

# FS Series



# CME

MACHINERY EUROPE

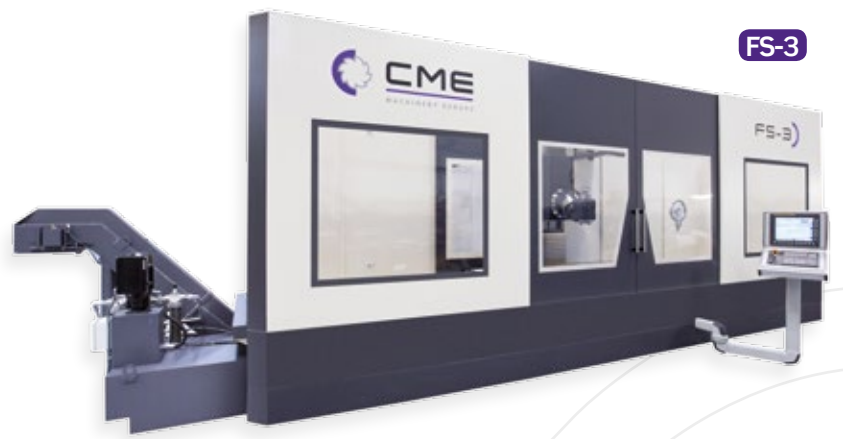
## FS Series · Machining Centers

The FS Series range is the result of years of work and improvement, developing a product of great structural rigidity. It is a heavy, oversized machine to ensure the best possible response in limit working conditions.

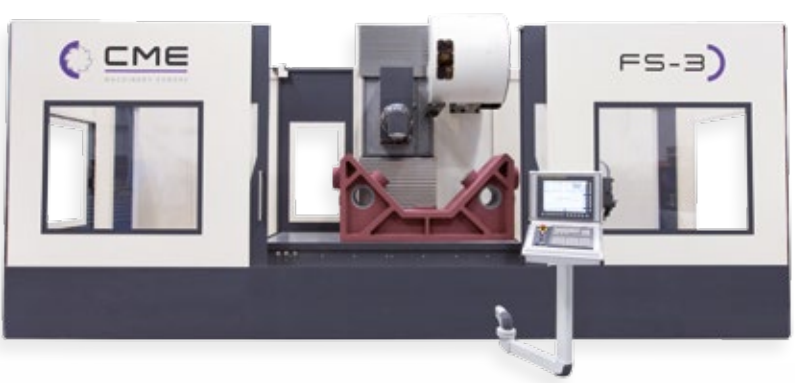
The different FS Series models offer a great range of working capabilities thanks to their different itineraries, which enable the machining of big parts that used to require a much bigger machine.

The standard equipment of the FS Series includes an automatic milling head that enables a great number of machining angles thanks to its 1° back turn and 2,5° front turn. This allows for the machining of more than 5 sides without having to move the part, which saves time and space and makes the work more dynamic.

Its power and R.P.M. enables work in first rough milling operations and in part finish operations.

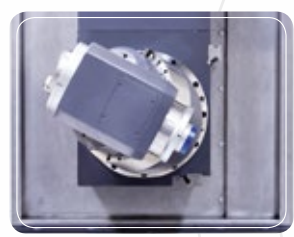
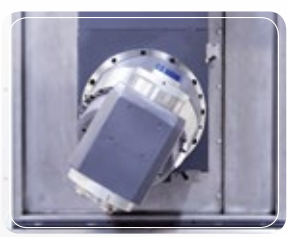


FS-3



## Automatic milling heads

Back body



Front body





CURSOS		FS-2	FS-3	FS-4	FS-5
Longitudinal	mm	2000	2500	3000	3500
Transversal	mm	1200	1200	1200	1200
Vertical	mm	1500	1500	1500	1500
MESA					
Superficie	mm	2100 x 1000	2600 x 1000	3100 x 1000	3600 x 1000
Ranuras en T		1 in H7 & 6 in H10	1 in H7 & 6 in H10	1 in H7 & 6 in H10	1 in H7 & 6 in H10
Distancia entre ranuras	mm	140	140	140	140
Peso admisible	Kg	5500	6000	6500	7000
AVANCES					
Avances (ejes X, Y, Z)	mm/min	20000	20000	20000	20000
HUSILLO PRINCIPAL					
Potencia	Kw	24 (S1) / 30 (S6)			
Cono		ISO-50 / DIN 69871			
Velocidades [*]	rpm	50 / 4000 (opcional 5000 RPM)			
POTENCIA TOTAL INSTALADA	KvA	50			
HUSILLOS					
Eje (X)	mm	63 x 10	63 x 20	63 x 20	63 x 20
Eje (Y, Z)	mm	50 x 10	50 x 10	50 x 10	50 x 10
PRECISIONES					
Posicionamiento 3 ejes	mm	±0,005	±0,005	±0,005	±0,005
Repetitibilidad 3 ejes	mm	±0,005	±0,005	±0,005	±0,005
PESO	Kg	16500	18000	19000	21000

### ▶ Rotary table 4th axis



### ▶ Digital CNCs



### ▶ Standard Equipment

- Heidenhain i TNC 530 HSCI
- FANUC 31i-B digital controls
- Scales in three axis
- Digital motors and drives
- ZF Gearbox (1:4 ratio)
- Linear guideways
- Thermal compensation
- CE standard safety feature
- Ballscrews with double preloaded nut in all three axes
- Variable coolant pump (up to 15 bar)
- Automatic lubrication system
- Hydraulic compensation of vertical movement with motor brake
- Pre-installation for 4<sup>th</sup> axis (without drive)
- Automatic milling head 1° x 2'5°
- [\*] RPM: 4000 standard / 5000 optional
- Ram oil cooler
- Portable electronic handwheel
- Rigid tapping
- Internal coolant through spindle
- External coolant
- Chip conveyor
- Automatic tool changers
- Coolant filter
- Electrical cabinet cooling unit
- Automatic head oil air lubrication system
- Integrated carenage and posterior closing of machine. CE standard safety feature
- Integrated led lightning
- Led signal light with buzzer
- Visiport unit

### ▶ Options

- Rotary table 4<sup>th</sup> axis horizontal/vertical
- Probes and laser systems
- CMS Brankamp anticollision system

\* CME Machinery Europe reserves the right of making changes to this catalogue without prior notice due to innovation and continuous improvement of the product.

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