

newton



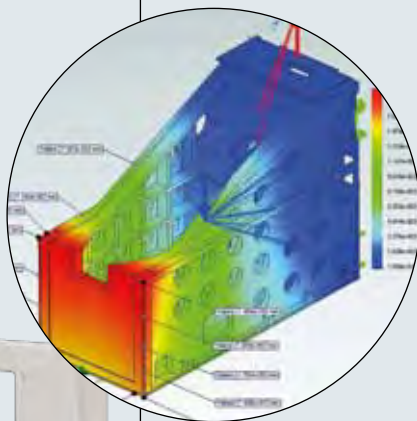
> Centro di lavoro verticale a montante mobile
Vertical Machining Center with moving column



newton

La struttura del centro di lavoro NEWTON è stata progettata per offrire grande stabilità e rigidità pur permettendo prestazioni dinamiche che rendano possibile l'ottimizzazione dei tempi di produzione con l'utilizzo delle moderne tecnologie di taglio.

The structure of the Machining Center NEWTON has been designed to achieve the maximum of stability and rigidity together with high dynamic performances which allow the optimization of the machining time and the use of the modern cutting technologies.

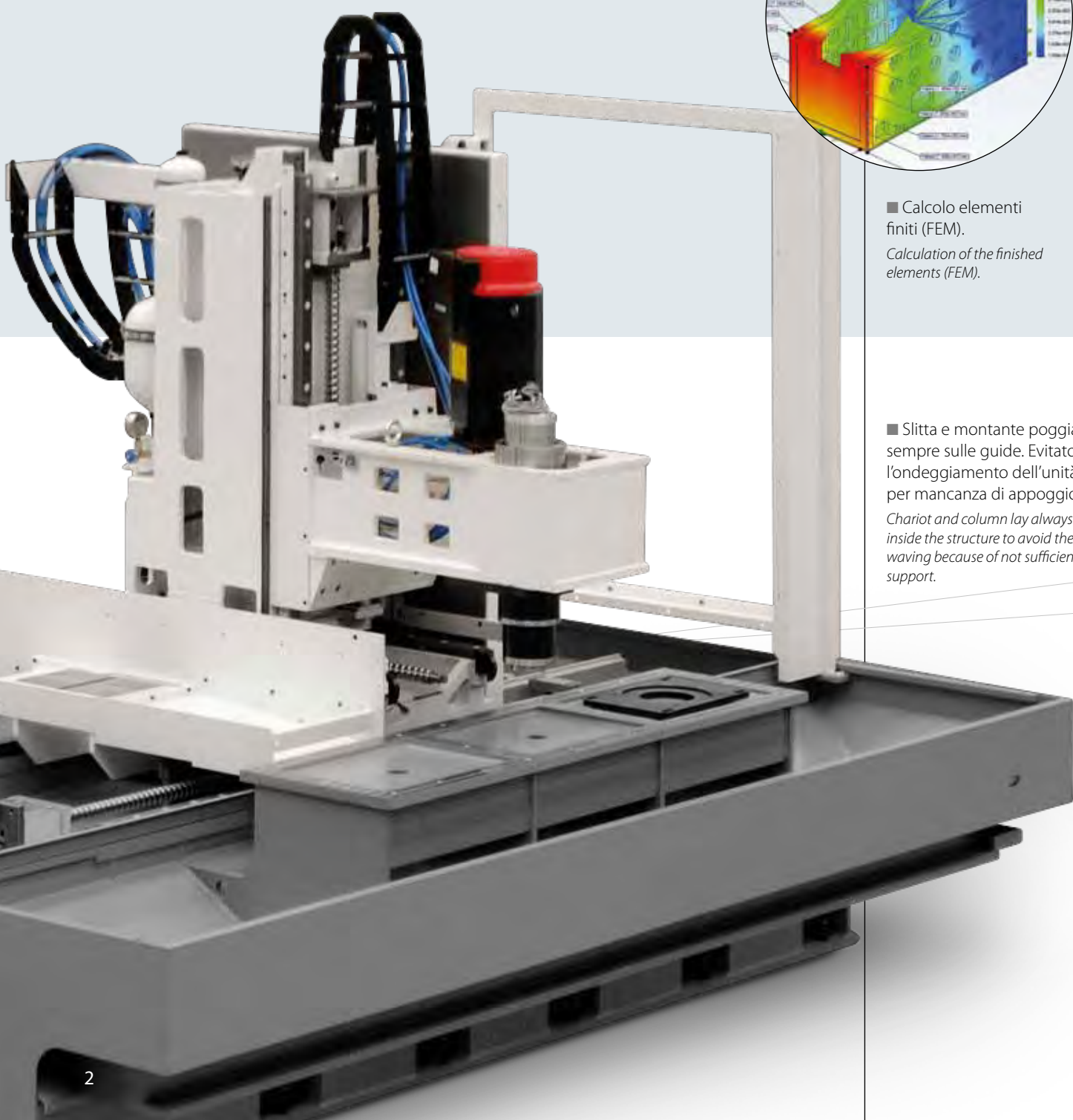


