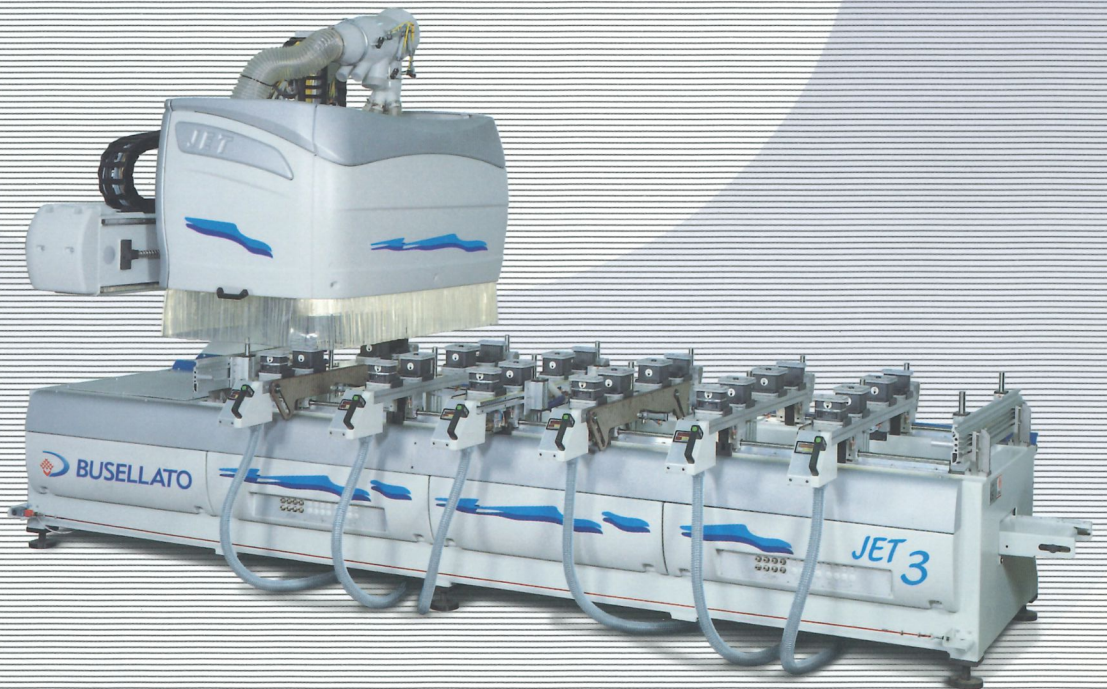


# JET 3



**BUSELLATO**

*cnc working centers and drilling solutions*

# JET 3

## Qualità e Performance

La nuova serie JET è la sintesi di una cultura aziendale, quella Busellato, tutta orientata alla qualità, perseguita costantemente con l'impiego di materiali e componenti sicuri e ad alto contenuto tecnologico.

Il modo migliore di impiegare il vostro tempo produttivo è quello di affidarsi a macchine ben costruite, senza rinunce o compromessi sulla qualità.

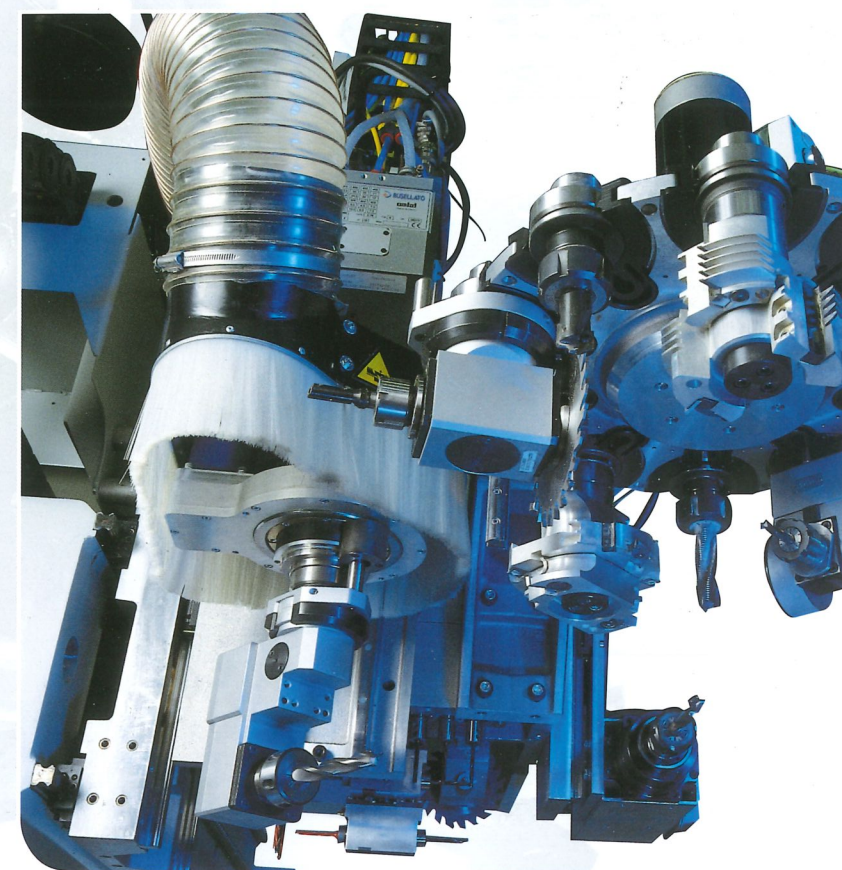
Macchine che durano nel tempo, che sopportano lavorazioni intensive e che grazie alle dotazioni di base e ai più moderni sistemi di controllo assicurano la giusta flessibilità per lavorare tutto ciò che serve per il successo della vostra azienda.

## High Quality & Performance

The new range of JET working centers is the result of Busellato's quality orientated business strategy.

The pursuit of a high quality policy is shown by the use of highly technological components and severe inspection procedures. Best use of your production time means relying on strong, fast and precise machines, constructed without compromising on quality.

Busellato's machines stand up to intense use and last a lifetime. Thanks to the reliability of its components and state of the art control systems, our machines assure maximum flexibility for all your working needs.



BUSELLATO is certified ISO 9001



# IL PIANO

## Semplicità e grande flessibilità

Per la serie JET Busellato ha sviluppato varie soluzioni di piani e ventose e numerosi dispositivi di bloccaggio. I piani in alluminio sono robusti e precisi e le ventose scorrono liberamente su tutta la lunghezza.

# THE WORK BED

## Simplicity and great flexibility

For the JET series, Busellato has developed various solutions of panel supports, vacuum cups and clamping devices.

