

# *LinX*



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# Super

## High-Speed Milling







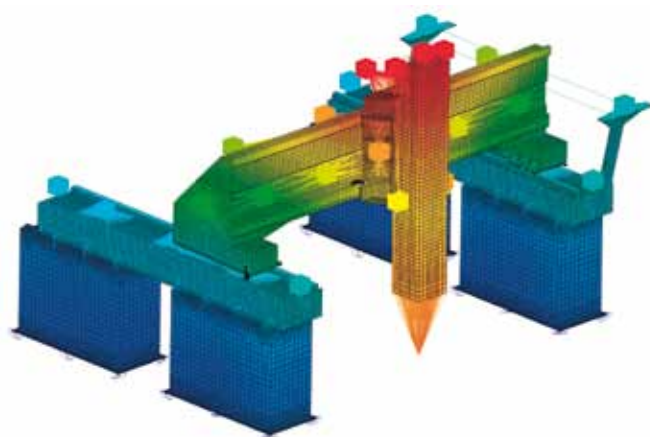


## The Most Innovative Milling

LinX is the most comprehensive family of high-speed milling centres available on the market. The machine's design combining linear motors with a very rigid mobile crossbeam structure, added to a wide range of interchangeable spindles, assures highest performance in any field of application.

The winning aspects of LinX are:

- drastic reduction in production times
- maximum performance in speed and acceleration
- high accuracy and finishing quality
- flexibility in employing different types of materials such as steel, cast iron, titanium, composites and aluminium
- reduced maintenance thanks to the elimination of wearing mechanical components
- silent functioning thanks to total absence of mechanical transmission.



**LinX has been developed by employing the most advanced technologies in the field of structural design in order to fully exploit the machine's dynamic performance.**



### Milling heads

A vast range of milling heads with 3, 3+2 and 5 simultaneous axes, characterises the LinX family. These heads are all equipped with hydraulic clamping system and, thanks to the JIMS system, can fit latest generation high-speed & high-torque electrospindles, available in various interchangeable versions.