■ Calcolo elementi finiti (FEM).

Calculation of the finished elements (FEM).

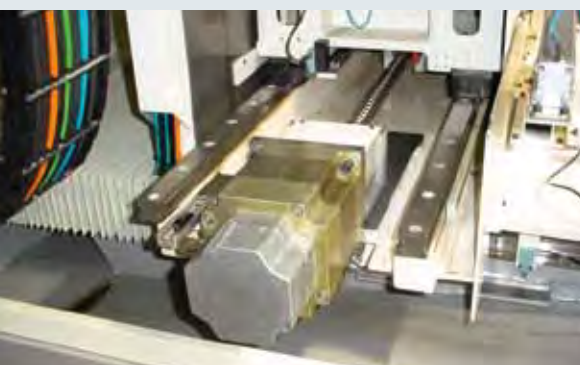
■ Slitta e montante poggiano sempre sulle guide. Evitato l'ondeggiamento dell'unità per mancanza di appoggio.

Chariot and column lay always inside the structure to avoid the waving because of not sufficient support.





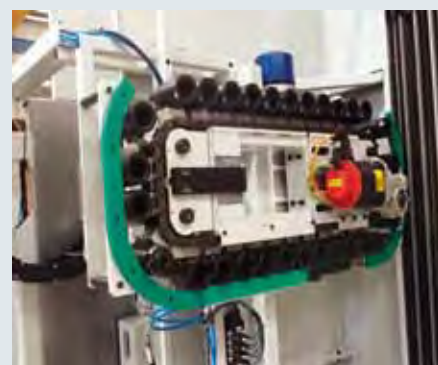
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■ Motori assi in presa diretta per riduzione giochi.
Direct drives of the axis to reduce the backlash.



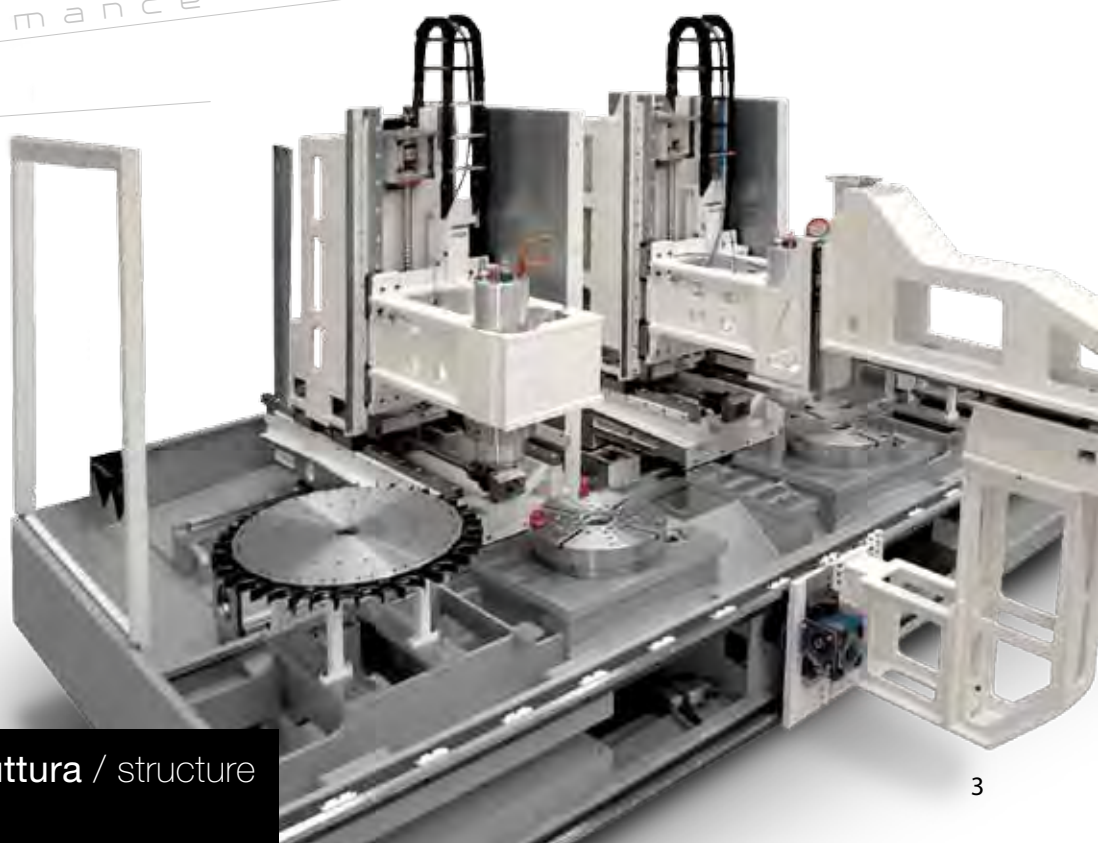
■ Affidabilità grazie ad una corretta impiantistica.
Reliability thanks to a well done plant design.



