

# General Catalogue

## Machining Centres





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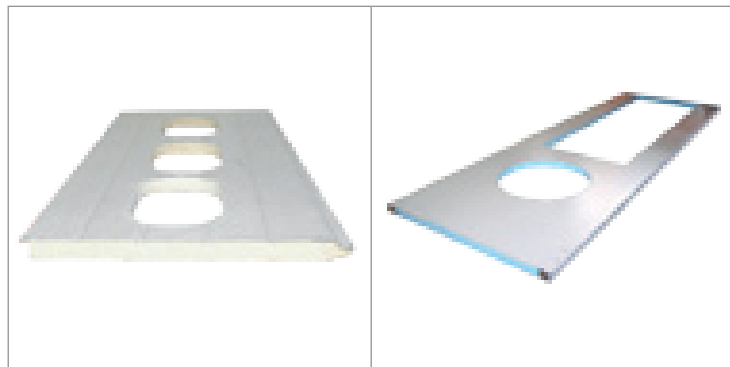
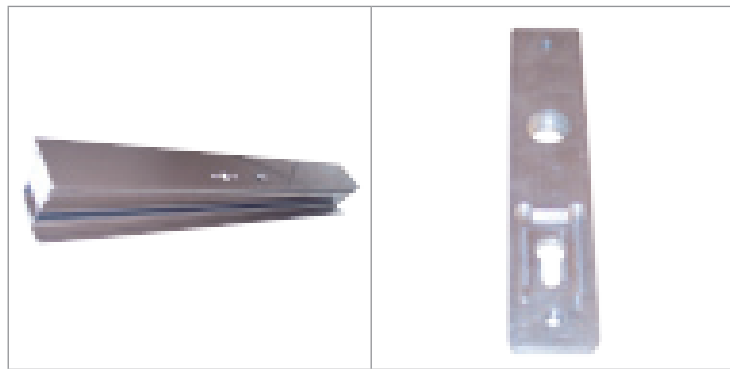
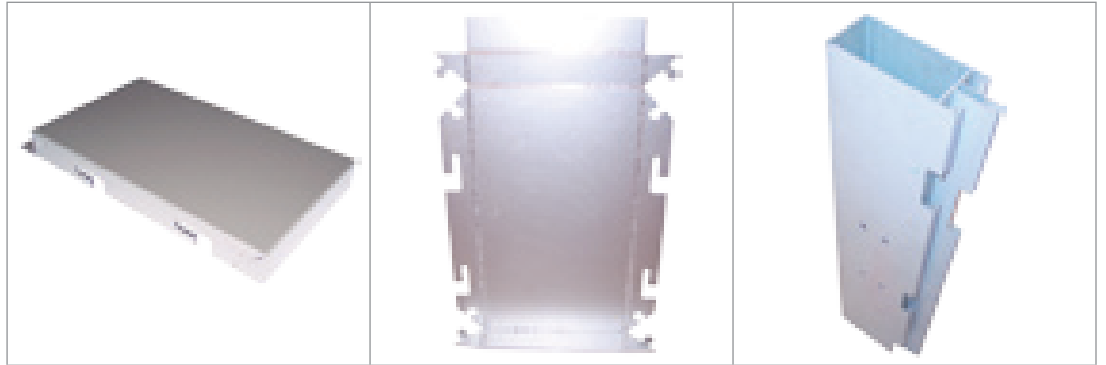
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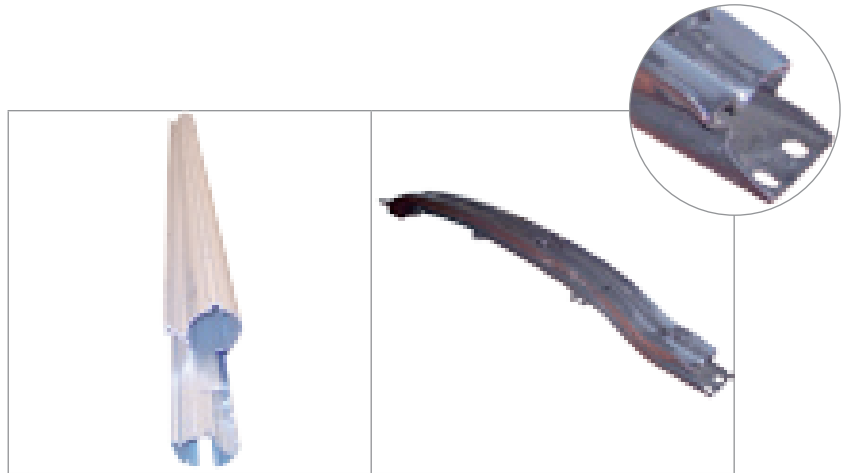
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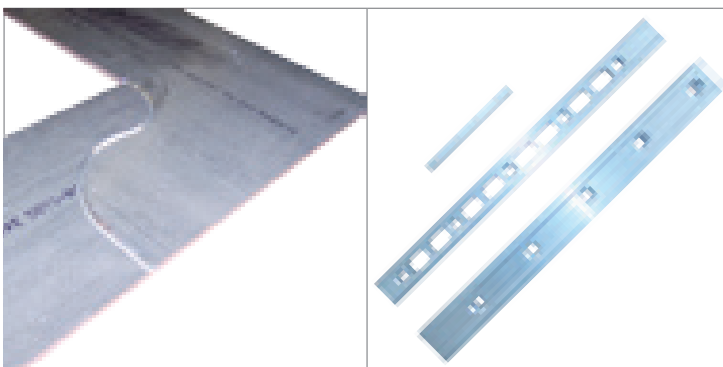
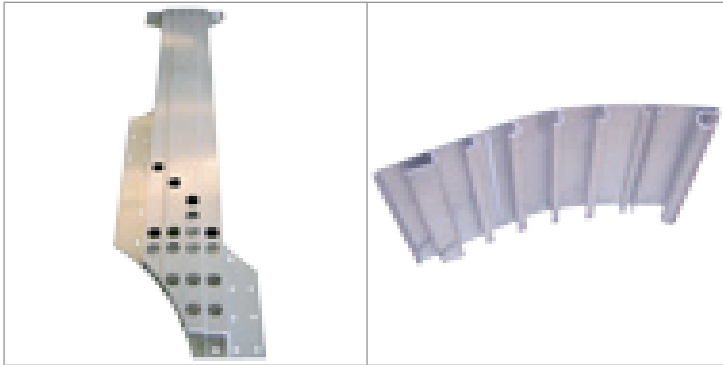
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Transport



