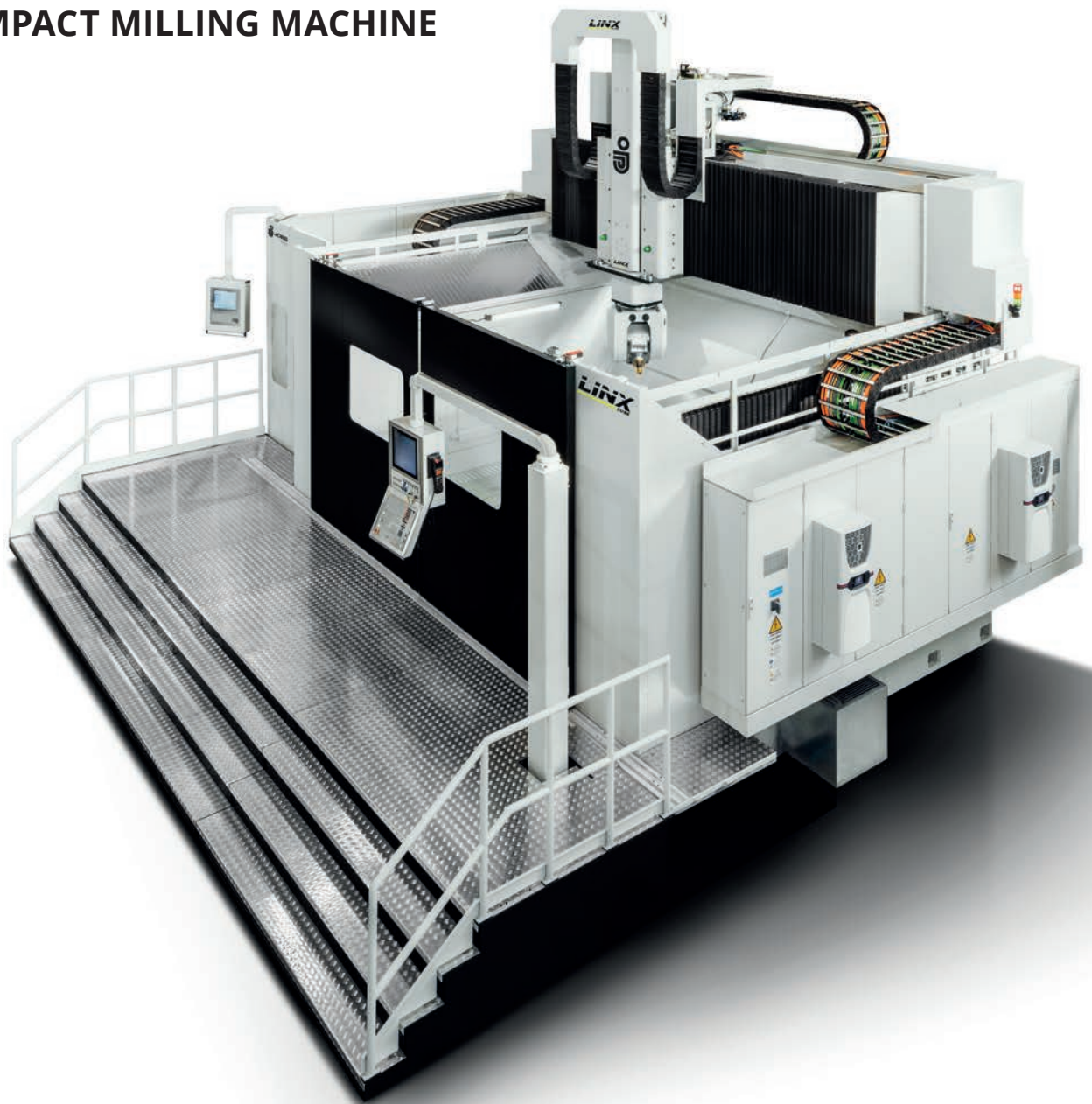


THE ULTIMATE HIGH-PERFORMANCE MILLING MACHINE

**5-AXIS LINEAR MOTOR
COMPACT MILLING MACHINE**



THE ULTIMATE HIGH-PERFORMANCE MILLING MACHINE



Twist heads with the best electrospindles to fit your application field:

- Up to 125 kw for aluminum machining
- Up to 300 Nm for steel and cast-iron machining



Vertical axis frame (Z axis) composed of a ram sliding within the saddle on wide-section guides with preloaded rollers

A conditioning system by cooling liquid provides thermal stability for both the primary motors and the structures underneath the secondary motors, guaranteeing a very high accuracy



Large-size X-axis bedplates featuring 2 wide-section guides and preloaded rollers on each side



Transversal axis frame (Y axis) composed of a duly optimized crossbeam with wide-section guides and preloaded rollers for saddle movement



Jobs LINX CUBE is the ultimate high-performance 5-axis milling machine from LINX linear motors gantry family: a new model at the top of performance able to reduce machining time increasing machining quality.

The main feature of the CUBE model is the monolithic structure where the table, the base and the columns are integrated in a single block. This integrated basement provides clear advantages: in addition to increased stiffness and maintain of accuracy over time, it allows faster installation and, above all, it does not require specific foundation works; the machine can be fixed to the ground with the anchoring elements only (fixators).