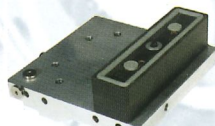
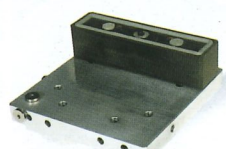
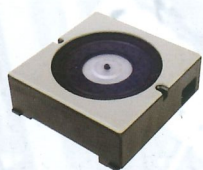
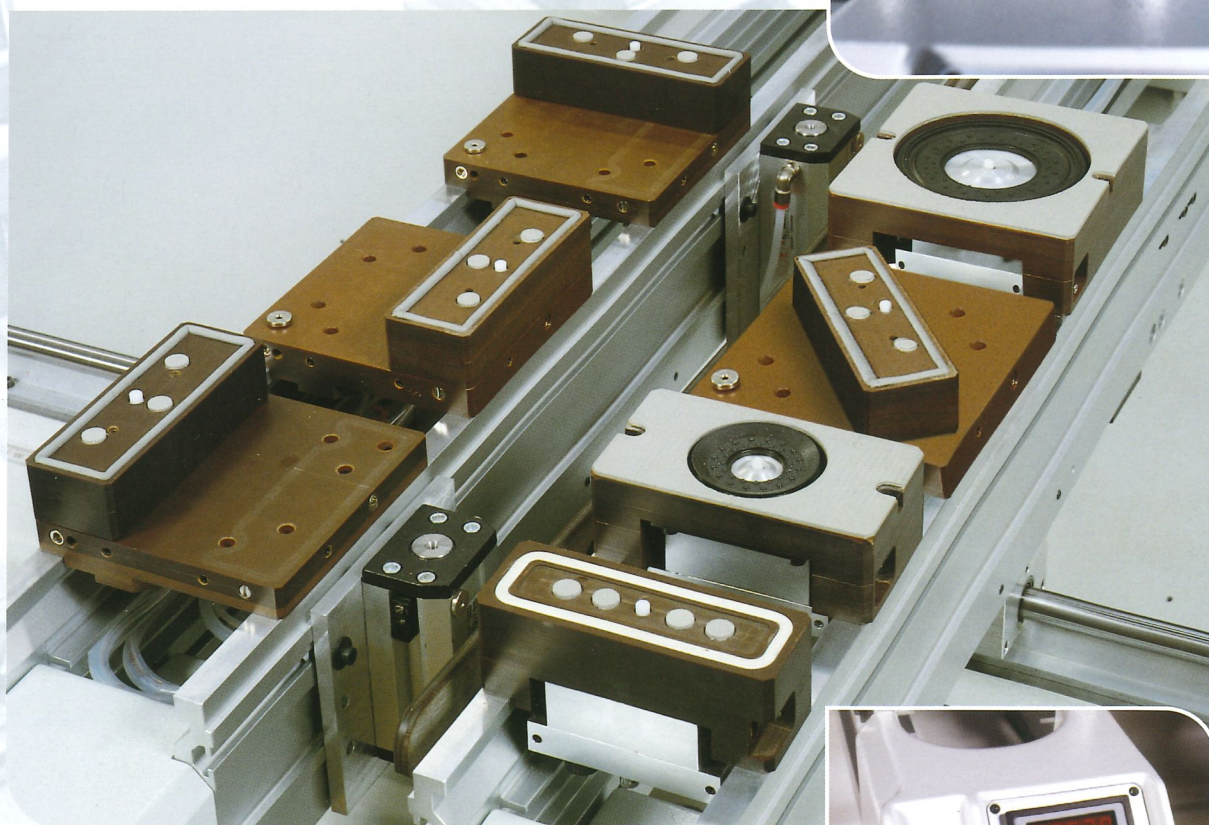
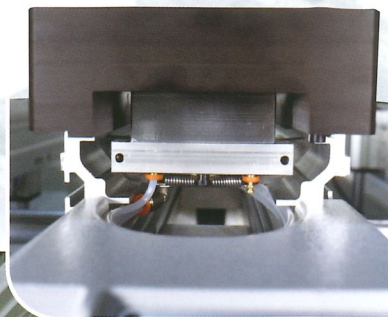
Aluminium panel supports are strong and precise. Vacuum cups move freely along the panel supports.

**MFT**

- Posizionamento automatico da CN di piani e ventose
- Automatic positioning by CN of panel supports and vacuum cups



- Particolare del bloccaggio ventosa
- Detail of vacuum cup locking system



- Esempi di ventose
- Examples of vacuum cups

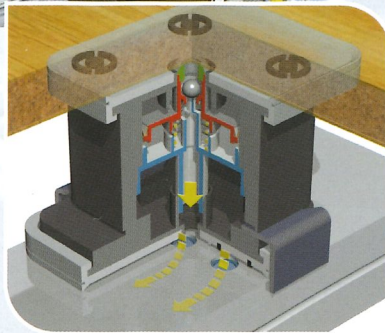
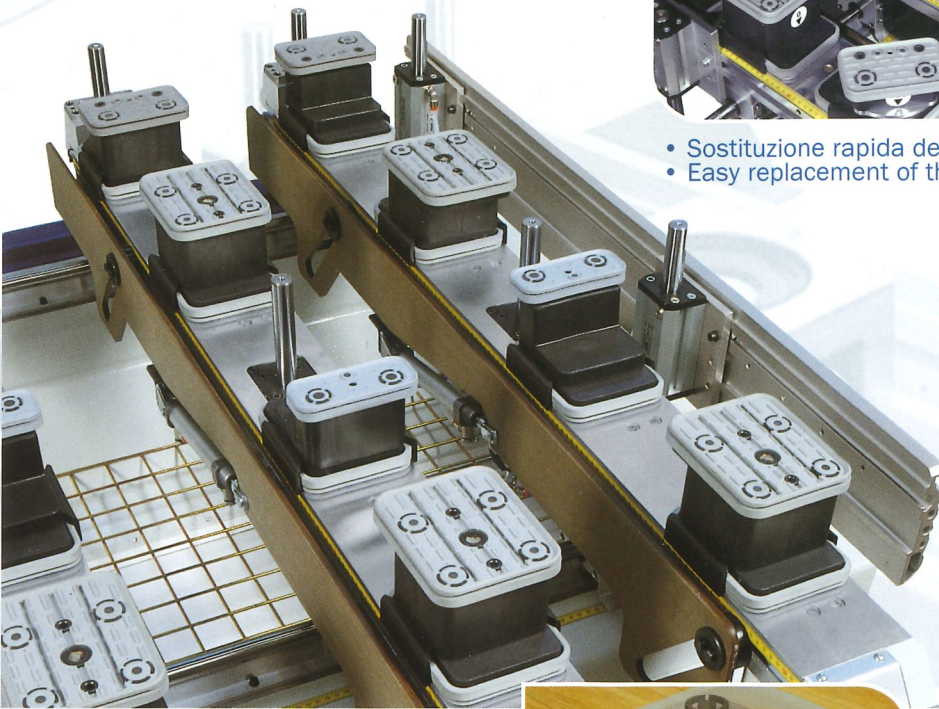
- Display sul piano
- Display on panel support



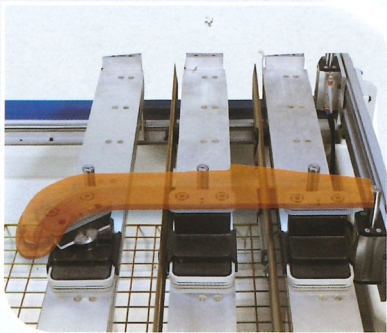
- Sostituzione rapida del rivestimento
- Easy replacement of the rubber



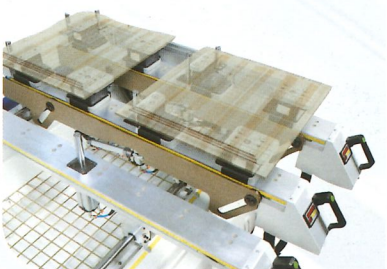
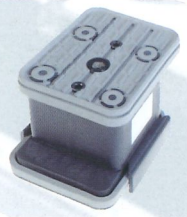
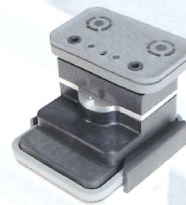
- Spostamento ventose
- Vacuum cup positioning



