Technical data

SPEEDER

AXIS STROKE		SPEEDER	GRAND SPEEDER
X axis (longitudinal) (twin dual drive)	mm *inch*	3000 / 4500 / 6000 + ext. (1500) *118 / 177 / 236 + ext. (59)*	
Y axis (transversal)	mm *inch*	2000 / 2500 / 3000 *79 / 98 / 118*	3000 / 4000 / 5000 *118 / 157 / 197*
Distance between columns	mm *inch*	2700 / 3200 / 3700 *106 / 126 / 146*	3700 / 4700 / 5700 *146 / 185 / 224*
Worktable width	mm *inch*	up to 2500 *up to 98*	up to 4500 *up to 177*
Z axis (vertical)	mm	1200 / 1500 *47 / 59*	1500 / 2000 / 2500 *59 / 79 / 98*
Worktable loading capacity	kg/m² *lb/ft²*	from 5000 to 15000 *from 1024 to 3072*	

AXIS SPEED		SPEEDER	GRAND SPEEDER
X-Y-Z axes	mm/min *ipm*	up to 60000 *up to 2362*	up to 50000 *up to 1968*

MILLING HEADS	C Axis	A Axis	Power	Torque	Spindle Speed	Tool Taper
	°	°	kW - S6 (S1) *hp - S6 (S1)*	Nm - S6 (S1) *lb*ft - S6 (S1)*	rpm	
CONTINUOUS TWIST HEADS						
T2M	± 200	± 110	20 (15) *27 (20)*	16 (12) *12 (9)*	24000	HSK-F-63
T2D-04 (only for Grand Speeder, only for Z axis= 1500 or 2000 mm - 59 or 79 in)	± 200	± 110	22 (20) *29 (27)*	23 (21) *17 (15)*	24000	HSK-A-63

TOOL MAGAZINE		Chain Type	
Tool taper		HSK-F-63	HSK-A-63
Positions	N°	20 / 40 and others	20 / 40 and others
Tool max. Ø [1]	mm *inch*	80 *3*	100 *4*
Tool max. Ø [2]	mm *inch*	100 *4*	150 *6*
Tool max. length	mm *inch*	250 *10*	300 *12*
Tool max. weight	kg *lb*	9 *19*	15 *33*

[1] with tools side-by-side *[2] with alternate tool position*

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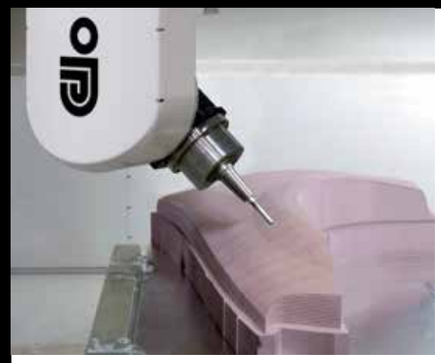
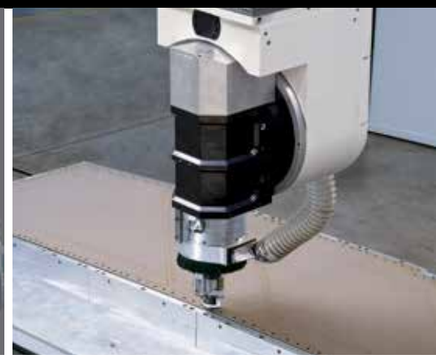
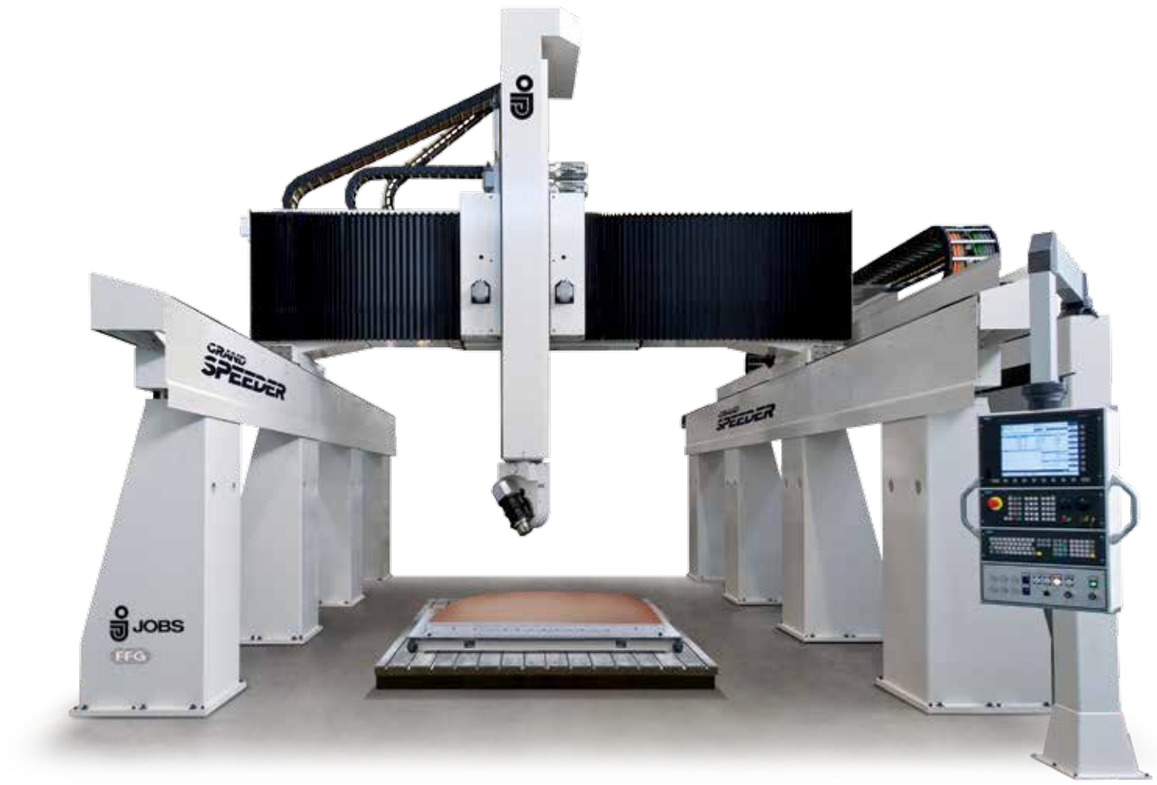
Overhead gantry milling centres

