

Linear motor overhead gantry milling centres

Technical data

LINX3 COMPACT

AXES STROKES		LINX3 20	LINX3 30	LINX3 35	LINX3 40	LINX3 50
X axis (longitudinal)	mm inch	2000 / 4000 / 6200 + ext. 2000 79 / 157 / 244 + ext. 79		4000 / 6200 / 8200 + ext. 2000 157 / 244 / 323 + ext. 79	6200 / 8200 / 10200 + ext. 2000 244 / 323 / 401 + ext. 79	
Y axis (transversal)	mm inch	2000 79	2950 116	3650 144	4000 157	5000 197
Z axis (vertical)	mm inch	900 / 1250 / 1500 35 / 49 / 59	900 / 1250 / 1500 / 2000 35 / 49 / 59 / 79	1250 / 1500 / 2000 / 2500 49 / 59 / 79 / 98	1500 / 2000 / 2500 59 / 79 / 98	
Loading capacity	kg/m <sup>2</sup> lb/ft <sup>2</sup>	from 5000 to 15000 from 1024 to 3072				
AXES SPEED						
Linear axes speed X-Y-Z	m/min ipm	75 2953	60 2362	50 1968	50 1968	50 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						
T3K	±200	-120 / +95	44 [35] 59 [47]	200 [160] 147 [118]	15000	HSK-A-100
			40 [36] 54 [48]	63 [58] 46 [43]	27000	HSK-A-63
			66 [60] 89 [80]	63 [58] 46 [43]	27000	HSK-A-63
T2D-02	± 200	-110 / +120	40 [31] 54 [42]	32 [25] 27 [18]	24000	HSK-A-63
T2D-03 (Y stroke reduced by 200 mm, 8 inch)	± 200	± 110	60 [54] 80 [72]	95 [85] 70 [63]	20000	HSK-A-63
INDEXED HEAD						
TMX (only Z= 900 mm, 35 inch)	±180 indexed 1°	-105 / +15 indexed 1°	41 [34] 56 [46]	313 [260] 231 [192]	8000	HSK-A-100

TOOL MAGAZINE			
Positions	N°	20 - 40 & over	16 - 32 & over
Tool taper		HSK-A-63	HSK-A-100
Tool max. Ø (tools side-by-side)	mm inch	100 4	125 5
Tool max. Ø (alternate tool position)	mm inch	150 6	150 6
Tool max. length	mm inch	300 12	300 12
Tool max. weight	kg lb	15 33	20 44

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LINX3 COMPACT



Very High Speed Machining Culture





Large-size longitudinal structure (X axis) on which wide-section guides with preloaded rollers are fixed and installed on columns



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

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



Very efficient hydro-pneumatic counterweight system, for balancing masses of Z-axis group, composed of a direct dual cylinder



The JIMS spindle cartridge exchange system (Jobs Interchangeable Motorspindle System) allows to optimize technological machining conditions with HSK-A-100 and HSK-A-63 spindles

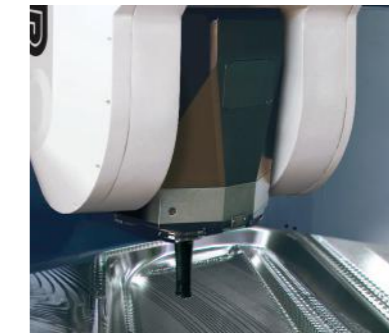
The machine can be equipped with different milling heads specifically designed for various application such as:



Bipolar T2D head for car design & prototyping applications



T3D Aero-configuration head for high-power machining in aerospace industry



Bipolar T3K head for complete mould & die machining and aerospace applications



Indexed TMX head for general precision engineering operations

Jobs makes a further step forward in the field of very high-speed machining and presents the **third generation** of LinX machines' family, with linear motor technology for linear axis drive.

**LinX3 Compact**, the renewed milling centre with mobile crossbeam, has been optimized by employing ultimate technologies in structural design in order to achieve best possible dynamic performance and features:

- very rigid "overhead gantry" structure ensuring high accuracy, finishing quality and productivity
- improved stiffness and top-level dynamic performance (axes speed up to 75 m/min, acceleration up to 7,5 m/sec<sup>2</sup>)
- optimized ergonomic design
- drastic cut in overall machining time
- remarkable reduction of hourly costs
- simplified maintenance requirements thanks to absence of wear of mechanical components
- better working environment and silent functioning

- design based on a system of modular multifunctional subassembly groups, allowing wide possibilities of customization according to required machining operations and plant layout
- conceived according to Jobs "Green Vision", allowing 36% of power reduction and 12% of the energy saved.

The following versions are available: **LinX3 20**, **LinX3 30**, **LinX3 35**, **LinX3 40** and **LinX3 50** with different transversal sizes (Y axis with strokes from 2000 to 5000 mm), modular X axis starting on 2000 mm with one or more extensions of 2000 mm each.

The vertical Z axis is available in different size configurations with strokes of 900, 1250, 1500, 2000 and 2500 mm.



- LinX3 Compact** can meet applications demanding maximum speed and flexibility for:
- aerospace
  - design & prototyping
  - models, moulds and dies
  - composites
  - general engineering
  - energy and aero-engines.

Very High Speed Machining Culture