- Sezione ventosa TL
- TL vacuum cup section



- Display sul piano
- Display on panel support

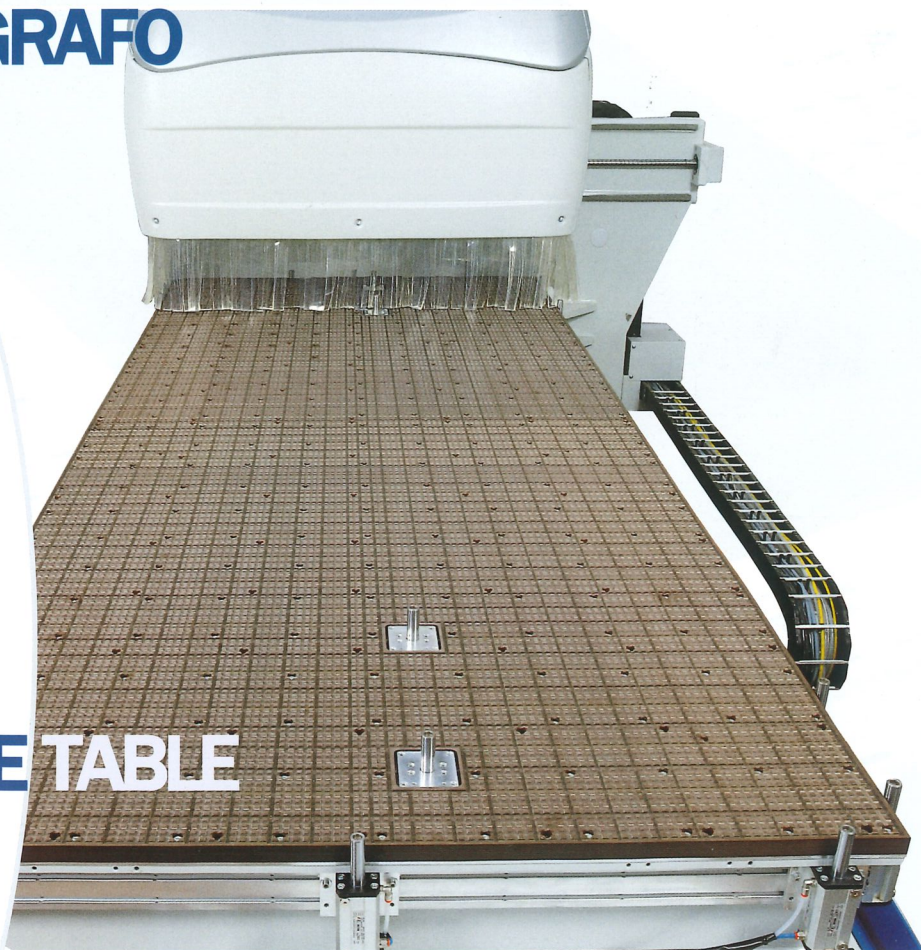


- Esempi di bloccaggio pezzi
- Clamping of parts

- Gamma ventose per piani TL
- Range of cups for TL panel supports

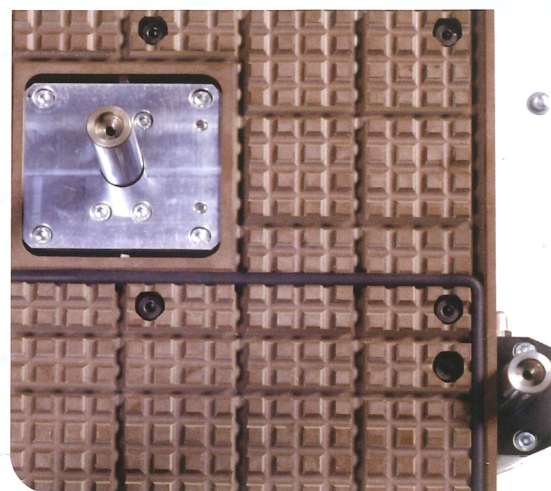
# IL PIANO PANTOGRAFO

- ✓ Varie misure di piano
- ✓ Nesting a tutto piano
- ✓ 4 aree di lavoro
- ✓ Battute posteriori, laterali e centrali
- ✓ Piano lavorato sulla macchina per assoluta precisione
- ✓ Utilizzo di ventose rialzate per lavorazioni orizzontali
- ✓ Dispositivi evacuatori

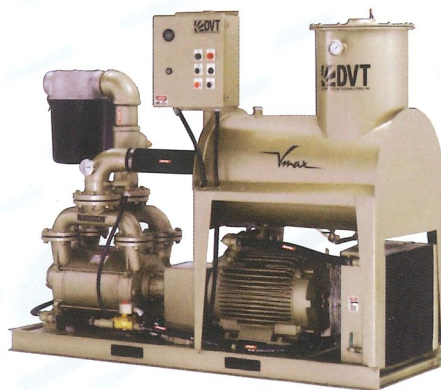


## THE ROUTER TYPE TABLE

- ✓ Various table sizes
- ✓ Full sheet nesting
- ✓ 4 working areas
- ✓ Rear, lateral and central reference stops
- ✓ Working grid routed on the machine for maximum precision
- ✓ Elevated vacuum cups for horizontal machining
- ✓ Panel expulsion devices



- Battute di riferimento
- Reference stops



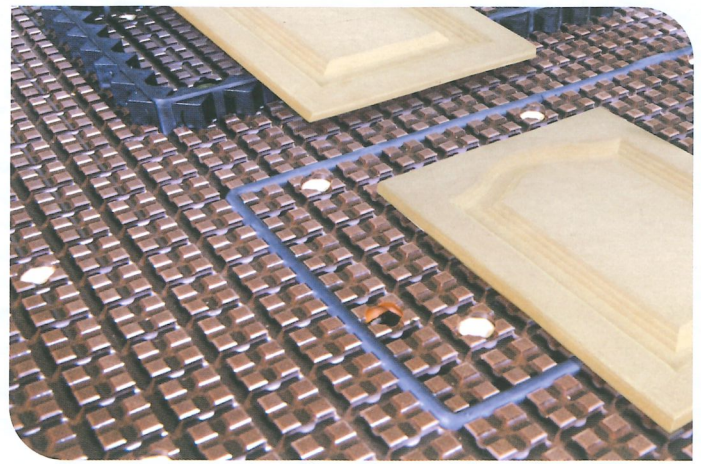
- Pompa soffiante
- High flow vacuum pump



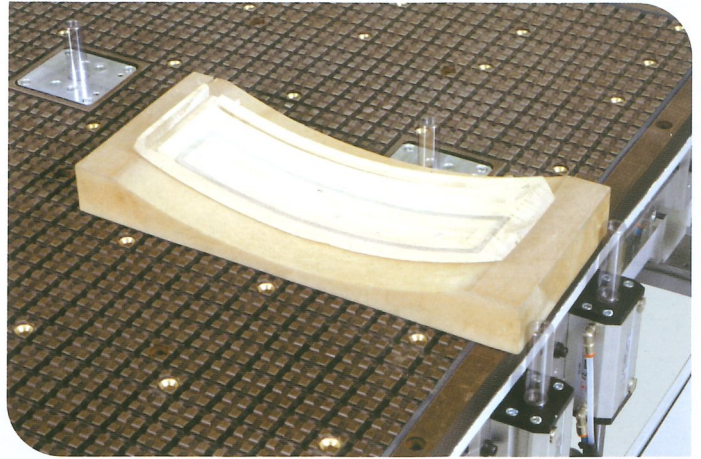
- Pompa del vuoto
- Vacuum pump



- Esempio di lavorazione nesting
- Example of nesting

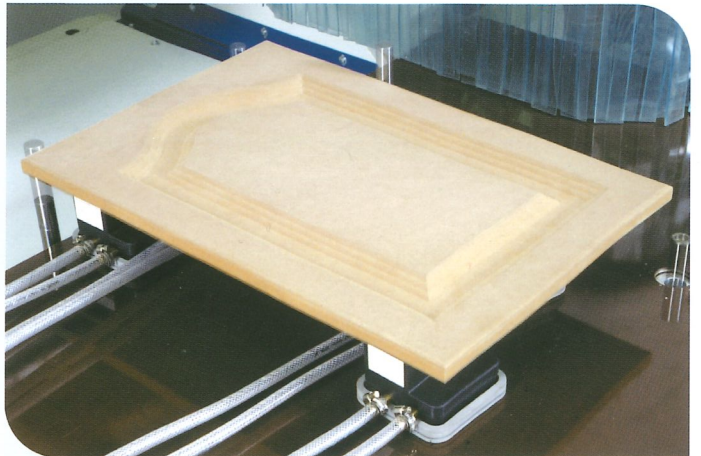
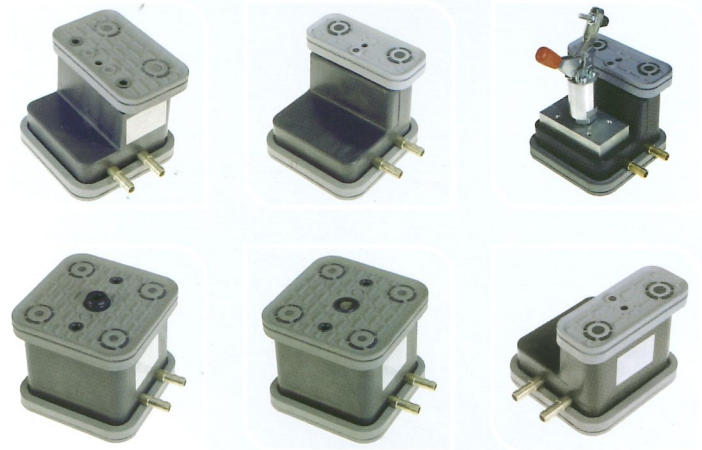


- Guarnizioni per selezione vuoto
- Gaskets for selecting vacuum area

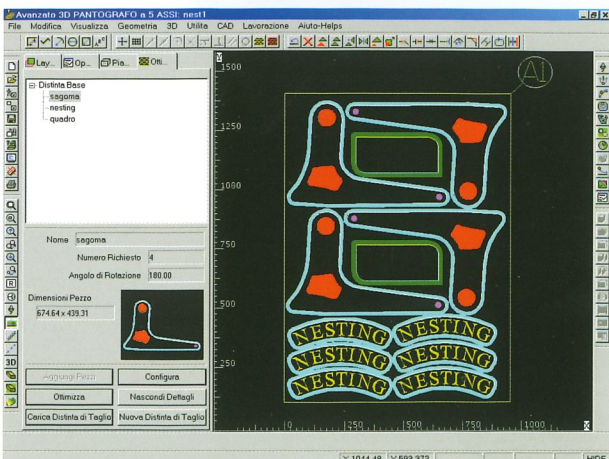


- Controsagoma per pezzi curvi
- Jig locking for curved parts

- Esempi di ventose per piano pantografo
- Examples of vacuum cups for router type table



