



JET MASTER 20 – JET MASTER 25

with IMC panel supports and router table



WORKING FIELDS

JET MASTER 20 WF - 3300 x 1550 x 330 mm

JET MASTER 20 WF XL - 4800 x 1550 x 330 mm

JET MASTER 20 WF XXL - 6400 x 1550 x 330 mm

RT = router table

JET MASTER 20 RT WF - 3296 x 1556 x 350 mm

JET MASTER 20 RT WF XL - 4796 x 1556 x 350 mm

JET MASTER 20 RT WF XXL - 6416 x 1556 x 350 mm

JET MASTER 25 WF - 3300 x 1550 x 300 mm

JET MASTER 25 WF XL - 4800 x 1550 x 300 mm

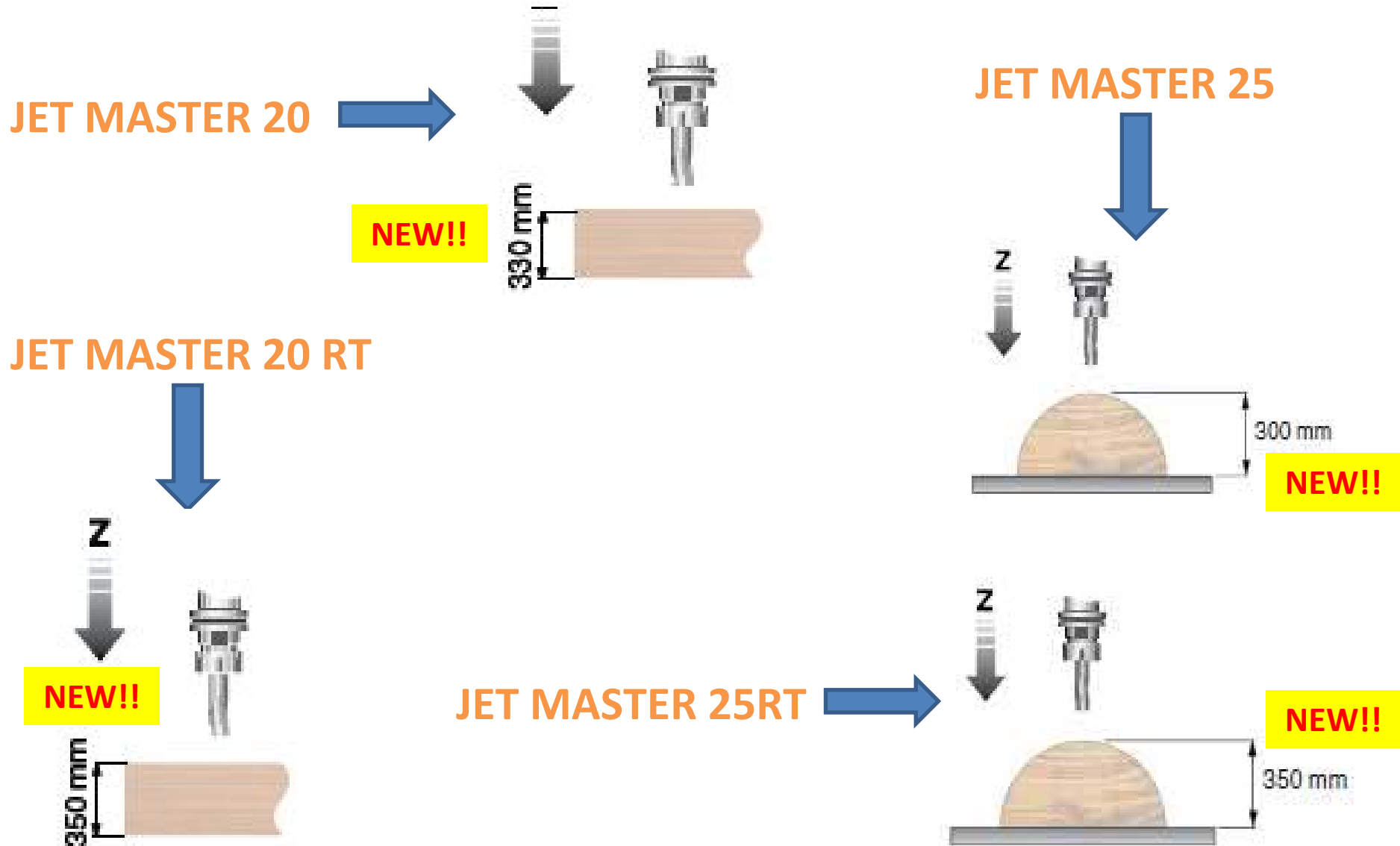
JET MASTER 25 WF XXL - 6400 x 1550 x 300 mm

JET MASTER 25 RT WF - 3296 x 1556 x 350 mm

JET MASTER 25 RT WF XL - 4796 x 1556 x 350 mm

JET MASTER 25 RT WF XXL - 6416 x 1556 x 350 mm

LOADING PIECE



REFERENCES



**JET MASTER 25 WF XL – motorized IMC panel supports – doors/windows production -
POLAND**



JET MASTER 25 WF XL – manual IMC panel supports – door production – SWEDEN



**JET MASTER 25 WF XL – manual IMC panel supports – doors/windows production – POLAND
In production.... JET MASTER 25 WF XXL – motorised panel supports –
doors/windows production - POLAND; JET MASTER 25 WF RT - RUSSIA**

STANDARD CONFIGURATION

Automatic lubrication system

Double independent Z carriage (NEW SOLUTION)

Air conditioning system for electrical cabinet

N° 4 jig locking device connections

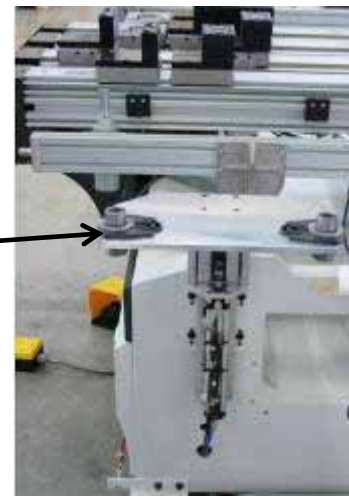
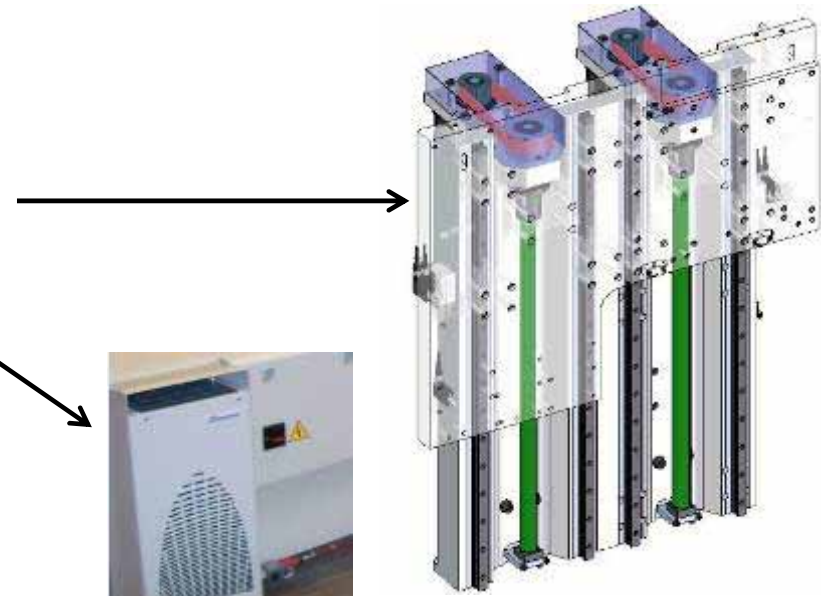
N° 1 air pressure plug

Partialized dust extraction collector

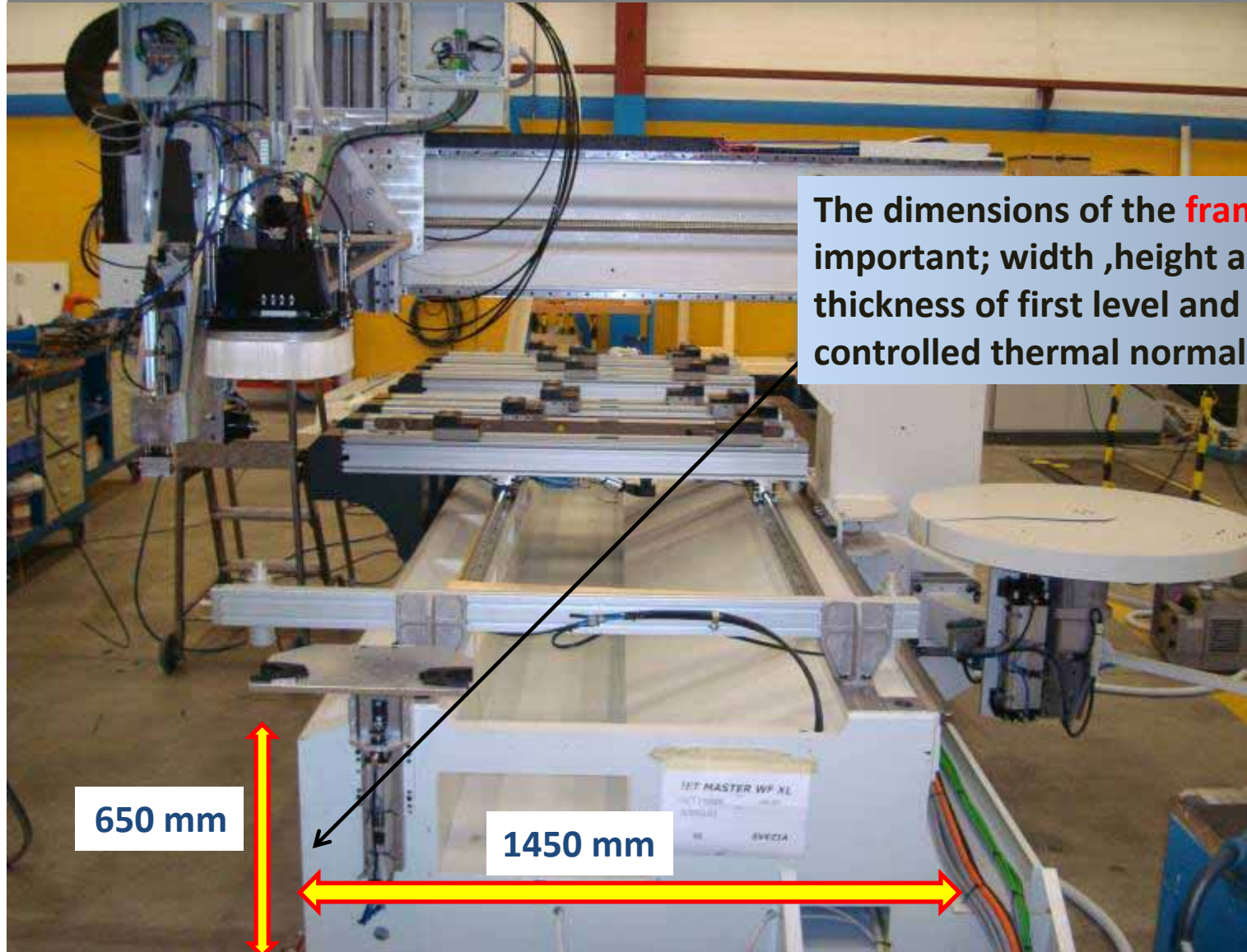
Tele-service system via internet

Integral safety guard (new shape and material)

Mobile lateral tool position - HSK F63 (5 axis)