**T3K**

**T3D**

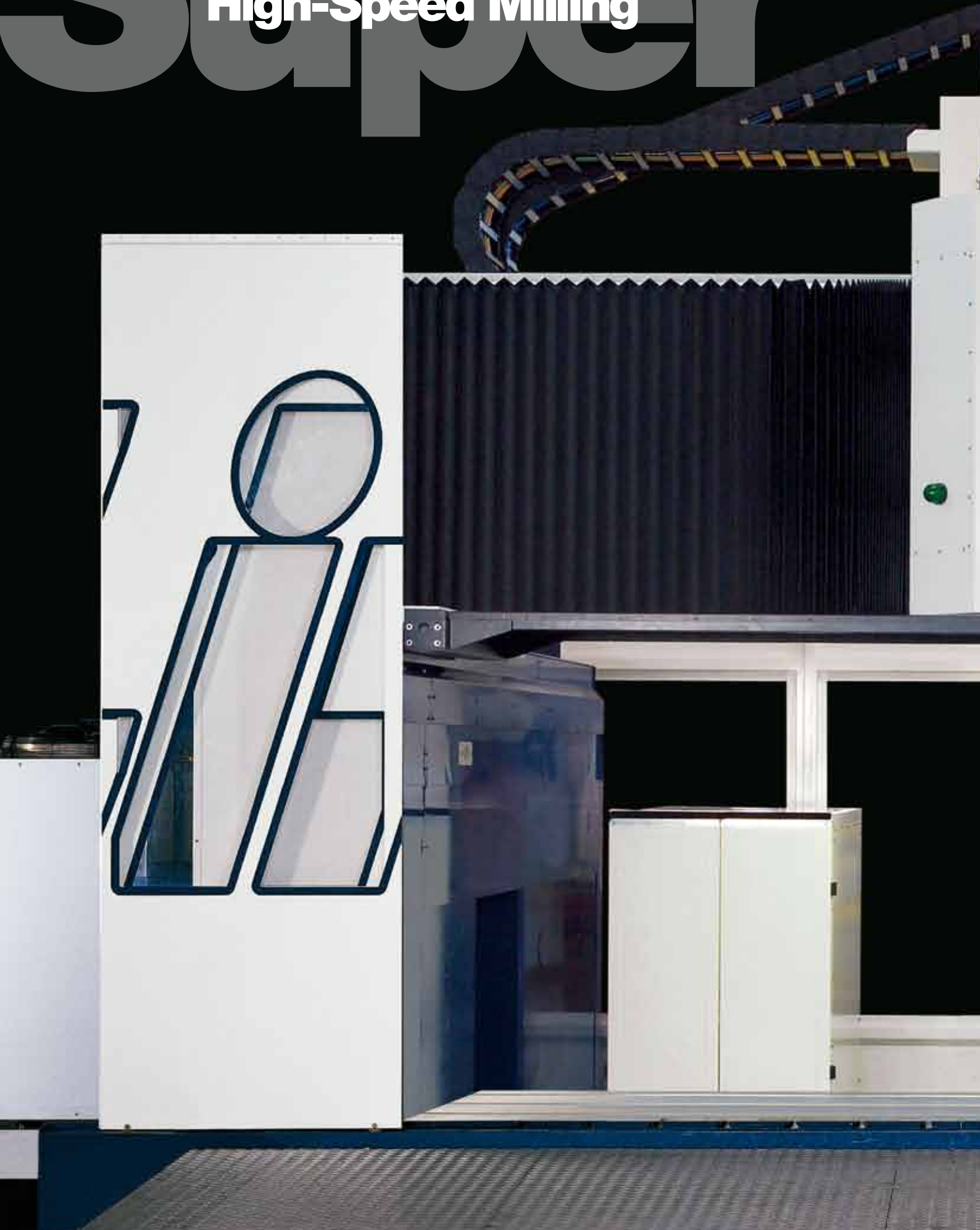
**T2D**

**TMX**

**tmxp**

# Super

## High-Speed Milling







Linear Motion  
Inside  
Technology

 **JOBS**



# Aiming to Higher Productivity

Apart from high-speed machining, LinX has also been designed for rough milling operations on rough materials, typical of traditional high-power machines.

The combination of these features allows a reduction in the machining times of up to 40% in these fields:

- aeronautic industry
- aero-engines
- composites
- car design & prototyping
- mould & dies
- precision general engineering
- energy





# LinX Family



The design of LinX milling machines is based on a system of multifunctional modular subassembly groups, which allow the machine architecture to be adapted according to required application and to the integration into the end user's production environment.

## Safety and Ergonomics

The machine's architecture and its integral safety guarding have been studied and designed to guarantee the best possible ergonomics and maximum safety for the operator, but at the same time ensuring easy machine supervision.



**LinX**  
*Compact*

The first model of the LinX family marked a generational jump; a true leap forward in high-speed milling technology.



**LinX**  
*Compact* <sup>TMX</sup>

Milling centre for high-speed & high-power precision machining of medium/large work pieces in the General Engineering field. Automatic production is ensured by the work piece load/unload system in masked time, by the automatic pallet changer and by the chain or rack-type tool magazine.