■ Magazzino utensili collegato al montante, riduce i tempi di cambio utensile.
Tool magazin connected to the column to reduce the tools changing time.

h i g h p e r f o r m a n c e

■ Flessibilità nelle realizzazioni di strutture complesse.
Flexibility in the realisation of complex structures.



struttura / structure

vantaggi advantages

high precision

Vantaggi offerti dalla tecnologia Rema Control sui centri di lavoro verticali a montante mobile.

Advantages of the Rema Control's Machining Centers with movable column, due to the used advanced technology.



flessibile e adattabile flexible and adaptable

Permette di scegliere come lavorare nel modo più conveniente.
Si adatta alle richieste specifiche del cliente.

*It fits the customer's wishes and allows
to choose the most economic producing method.*

1

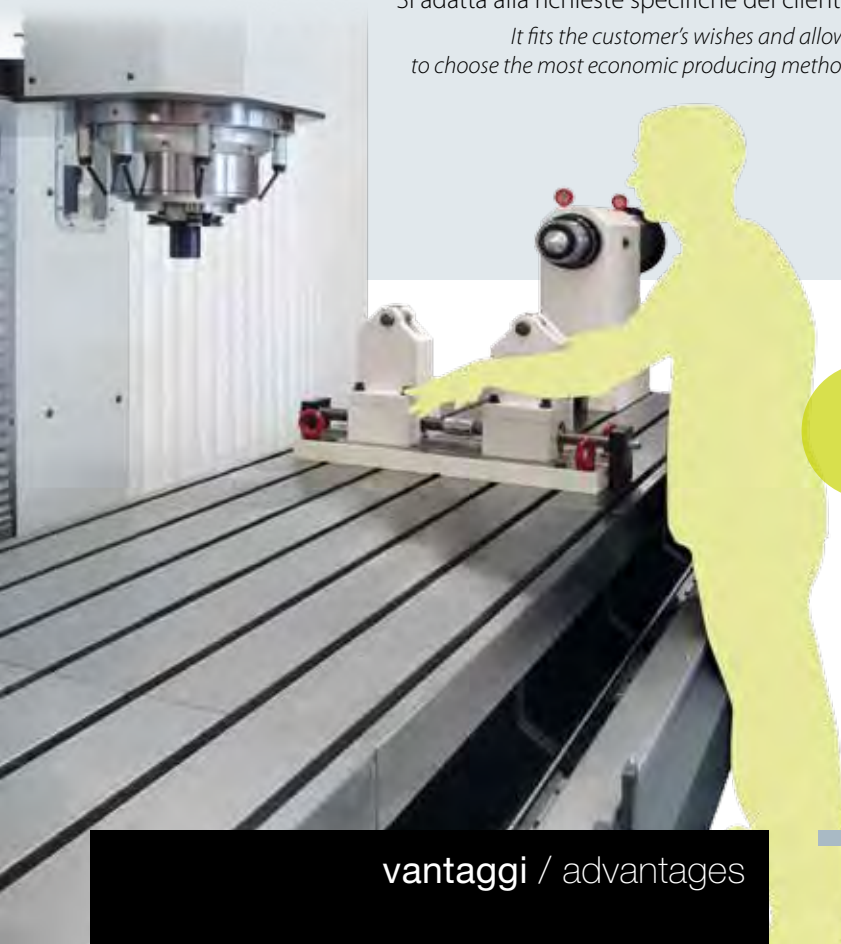


2

ergonomico ergonomic

Molto facile da asservire nelle fasi di
riattrezzamento e bloccaggio pezzo.

