





+ + JET FIVE

JET FIVE family represents the highest in technology and size range for MCM machining centers. It stands out for its wide variety of configurations, performances and material removal capacity. JET FIVE models are suitable for the most challenging and demanding machining operations.

JET FIVE series have been specifically developed for meeting todays most demanding machining operations on large components manufacturing. All the JET FIVE machines, as with every MCM machining centre, feature a horizontal spindle and are highly customisable in terms of structure, layout, dynamic performances and level of automation elements. JET FIVE can be configured to manufacture a wide range of parts, both of difficult-to-machine materials (i.e. Inconel, Titanium alloys) or lightweight materials (i.e. aluminium, magnesium alloys).

All JET FIVE models can be included in Flexible Manufacturing Systems or Multipallet solutions, completely designed and assembled by MCM.

The whole production systems are developed case by case on the customer needs in order to optimise both productivity and shop floor surface employment.

VERSATILITY

EXCEPTIONAL DYNAMICS

HIGH MATERIAL REMOVAL RATES

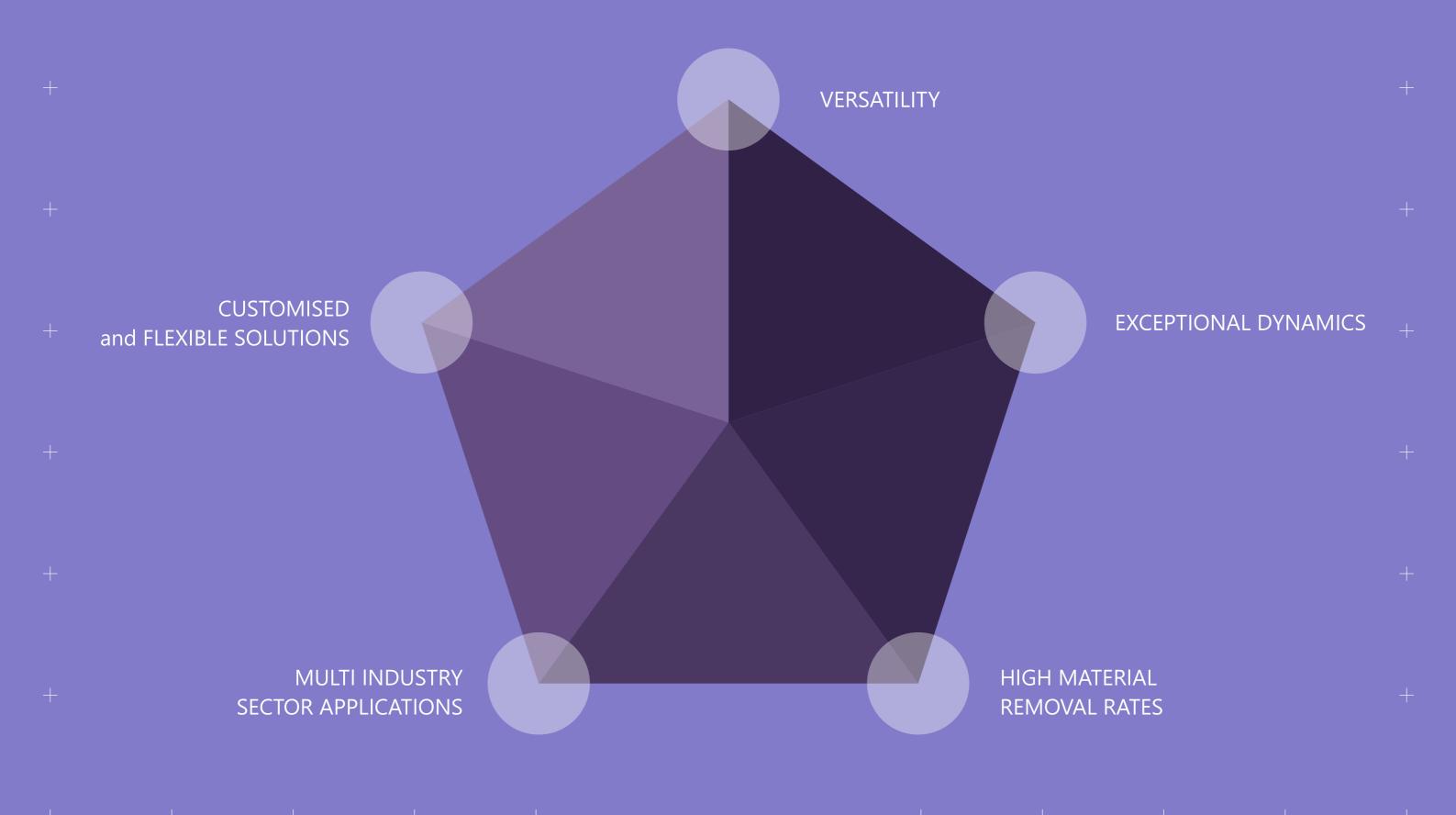
MULTI INDUSTRY
SECTOR APPLICATIONS

CUSTOMISED and FLEXIBLE SOLUTIONS

MCM / JETFIVE 01

JET FIVE HIGHLIGHTS + +

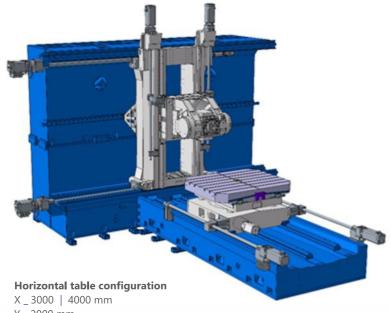






structures are optimised for improving precision mechanical stresses and machine stiffness. Different structural customer application