SPEEDER
GRAND SPEEDER







High Speed Machining Culture

FFG JOBS keen on innovation

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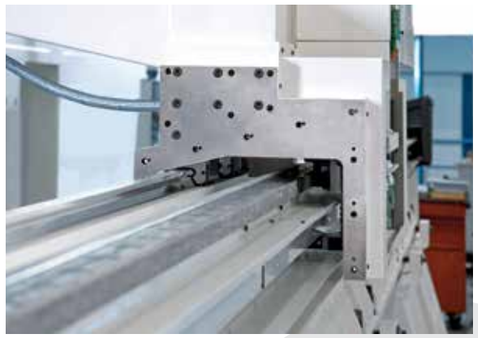
SPEEDER

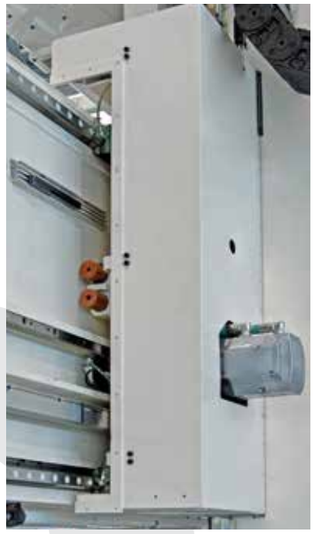
PERFORMANCE TAILORED TO APPLICATIONS NEEDS



Longitudinal axis frame (X axis) optimised for the best compromise solution between dynamics, accuracy and axis stiffness

Crossbeam structure optimised for ensuring the necessary accuracy and stiffness even with the completely extended ram

Motion kinematics through Jobs innovative multi-drive technology:
- X axis - twin dual drive with four motors which are electronically preloaded in pairs
- Y and Z axes - twin dual drive with two electronically preloaded motors
- on all axes - large-size guide-ways with multi-pad roller sliding blocks



Cross axis frame (Y axis) composed of an electrowelded steel crossbeam with two preloaded roller guide-ways for Y-axis saddle movement

T2M head with HSK-F-63 spindle 24000 rpm and power up to 20 kW

T2D-04 head with HSK-A-63 spindle 24000 rpm and power up to 22 kW

A suction system, developed by Jobs, equipped with programmable mobile hood can be integrated on these heads. This solution allows the maximum dust suction efficiency over the entire work area of the machine

Speeder can integrate CompofleX, the universal flexible tooling system developed by Jobs that allows the reference and clamping of composite parts

Speeder is the new family of medium and large size mobile-gantry milling centres with high-dynamics performance, which combines specific construction and functional solutions conceived for machining composite and not tough materials. The Speeder line results from Jobs ultimate technological innovations aimed at reducing costs.
By exploiting its simple design concept, these milling centres feature:
- reduced hourly operating costs
- reduced maintenance
- flexibility in use
- large working volumes thanks to the wide axes modularity:
  - Speeder, modular X axis, Y up to 3000 mm, Z up to 1500 mm
  - Grand Speeder, modular X axis, Y up to 5000 mm, Z up to 2500 mm
- overhead gantry structure with multi-drive traction on all axes allowing very high-dynamics performance combined with reduced consumptions
- excellent enclosure for efficient machining residues containment ensuring high accessibility, ergonomics and operator safety
- twist heads, specifically designed by Jobs with “single-side” morphology for further improving the accessibility to the workpiece
- T2M, mechanically driven head
- T2D-04, torque-motors driven head
- wide range of accessories
- HQ version equipped with linear scales for the most demanding applications in terms of accuracy
- environment-friendly

The high flexibility in use makes **Speeder** the ideal solution for the end-users, subcontractors in particular, requiring increasingly higher performance in high-tech applications at reduced hourly costs (machining of composite, aerospace parts, styling models and prototypes, moulds finishing, sport car, boats and plastic).

High Speed Machining Culture

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