*Very easy to handle during set-up
and clamping of the workpieces.*





settori applicativi

application fields

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aeronautico / aircraft



automobilistico / automotive



utensileria / tools making



meccanica generale / general mechanic



preciso
accurate

Severi controlli qualitativi.
Hard quality tests.

3



applicazioni / applications

caratteristiche tecniche

technical data

Corse

Corsa longitudinale (asse X)	<i>Longitudinal travel (X axis)</i>	mm 1300 - 8000
Corsa trasversale (asse Y)	<i>Transversal travel (Y axis)</i>	mm 600
Corsa verticale (asse Z)	<i>Vertical travel (Z axis)</i>	mm 500 - 600
Corsa in pendolare	<i>Pendular travel</i>	vedi quota C / see C dimension

Tavola

Dimensioni tavola	<i>Clamping surface</i>	mm 1500 - 8300 x 520
Dimensione cave a T/passio	<i>T-slots dimension /pitch</i>	mm 100
Massimo peso ammesso	<i>Max. Table load</i>	kg 1000 - 6000

Tavola girevole

Diametro piatto rotante	<i>Diameter</i>	mm 500
Portata	<i>Max. Table load</i>	kg 500
Divisione min.	<i>Min. rotating step</i>	grado/degrees 0,001
Giri minuto	<i>Table speed</i>	rpm 80

Mandrino/Elettromandrino

	<i>Belt driven spindle/Electrospindle</i>	T3	T4
Cono mandrino	<i>Taper</i>	(ISO 40 HSK 63)	
Max velocità di rotazione	<i>Max. Spindle speed</i>	rpm 6000/10000	rpm 12000/24000
Potenza al mandrino max	<i>Max. Power</i>	kW 25	kW 35
Coppia al mandrino max	<i>Max. Torque</i>	Nm 210	Nm 260
Escursione indexaggio (asse B)	<i>Max. Spindle head rotation (B axis)</i>	/	+/-92°
Avanzamento in rotazione	<i>Rotating speed</i>	/	gradi/min 0-6000 degrees/min 0-6000
Distanza min. naso mandrino-tavola	<i>Min. Distance from spindle nose to table</i>	170	105
Distanza centro rotazione-naso mandrino	<i>Distance from rotation center to spindle nose</i>	/	mm 235,5

Cambio utensile automatico

	<i>Automatic tool changer</i>	
Posti utensile	<i>Number of tools</i>	30/60
Max diametro utensile	<i>Max. tool diameter</i>	mm 75
Max diametro utensile con adiacenti liberi	<i>Max. tool diameter by empty places</i>	mm 125
Max lunghezza utensile	<i>Max. tool length</i>	mm 300
Max peso utensile	<i>Max. tool weight</i>	Kg 4
Tempo medio truciolo-truciolo	<i>Average changing time (chip to chip)</i>	sec. 6

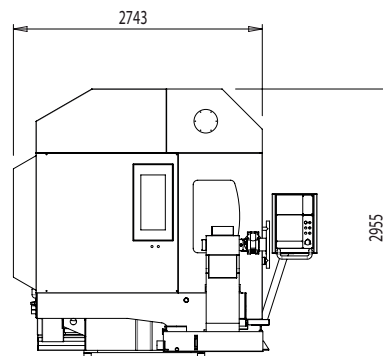
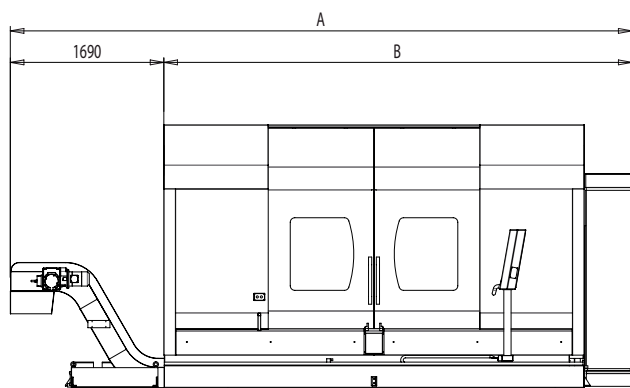
Avanzamenti