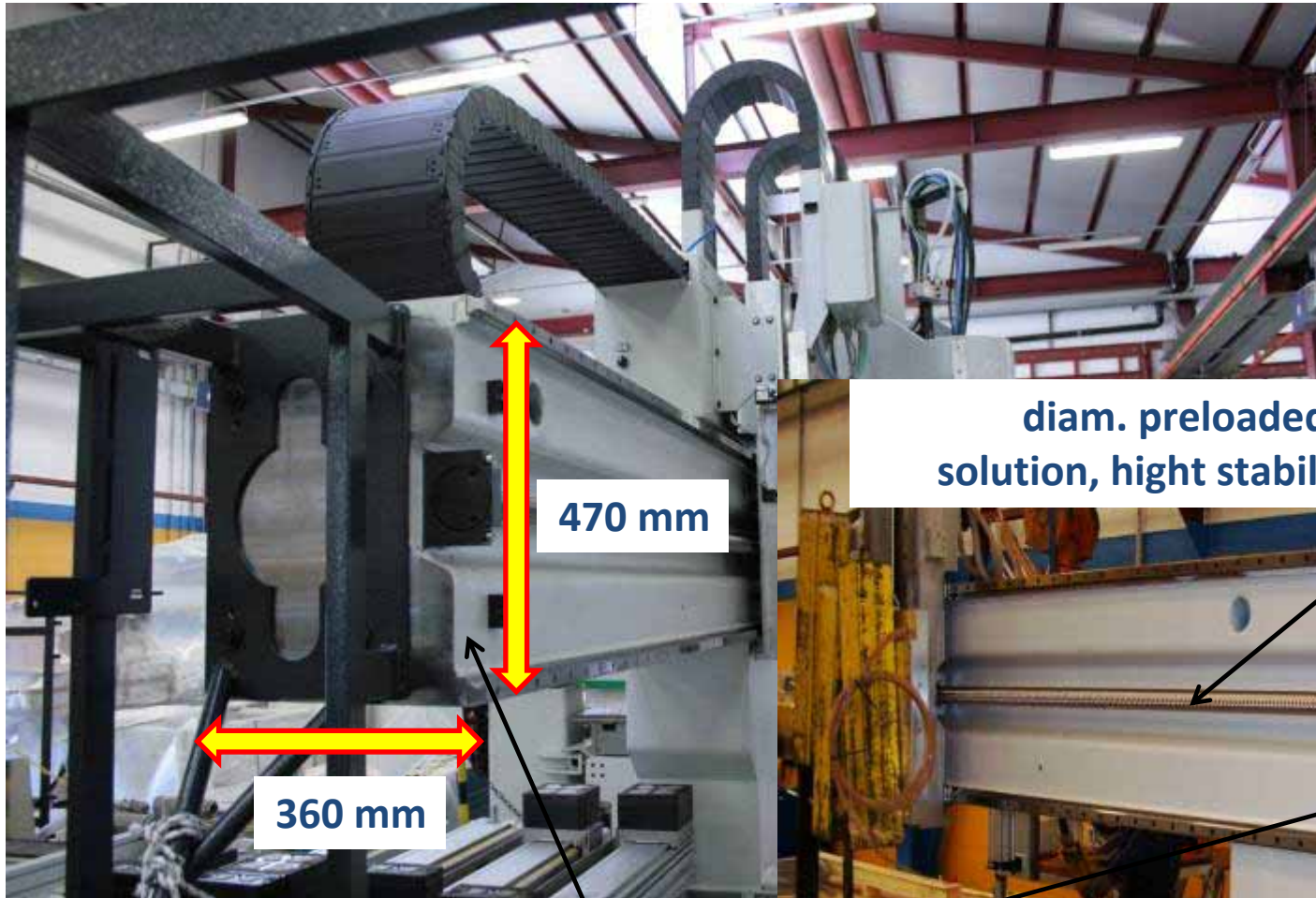
STRUCTURE



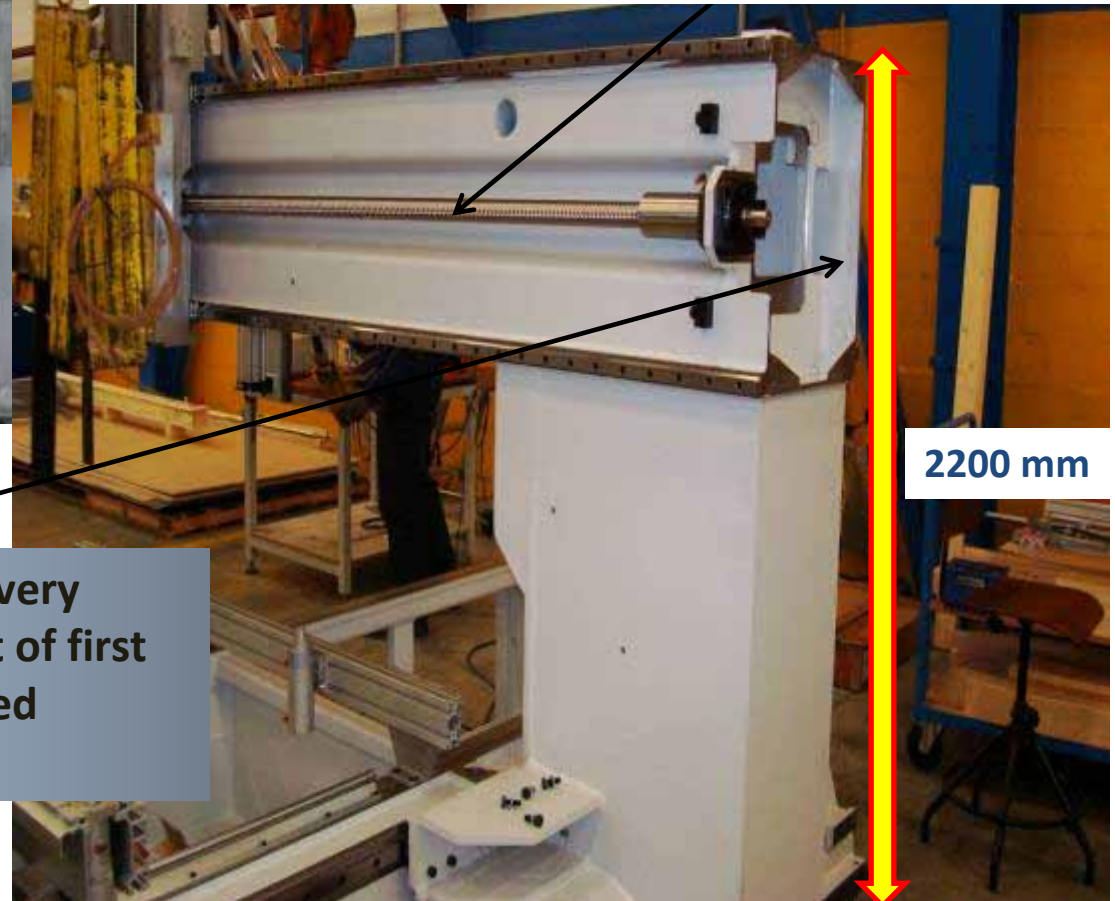
The dimensions of the **frame** are really important; width ,height and heavy thickness of first level and also it's under a controlled thermal normalization cycle

650 mm

1450 mm

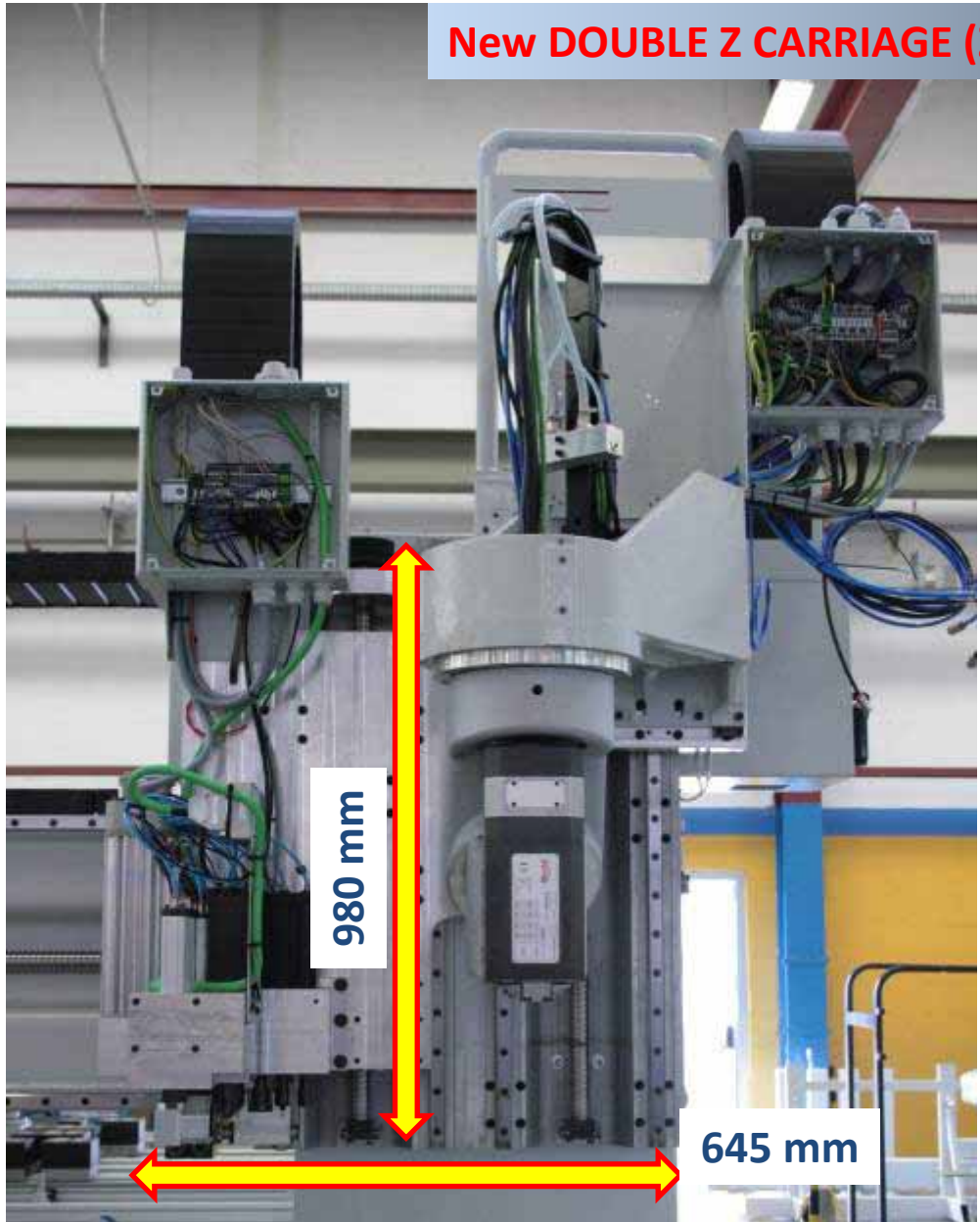


diam. preloaded screw 40 mm, high level solution, high stability for the units mounted



The dimensions of the **Y beam** are very important; section and total height of first level and also it's under a controlled thermal normalization cycle

New DOUBLE Z CARRIAGE (Z1+Z2)



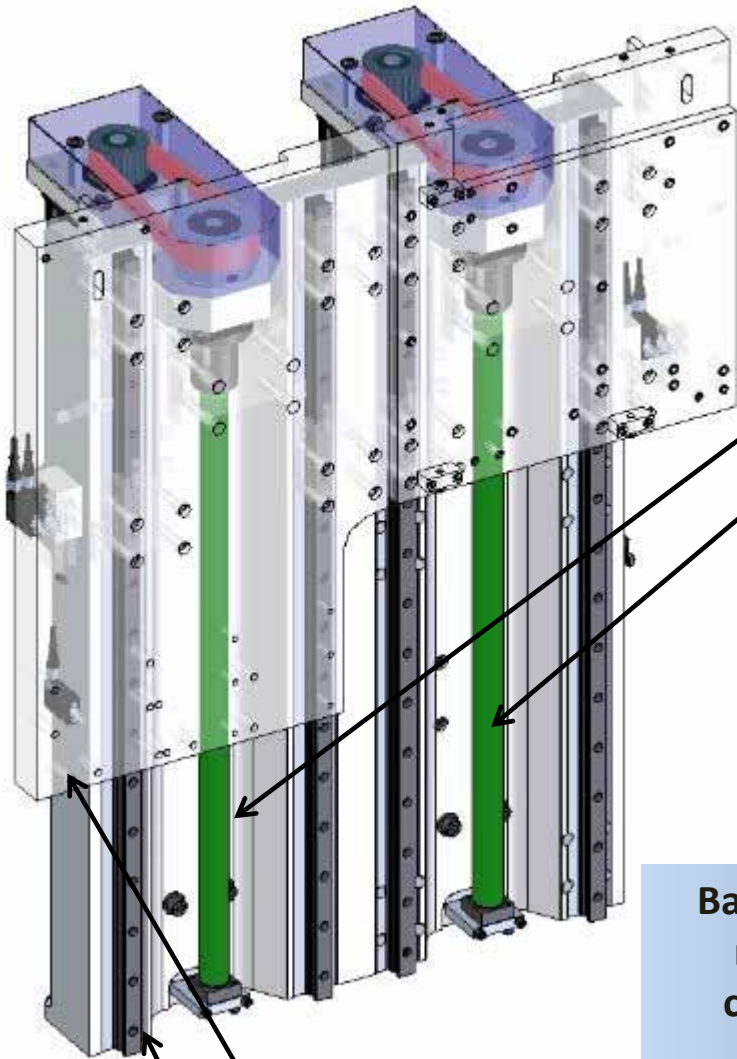
New **Double Z axis carriage** with new Z stroke (**600 mm**), new aluminium alloy, special Ergal thermal hardened and normalized, it offers very high stability and resistance in every composition

80 mm

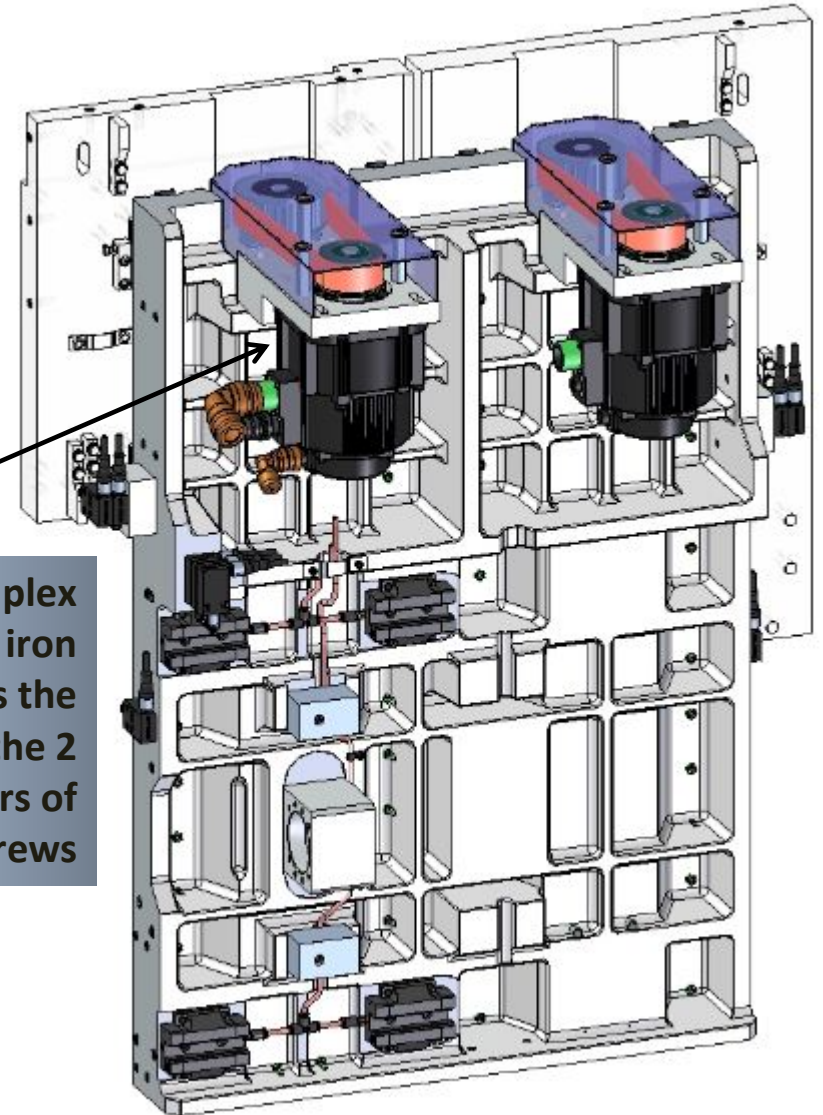
New DOUBLE Z CARRIAGE (Z1+Z2)



Preloaded screws with diameter 32 mm, top level solution.

