

\_\_\_\_\_ .TKE range

**CL**

The Machining Centres represent the most advanced solution in aluminium and PVC machining. Great productive autonomy, flexibility and the capacity to ensure high quality processing standards are just some of the characteristics that distinguish them, the result of precious work carried out jointly by the research/development and engineering sectors at the Tekna brand.



# TKE 985

ALU  
PVC  
STEEL



## TKE 985

5-axis CNC machining centre with moving gantry structure. Designed for milling, drilling, thread cutting and cutting on bars or large workpieces of aluminium, PVC, light alloys in general and steel. The moving part of the machine consists of a gantry with precision rack and pinion drive. The high power (10 kW in S1) electrically-driven spindle with HSK-63F tool holder allows machining operations, including heavy-duty work, with optimum results in terms of speed and accuracy.

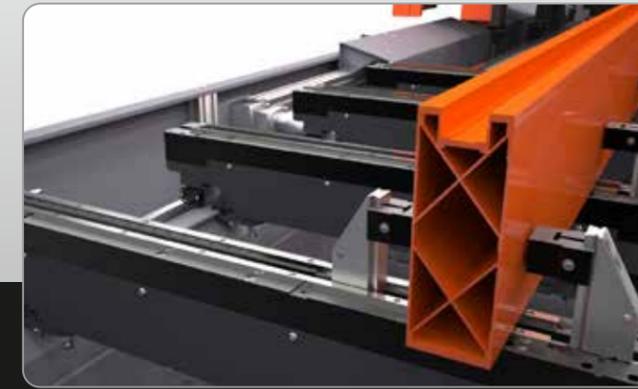
A fixed 14-place tool magazine is installed on the left side of the machine. It can be supported with a further fixed 14-place magazine on the other side of the machine, or replaced by a single 16-place motorised tool magazine

that can move and approach the moving gantry structure in both the working areas thanks to its own CNC axis, reducing the tools and toolholders quantity requirement and optimising the software programming considerably. The machine can be used in double mode so as to minimize machine downtime, as it is possible to change the workpiece (load/unload) in "concealed" time. It is also possible to machine different workpieces between the two work areas.

The gantry is provided with a guard which, besides protecting the operator, also reduces the noise impact on the environment.

# TKE 984

ALU  
PVC  
STEEL



## TKE 984

4-axis CNC machining centre with moving gantry structure, designed for drilling, milling, thread cutting and cutting at angle any from -90° to +90° on bars or workpieces of aluminium, PVC, light alloys in general and steel. The moving part of the machine consists of a gantry with precision rack and pinion drive. The high power 9 kW electrically-driven spindle with HSK-63F tool holder allows machining operations, including heavy-duty work, with optimum results in terms of speed and accuracy.

A fixed 14-place tool magazine is installed on the left side of the machine. It can be supported with a further fixed 14-place magazine on the other side of the machine, or replaced by a single 16-place motorised tool magazine that can move and approach the moving gantry structure in both the working

areas thanks to its own CNC axis, reducing the tools and toolholders quantity requirement and optimising the software programming considerably.

The machine can be used in double mode so as to minimize machine downtime, as it is possible to change the workpiece (load/unload) and the automatic setting of the vices in "concealed" time. It is also possible to load and consequently machine different workpieces and to perform different machining operations between the two work areas.

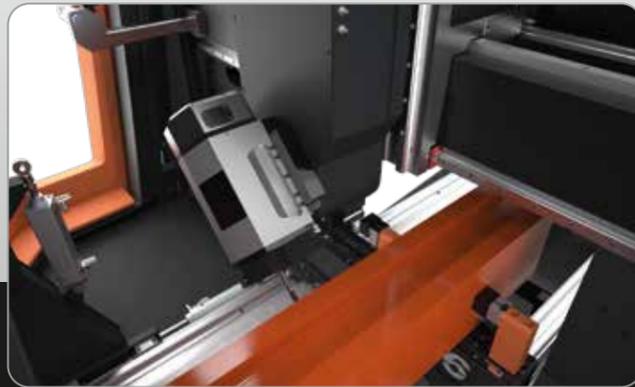
The gantry is provided with a guard which, besides protecting the operator, also reduces the noise impact on the environment.