MACHINE HIGHLIGHTS

- Top efficiency and dynamics: speed 70 m/1 and acceleration up to 1 G
- Compact and monolithic structure with integrated table
- Rapid and easy installation on fixators without foundation
- High positioning accuracy
- Silent functioning and low maintenance costs thanks to linear motors on all linear axes
- Available with a wide range of accessories
- Wide modularity



Wide range of tool magazines available:

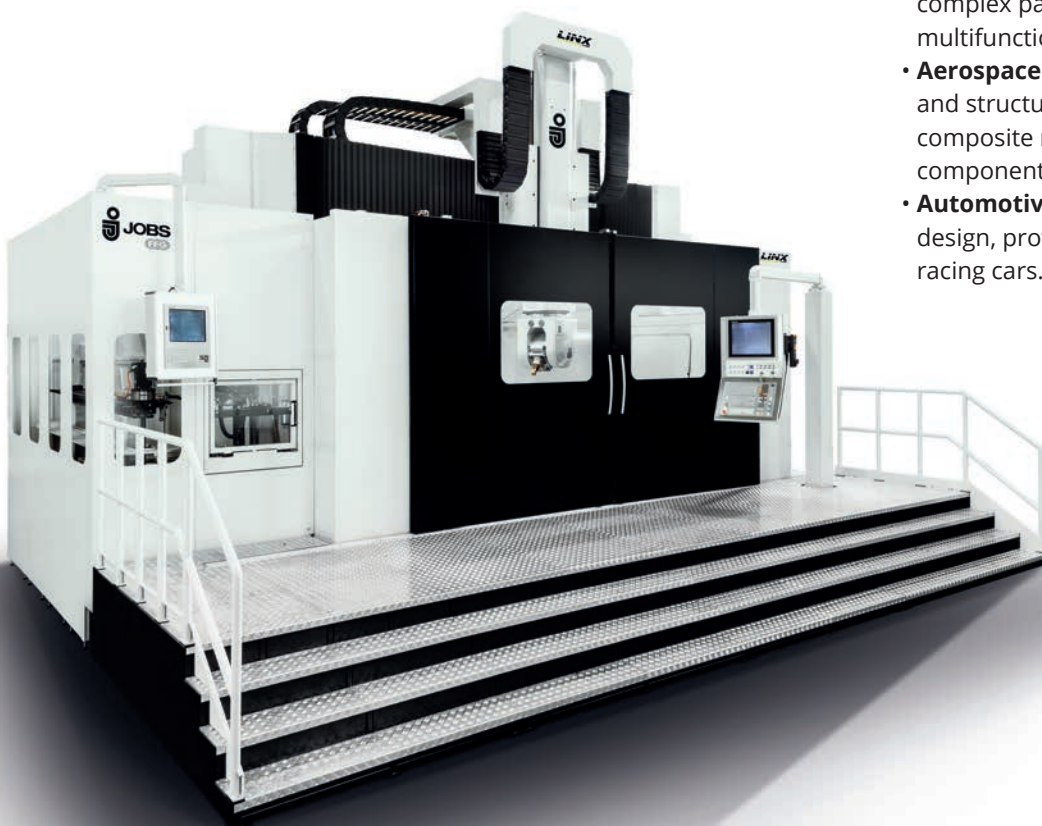
- Direct chain from 16 to 40 positions
- Double chain with double gripper change arm 64 or 96 positions
- Rack type from 120 to 220



The spindles are equipped with a standard interface allowing quick and easy exchange in case of maintenance.

LINX CUBE ensures wide possibilities of customization and can be equipped with the best spindles and accessories to fit every application field:

- **General Engineering and energy:** complex part machining with multifunction capability;
- **Aerospace:** aluminum skins and structural parts machining; composite machining, engine components;
- **Automotive:** cubings, jigs&fixtue, design, prototyping, moulds&dies, racing cars.



TECHNICAL DATA

Modularity		LINX CUBE		
X axis (longitudinal)	mm <i>inch</i>	2200 87	4350 171	6500 256
Working table length	mm <i>inch</i>	2300 90	4450 175	6600 260
Y axis (transversal)	mm <i>inch</i>	3150 124		3650 144
Working table width	mm <i>inch</i>	3000 118		3500 138
Working table slots		Longitudinal 28 mm H12 pitch 250 mm (10 inch) Central slot H8		
Z axis (vertical)	mm <i>inch</i>	1250 49		1500 59

Dynamics		LINX CUBE		
Axis speed	m/min <i>ipm</i>	70 2756		
Axis acceleration	G	1		

Milling heads		T3K	T2D-06	T2D-03 (Y stroke reduced by 150 mm, 6 in)	
C axis	°	±200	±200	±200	
A axis	°	215 (-120/+95)	230 (-110/+120)	220 (-110/+110)	
Power	kW - S6 [S1] hp - S6 [S1]	44 [35] // 87 [70] 59 [47] // 117 [94]	40 [36] // 66 [60] 54 [48] // 89 [80]	47 [42] 63 [56]	156 [125] 209 [168]
Torque	Nm - S6 [S1] lb*ft - S6 [S1]	200 [160] // 207 [167] 147 [118] // 153 [123]	63 [58] 46 [43]	75 [60] 55 [44]	74 [60] 54 [44]
Spindle speed	rpm	15000	27000	24000	30000
Tool taper		HSK-A-100	HSK-A-63	HSK-A-63	HSK-A-63 / F-80

Tool magazines		LINX CUBE					
Positions	N°	20 - 40	16 - 32	64 - 96		120 - 220 & over	
Type		Direct chain		Double chain with double gripper change arm		Rack	
Tool taper		HSK-A-63	HSK-A-100	HSK-A-63	HSK-A-100	HSK-A-63	HSK-A-100
Tool max. Ø (tools side-by-side)	mm <i>inch</i>	100 4	125 5	100 4	125 5	100 4	125 5
Tool max. Ø (alternate tool position)	mm <i>inch</i>	160 6		160 6		160 6	
Tool max. length	mm <i>inch</i>	350 14		350 14		350 14	
Tool max. weight	kg <i>lb</i>	15 33	20 44	15 33	20 44	15 33	20 44

Technical data are for general information only and subject to change without notice.

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