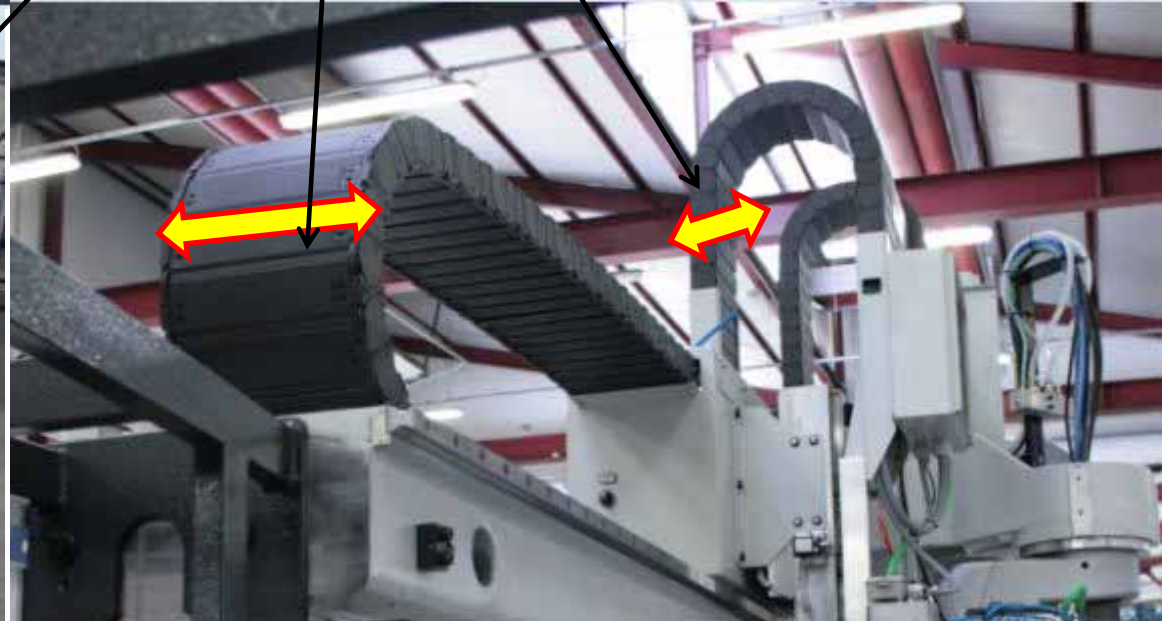


Front view: the platform with the units move on THK vertical guides, heavy duty solution



Back view: the complex machining of the iron cast carriage gives the space for the 2 independent motors of the preloaded screws

In standard composition chains for electrical cables closed and **large section = 220 mm**. Top solution to fix in right position all cables with right distance between them, no overlapped and protected from dust and other inconveniences that may happen during normal activity in factory





Every IMC panel support has a special front protection in sheet iron to avoid the dust or liquids or similar inconveniences in the factory can damage the pneumatic/electrical components of each one

Every IMC panel support's pneumatic cables protected in a chain hidden inside the frame, so from the front view 's operator no any cable on sight. It's very high level solution



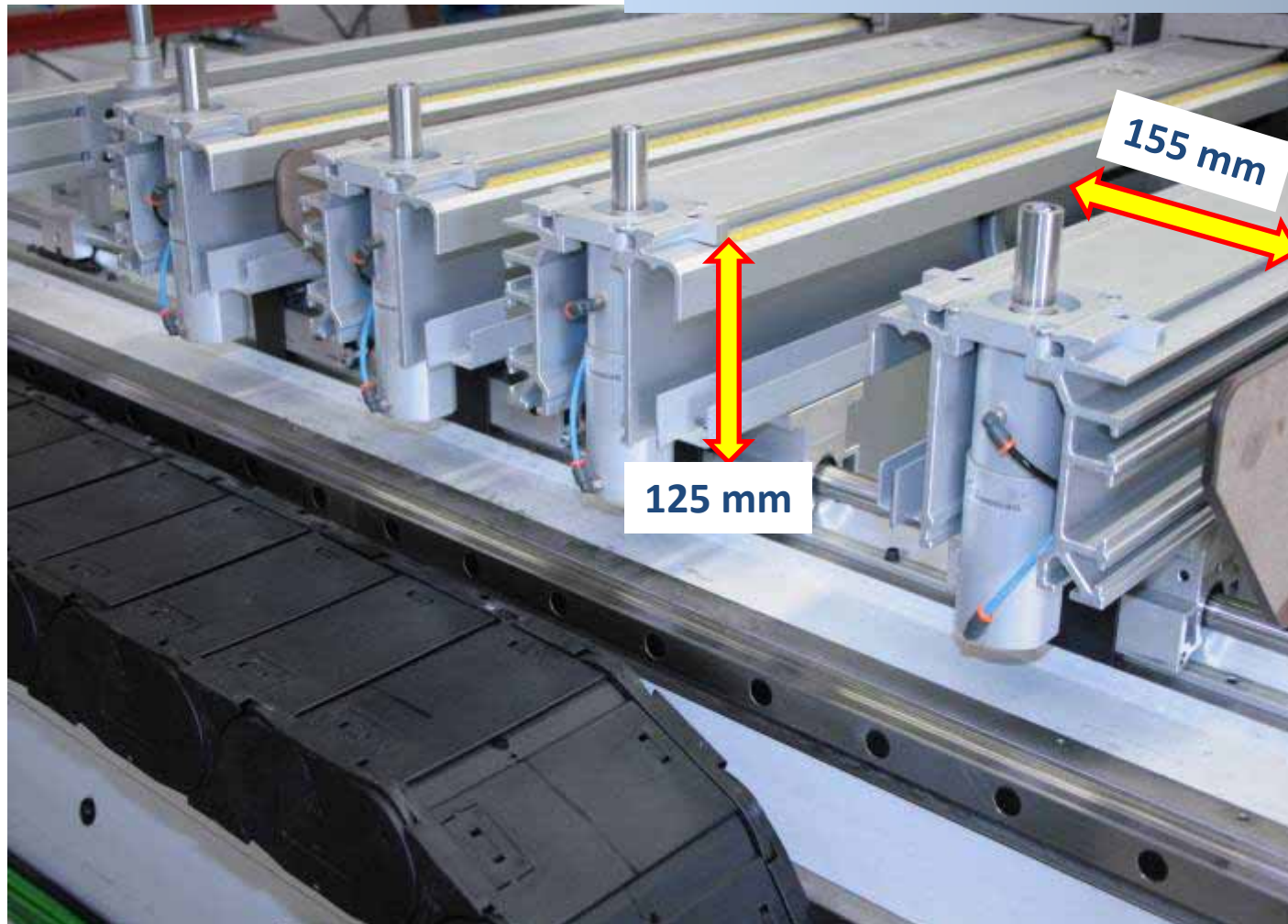
Safety guard with new design, new plastic material , light and high resistance on the same time during axis movements. Easy to mount, 3 simple parts to be jointed.

Safety strips in Kevlar, new solution due to new CE rules and relative height can be fixed in 3 different positions by pneumatic cylinders.

COMPOSITION

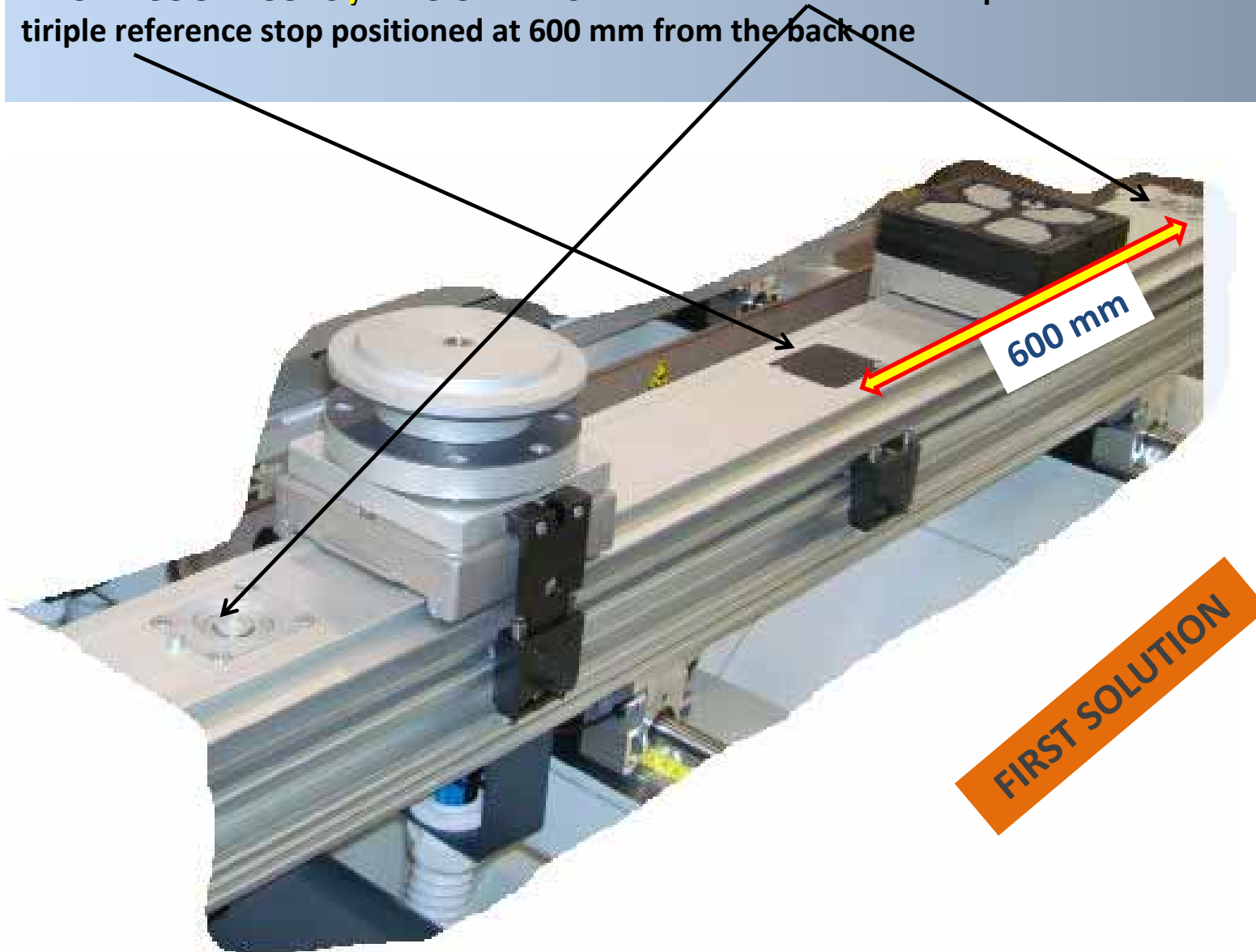
Working area composition

Jet Master 20 – Jet Master 25 mount IMC panel supports, with fixed width 1550 mm, extruded aluminium rectified to grant



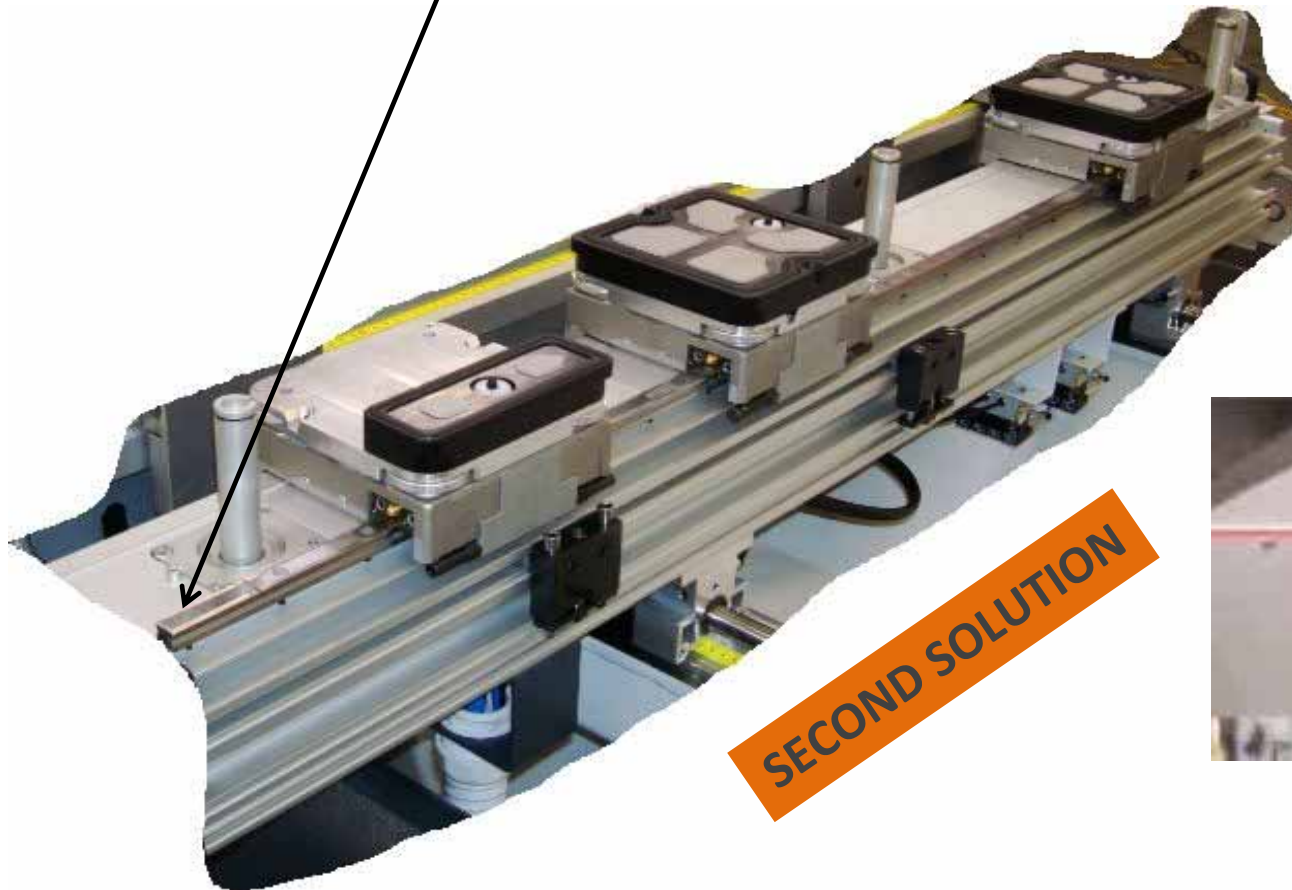
High resistance for specific machinings, in particular complex solid wood asportations is based from a very interesting section of every IMC panel support

Jet Master 20 – Jet Master 25 can be equipped with IMC panel supports for **MANUAL POSITIONING OF IMC VACUUM CUPS / IMC CLAMPS** with double references stops in front and in back, or also with tiriple reference stop positioned at 600 mm from the back one



FIRST SOLUTION

Jet Master 20 – Jet Master 25 can be equipped with IMC panel supports for **CNC POSITIONING OF IMC VACUUM CUPS / IMC CLAMPS** with double / triple references stops. With this solution from price list must be chosen the manual IMC panel supports and the electrospindle takes and “hand” aggregate that from CN positions vacuum cups/clamps; for this reason for the right tolerance positioning in every panel supports there’s a THK rail guide.