# TKE 954 - TKE 954F Powered by FANUC

ALU

PVC

STEEL



## TKE 954 - TKE 954F

4-axis CNC mobile gantry machining centre, designed for drilling, milling and threading at any angle from -90° to +90° on bars or pieces in aluminium, PVC, light alloys and steel up to 2 mm thickness. The mobile part of the machine is composed of a gantry with double gantry motorisation on a high precision rack. The local safety cabinet, made in technopolymer, was designed to combine top functionality, accessibility, soundproofing and light with safety and ergonomic requirements. The operator has broad glazed surfaces to check machining execution and easy access during cleaning and maintenance. Cab interior ensures chip conveying to the collection system available in the base. The 8.5 kW electrospindle is able to perform even heavy-duty machining with excellent, rapid and accurate results. A 10 kW electrospindle with encoder for rigid tapping is available as optional for TKE 954 and standard for TKE 954F.

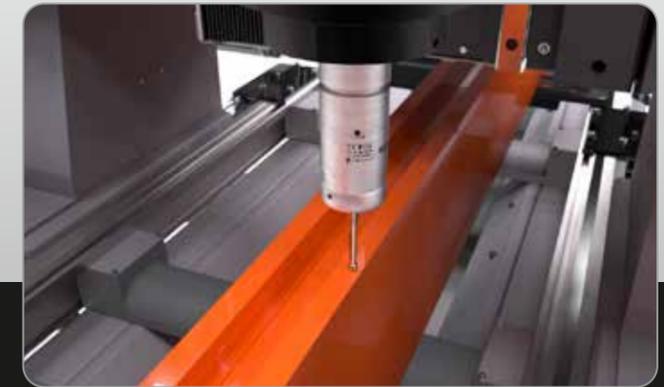
The 12-place tool magazine, integrated into the mobile gantry, features two dedicated positions for holding a blade with a maximum diameter of 250 mm and an angular machining unit. It includes two different operating modes: the first one, in single-zone mode, for machining whole bars in a single working area, up to 7 m long; the second one, in double operation, for working on multiple workpieces in the two separate working areas. In version with clamp handling system on H and P axes, the machine can be used in dynamic double operation. TKE 954 features a laser scanner for more precise and advanced access control to the machine, raising safety and operator/machine interface standards. TKE 954 F version, equipped with FANUC CNC Numerical Control, Motors and Encoders.

# TKE 944 - TKE 943

ALU

PVC

STEEL

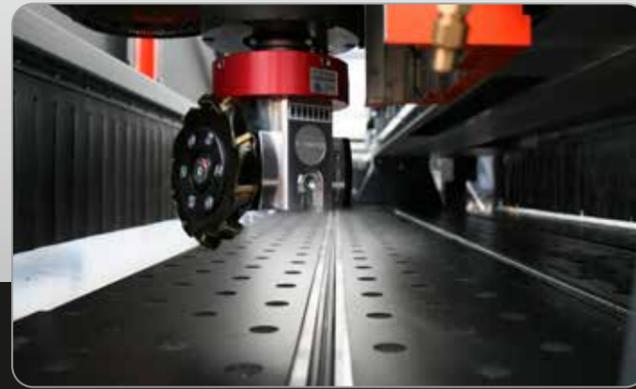
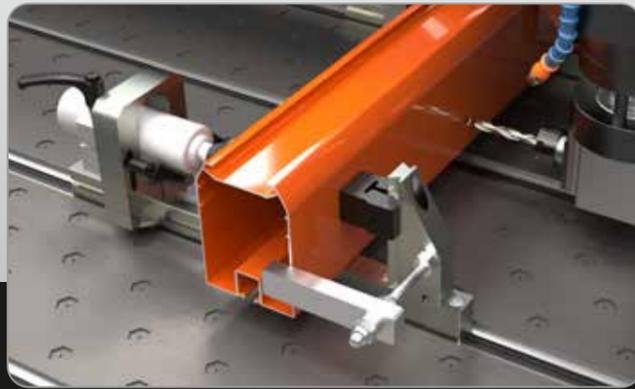


## TKE 944

4-axis CNC machining centre with moving gantry structure, designed for drilling, milling, thread cutting and cutting at angle any from -90° to +90° on bars or workpieces of aluminium, PVC, light alloys in general and steel. The moving part of the machine consists of a gantry with precision rack and pinion drive. The 8,5 kW electro-spindle with ISO 30 tool holder allows machining operations, including heavy-duty work, with optimum results in terms of speed and accuracy. The machine can be used in double mode (7000 model) so as to minimize machine downtime, as it is possible to change the workpiece (load/unload) and the automatic setting of the vices in "concealed" time. It is also possible to load and consequently machine different workpieces between the two work areas. The automatic tool magazine is available in a fixed solution on board the machine with 4/8 places, recommended for single place machining. Otherwise a 12-places automatic magazine on board the carriage, ideal to allow a faster tool change and useful for the double mode machining, is available. The gantry is provided with a guard which, besides protecting the operator, also reduces the noise impact on the environment.

