its movements along the X axis with linear guides.

Even the vertical Y axis runs on directly driven linear guides. In the central carriage two independent Z axes, complete with electro-spindles, allow to adjust any incorrect pre-set tool and to perform high precision machining.

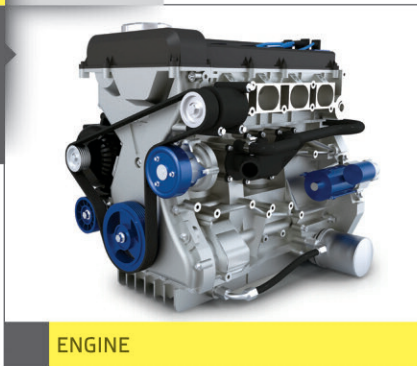
THE HIGHEST LEVEL OF ACCESSIBILITY

FM 252 i, even with its extreme compactness, allows an easy accessibility to the operator or maintainer in any point of the machine, in an easy, comfortable and functional way.

It also allows to work in the electrical cabinet with the **maximum safety and accessibility**.

In the same way it allows simple **access to tools**, for any check that may be necessary.





ENGINE



GEAR BOX

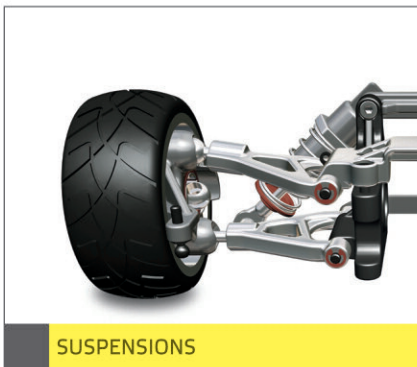


TURBOCHARGER

Applications



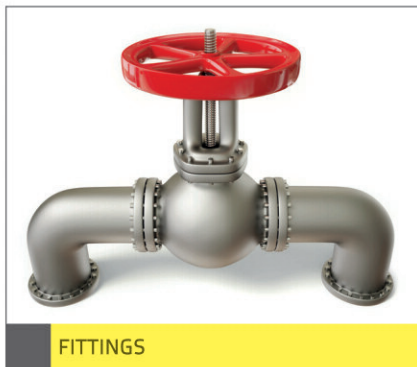
FM 252 i IS THE IDEAL MACHINING CENTRE FOR MANY INDUSTRIAL SECTORS: **AUTOMOTIVE, MACHINERY CONSTRUCTION, PRECISION TECHNOLOGY, AEROSPACE** AND FOR ALL PROCESSES WHERE IT IS ESSENTIAL TO GET HIGH QUALITY RESULTS AT COMPETITIVE COSTS. **FAUSTO MARINELLO** IS THE BEST PARTNER FOR EXTREMELY HIGH PRODUCTIVITY RESULTS.