- Ventose rialzate
- Elevated vacuum cups



- Software per nesting
- Software for nesting



- Fissaggio pezzo su pannello martire
- Panel held on spoilboard

# FRESATURA E FORATURA

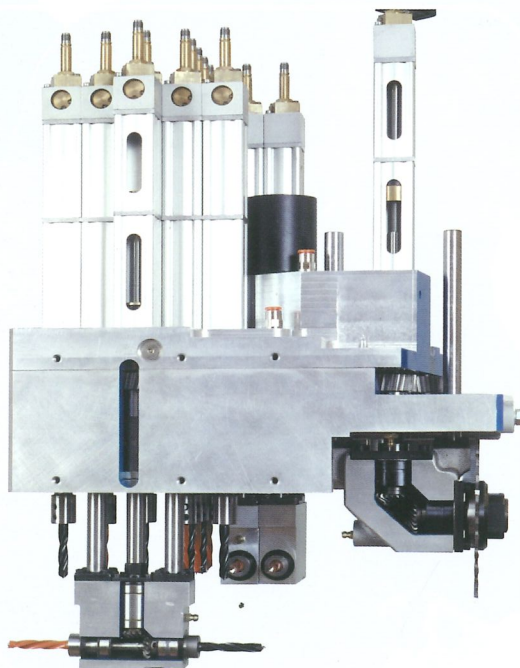
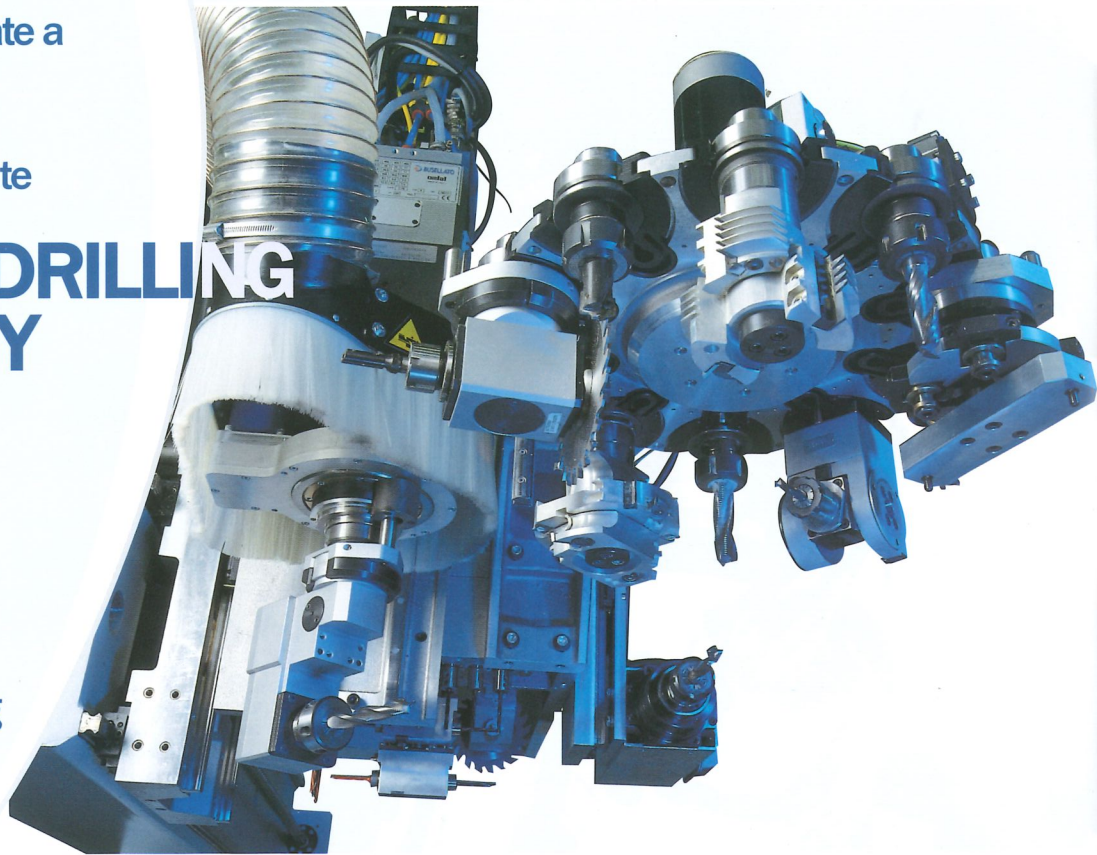
Potenza e precisione

- ✓ Varie soluzioni di elettromandri e testate a forare disponibili
- ✓ Composizione testata specifica per ogni cliente

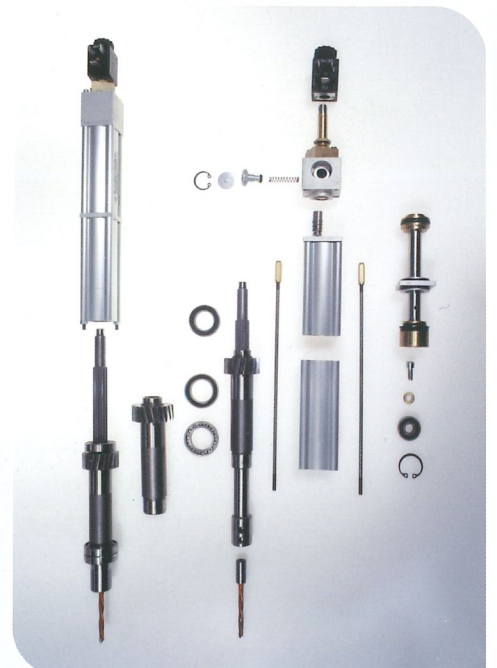
# ROUTING & DRILLING TECHNOLOGY

Power & precision

- ✓ Various options for electrospindles and boring heads
- ✓ Working head composition according to customers' requirements



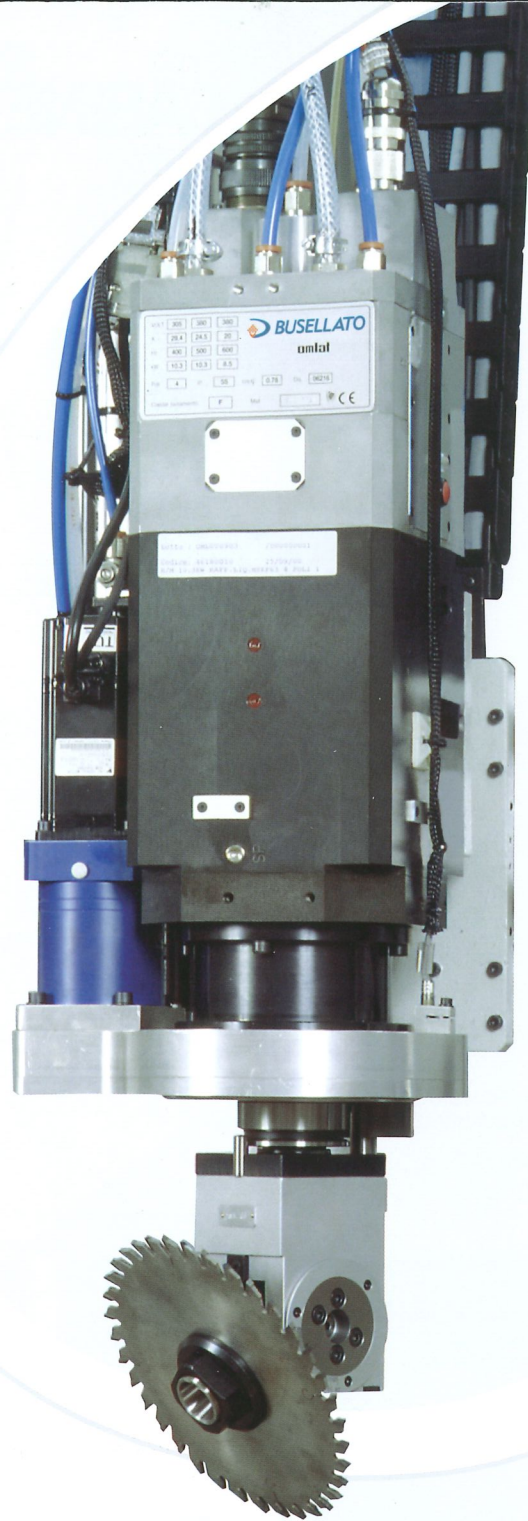
- Spaccato di testa a forare
- Section of the drilling head