3-axis CNC vertical machining centre.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 3 mm thick, steel reinforced PVC, and various other plastics or wood.







## Features

- Machinable length: 4000 mm
- Machinable width: max 270 mm
- Machinable height: max 220 mm

3-axis CNC vertical machining centre.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 5 mm thick, steel reinforced PVC, and various other plastics or wood.





## Features

- Machines 6100 or 7900 mm long are divided into two work areas
- Machinable length:
  - ↳ 3100 mm
  - ↳ 6100 mm (Twin 2550 mm × 2)
  - ↳ 7900 mm (Twin 3450 mm × 2)
- Machinable width: max 270 mm
- Machinable height: max 220 mm

3-axis CNC vertical machining centre.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 10 mm thick, steel reinforced PVC, and various other plastics or wood.





## Features

- Machines 6500 or 8000 mm long are divided into two work areas.
- Machinable length:
  - ↳ 3500 mm
  - ↳ 6500 mm (Twin 2750 mm × 2)
  - ↳ 8000 mm (Twin 3500 mm × 2)
- Machinable width: max 500 mm
- Machinable height: max 220 mm

3-axis CNC vertical machining centre.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 10 mm thick, steel reinforced PVC, and various other plastics or wood.





## Features

- Machines 6500 or 8000 mm long are divided into two work areas.
- Machinable length:
  - ↳ 3500 mm
  - ↳ 6500 mm (Twin 2750 mm × 2)
  - ↳ 8000 mm (Twin 3500 mm × 2)
- Machinable width: max 800 mm
- Machinable height: max 220 mm

3-axis CNC vertical machining centre with 1 additional pneumatic axis equipped with an electric spindle that can rotate around the C axis allowing for machining on three sides of a profile with just one clamping operation. This machining centre is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 5 mm thick, steel reinforced PVC, and various other plastics or wood.







## Features

- Twin – segmentation of the machine for length 7200
- Possibility to machine three faces: fixed pneumatic positioning of the milling head on  $0^\circ$ ,  $+90^\circ$ ,  $-90^\circ$
- Machinable length:
  - ↳ 4000 mm
  - ↳ 7200 mm (Twin 3100 mm  $\times$  2)
- Machinable width on 3 faces: max 300 mm
- Machinable height: max 300 mm

## TK 427N

4-axis CNC vertical machining centre equipped with an electric spindle that can rotate around the C axis, this allows for machining on three sides of a profile with just one clamping operation.

This machining centre is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 5 mm thick, steel reinforced PVC, and various other plastics or wood.





## Features

- Machines 6200 or 7700 mm long are divided into two work areas.
- Machinable length:
  - ↳ 3200 mm
  - ↳ 6200 mm (Twin 2600 mm x 2)
  - ↳ 7700 mm (Twin 3350 mm x 2)
- Machinable width: max 500 mm
- Machinable height: max 200 mm
- Machining capacity on three faces: 200 mm x 365 mm with tools L=135 on Z, L=61 on Y

4-axis CNC vertical machining centre equipped with an electric spindle that can rotate around the C axis, this allows for machining on three sides of a profile with just one clamping operation.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 5 mm thick, steel reinforced PVC, composite materials and various other plastics or wood.