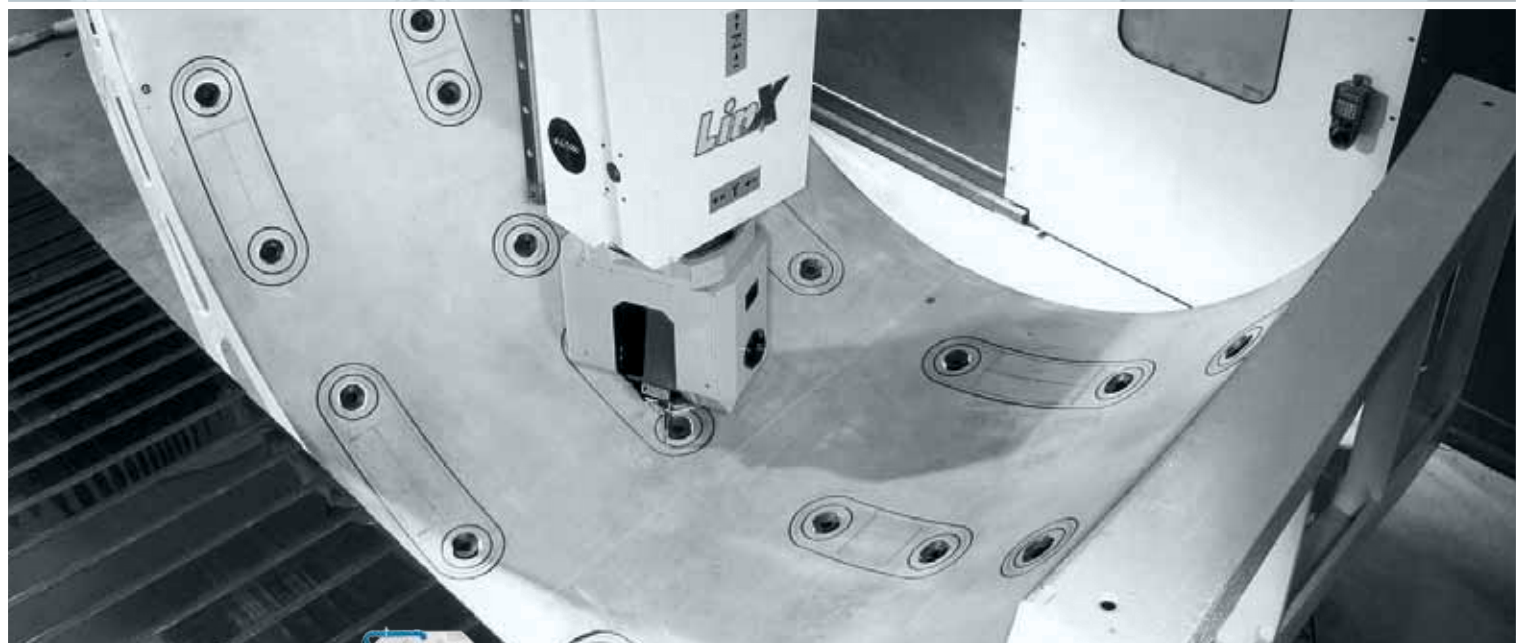


**LinX**  
*Compact* <sup>DUO</sup>

The first multi spindle, linear motor milling centre with two synchronized mobile crossbeams, mainly conceived for machining of medium/large-sized work pieces in the Aerospace field.







**LinX**  
*Design*

Large-sized linear motor milling machine, with an operating volume from 50 m<sup>3</sup>, designed to offer the highest productivity in: model styling, prototype and finishing of large size mould & die components, aluminium-alloy/composite aerospace component machining.



**LinX**

The latest generation, 5-axis linear motor, horizontal machining centre. This model is compact and ergonomic, designed for high-speed & high-power machining of medium/large-sized components for the precision general engineering, aeronautics, mould & dies fields.

# High Flexibility for a Wide Range of Applications

LinX has been specifically conceived to guarantee the highest possible performance in various fields of application.

## Aerospace

LinX carries out high-speed machining on structural parts and sheets in aluminium alloy, titanium and composites.

## Models and rapid prototyping

LinX assures to achieve accurate and unequalled finishing quality as well as drastically reduced machining times with respects to traditional milling and machining centres.

## Mould & Dies

LinX can execute high-speed machining for roughing, semi-finishing and finishing operations.

## Precision General Engineering

LinX can operate at high-speed even during machining of medium/large-sized mechanical components.

## Composites

LinX can machine composites parts through: continuous 5 axis high-speed interpolation, high-speed electrospindles and highly efficient dust suction systems.



## Engineering Services

Jobs puts a team of technical experts at the complete disposal of its customers for:

- integration of high-speed milling technology
- preliminary machining analysis and feasibility studies
- analysis and optimisation of the production processes
- study and customisation of machine lay-outs
- system integration
- "Turn-Key" service, CAD-CAM and post-processing.



# Accessories and Options for Maximum Versatility



**JIMS Jobs Interchangeable Motorspindle System:**  
allows to alternate the motorspindle cartridges with high torque and high speed.



**Machining of composite parts with Flexible Tooling System and highly efficient dust suction systems.**



**Tool magazines for ATC:**  
in various versions with capacity up to 180 positions.



## Options for automatic tool management

- on-board tool presetting
- intelligent motorspindle
- balancing sensors
- torque sensors
- tool life management
- twin tool management.