	<i>Rapid travel</i>	
Rapidi assi X	<i>X axis</i>	m/min. 50/40/36
Rapidi assi Y, Z	<i>Y - Z axis</i>	m/min. 50

Peso

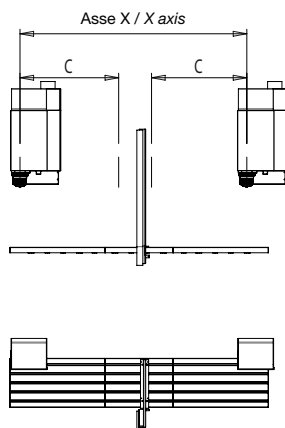
Dimensioni di ingombro	<i>Machine weight</i>	Kg 8000 - 21000
	<i>Overall dimensions</i>	vedi quote A - B / see A-B dimensions

dimensionali / dimensions

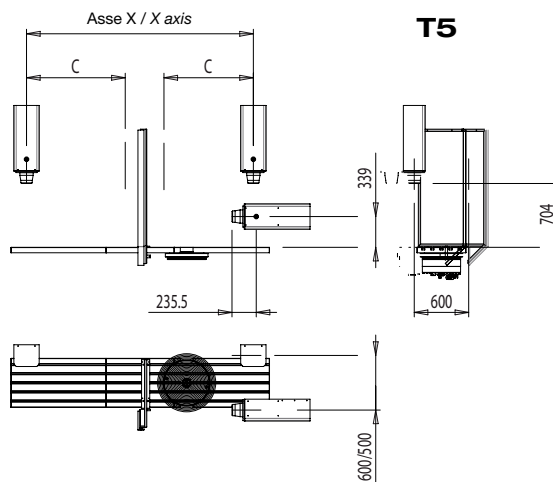
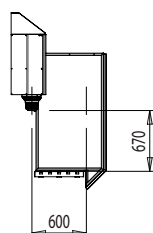


Model Size	1.3	2.0	2.5	3.3	4.0	5.0	6.0
A	5560	6160	6850	7470	8560	9760	11200
B	3870	4470	5160	5780	6870	8070	9510
C	690	770	1020	1420	1770	2270	2770

campi di lavoro / working area



T3

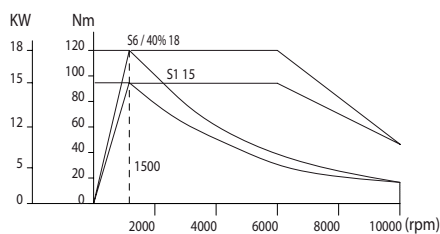


T5

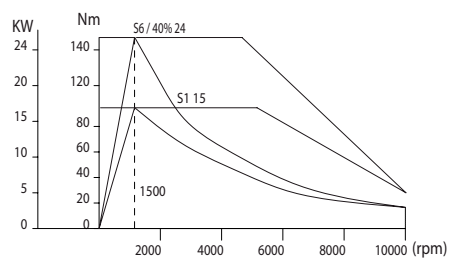
diagrammi standard / standard diagrams

Mandrino a cinghia / Belt driven spindle

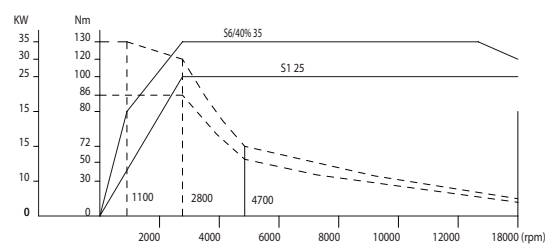
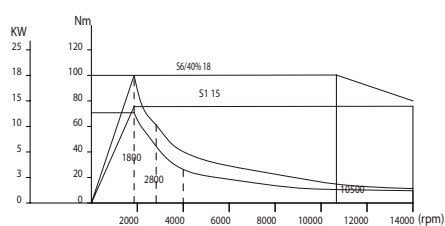
FANUC



SIEMENS



Elettromandrino / Electros spindle





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