SECOND SOLUTION



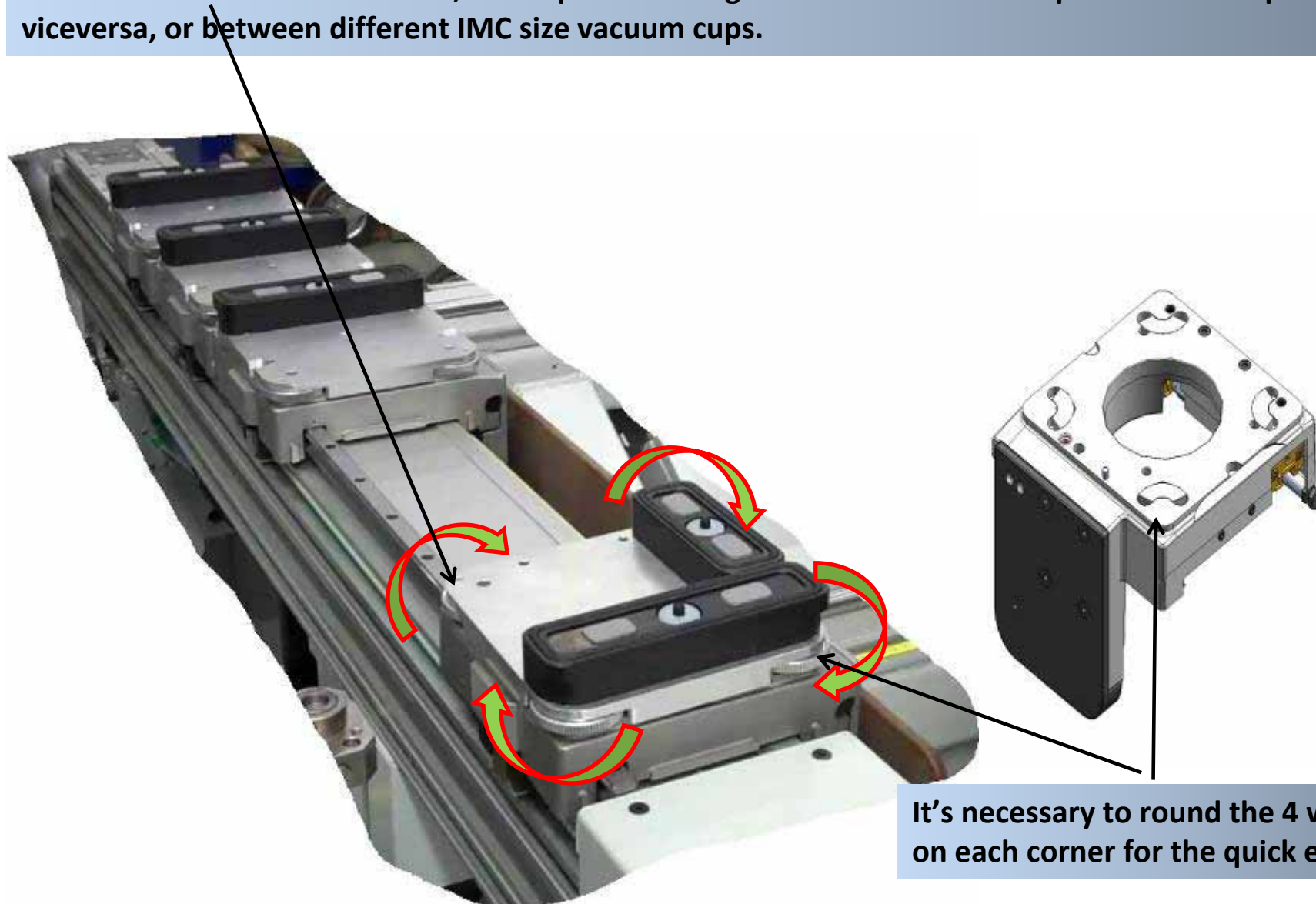
Jet Master 20 – Jet Master 25 can be equipped with IMC panel supports for **MOTHORIZED POSITIONING OF IMC VACUUM CUPS / IMC CLAMPS** with double / triple references stops. This is the speed positioning is up to 40 mt/min, quick set up of the working area and every panel support has on the right and left side a lateral iron steel protection to avoid that dust can be involved on the chain and create possible problems on each motor positioned on the front of the IMC panel support



Jet Master 20 – Jet Master 25 on every IMC panel support must mount **IMC MOVEABLE SUPPORT**, where over IMC vacuum cups and IMC clamps are mounted; they move on linear guide . The IMC moveable support can be choosed for manual IMC panel support, for CNC and mothORIZED panel supports.



Jet Master 20 – Jet Master 25 on every IMC panel support can be mounted **IMC MOVEABLE SUPPORT WITH MAGNETIC COUPLING**, for a quick exchange from IMC vacuum cups to IMC clamps and viceversa, or between different IMC size vacuum cups.



It's necessary to round the 4 washers on each corner for the quick exchange

1



2



Quick exchange by magnetic coupling time requested: **5 – 10 sec** due to ability of operator



3



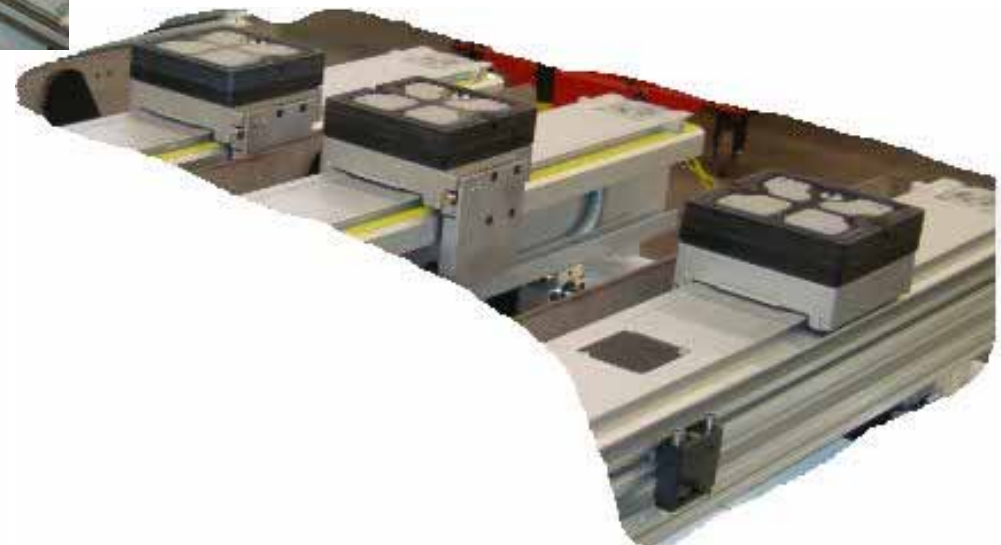
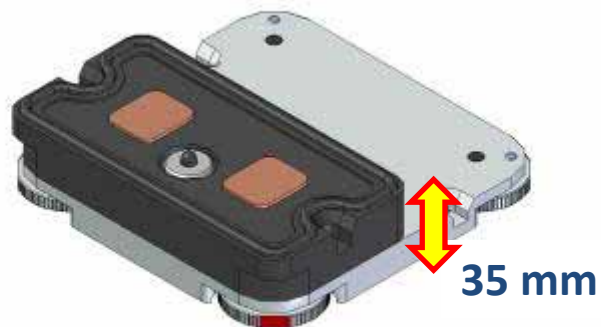
4



Jet Master 20 can be equipped with IMC vacuum cups and IMC for magnetic coupling for manual or motorized panel supports, with following dimensions:

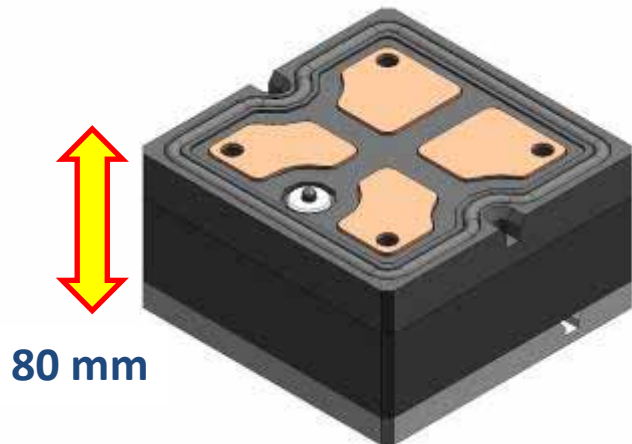


40 x 155 mm; 55 x 155 mm; 70 x 155 mm; 80 x 155 mm; 155 x 155 mm. The height of these vacuum cups is **35 mm**, for 3 – 4 axis composition

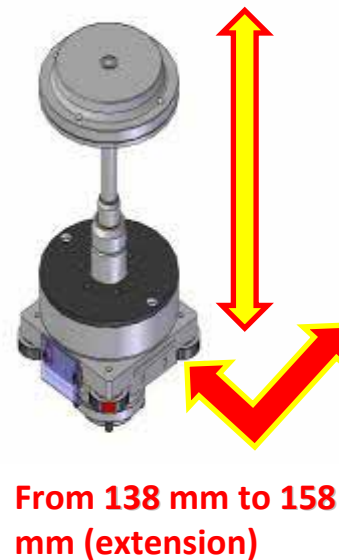


Jet Master 25 can be equipped with IMC vacuum cups and IMC for magnetic coupling for manual or motorized panel supports, with following dimensions:

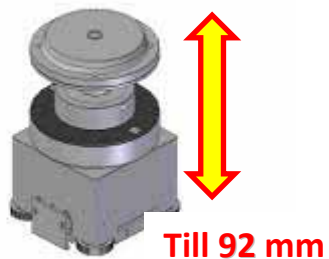
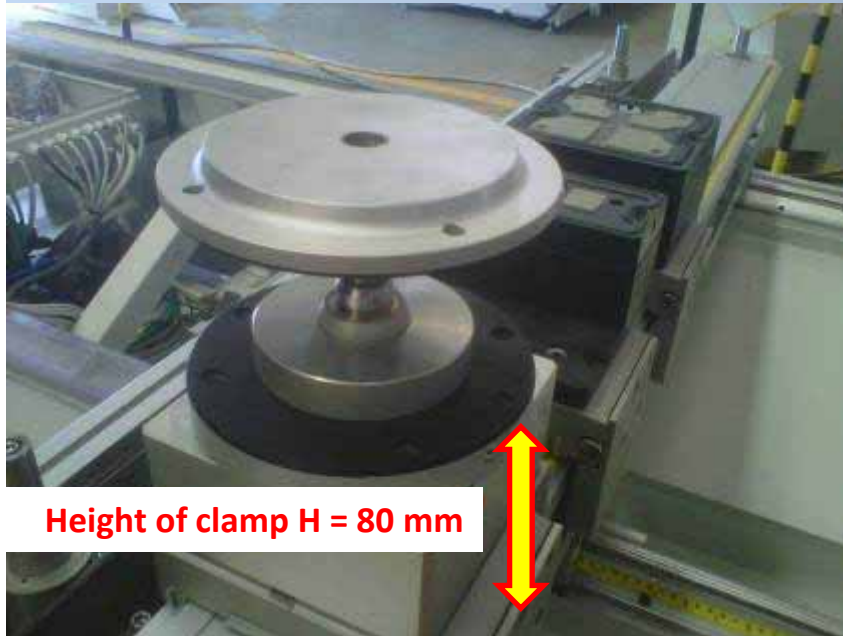
40 x 155 mm; 55 x 155 mm; 70 x 155 mm; 80 x 155 mm; 155 x 155 mm. The height of these vacuum cups is **80 mm (new solution 2011 due to the updated loading piece)**, for 5 axis composition



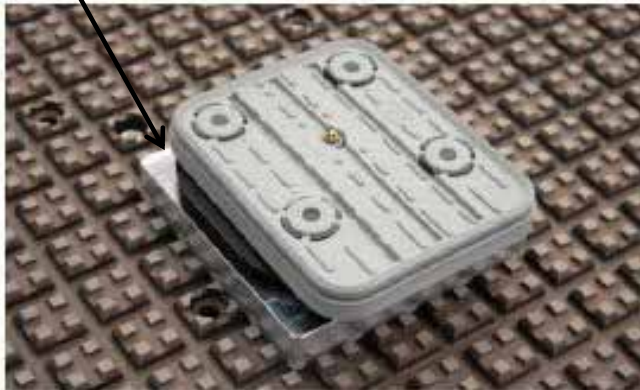
Jet Master 20 can be equipped with a Kit of 6 vertical IMC clamps (also for magnetic coupling) for manual or motherized panel supports. It's possible to increase them adding single vertical clamp; the standard machining height is 92 mm, but Busellato can offer a very performant opportunity with extension to 138 mm and 158 mm. This IMC clamp is for Jet Master 20 (3 - 4 axis)



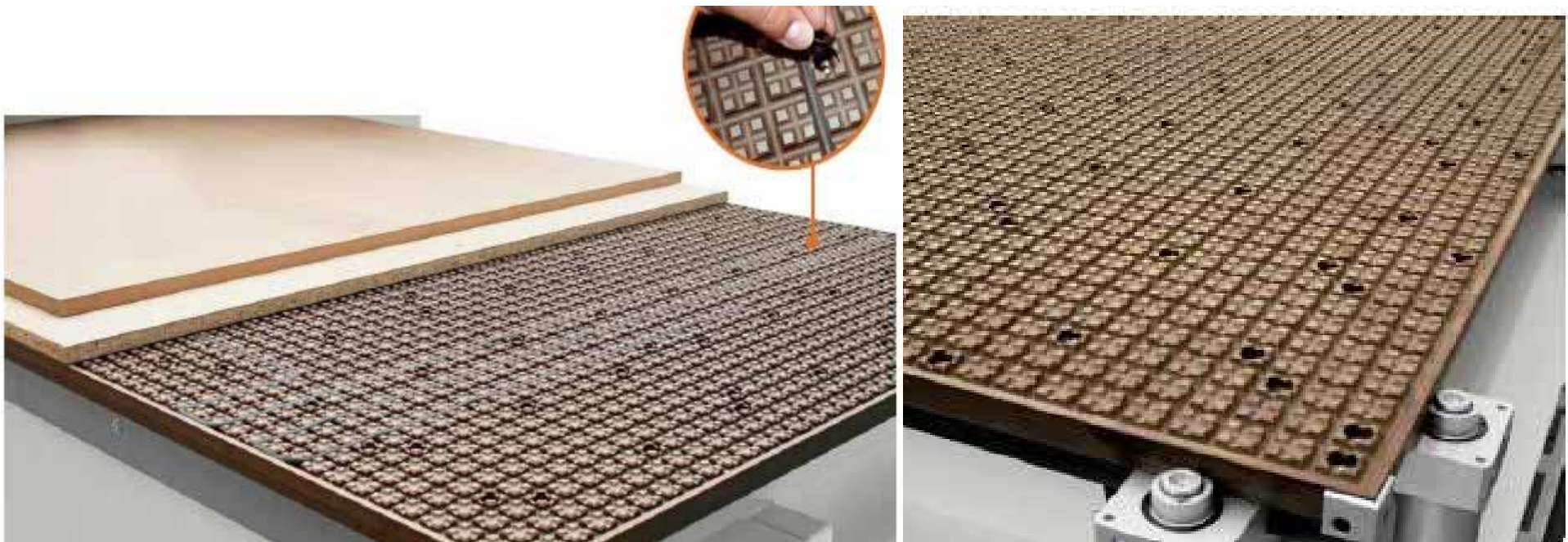
Jet Master 25 can be equipped with a Kit of 6 vertical IMC clamps (also for magnetic coupling) for manual or mothorized panel supports. It's possible to increase them adding single vertical clamp and the height of each one is 80 mm (new solution 2011); the standard machining height is 92 mm, bit Busellato can offer a very performant oppourtunity with extension to 138 mm and 158 mm. This IMC clamp is for Jet Master 25 (5 axis)