## Features

- Machines 6700 or 8400 mm long are divided into two work areas
- Machinable length:
  - ↳ 3500 mm
  - ↳ 6700 mm (Twin 2850 mm x 2)
  - ↳ 8400 mm (Twin 3700 mm x 2)
- Machinable width: max 725 mm
- Machinable height: max 300 mm
- Machining capacity on three faces: 300 mm x 700 mm with tools L=100 on Z, L=40 on Y

5-axis CNC vertical machining centre equipped with an electric spindle that can rotate around the B and C axis, this allows for machining on five sides of the profiles with just one clamping operation and with no aggregate heads. This machining centre is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum extruded profiles and other materials, including steel profiles up to 5 mm thick, steel reinforced PVC, composite materials and various other plastics or wood.





## Features

- Machines 6600 or 8200 mm long are divided into two work areas.
- Machinable length:
  - ↳ 3500 mm
  - ↳ 6600 mm (Twin 2400 ÷ 2900 mm)
  - ↳ 8200 mm (Twin 3200 ÷ 3700 mm)
- Machinable width: max 725 mm
- Machinable height: max 300 mm
- Machining capacity on three faces: 300 mm x 700 mm with tools L=100 on Z, L=53 on Y

## TK 419/3

3-axis CNC vertical machining centre with superior machining capability in Y (1600 mm). It features a clamping system made up of vacuum tables that allow panels and plates to be held by vacuum.

This machining centre is designed for drilling and interpolated milling operations on composite panels, panels and plates in aluminum and steel.







## Features

- Machinable length: 3200 mm
- Machinable width: max 1600 mm
- Machinable height: max 100 mm

## TK 429V - TK 429VF

TK 429V: 3-axis CNC vertical machining centre with superior machining capability in Y (2000 mm). It features a clamping system made up of vacuum tables that allow panels and plates to be held by vacuum.

TK 429VF: 4-axis CNC vertical machining centre equipped with an electric spindle that can rotate around the C axis, this allows for machining on three sides of a profile with just one clamping operation.

This machining center is designed for drilling and interpolated milling operations on composite panels, panels and plates in aluminum, stainless steel, titanium and on aluminum profiles.





## Features

- Vacuum beds are divisible into 2 parts to concentrate the air on one limited area allowing the anchorage of small pieces
- Machinable length:
  - ↳ 4140 mm
  - ↳ 6440 (Twin 2760 mm × 2)
  - ↳ 8280 (Twin 3680 mm × 2)
- Machinability in Y (panels): 2000 mm
- Machinability in Z (panels): 185 mm (60 mm with blow out system)
- Machinability in Y (profiles): 1740 mm (1350 mm for the TK 429VF model)
- Machinability in Z (profiles): 145 mm (205 mm for the TK 429VF model)

## TK 429P

3-axis CNC vertical machining center.

Specifically designed to manufacture sectional panels, this model is equipped with a clamping system that can be rapidly adjusted to the width of the loaded panel, in order to fix panels with different widths without modifying the tooling-up of the machine.

This machining center is designed for drilling and conventional milling processes and also for copy-milling operations on aluminum and steel sectional panels, for industrial heavy doors and garage doors and for sandwich panels with polyurethane foam cores for walls and coatings, etc.



## TK 429P



## Features

- Machinable length: 6600 mm
- Machinable width: max 1500 mm
- Machinable height: max 190 mm



■ Tekna company

## Reasons that justify the choice of Tekna machining centres

- Excellent value for money allowing the purchase and a fast pay back.
- Possibility to work aluminium, PVC, steel, etc.
- Very easy programs that do not require new operators but improve their knowledge.
- Extreme flexibility that makes it more profitable even with "one of" machinings, copy millers and drills.
- Optional modules increasing the production in case of mass-production and that can be added to the existing machines.
- Continual development of the software according to the users' specific requirements.
- References of more than 1000 clients, fully satisfied - more than 60% of units are exported.



■ Tekna lab

## Servicing

- Studies for the feasibility and machining times based on samples or drawing.
- Phone highly specialised technical assistance, for problems on machines and on software.
- Modem for troubleshooting and downloading program updates.

## Tekna lab

In our demonstrative shop we installed one machine per type for:

- Testing new hardware and software before starting their production.
- General and complete machining demonstrations according to the clients requirements.
- Machining tests on particularly difficult operations for which the client asks for assistance.
- Research, tests, advises on tools, cycles, lubrications, etc.
- Machining classes with ISO language.

## Machining centres

### Branches

Tekna Centro  
Tekna Nordest  
TK Maquinaria  
TK Portuguesa  
TK Porto  
Tekna Deutschland  
Tekna Usa  
South America  
China



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