## TKE 943

3-axis CNC machining centre with moving gantry structure, designed for drilling, milling and threading on bars or workpieces of aluminium, PVC, light alloys in general and steel. The moving part of the machine consists of a gantry with precision rack and pinion drive. The 5,5 kW electrically-driven spindle with ISO 30 tool holder allows machining operations, including heavy-duty work, with optimum results in terms of speed and accuracy. The machine can be used in double mode (7000 model) so as to minimize machine downtime, as it is possible to change the workpiece (load/unload) and the automatic setting of the vices in "concealed" time. It is also possible to load and consequently machine different workpieces between the two work areas. The automatic tool magazine is available in a fixed solution on board the machine with 4/8 places, recommended for single place machining. Otherwise a 12-places automatic magazine on board the carriage, ideal to allow a faster tool change and useful for the double mode machining, is available. The gantry is provided with a guard which, besides protecting the operator, also reduces the noise impact on the environment.



### TKE 783

3-axis CNC vertical machining center with Y-axis stroke of 2000 mm, featured with a clamping system made up of vacuum tables that allow panels and plates to be held by vacuum; this solution is useful to obtain an extremely efficient machining of thin components that could hardly be fixed by means of a traditional clamping system.

The machining center is equipped with a series of valves that turn on/off different areas of the machining table, thus concentrating the suction on one area and optimizing the clamping of components with limited dimensions. It is designed for drilling and interpolated milling operations on composite panels, panels and plates in aluminum and steel.

To create programs that control the machines, Tekna provides user-friendly software tools that can be used both by professional CNC programmers, who can implement the most complex solutions, and by completely inexperienced users; after a few training hours the customer will be able to operate the machining center using a graphical programming. Software solutions offered by Tekna result from an accurate design and from the actual customer needs analysis. The simplicity of usage of these solutions reduces the management time and costs. The machine is equipped with Fanuc CNC Numerical Control, motors and encoders.