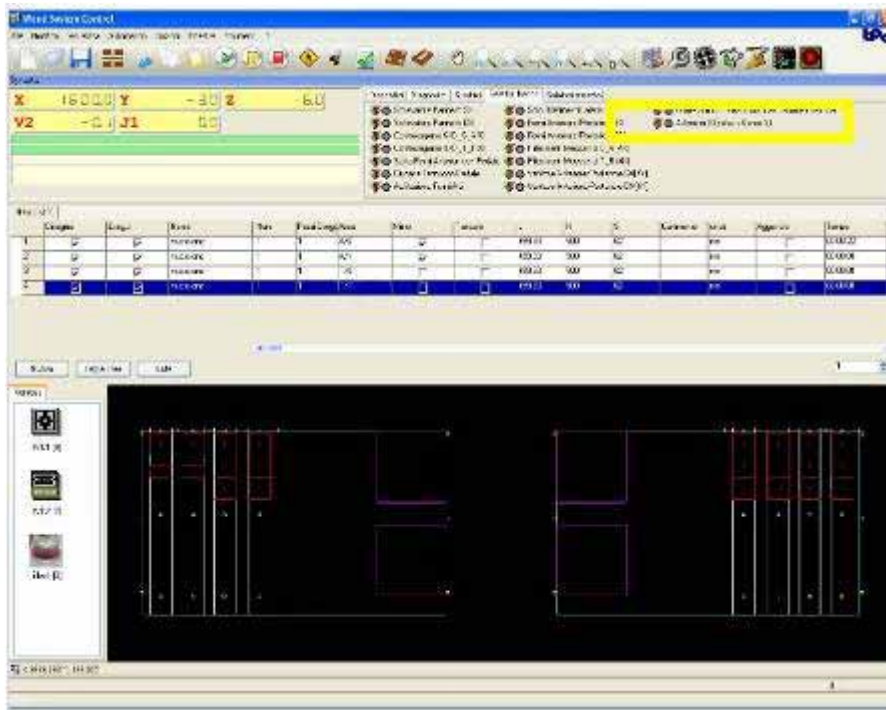
Jet Master 20 RT – Jet Master 25 RT are equipped with RT phenolic roter table 30 x 30 mm. In Jet Master 20 RT can be mounted swivelling modular vacuum cups (like in Easy Jet H = 50 mm). In Jet Master 25 RT can be mounted the same vacuum cups but heighter H = 90 mm



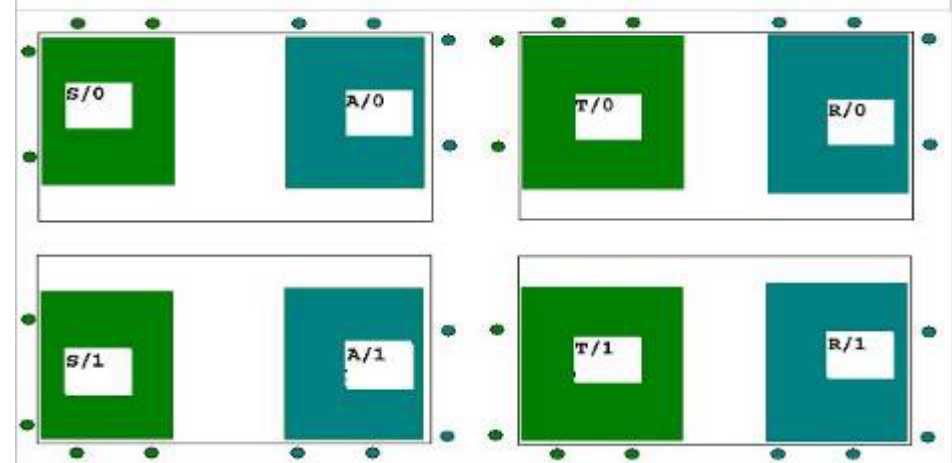
Dimensions are: 130 x 30 mm; 120 x 50 mm; 125 x 75 mm; 140 x 115 mm



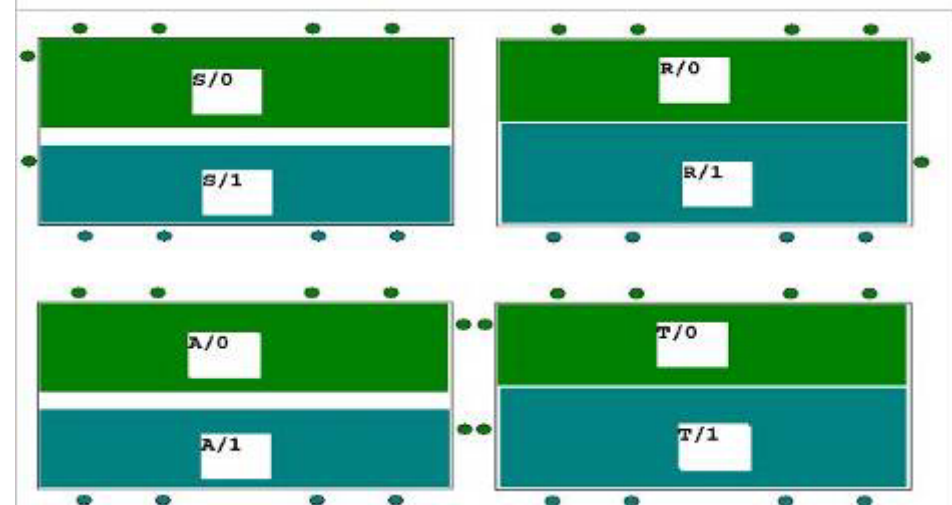
Jet Master 20/25 – Jet Master 20/25 RT can be equipped with **2 WORKING AREA (X)** complete of reference stops. Like new solution Jet Master 20/25 – Jet Master 20/25 RT can be also equipped **with 4 WORKING AREA X/Y**, dynamic division of working area for multizone set up (very useful in doors – windows production)



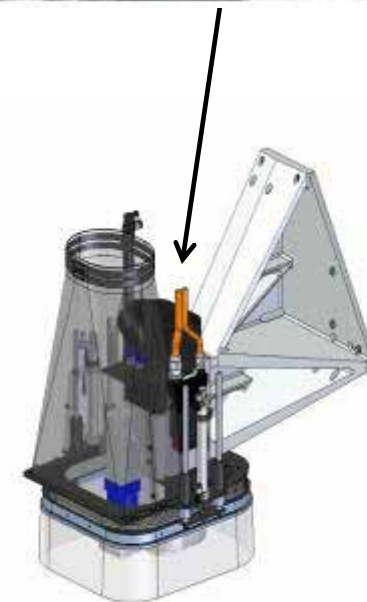
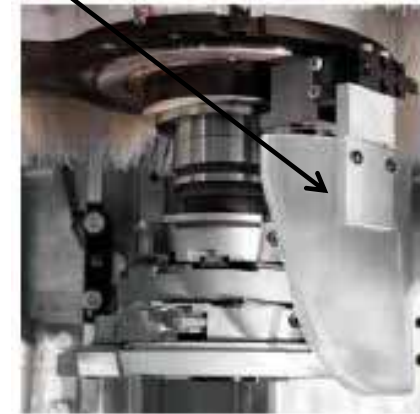
4 Aree configurazione X – 4 working area X



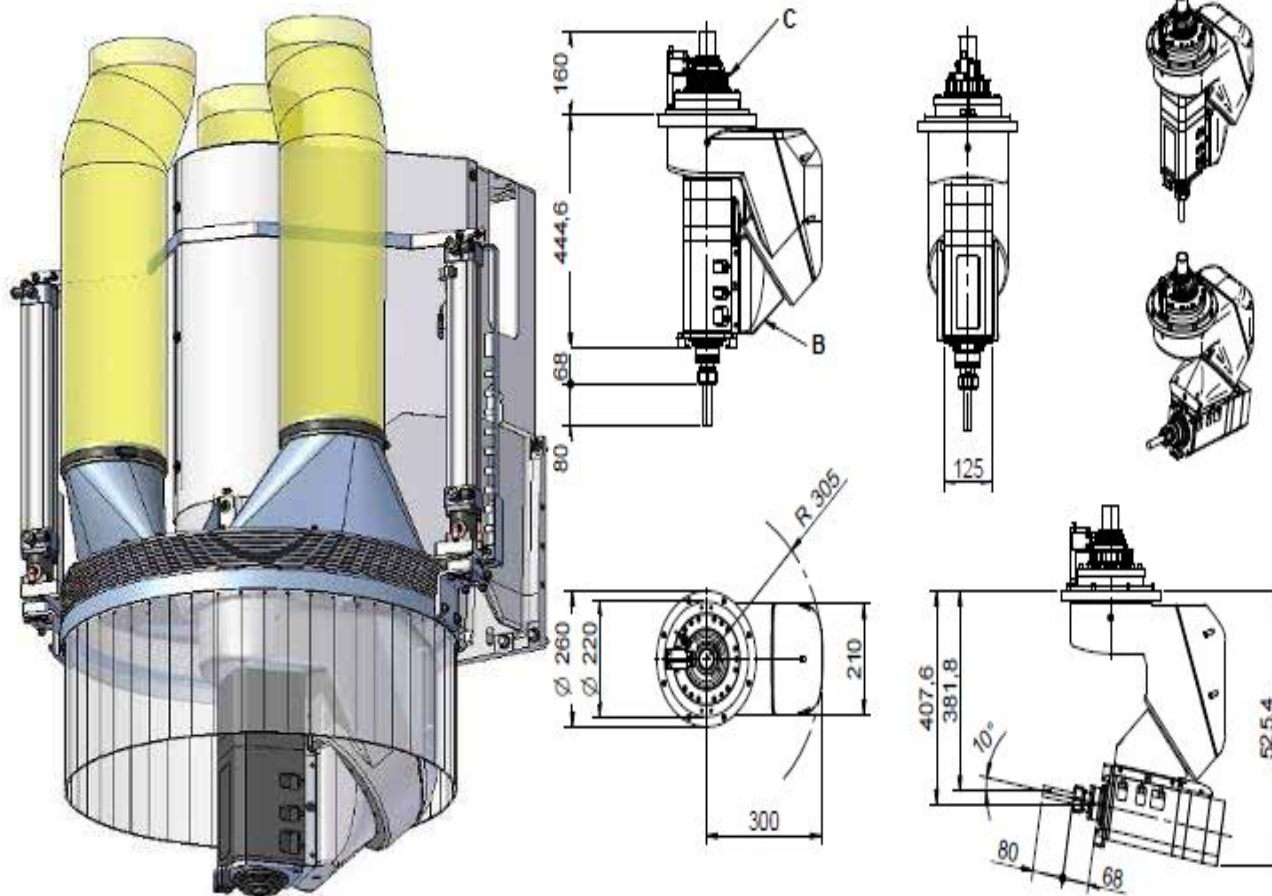
4 Aree configurazione Y – 4 working area Y



Jet Master 20 – Jet Master 20 RT can be equipped with 2 type of electrospindles: “SC” 11 KW – 24.000 Rpm HSK – F63 self cooling and 15 KW – 24.000 Rpm HSK – F63 liquid cooling and relative system from 6° to 35°. It’s possible to add 0-360° unit device, chip guard device

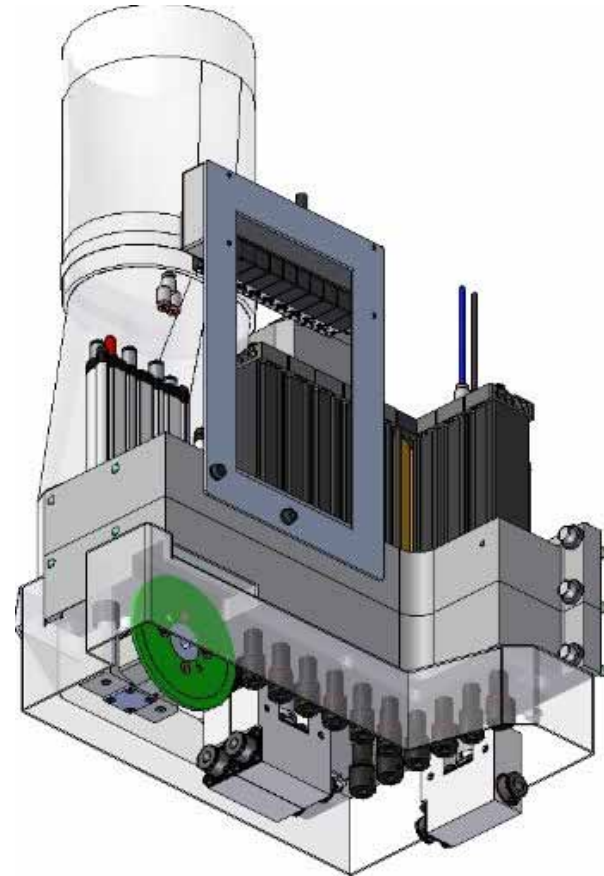
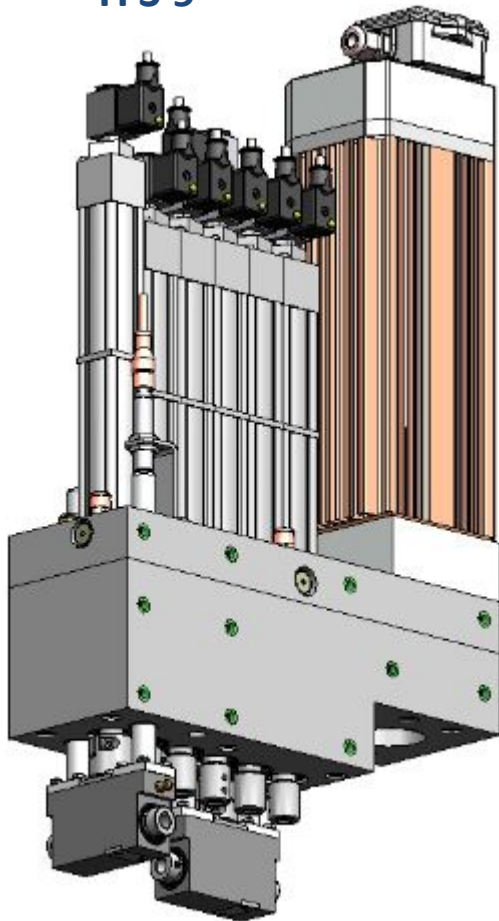


Jet Master 25 – Jet Master 25 RT are equipped with **5 axis head 14 KW – 24.000 Rpm HSK – F63 liquid cooling**. It's interpolate C axis (+/- 270°) and B axis (+/- 180°) with C axis continuous available also: the cast iron structure is very heavy (67 kg) and allow to this unit to perform very good asportation in solid wood but also dynamic to realize 3D model due to the high loading piece available (300 / 350 mm).