SUSPENSIONS



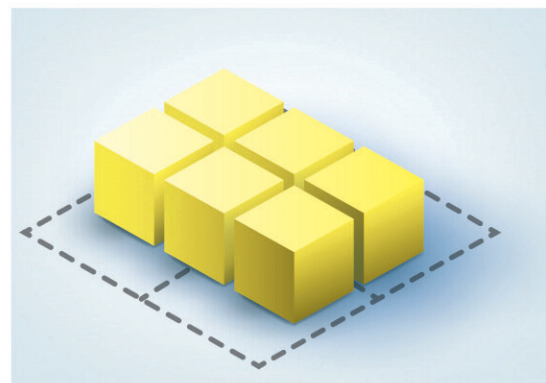
AEROSPACE



FITTINGS

Technical Specifications

FM 252 i	SIZE	PAGE		
WORKING AREA				
X axis stroke	mm	500		
Y axis stroke	mm	600 (850 tot)		
Z1/Z2 stroke	mm	500		
Distance between spindles	mm	500		
A AXIS (x2)				
Angle of oscillation	degrees	±120		
Max footprint diameter	mm	Ø 630		
Maximum torque	Nm	1250		
Continuous torque	Nm	670		
B AXIS (x2)				
Base diameter	mm	350		
Max equipment diameter	mm	495		
Equipment footprint with element with respect to A axis	mm	Ø 625		
Max torque	Nm	439		
Axial force	N	8000		
Equipment and element mass	Kg	220		
Fluid feeding lines	No.	6 each table		
PERFORMANCE				
X Axis	m/sec ²	10		
X Axis rapid speed	m/min	75		
X Axis	N	15000		
Y Axis	m/sec ²	10		
Y Axis rapid speed	m/min	75		
Y Axis	N	15000		
Z Axis	m/sec ²	20		
Z Axis rapid speed	m/min	90		
Z Axis	N	8000		
ELECTRO-SPINDLE				
	Rpm	10000	18000	10000
Coupling	HSK	63	63	80
Rated power	kW	30	25	38
Power S6	kW	46	35	43
Rated Torque	Nm	130	86	170
Torque S6	Nm	200	130	250
PALLET CHANGER/WORKTABLE				
Changing time with Indexing	s.	< 5		
MAGAZINE				
Capacity		2x45 (2x75)	2x45 (2x75)	2x45 (2x75)
Max tool diameter	mm	80 (160 max not adjacent pos)		
Max. length	mm	300	300	320
Max weight	Kg	10		
Tool change time	s.	< 3,5		
SIZE				
		Transport		
	mm	3000x3280x5150 (3360x3280x5150 installed)		
INSTALLED POWER				
	kVA	120		
CNC				
		Siemens 840 D (optional Fanuc)		



COMPACT SIZE

The extreme compactness of **FM 252 i** shows its best features in the layout where, for example, **6 machines** can be installed in the space in which most competitors can install **only 4**.

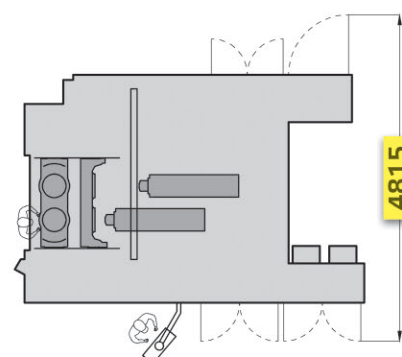
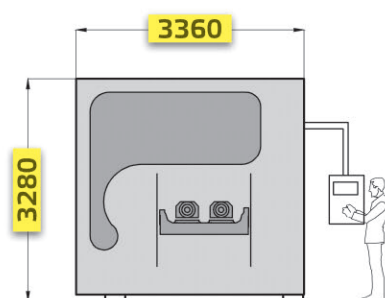
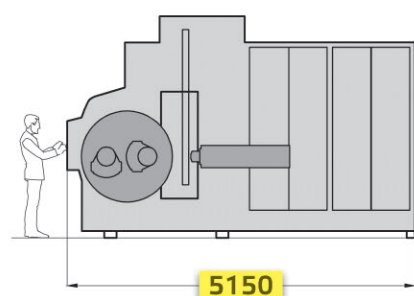




PHOTO: ELIO PALLARD

Fausto Marinello, winning ideas from Piedmont to the whole world

THE WILL OF FAMAR TO OFFER TECHNOLOGICAL SOLUTIONS FOR ALL PRODUCTION NEEDS HAS CREATED **FAUSTO MARINELLO**; THE COMPANY THAT DESIGNS AND DEVELOPS INNOVATIVE SOLUTIONS FOR DEDICATED MILLING MACHINES. THE MACHINES

FOLLOW THE FAMAR PHILOSOPHY AND ARE DESIGNED AND CONSTRUCTED IN A MODULAR CONFIGURATION, WITH CUSTOMIZABLE TECHNOLOGY ACCORDING TO THE CUSTOMER'S SPECIFIC PRODUCTION PROCESS REQUIREMENTS.



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