VERSATILITY



Y _ 2000 mm

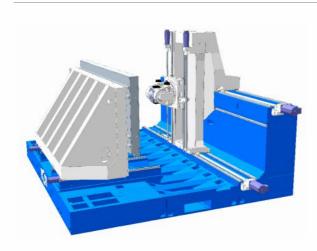
Z_3000 | 2500 mm

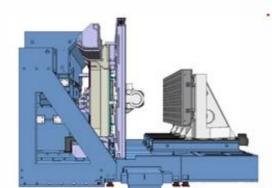
A_+80/-100 | +195°/-195°

B continuous

Pallet _ 1600x2000 mm | 2000x2500 mm

Fixture + part _ H2500 D3400 8000 kg | H2800 D3500 15000 kg





Vertical table configuration

X_4000 | 5000 | 6000 mm Y_1500 | 2000 | 2500 mm

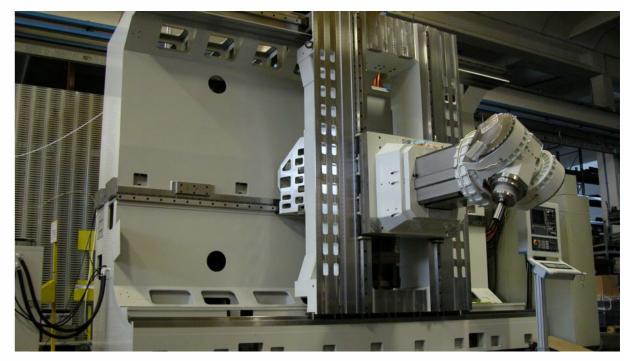
Z_800 mm A _ ± 110°

C_ ± 360°

Pallet up to 6000x2000 mm







Vertical / Horizontal table configuration

X 3000 mm A ±110° Y _ 2000 mm C_±360°

Z _ 600 (ram) +800 (positioning) mm Pallet _ 3000x2000 mm



Rotating drum configuration

X _ 4000 | 7000 | 11000 mm

Z_600 + 800 mm

Y _ 2000 mm

4 Drum faces / dimensions _ Height 1250 mm / Lenght (up to) 10000 mm

Rotating drum indexing angle 90°

A _ 200°



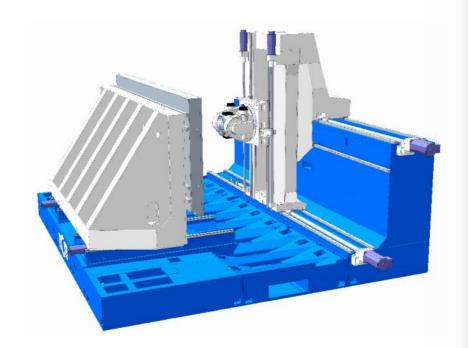
EXCEPTIONAL DYNAMICS +

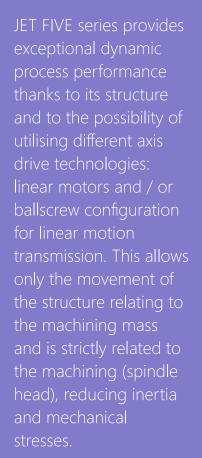
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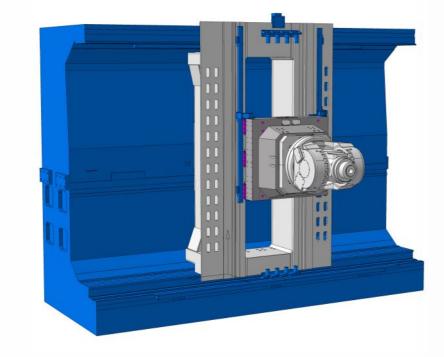
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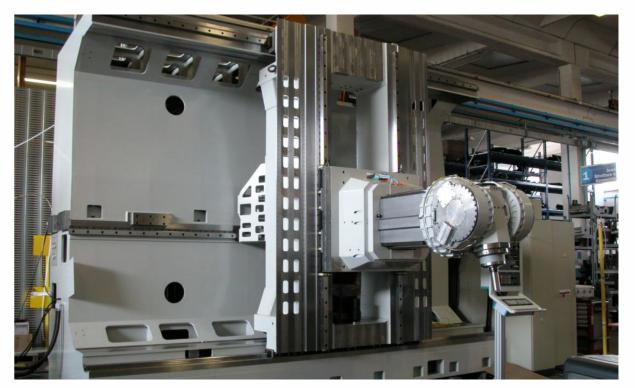






LINEAR AXES DRIVE: BALL-SCREWS

Rapid feeds _ 40 m/min Acceleration _ 4 m/s² Thrust _ 40.000 N