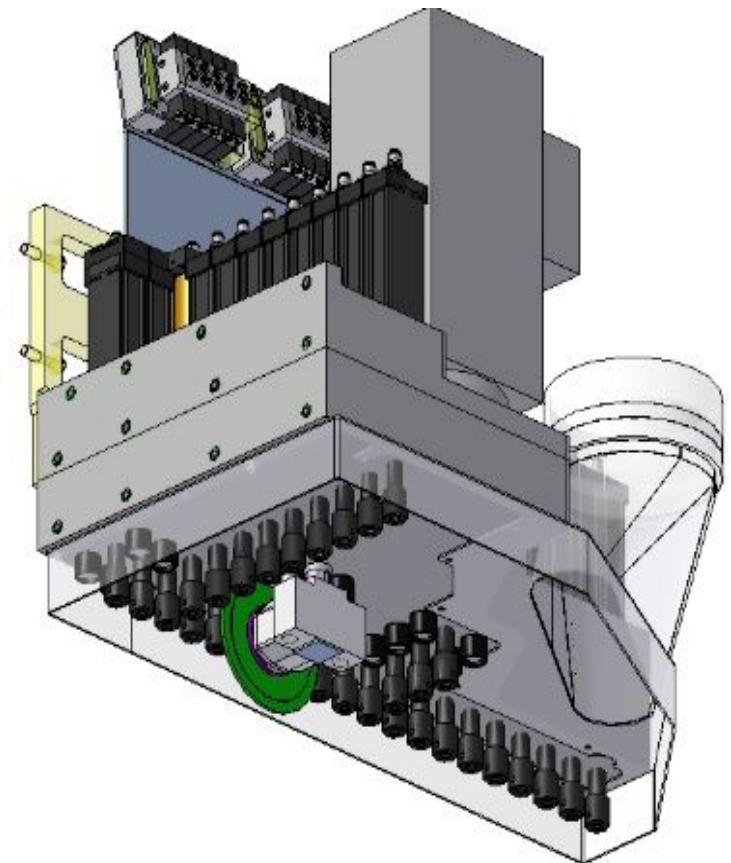
Jet Master 20 – Jet Master 20 RT can be equipped with different boring heads: **TFS 9 (5V+2X+2Y)**, **TFM 18 (12V+4X+2Y)**, **TFM26 (18V+4Y+4X)**, **TFM 32 (32V)**, **TFM 37 (27V+6X+4Y)**

TFS 9

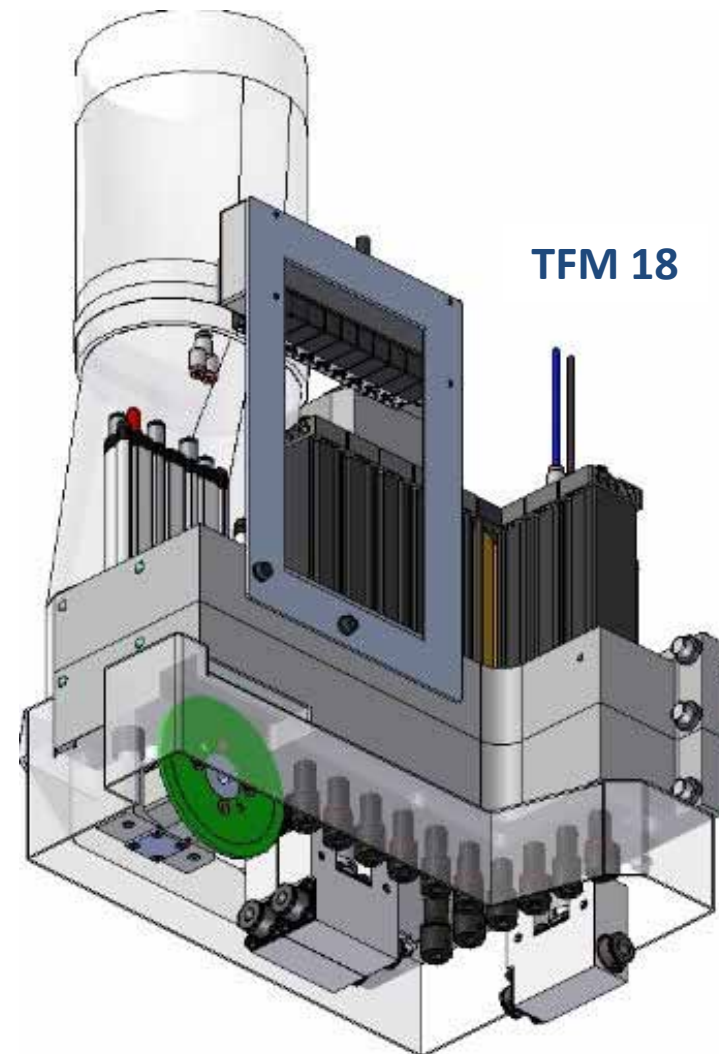
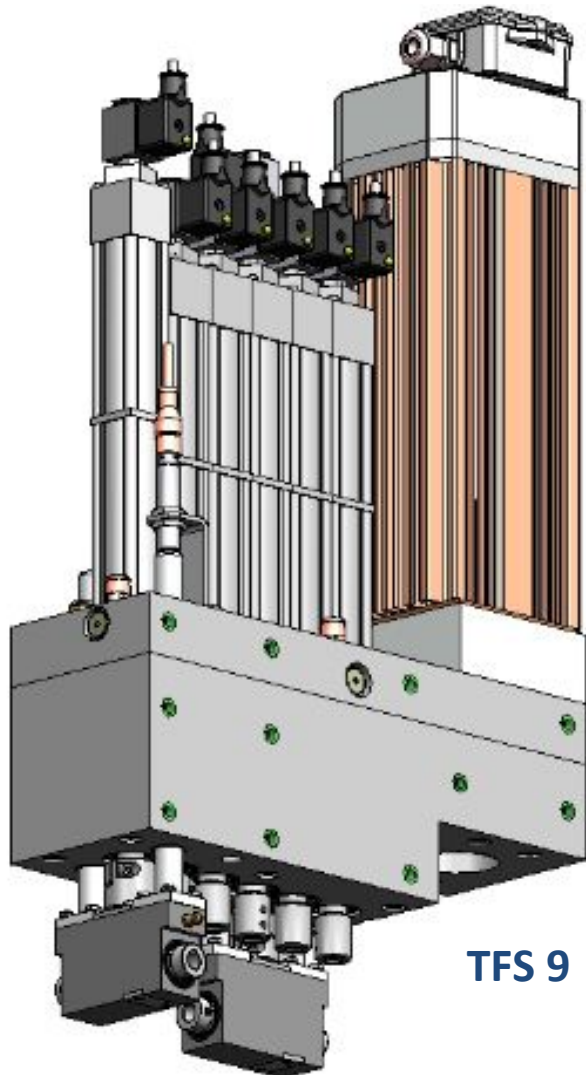


TFM 18

TFM 32



Jet Master 25 – Jet Master 25 RT can be equipped with different boring heads: **TFS 9 (5V+2X+2Y)**,
TFM 18 (12V+4X+2Y)

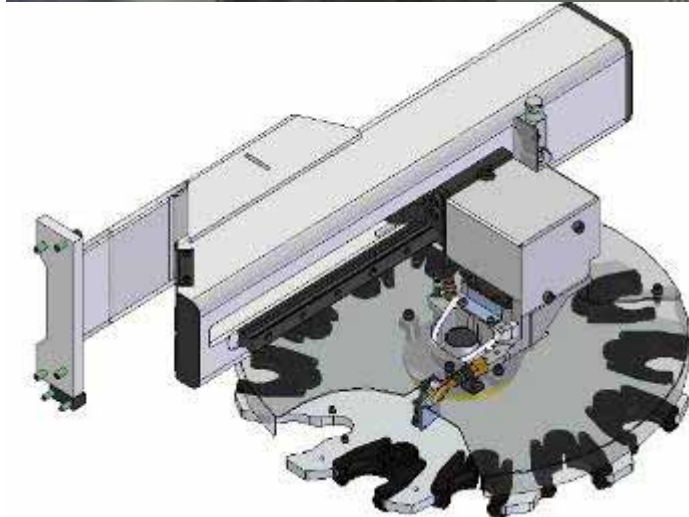


Jet Master 20 – Jet Master 20 RT can be equipped with different toolchangers: **BT 12 (new solution 2011), RP 16, RP 24, Double lateral fixed position HSK – F63, Linear 10 (new special solution 2011). Total max number tool positions: 50**



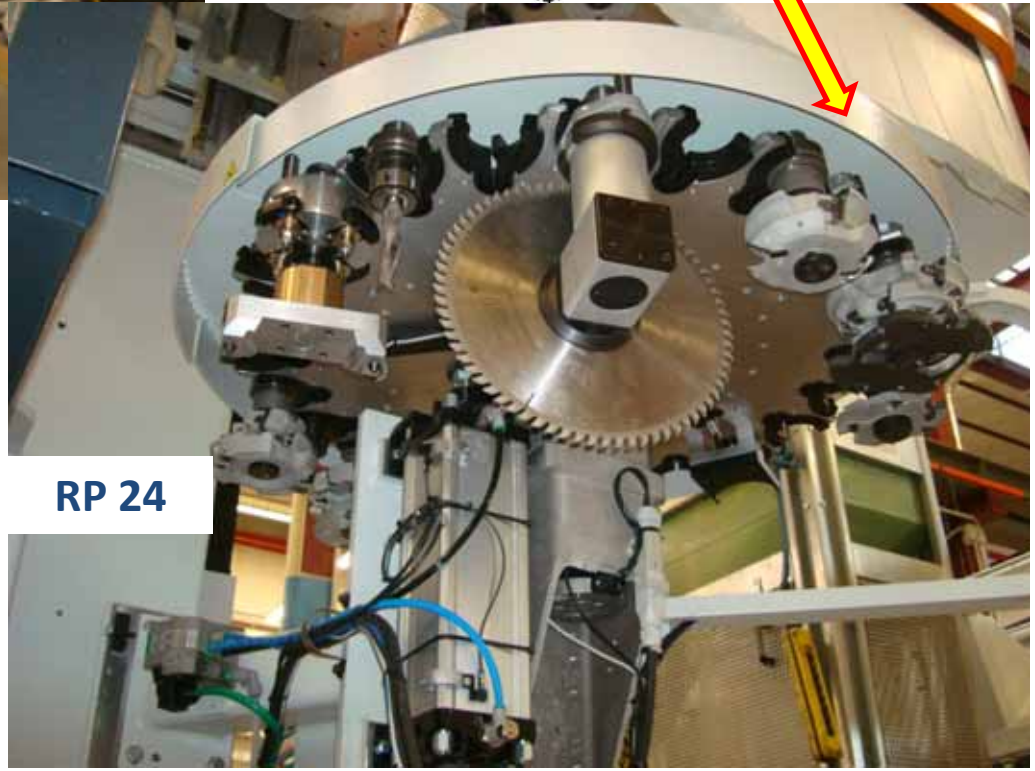
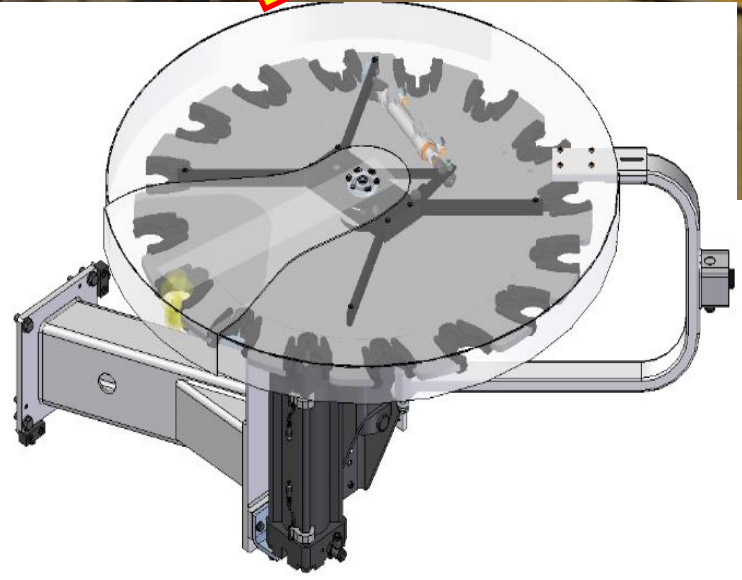
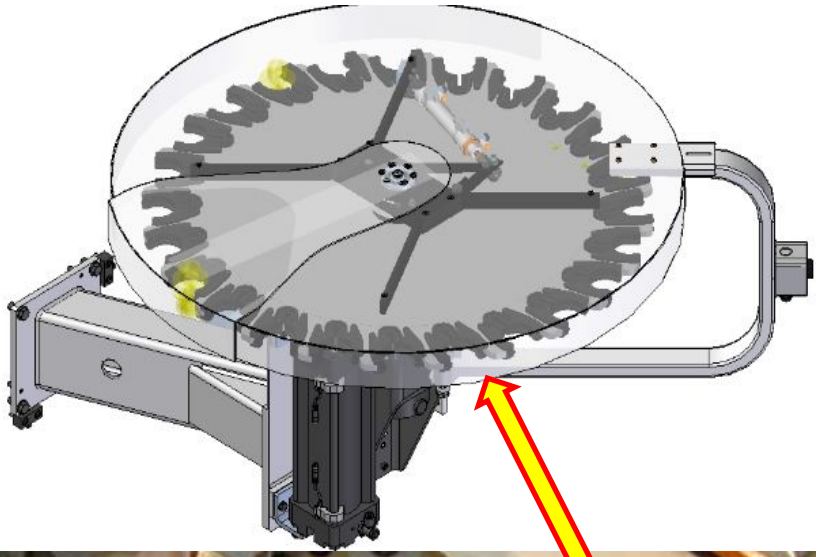
BT 12

Double fixed lateral position HSK – F63. It's possible to mount saw blade **with max diam 400 mm** (high level solution)