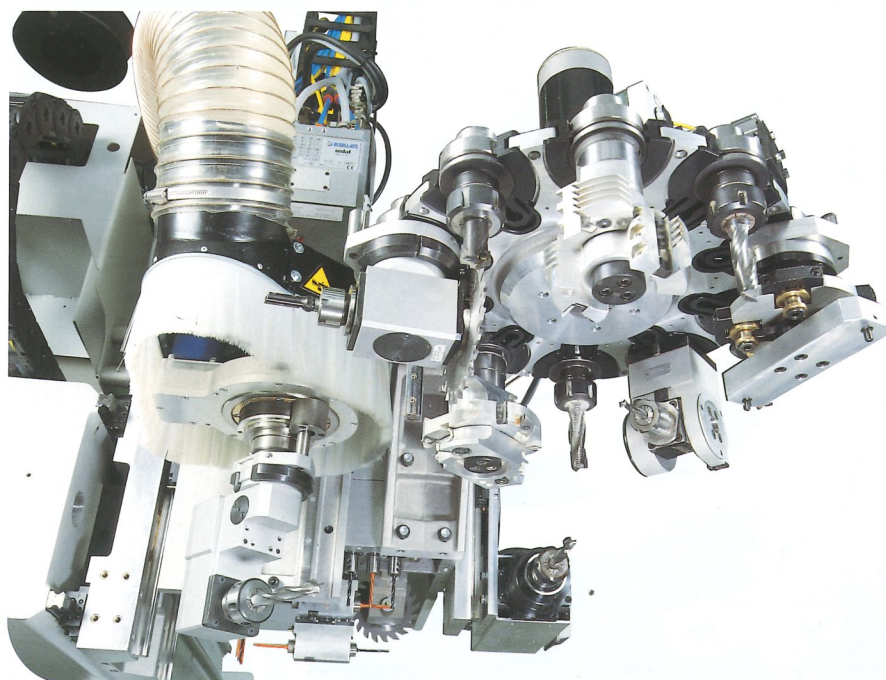
- Particolari del mandrino di foratura
- Detail of a drilling spindle



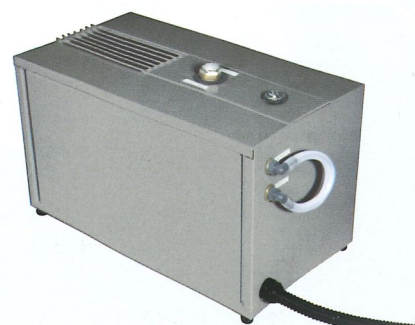
- Elettromandrino ISO 30
- ISO 30 electrospindle



- Elettromandrino HSK F63 refrigerato a liquido
- HSK F63 electrospindle, liquid cooled

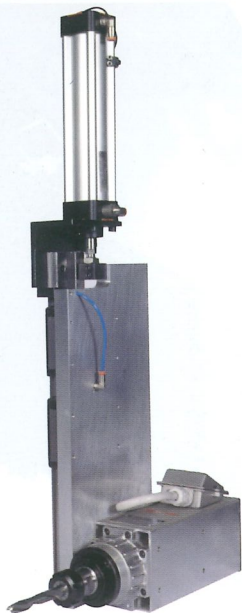


- Magazzino rotativo a bordo testa
- Head mounted rotary tool changer

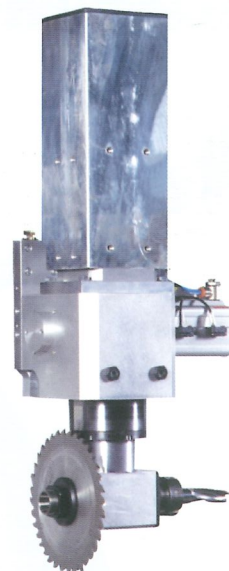


- Gruppo refrigeratore per motori HSK F63
- Cooling system for HSK F63 electrospindles





- Fresatore orizzontale
- Horizontal router (direct motor)



- Gruppo fresa/lama a 2 uscite 0 - 90°
- 2 outlet saw/router unit 0 - 90°



- Testina fresa/lama inclinabile
- diam. lama 180 mm, lunghezza utile utensile 60 mm - ERG 25
- Aggregate for routing/sawing, adjustable 0-90°
- blade diam. 180 mm, useful tool length 60 mm - ERG 25



- Testina fresa/lama inclinabile
- diam. lama 180 mm, lunghezza utile utensile 60 mm - ERG 25
- Aggregate for routing/sawing, adjustable 0-90°
- blade diam. 180 mm, useful tool length 60 mm - ERG 25



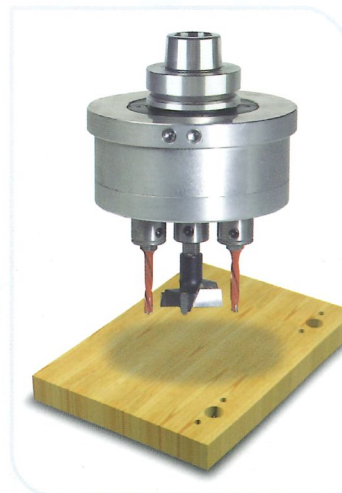
- Testina fresa/lama a 2 uscite orizzontali
- diam. lama 140 mm, lunghezza utile utensile 85 mm - ERG 25
- 2 outlet aggregate for horizontal routing/sawing
- blade diam. 140 mm, useful tool length 85 mm - ERG 25



- Testina di fresatura con tastatore
- ERG 32
- Routing aggregate with tracer
- ERG 32



- Testina di profilatura con copiatore laterale
- ERG 32
- Routing aggregate with lateral feeler
- ERG 32



- Testina per lavorazione per cerniere
- Aggregate for hinges

# ELECTROSPINDLE HSK F63

POTENZA ✓

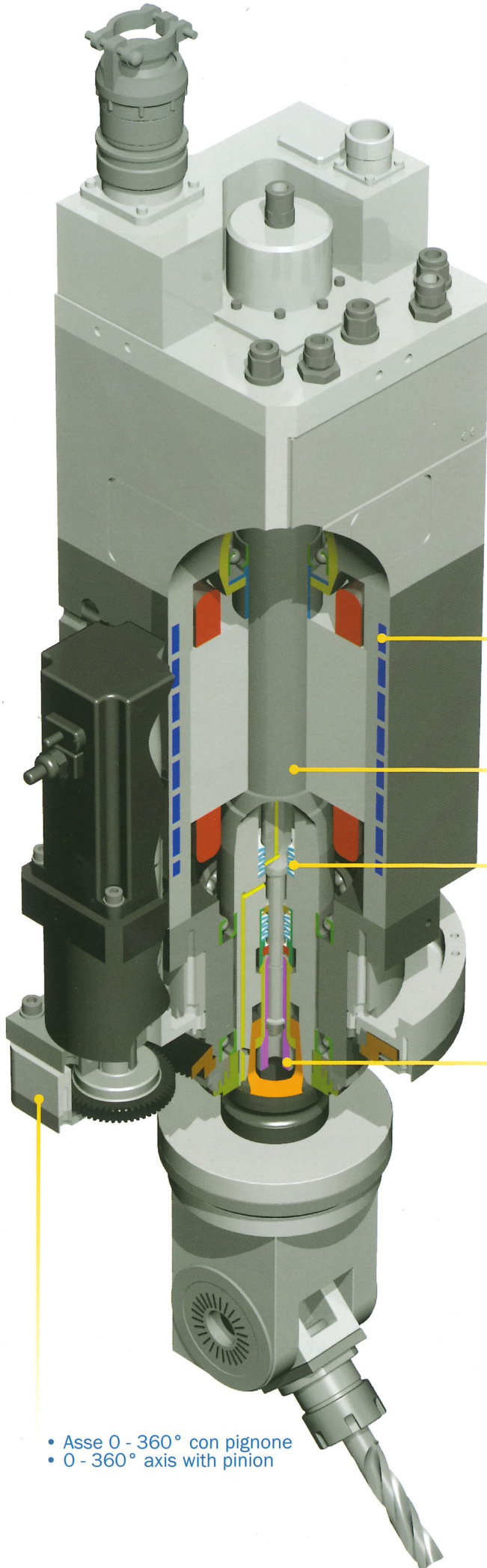
PRECISIONE ✓

SICUREZZA ✓

POWER ✓

PRECISION ✓

SAFETY ✓



• Liquido di raffreddamento  
• Liquid cooling system

• Albero  
• Shaft

• Molle a tazza  
• Disk spring package

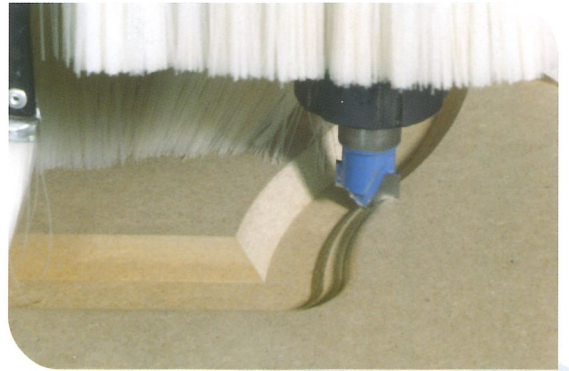
• Sistema di bloccaggio HSK  
• HSK clamping system