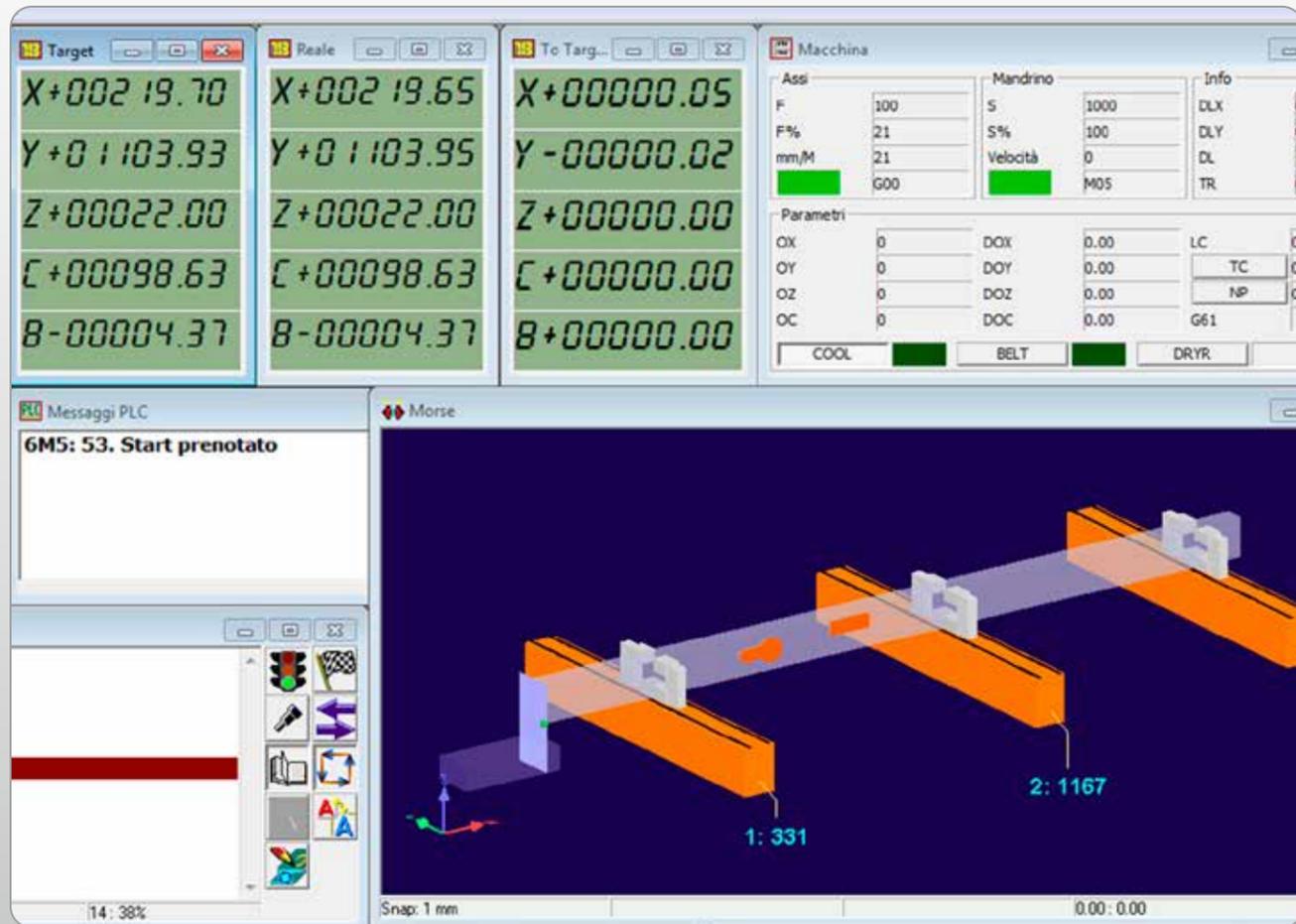
### TKE 743

3-axis CNC vertical machining center featured with a clamping system made up of vacuum tables that allow panels and plates to be held by vacuum; this solution is useful to obtain an extremely efficient machining of thin components that could hardly be fixed by means of a traditional clamping system.

The machining center is equipped with a series of valves that turn on/off different areas of the machining table, thus concentrating the suction on one area and optimizing the clamping of components with limited dimensions. It is designed for drilling and interpolated milling operations on composite panels, panels and plates in aluminum and steel.

To create programs that control the machines, Tekna provides user-friendly software tools that can be used both by professional CNC programmers, who can implement the most complex solutions, and by completely inexperienced users; after a few training hours the customer will be able to operate the machining center using a graphical programming. Software solutions offered by Tekna result from an accurate design and from the actual customer needs analysis. The simplicity of usage of these solutions reduces the management time and costs. The machine is equipped with Fanuc CNC Numerical Control, motors and encoders.

# SOFTWARE FOR MACHINING CENTRES



## CN6 - Numerical Control for TKE 943 - 944 - 984 - 985

The Numerical Control basic software, which controls all the functions of the Working Centre through a window-based interface, includes:  
 The operator graphic interface (HMI, Human Machine Interface) that displays all the variables of the Centre, related both to programming and user.  
 ISO language editor: the internationally renowned ISO language is used for programming CNC machines. It allows creating programs for the execution of any machining, with linear or interpolated paths, variable speeds, tapping, use of parametric data, etc. and handle all the machine functions.

Project file: simple, easy-to-use and extraordinary useful function of the CN6, used as interface between any management program and the machine. Within a company it guarantees a bond, i.e. a unique language, between the management function and the machine operators. Scheduler function that operates in several modes aimed both to serial production and to a more flexible production in small quantities. Integrated Formulas Software: it allows defining formulas based on default variables (i.e. profile length) and then use them as macro parameters or in "if" functions.