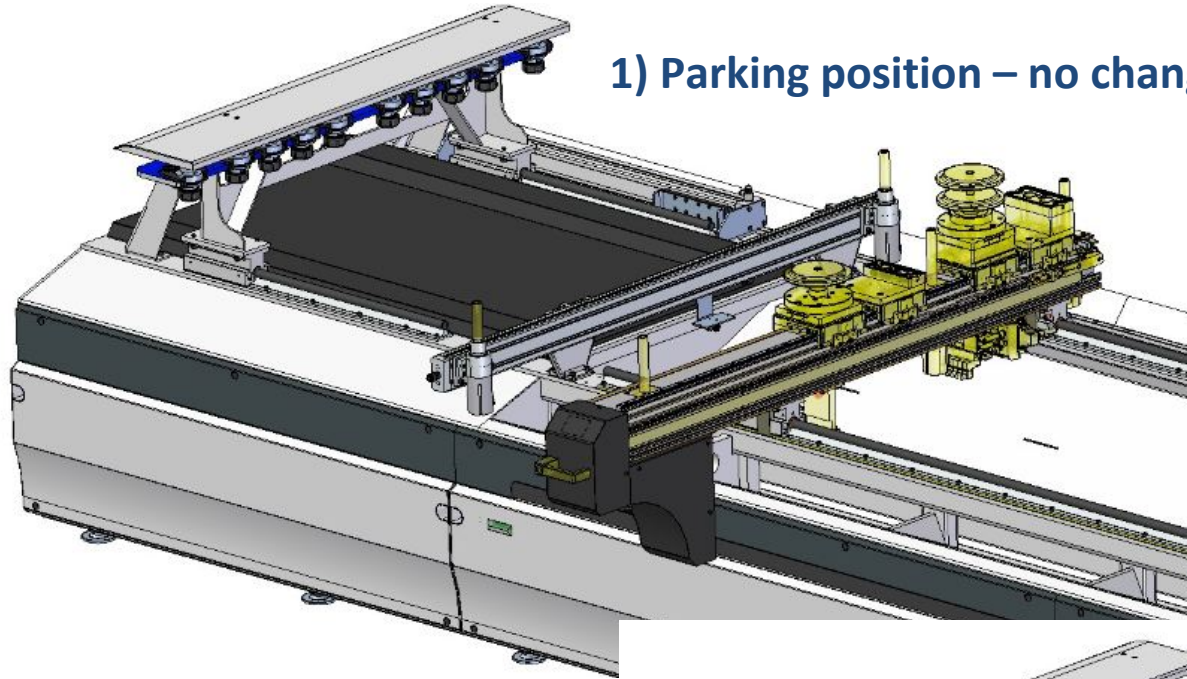


RP 16

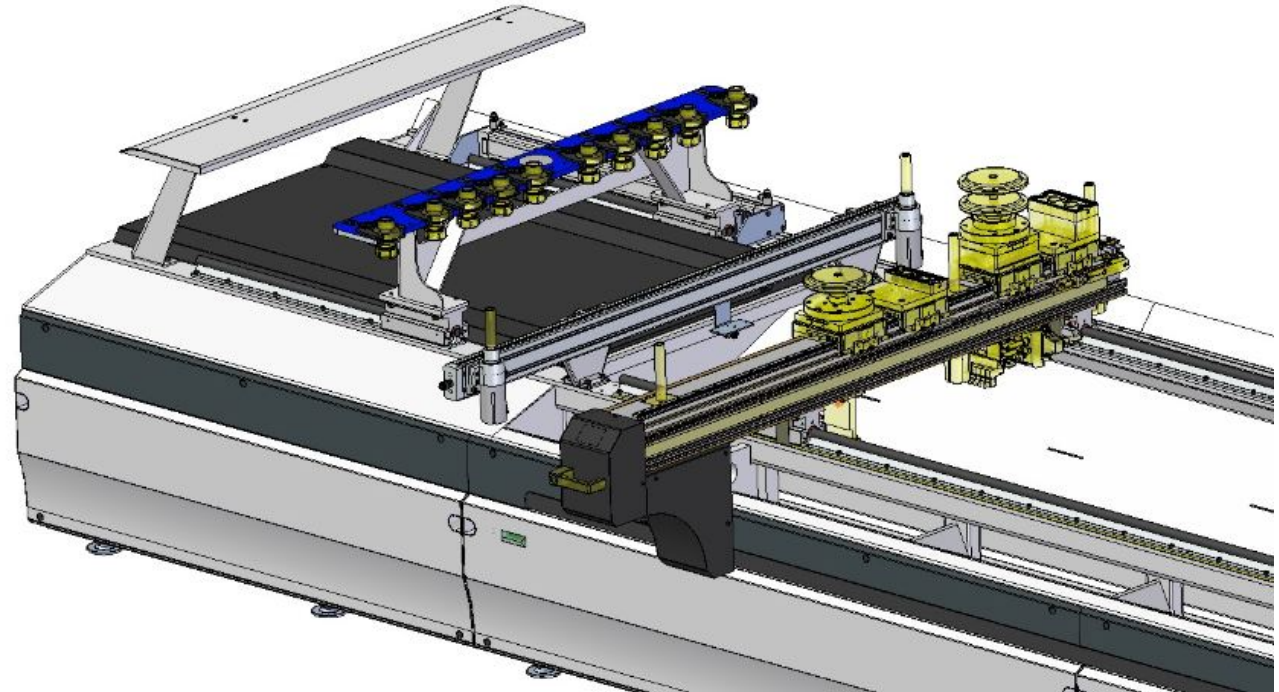


RP 24

1) Parking position – no changing tool



2) Linear 10 toolchanger ready to change or immediately the changing, move on 2 THK linea guides like rail

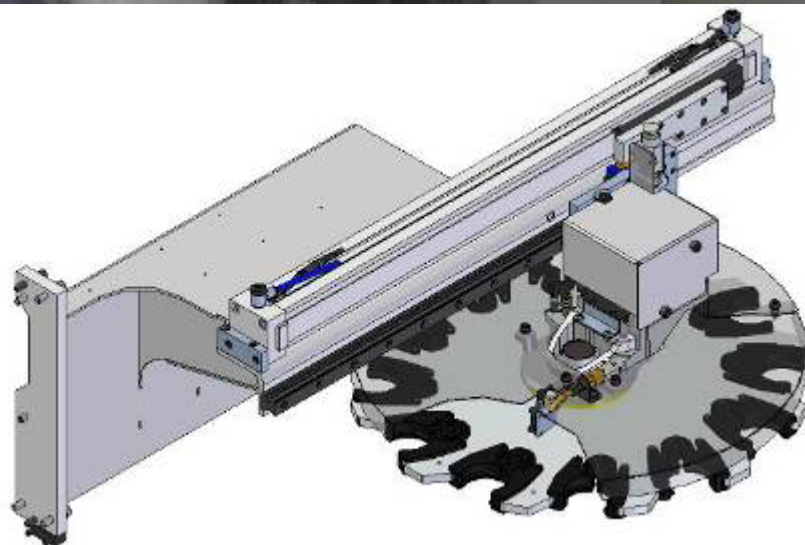


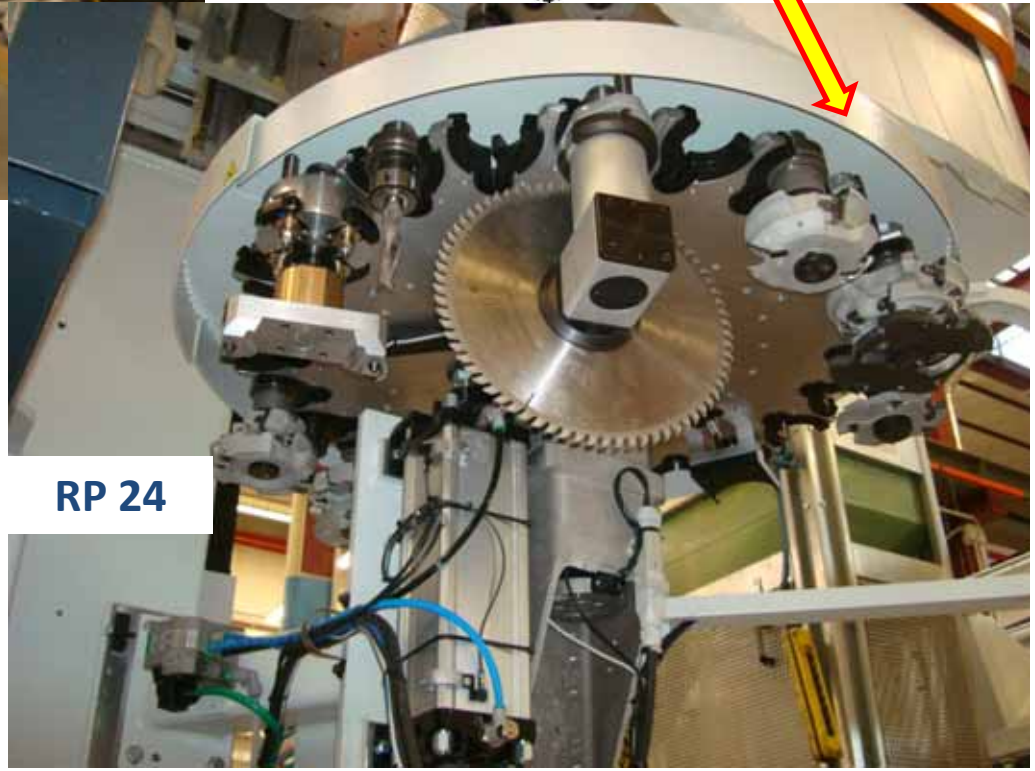
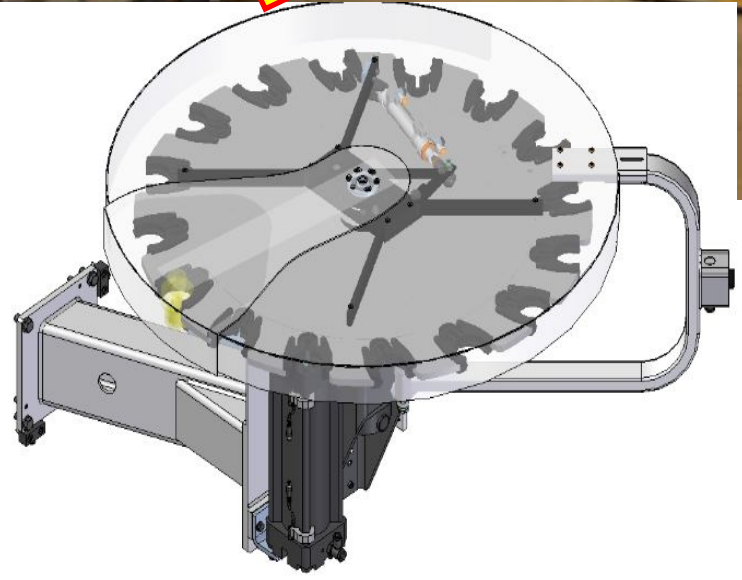
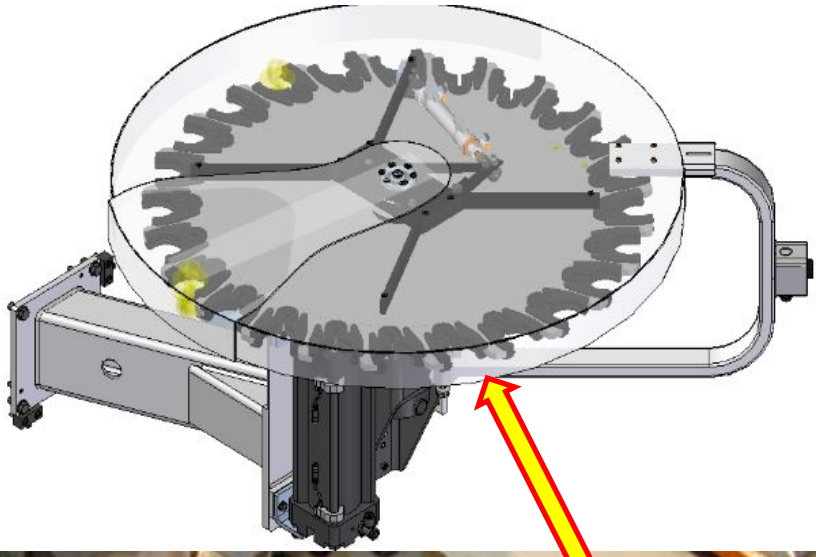
Jet Master 25 – can be equipped with different toolchangers: **BT 12 (new solution for 5 axis), RP 16, RP 24, Double lateral fixed position HSK – F63, Linear 10 (new special solution 2011). Total max number tool positions: 50.** Jet Master 25 RT can mount **RP 16, RP 24 and**



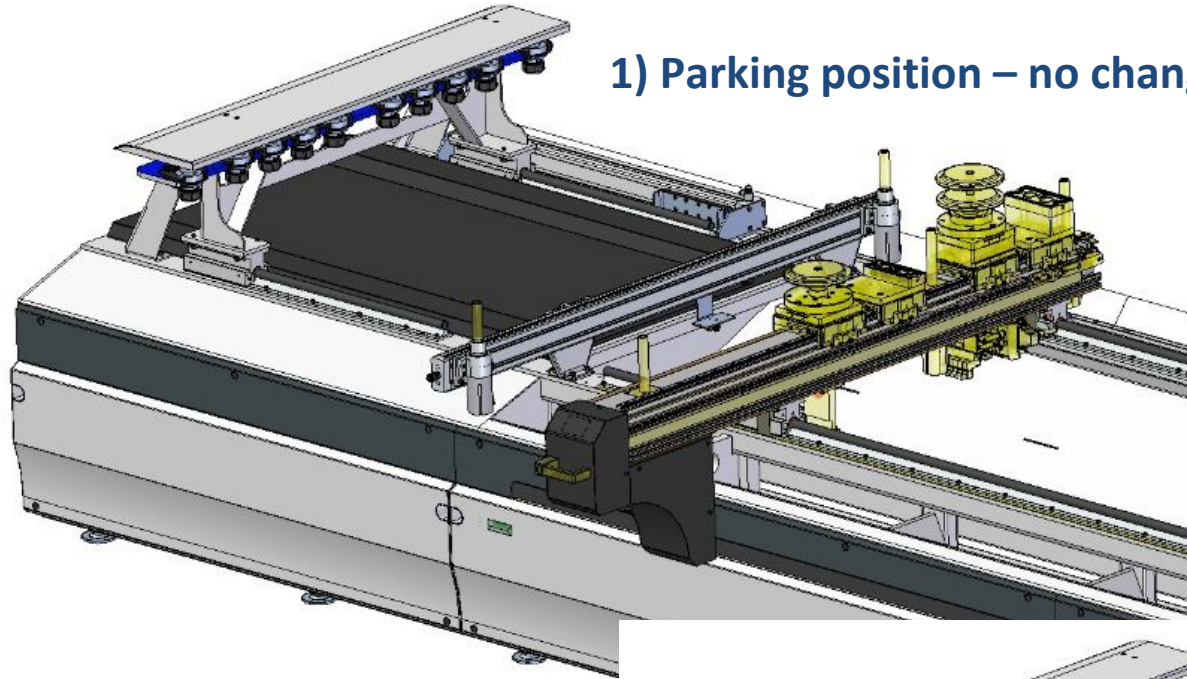
BT 12

Double fixed lateral position HSK – F63. It's possible to mount saw blade **with max diam 400 mm** (high level solution)