• Asse 0 - 360° con pignone  
• 0 - 360° axis with pinion

# PANNELLI - CABINETS



- Lavorazione antina MDF
- Machining of MDF door front



- Lavorazione di un fianco
- Machining of a cabinet side

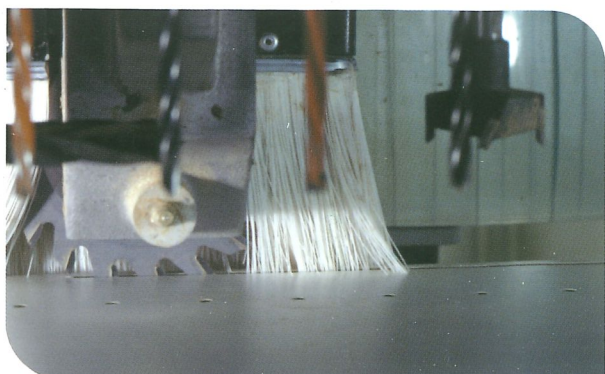


- Foratura orizzontale
- Horizontal drilling

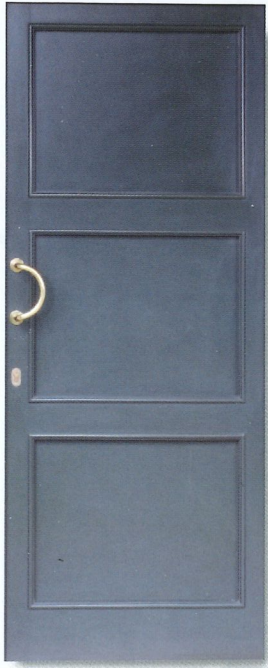
- Foratura multipla verticale
- Vertical fitting