LINEAR AXES DRIVE: LINEAR MOTORS

Rapid feeds _ 70 m/min. Acceleration _ up to 1 G



The JET FIVE series include

Aluminium) machining and

machining hard-to-cut

Inconel, special alloys).

spindles, JET FIVE can

machine the most

demanding parts

Thanks to the wide choice

solutions and

HIGH MATERIAL REMOVAL RATES

+ + + + +



AERO STRUCTURAL PARTS

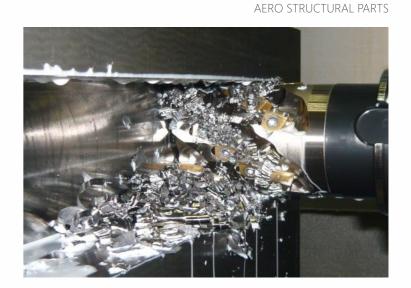


LIGHTWEIGHT ALLOYS
HSK 63 Spindle _ 30.000 rpm
Continuous power _ 70 / 120 kW
Maximum torque _ 200 Nm

HARD-TO-MACHINE ALLOYS

HSK B160 Spindle / 5000 RPM Maximum power 115 kW Maximum torque 10.000 Nm

Material Removal Rate _ 576 cm³/min Inserts Milling Tool _ Ø 96 mm Axial depth of cut (ap) _ 50 mm RPM _ 133 Feed Rate (f) _ 120 mm/min



Material Removal Rate _ 550 cm³/min Inserts Milling Tool _ Ø 315 mm Axial depth of cut (ap) _ 9 mm RPM _ 42 rpm Feed Rate (f) _ 194 mm/min

HSK-A125 Spindle / 4000 rpm Maximum power 115 kW Maximum torque 1750 Nm

Material Removal Rate _ 280 cm³/min
Inserts Milling Tool _ Ø 80 mm
Radial depth of cut (ae) _ 80 mm
Axial depth of cut (ap) _ 35 mm
RPM _ 160
Feed Rate (f) _ 100 mm/min
Simultaneous interpolation of X, Y, A, C axes