## Coolant

- spray-mist
- tool coolant external to spindle
- tool coolant internal to spindle (high pressure)

## Automatic pallet changers





TECHNICAL DATA		LinX Compact				LinX Design		LinX O		
MILLING HEAD TYPE		T3K	T2D	TMX	T3D aero	T3D	TMX	T3K	TMX ep	T3D aero
AXIS STROKE										
X axis	mm (inch)	2000/4000/6200/8200 + ext. 2000 (79/157/244/323 + ext. 79)				5200 (205) + ext. 2000 (79)		2100/3100/4100/5100/6100 + ext. 1000 (83/122/161/201/240 + ext. 39)		
Y axis	mm (inch)	2000/2950/3650 (79/116/144)				3200/4000 (126/157)		1600/2500 (63/98)		
Z axis	mm (inch)	900/1250/1500 (35/49/59)		900 (35)		2000/2500 (79/98)	1500 (59)	600 (24)		
C axis	°	400 (±200)	400 (±200)	360 (±180) index 1°	400 (±200)	400 (±200)	360 (±180) index 1°	400 (±200)	360 (±180) index 1°	400 (±200)
A axis	°	215 (-120, +95)	230 (-110, +120)	120 (-15, +105) index 1°	200 (±100)	200 (±100)	120 (-15, +105) index 1°	215 (-120, +95)	110 (-5, +105) index 1°	200 (±100)
AXIS SPEED										
X-Y-Z linear axes	mm/min (inch/min)	up to 70000 (up to 2756)				40000 (1574)		50000 (1968)		
C-A polar axes	deg./sec.	60	300	30	180	300	30	60	30	180
WORKING TABLE										
Fixed Table - Size	mm	2000 x 1500 (79x59) + ext.				6000 x 2500 (236 x 98) + ext.		-		
Fixed Table - Loading Capacity	kg/m² (lb/ft²)	5000 (1024)				5000 (1024)		-		
Pallet Table - Size	mm (inch)	-				-		1250 x 1600 (49 x 63)		
Pallet Table - Loading Capacity	kg (lb)	-				-		8000 (17637)		
TOOL MAGAZINE										
Capacity	Positions	16/32 - 20/40				16/32 - 20/40		32 - 86/134/175/271		
GENERAL DATA										
Electrical power supply	kVA	180				180		180		
Three phase input supply	V	400 - 50 Hz (480-60 Hz)				400 - 50 Hz (480-60 Hz)		400 - 50 Hz (480-60 Hz)		
Weight (basic version)	kg (lb)	22150 (48832)				45800 (100972)		24500 (54013)		

POWER SPINDLE UNIT					LinX Compact				LinX Design		LinX O		
					T3K	T2D	TMX	T3D aero	T3D	TMX	T3K	TMX ep	T3D aero
Type	Spindle taper	Max. rpm	Spindle Motor Power S6 (S1) kW	Spindle Motor Torque S6 (S1) Nm									
TV0987/A	HSK-A-100	8000	41 (34)	313 (260)			●			●			
TV1276	HSK-A-100	8000	40 (31,5)	381 (300)								●	
TV1579-15	HSK-A-100	15000	44 (35)	200 (160)	●						●		
TV1581-24	HSK-A-63	24000	40 (31)	32 (25)		●							
TV0828/A	HSK-A-63	24000	29	42					●				
TV1228	HSK-A-63	24000	70 (60)	60 (52)				●					●
TV1596-27	HSK-A-63	27000	41 (36)	39 (34)	●						●		

THE ABOVE TECHNICAL DATA IS FOR GENERAL INFORMATION ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

#### JOBS SpA

Via Emilia Parmense, 164  
29122 Piacenza (I)  
Tel. +39 0523 549611  
Fax +39 0523 549750  
com.com@jobs.it  
www.jobs.it

#### France

**JOBS Sarl**  
Vénissieux – Lyon  
Tel. +33 4 72 78 69 82  
Fax +33 4 72 78 69 49  
commercial@jobs-france.fr

#### U.S.A.

**JOBS Inc**  
Fenton – Michigan  
Tel. +1 810 714 0522  
Fax +1 810 714 0523  
machinetools@att.net

#### SACHMAN

Via Masaccio, 15/A  
42124 Reggio Emilia (I)  
Tel. +39 0522 233311  
Fax +39 0522 511701  
com.com@sachman.it  
www.sachman.it

#### Germany

**JOBS GmbH**  
Gersthofen  
Tel. +49 821 5976630  
Fax +49 821 5976633  
info@jobs-service.de

#### China

**JOBS PRC**  
Beijing  
Tel. +86 10 85802526 -7-8-9  
Fax +86 10 85802530  
info@jobsmachinetools.cn