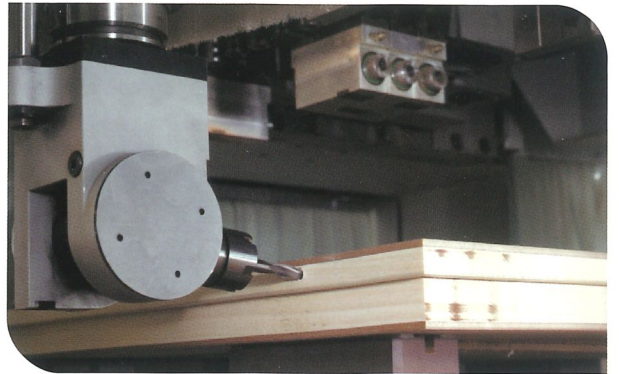
- Esecuzione lamata
- Grooving



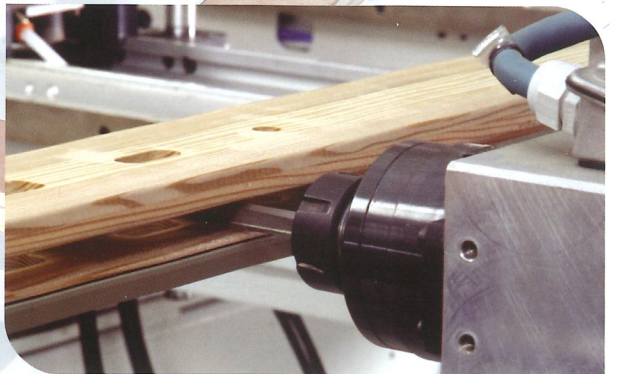
# PORTE - DOORS



- Sfinestratura
- Internal routing

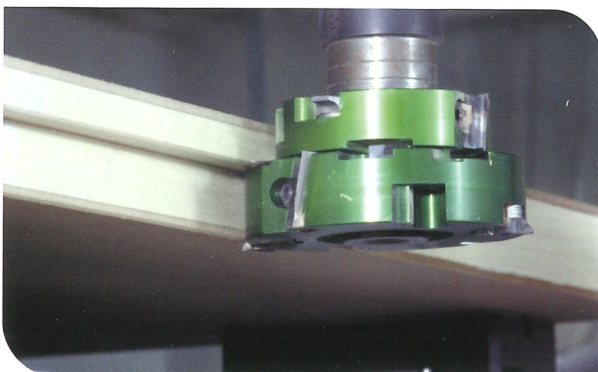


- Lavorazione per anuba
- Machining for door hinge

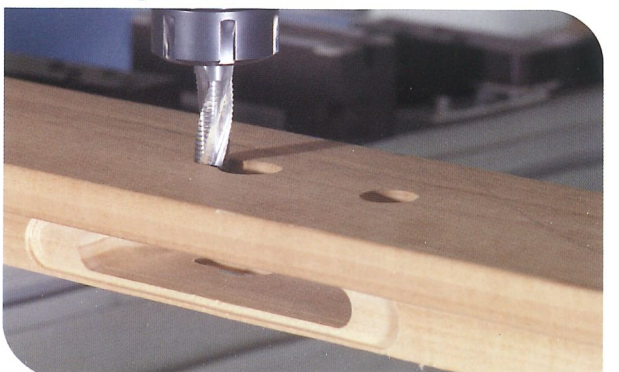


- Lavorazione scasso serratura
- Machining of door lock slot

- Profilatura esterna
- External profiling



- Lavorazione fori per maniglia
- Machining for door handle

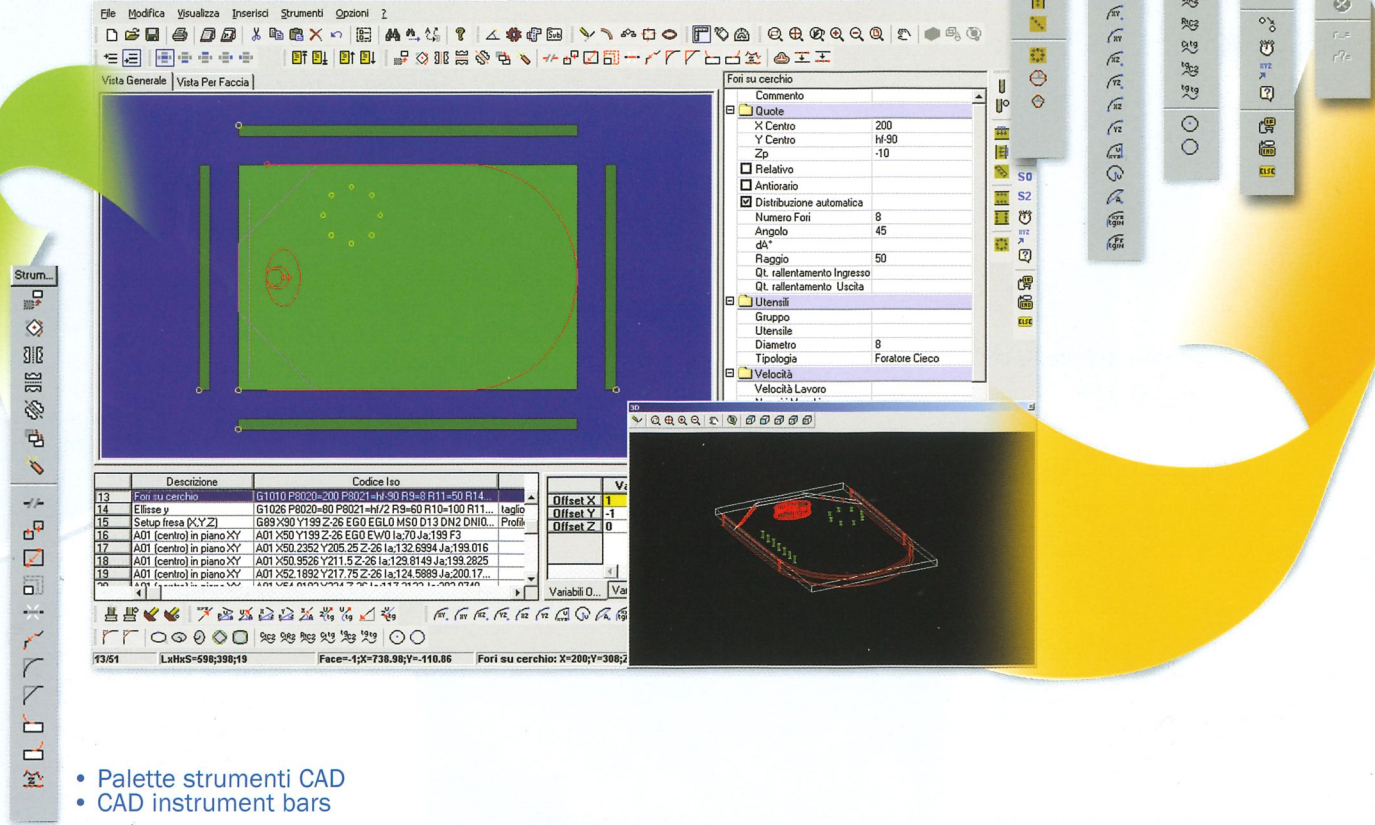


# GENESIS EVOLUTION

Programmare non è mai stato così facile

Programming has never been so easy

- Palette per selezione lavorazioni
- Machining bars



- Palette strumenti CAD
- CAD instrument bars

Graphical programming on 6 faces ✓

Import of .dxf, .dwg files ✓

Free optimization ✓

3D Projections ✓

Full CAD/CAM ✓

Virtual faces ✓

Teleservice ✓

Reporting ✓

GENESIS EVOLUTION è stato concepito per fornire all'Utente finale uno strumento particolarmente potente ed intuitivo per la programmazione del centro di lavoro multifunzionale.

A questo scopo, GENESIS EVOLUTION mette a disposizione una serie di facilitazioni alla Programmazione, sia in ambito tecnologico che in ambito grafico, attraverso una serie di facilities geometriche e di strumenti di manipolazione dei disegni che consentono una più facile e sicura programmazione delle traiettorie di lavorazione.

GENESIS EVOLUTION è un programma sviluppato a 32 bit in modo conforme agli standard previsti dall'ambiente Windows.

GENESIS EVOLUTION has been designed in order to give the end user a powerful and user friendly instrument for programming the multifunctional working center.

With this aim, GENESIS EVOLUTION offers a series of special programming facilities, both technological and graphical, via a series of geometric facilities and instruments for manipulating drawings, that allow easier and a more secure programming of the machining trajectories.

GENESIS EVOLUTION is a program developed on 32 bit so as to conform with the implemented standard foreseen by the Windows environment.

# RAILPLAN

- Videata di Railplan
- Railplan screen

**RAILPLAN** è l'ambiente grafico previsto sul Controllo Numerico **GENESIS EVOLUTION**, per la Configurazione ed il Piazzamento interattivo delle traverse e ventose che costituiscono il banco di lavoro.

In questa fase l'Operatore può decidere come "popolare" le singole traverse sulla base del numero disponibile di ogni tipologia di ventose, potendo verificarne visivamente sulla rappresentazione grafica, gli spazi disponibili e gli eventuali vincoli.

Obiettivo finale è di consentire un posizionamento ottimale delle traverse / ventose, che da un lato garantisca la corretta tenuta dei pannelli, e dall'altro che non incorra in interferenze tra i dispositivi di bloccaggio e l'utensile in lavorazione, con particolare riguardo alla lavorazioni passanti ed a quelle sui bordi laterali.

Al termine della sessione di programmazione, il sistema fornisce una serie di informazioni che consentono il piazzamento in automatico tramite il dispositivo da CN o in manuale tramite visualizzatori digitali e righe metriche.

**RAILPLAN** is the graphical environment foreseen by the **GENESIS EVOLUTION** Numerical Control, for the configuration and interactive placement of the panel supports and vacuum cups which make up the work bed.

In this phase, the operator can decide how to "populate" the individual panel supports depending on the number of vacuum cups of each type available, and can visually check the spaces available and any eventual restrictions on the graphical depiction.

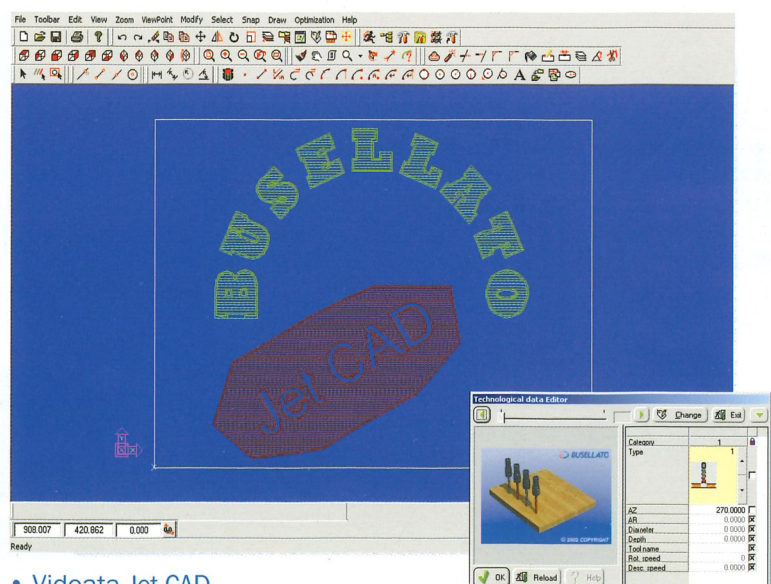
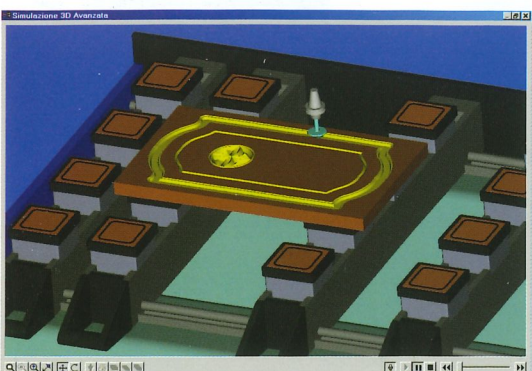
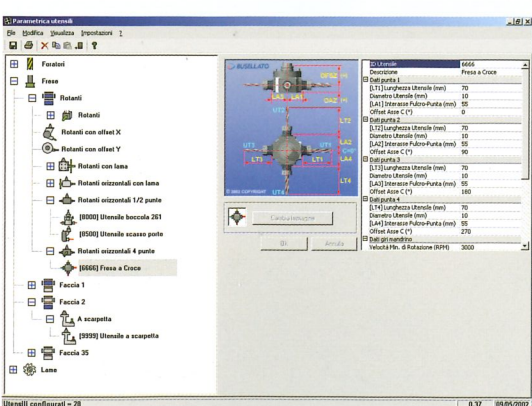
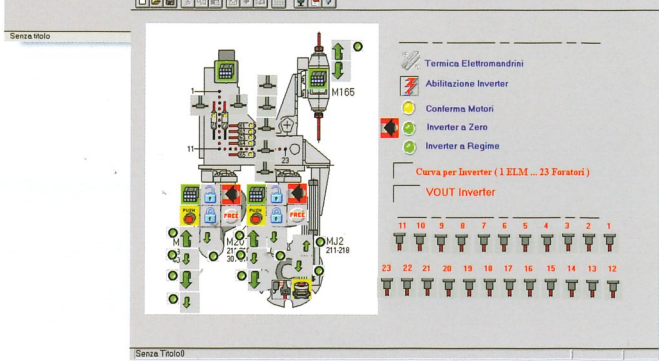
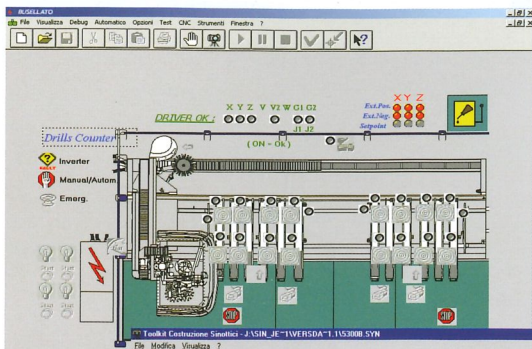
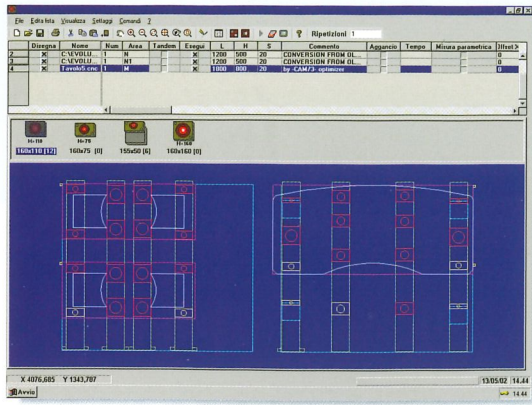
The aim is to allow optimal positioning of the panel supports / vacuum cups, which guarantees both correct clamping of the panels and that there is no interference between the clamping devices and machining tools, with particular concern to the blank machinings and those on the lateral edges.