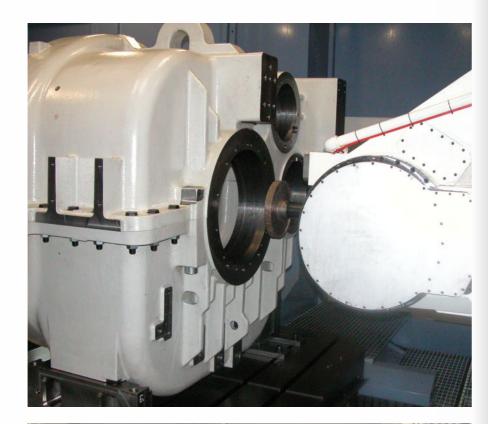


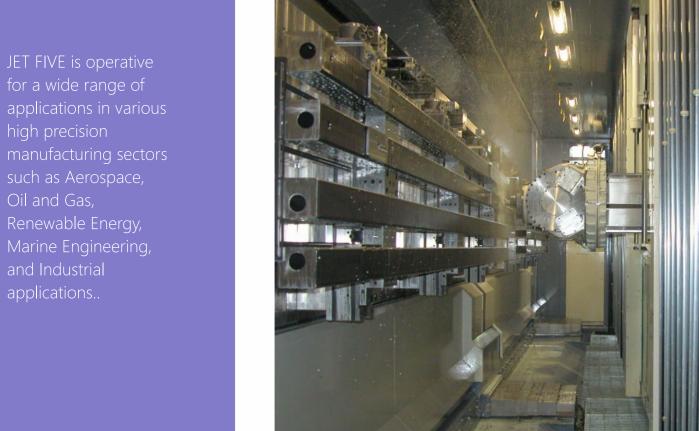


MULTI INDUSTRY SECTOR APPLICATIONS

















CUSTOMISED and FLEXIBLE SOLUTIONS







Special angular head



Deep drilling tools



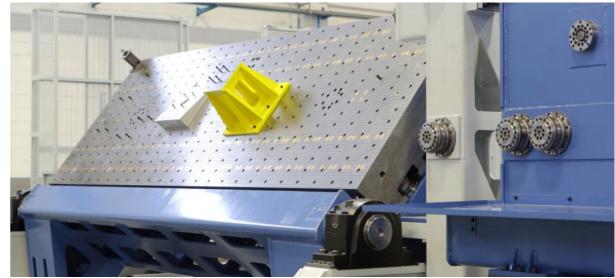
Two interchangeable heads on the same machining center





Tilting loading / unloading station





 $0/90^{\circ}$ Pallet tilting system at the loading / unloading station

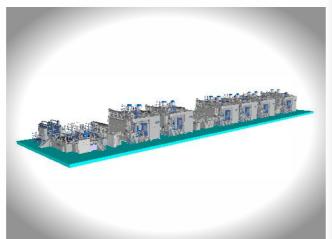
AUTOMATION + + + +

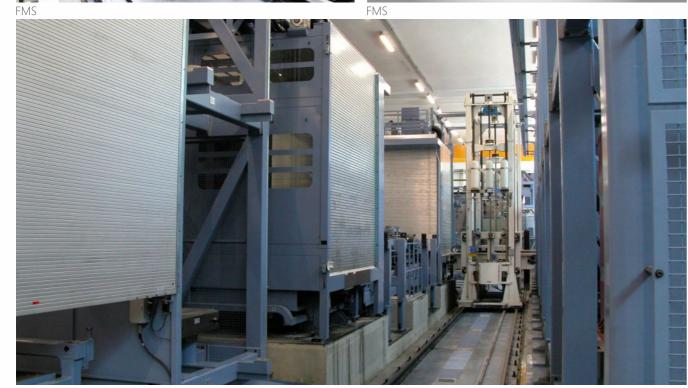
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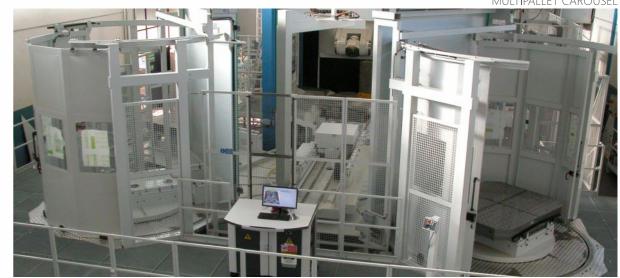












MULTIPALLET CAROUSEI

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JET FIVE				
VERSATILITY EXCEPTIONAL DYNAMICS	+	+	+	+
HIGH MATERIAL REMOVAL RATES				
MULTI INDUSTRY SECTOR APPLICATIONS CUSTOMISED	+	+	+	+
and FLEXIBLE SOLUTIONS				
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VERSATILITY

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