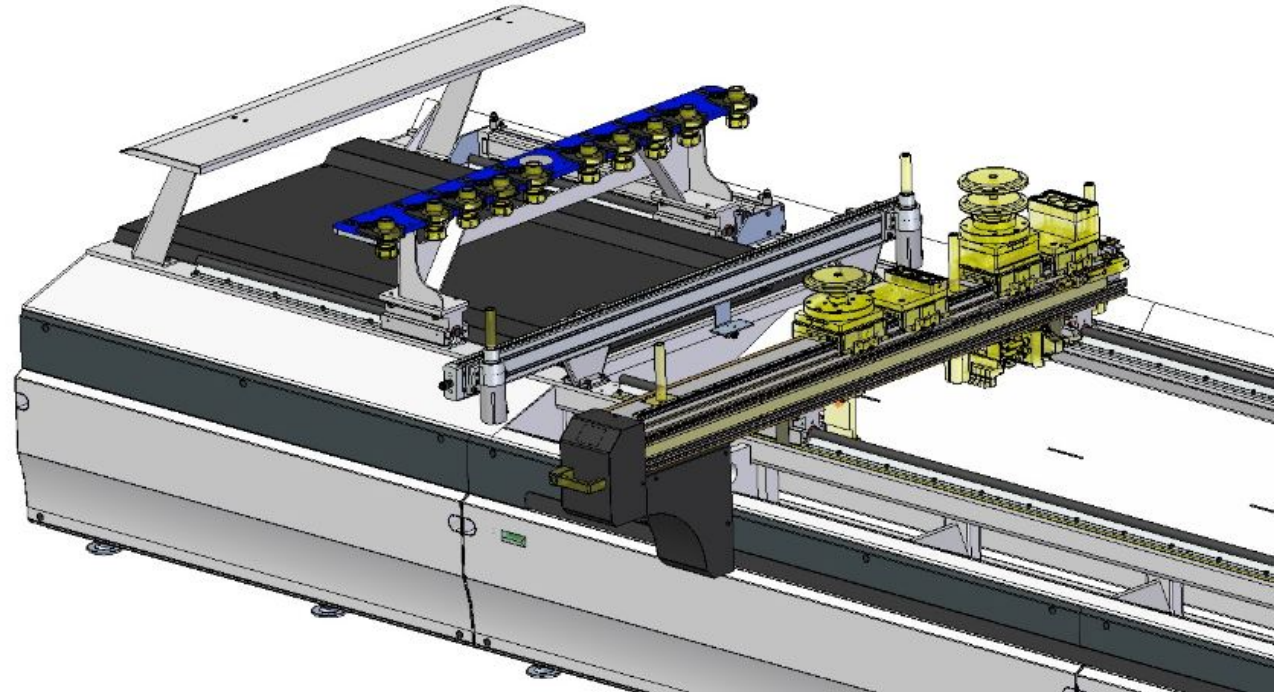




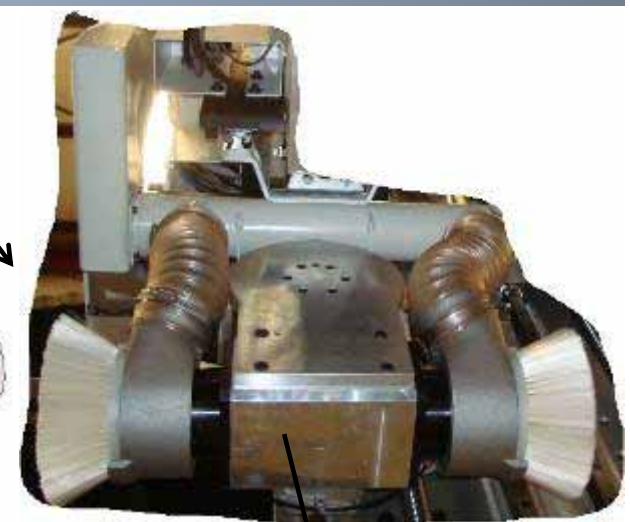
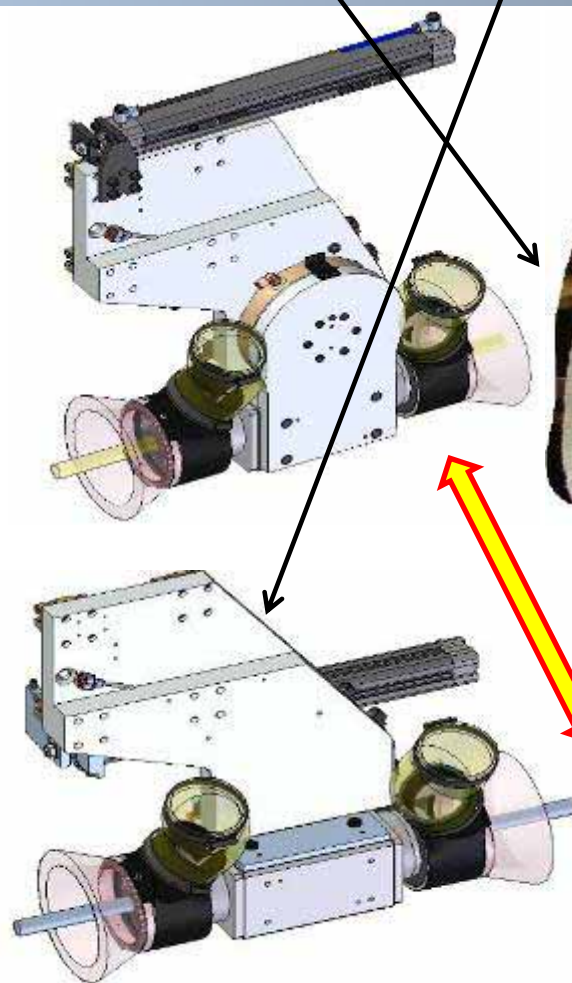
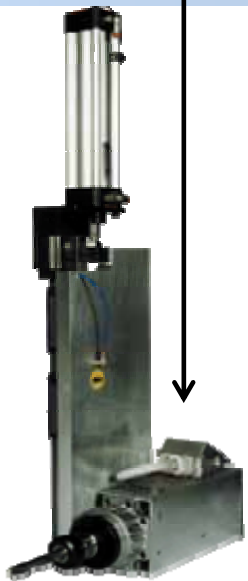
1) Parking position – no changing tool



2) Linear 10 toolchanger ready to change or immediatly the changing, move on 2 THK linea guides like rail



Jet Master 20/25 – Jet Master 20/25 RT can be equipped with different horizontal routers: **1 outlet horizontal router 5,5 KW – ERG 32, horizontal router 2 outlets with 2 positions in Y 5,5 KW – ERG 32, horizontal router with 2 outlets +/- 15° from CN and 2 positions in Y 5,5 KW- ERG 32, vertical router 7 KW RH/LH rotation – ERG 32, saw blade / router 4 KW 0-90° ERG 25 / 32**



New horizontal routers 2 outlets (tilting and fixed 2 positions Y) with new system "disk brake" and outlet aspiration

Jet Master 20/25 – Jet Master 20/25 RT can be equipped with different aggregates:



Testina frese/lama a 1 uscita - lama ø180 mm
1 outlet saw/router aggregate - 180 mm ø blade
Cabeza frese/sierra de 1 salida - sierra ø180 mm



Testina 4 uscite orizzontali
Aggregate with 4 horizontal outlets
Cabeza de 4 salidas horizontales



Testina per lavorazioni inferiori
Aggregate for underside machining
Cabeza para trabajos inferiores



Testina frese/lama a 2 uscite orizzontali lama ø140mm
Saw/router aggregate with 2 horizontal outlets - 140 mm ø blade
Cabeza frese/sierra de 2 salidas horizontales - sierra ø140 mm



Testina frese/lama a 2 uscite orizzontali - lama ø220mm
Saw/router aggregate with 2 horizontal outlets - 220 mm ø blade
Cabeza frese/sierra de 2 salidas horizontales - sierra ø220 mm



Testina per notching - ø max. 70mm
Notching aggregate - ø max. 70 mm
Cabeza para notching - ø max 70mm



Testina per lavorazioni orizzontali - frese L=130 mm
Aggregate for horizontal machinings - 130 mm length tool
Cabeza para trabajos horizontales - frese L=130 mm



Testina contrasupportata - ø max. 100 mm
Counterbalanced aggregate - max. ø 100 mm
Cabeza con ojo horizontal soportado - ø max. 100 mm



Testina per cerniere infero/so 48-6
Aggregate for hinges, 48-6 pins
Cabeza para bisagras distancia 48-6



Testina lama ø max. 250mm
Saw aggregate max. ø 250 mm
Cabeza sierra ø max. 250 mm



Testina lama ø max. 300 mm
Saw aggregate max. ø 300 mm
Cabeza sierra ø max. 300mm



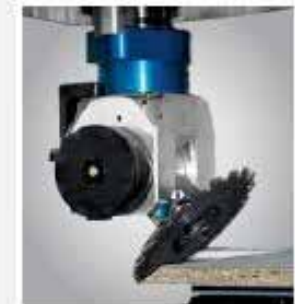
Testina di foratura a 2 uscite orizzontali
Drilling aggregate with 2 horizontal outlets
Cabeza de foradora de 2 salidas horizontales



Trasforma il tuo centro di lavoro in una macchina a 4/5 assi grazie a "Disk", aggregato frese/lama ad inclinazione variabile gestita da CN.



Turn your CNC working center into a 4/5 axis machine thanks to "Disk", a saw/router unit with NC-controlled variable inclination.




Transforma el su centro de trabajo en una máquina a 4/5 ejes gracias a "Disk", cabeza frese/sierra con inclinación variable sobre CN.

Jet Master 20/25 – Jet Master 20/25 RT in standard composition are equipped with **GENESIS EVOLUTION**

GENESIS EVOLUTION

SOLUZIONI SOFTWARE INTEGRATE – INTEGRATED SOFTWARE SOLUTIONS – SOLUCIONES SOFTWARE INTEGRADAS



Installato su sistema operativo Microsoft, gestisce il controllo real-time della macchina e offre un'interfaccia utente a finestra tipica dei sistemi operativi Windows.




Installed on a Microsoft operating system, it manages the real-time control of the machine and offers a screen based user interface typical of the Windows operating system.



Instalado sobre sistema operativo Microsoft, gestiona el control real-time de la máquina y ofrece una interfaz operador a ventanas típica de los sistemas operativos Windows.








- L'editor 3D è stato concepito e realizzato per fornire all'utente uno strumento potente ed immediato.
- Visualizzazione tridimensionale delle lavorazioni programmate.
- Visualizzazione delle facce fisiche nel modello tridimensionale.
- Programmazione parametrica dei programmi e sub-routine.
- Compatibilità con file di precedenti versioni di Genesis.
- Importazione e conversione file da CAD in formato DXF.
- Toolbar delle lavorazioni e "Macro" personalizzabili.
- Modulo per caratteri e svuotature.
- Modulo di simulazione.
- Importatore di file formato XLS (EXCEL).

- The 3D editor has been designed to give the user a powerful and immediate instrument.
- 3-D display of the programmed machinings.
- Display of the virtual faces in the 3-D model.
- Parametric programming of programs and sub-routines.
- Compatible with files from previous Genesis versions.
- Importation and conversion of CAD files in DXF format.
- Machining toolbar and "Macro" that can be personalized by the user.
- Character and pocket cycle modules.
- Simulation module.
- Importation of XLS (EXCEL) format files.

- El editor 3D fue concebido y realizado para dar al operador un instrumento potente e inmediato.
- Visualización tridimensional de los trabajos programados.
- Visualización de las caras físicas en el modelo tridimensional.
- Programación paramétrica de los programas y sub-rutinas.
- Compatible con file de precedentes versiones de genesis.
- Importación y conversión file de CAD en file DXF.
- Toolbar de los trabajos y "Macro" personalizables.
- Módulo para caracteres y vaciados.
- Módulo de simulación.
- Importador de file tipo XLS (EXCEL).

Jet Master 20/25 as optional can be equipped with **JET WINDOWS, JET DOOR, JET CABINET, SW CAD-CAM ALPHACAM ADVANCED 3D FOR 5 AXIS**. Jet Master 20/25 RT as optional can be equipped with **GENIO, SW CAD-CAM 2D/3D ADVANCED and ALPHACAM 3D ADVANCED FOR 5 AXIS**

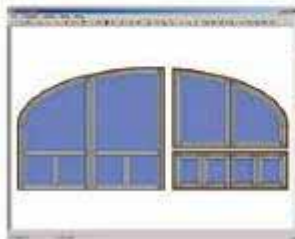
JET WINDOWS

SOLUZIONI SOFTWARE INTEGRATE – INTEGRATED SOFTWARE SOLUTIONS – SOLUCIONES SOFTWARE INTEGRADAS

Soluzione software per la progettazione di serramenti standard e speciali anche di forme irregolari. Studiato per creare listelli lineari, inclinati o ad arco. Consente di gestire la realizzazione dell'intero set di taglio degli elementi attraverso la lavorazione della ferramenta.

Software solution for designing both standard and special door/window frames, even of irregular shapes. Studied for creating linear, inclined and arched door/window frames. It allows the production of the door/window frame to be controlled, from cutting of the parts to insertion of the hardware.

Solución software para la proyección de marcos estándar y especiales y también de formas irregulares. Estudado para crear marcos lineales, inclinados y en arco. Permite gestionar la realización del marcos desde la fase de corte de los elementos hasta la introducción de los trabajos de los herramientos.



Lista di taglio degli elementi grezzi
Raws elements cutting list
Lista de corte de los elementos en bruto

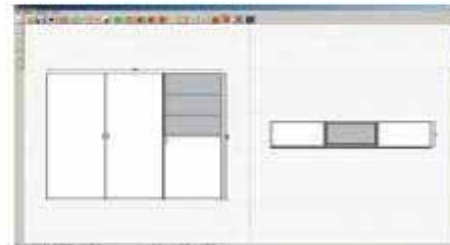
JET CABINET

SOLUZIONI SOFTWARE INTEGRATE – INTEGRATED SOFTWARE SOLUTIONS – SOLUCIONES SOFTWARE INTEGRADAS

Soluzione software per la progettazione e la realizzazione di cabinet per l'arredamento domestico e d'ufficio con generazione automatica di programmi e lista di lavoro.

Software solution for designing and realizing cabinet for home and office furniture with automatic generation of programs and work lists.

Solución software para la proyección y realización de Cabinet para el amueblamiento doméstico y de oficina con la creación automática de programas y lista de trabajo.



Divisioni verticali e ripiani
Partitions and shelves
Divisiones verticales y estantes

Archi, cassetti e mensole
Doors, drawers and bucks
Puertas, cajaxeras y fondos



Lavorazioni di giunzione
Joint machining
Mecanización para uniones



Machings for hardware insertion



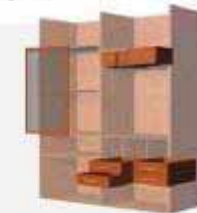
Calcolo lavorazione di taglio del ferramenta
Shedding tool calculation
Cálculo del corte del listón soporte vidrio



Mecanización para la inserción de la herramienta



Archivio di materiali e bordi
Material and edging storage



Lista di elementi con dimensioni e costi
Parts list with sizes and costs



Lavorazioni per l'inserimento della ferramenta



Jet Master 20/25 can be equipped with the following compositions: on Jet Master 25 is possible like special solution, to mount 5 axis and 4 axis on the two Z1 + Z2 with small TFS 9 and BT12 mounted on Z2 carriage.

			CONF . 1		CONF . 2		CONF . 3		CONF . 4		CONF . 5	
			Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2	Z1	Z2
E / M	E/S	E / M		✘		✘		✘	✘	✘		
5 assi	5 axes	5 ejes										✘
TFS9	TFS9	TFS9			■						■	
TFM18	TFM18	TFM18	■								■	
26M	26M	26M	■									
TFM32	TFM32	TFM32					■					
TFM37	TFM37	TFM37					■					
FRESATORE 1 USC.	1-OUTLET ROUTER	FRESADOR 1 SALIDA	▲									
FRESATORE 2 USC.	2-OUTLET ROUTER	FRESADOR 2 SALIDAS			▲							
FRESATORE VERTIC.	VERTICAL ROUTER	FRESADOR VERTICAL	▲									
TILTANTE	TILTING ROUTER	FRESADOR CON INCLINACION			▲							
LAMA/FRESA	SAW/ROUTER	SIERRA/FRESA	▲									
BT12	BT12	BT12		●		●		●		●		●
MAG.POST.16	16-POSITION REAR TOOL CHANGER	ALMACEN POST. 16		◆		◆		◆		◆		◆
MAG.POST.24	24-POSITION REAR TOOL CHANGER	ALMACEN POST. 24		◆		◆		◆		◆		◆

✘ ■ ▲ ● ◆ = Max. n° 1 simbolo per colonna Z1
 ✘ ■ ▲ ● ◆ = Max. n° 1 simbolo per colonna Z2

✘ ■ ▲ ● ◆ = Max. 1 symbol in column Z1
 ✘ ■ ▲ ● ◆ = Max. 1 symbol in column Z2

✘ ■ ▲ ● ◆ = Máx. 1 símbolo in columna Z1
 ✘ ■ ▲ ● ◆ = Max 1 símbolo por columna Z2