At the end of the programming session, the system supplies a series of information which allows automatic placing via the NC device or manual placing via digital displays and metric lines.

- Pagina con sinottici
- Examples of synoptics

- Pagina di parametrica utensile
- Example of tool parametrics

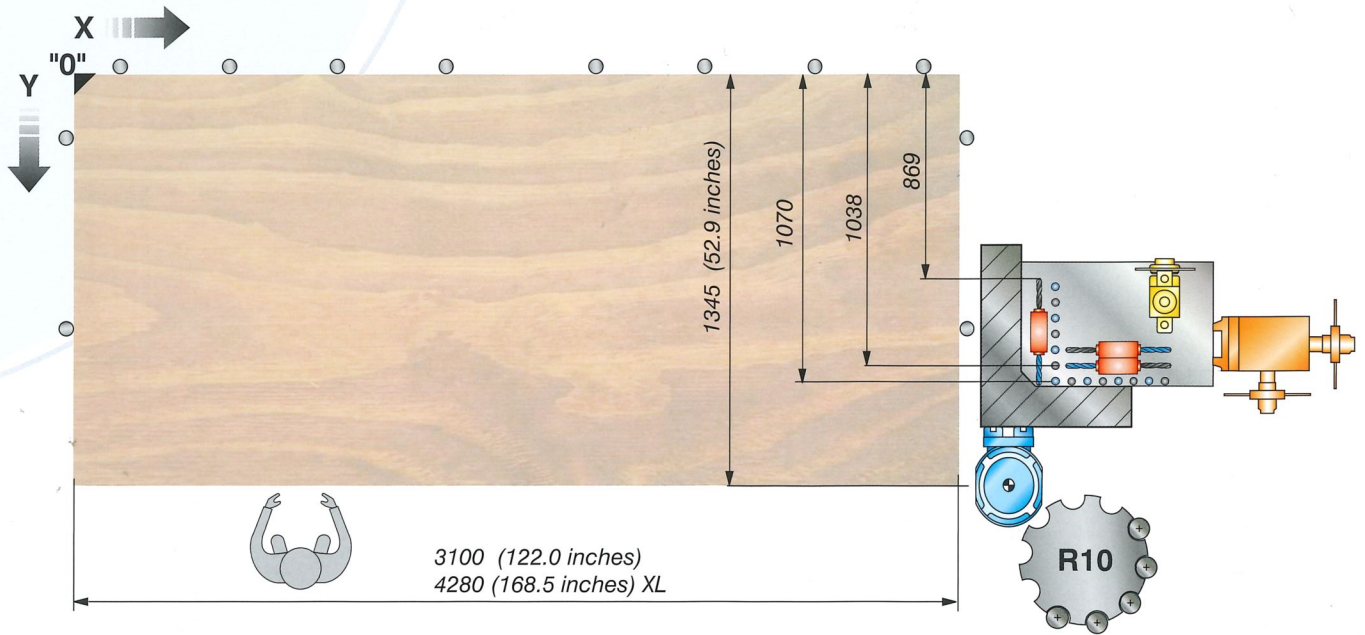
- Videata Jet CAD
- Jet CAD screen



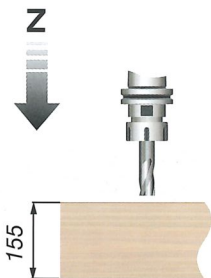
# DATI TECNICI - TECHNICAL FEATURES

## JET 3

CAMPI DI LAVORO [mm]  
WORKING AREAS [mm]



SPESSORE UTILE LAVORABILE [mm]  
USEFUL WORKING THICKNESS [mm]



## CARATTERISTICHE TECNICHE TECHNICAL FEATURES

CORSE UTILI	USEFUL STROKE
ASSE X	X AXIS
ASSE Y	Y AXIS
ASSE Z	Z AXIS

TESTA A FORARE	BORING HEAD
Mandrini verticali asse X	X axis vertical spindles
Mandrini verticali asse Y	Y axis vertical spindles
Mandrini orizzontali asse X	X axis horizontal spindles
Mandrini orizzontali asse Y	Y axis horizontal spindles
Lama integrata	Integrated saw
Potenza motore	Motor power

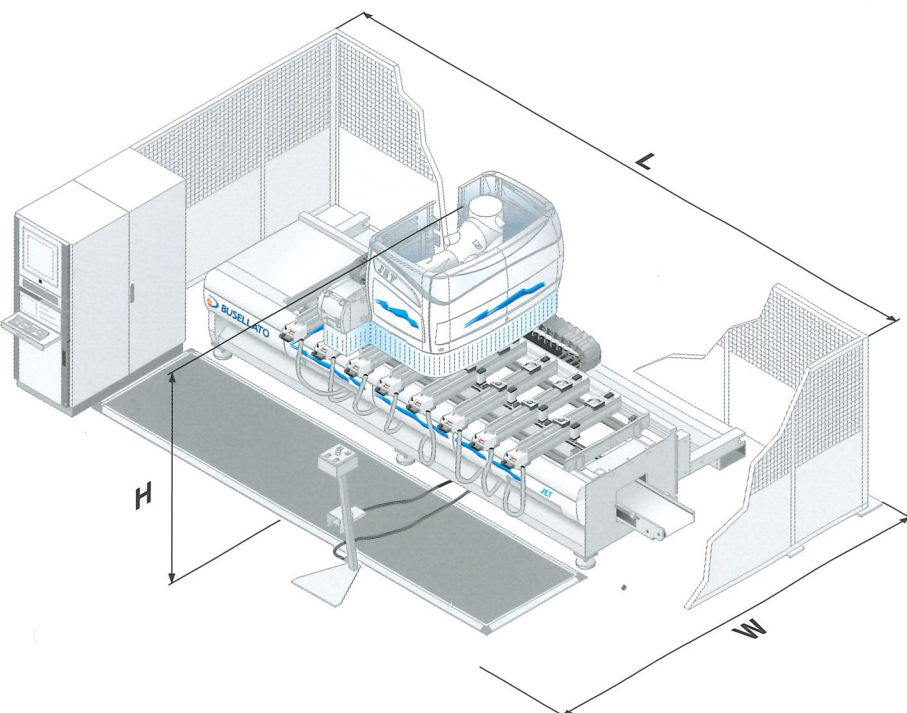
POTENZA MAX ELETTROMANDRINO	MAX ELECTROSPINDLE POWER
POTENZA INSTALLATA	POWER INSTALLED
CAPACITÀ POMPA VUOTO	VACUUM PUMP CAPACITY
PRESSIONE ARIA COMPRESSA	COMPRESSED AIR PRESSURE
CONSUMO ARIA COMPRESSA	COMPRESSED AIR CONSUMPTION
ATTACCO ARIA COMPRESSA	AIR CONNECTION COUPLING
DIAMETRO BOCCA DI ASPIRAZIONE	DUST EXTRACTION OUTLET
CONSUMO ARIA ASPIRAZIONE	EXTRACTION AIR CONSUMPTION
VELOCITÀ ARIA ASPIRAZIONE	EXTRACTION AIR SPEED
PESO MACCHINA	MACHINE WEIGHT

	JET 3	JET 3 XL
--	-------	----------

mm	3550	4730
mm	1495	
mm	200	

	TF 14+6	TF 19+8
Nr.	8	11
Nr.	6	8
Nr.	2+2	3+3
Nr.	1+1	1+1
∅ mm	120	120
kW	3	3

kW	10,3	
kW	16 ÷ 29	
m <sup>3</sup> /h	100 ÷ 250	
bar	6	
l/1'	30	
Gas	1/2"	
∅ mm	250	
m <sup>3</sup> /h	5300	
m/s	30	
kg	4050	4500



## DIMENSIONI DIMENSIONS

	JET 3	JET 3XL
--	-------	---------

L	mm	6130	7310
W	mm	4240	
H	mm	2640	





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[www.delmac.com](http://www.delmac.com) - e-mail: [delmac@delmac.it](mailto:delmac@delmac.it)

### **CELASCHI S.p.A.**

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