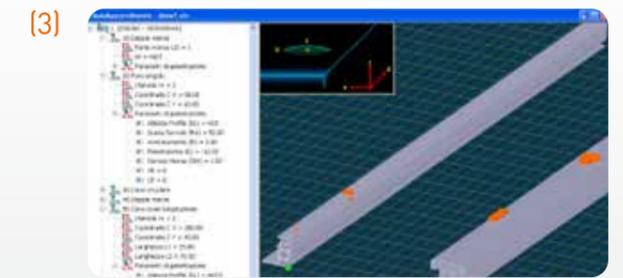
## FANUC - Numerical Control for TKE 954 F - 743 - 783

FANUC is the leading global manufacturer of factory automation, with more than 60 years of experience in the development of computer numerical control equipment. FANUC CNC systems in the industry is the best value controls with powerful functionality and high-performance control systems for complex machines – all with fast programming and ease of use, guaranteeing the highest quality and short processing times. FANUC iHMI has been designed to be extremely easy to use. Intuitive menu icons, high-visibility design and animated features take the head-scratching out of complex machining operations, making accessing even the most sophisticated programs and functionalities straightforward. Despite its more intuitive layout, users will nevertheless find that it provides a familiar FANUC user experience.



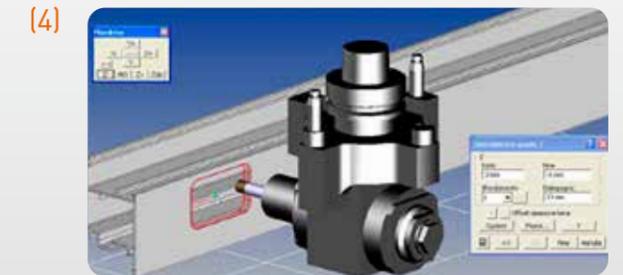
## SLW Self-Learning (3) for TKE 943 - 944 - 984 - 985

SLW (Self Learning for Windows) software license, complete with additional macro libraries, for creating machining programs from the office. This standard software is included on all Tekna CNC machining centers.  
 The SLW Self-learning software allows operators to easily create machining programs, selecting from a graphic menu a default number of functions (macros). The macro library created by Tekna includes a wide range of machining processes and the development of functions that additionally simplify the man-machine interface, so that even an inexperienced user can easily create several machining programs.



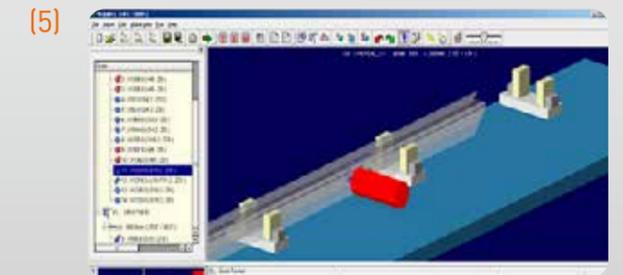
## CAMPLUS (4) for TKE 954

For Machining Centres management, we have a broad range of software: CAMPLUS, SHAPE and DRIVER CAD which are complementary and integrate each other. They allow you to define all machining that needs to be carried out on the piece quickly and graphically and move onto the production phase in just a number of minutes. The tasks of the machine operator are simplified, thanks to the guided and extremely simple interface. CAMPLUS allows you to programme machining graphically in 3D, visualising the profile and the tool. The software includes the most recurrent figures (holes, slots, rectangles, etc) that can be broadened with SHAPE, which is used to freely define figures of any shape. MACHINE SUPERVISOR is the module used to control and check the duration of the various machine phases (turn on/off, cycles, alarms) as well as the list of machined pieces.



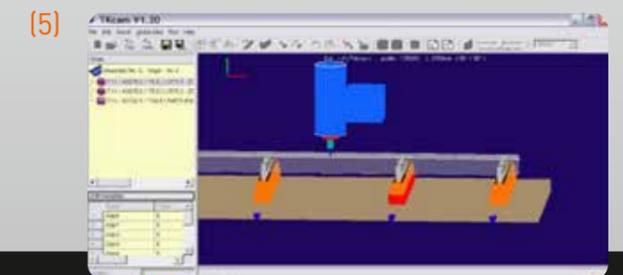
## TK Cam (5) for TKE 943 - 944 - 954 - 954F - 984 - 985

Optional 3D CAD / CAM software package that allows the creation of ISO programs through a three-dimensional graphics programming.  
 With TK Cam it is possible to assign machining tasks regardless of the type of machine and tool set used and see the three-dimensional representation of the current program execution as in a simulation. TK Cam provides optimisation tools, optimisation of clamps, an anti-collision function and the automatic generation of ISO codes for the program execution. TK Cam makes it possible to import specific .dxf or .dwg drawings and assign the corresponding machining tasks. In addition it allows interaction with the most common door and window frame management programs.



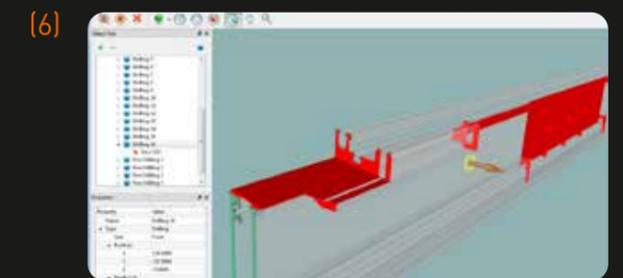
## TK CadX (6) for TKE 943 - 944 - 954 - 954F - 984 - 985

TK CadX is an optional TK Cam software module used to import 3D models and to identify the machining types which can be carried out by a CNC machine. By importing files in STEP, TK CadX independently scans all the surfaces, analyses and processes the data necessary for the workpiece machining; these data are then exported in NCX file (format read by TK Cam) for the automatic generation of ISO machining programs of the single machines.



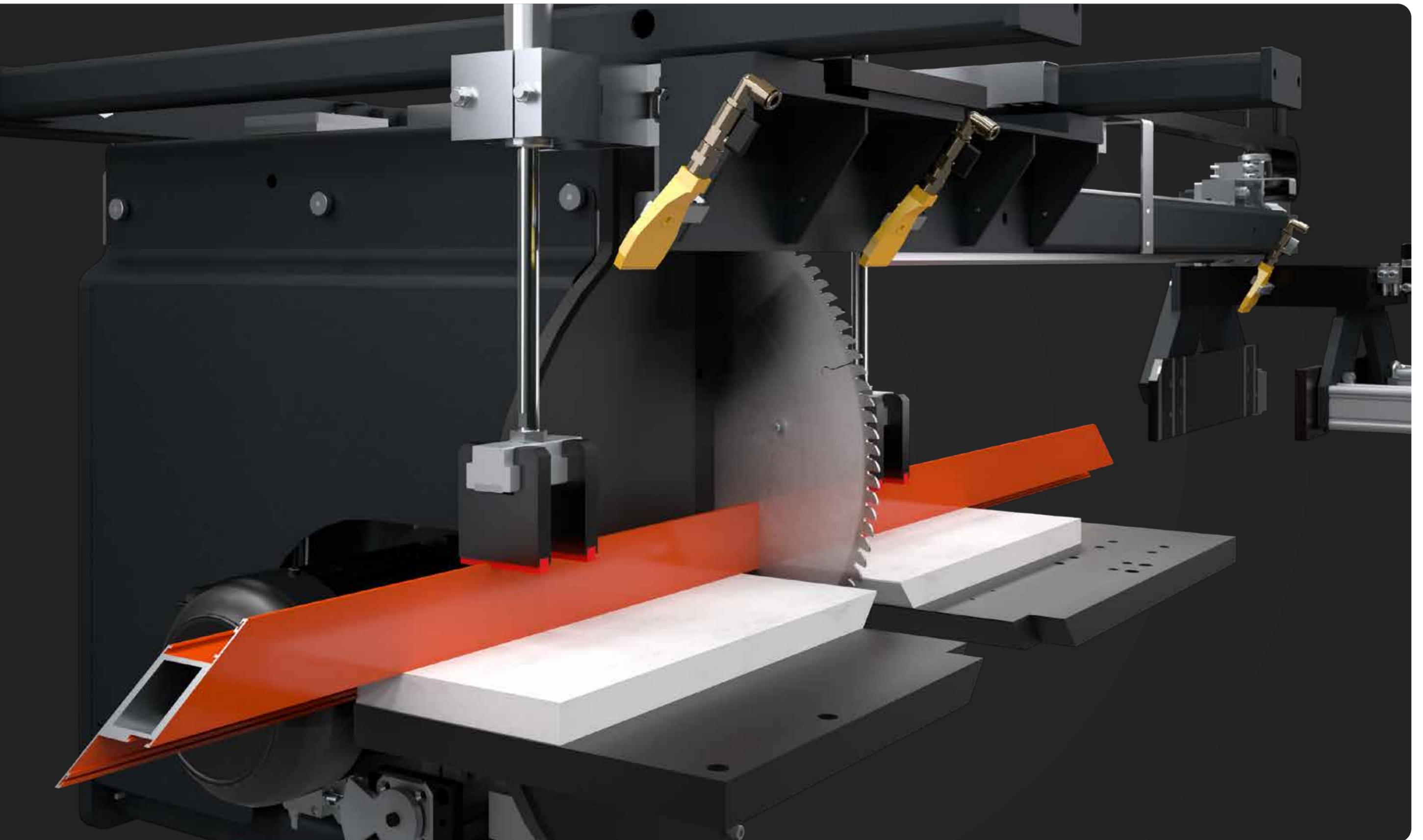
## Alphacam (7) for TKE 743 - 783 - 954F

Alphacam is a 2D/3D CAD/CAM optional software that, starting from a CAD drawing, allows generating machining programs in ISO language compatible with the CN FANUC by inserting information on the desired machining process. The geometrical scale and dimensional changes of an existing drawing are automatically converted into a new updated program.  
 Alphacam can import files of various formats including .dxf and .dwg and allows the processing of texts and the consequent generation of ISO codes. Alphacam also includes the NESTING function: two-dimension optimisation program, it is used to calculate, starting from the initial dimensions of the panel, the optimal distribution of the figures to be machined so as to obtain the highest possible number of pieces. It is an easy-to-use application that allows the operator to exploit the materials as most as possible while minimising waste.



**CT**

The Tekna cutting centres represent the range of products dedicated to cutting Aluminium and PVC bars and light alloys in general. Solutions with 1 to 3 CNC-controlled axes, for cutting profiles in automatic and semiautomatic.

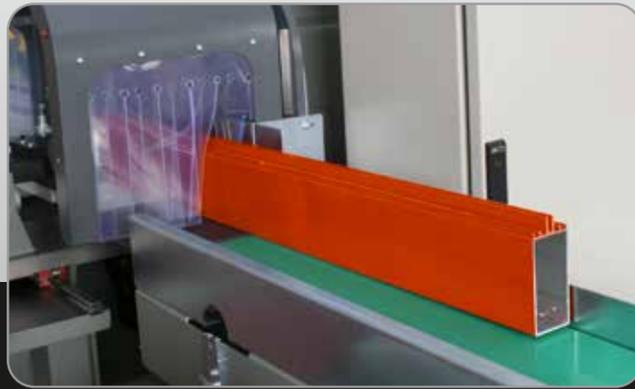


# TKE 800

ALU

PVC

STEEL



## TKE 800

C Semi-automatic CNC cutting-off centre with horizontal blade feed, 2 controlled axes, designed for cutting profiles made of aluminium, PVC, light alloys in general. It performs automatic cutting according to predefined and optimized cutting lists. The machine is intended to perform cutting at an angle from 45° to 135° or from 22°30' to 157°30'. It can be fitted with customised

horizontal and vertical drilling units for specific automatic machining operations. The workpieces are machined in line. They are loaded from the feeder side and are to be unloaded manually on the opposite side.

# TKE 801 - TKE 802

ALU

PVC

STEEL



## TKE 801

Automatic CNC cutting-off centre with horizontal blade feed, 3 controlled axes, designed for cutting profiles made of aluminium, PVC, light alloys in general. It performs automatic cutting according to predefined and optimized cutting lists. It can perform the bevelled cut on both sides of the profile. The machine is intended to perform cutting at an angle from 45° to 135°, manual loading and is equipped with an automatic unloading magazine on

the opposite side. The workpiece discharge magazine is equipped with an automatic tilting and translation system that enables continuous machining, reducing the cycle time. The magazine also allows the accumulation of finished workpieces while a sensor signals that the magazine is full. It can be fitted with customised horizontal and vertical drilling units for specific automatic machining operations.



## TKE 802

Automatic CNC cutting-off centre with horizontal blade feed, 3 controlled axes, designed for cutting profiles made of aluminium, PVC, light alloys in general. It performs automatic cutting according to predefined and optimized cutting lists. It can perform the bevelled cut on both sides of the profile.

The machine is intended to perform cutting at an angle from 45° to 135°. Automatic bar feeder and automatic unloading magazine on the opposite side. It can be fitted with customised horizontal and vertical drilling units for specific automatic machining operations.

# DT

Tekna double-head cutting-off machines offer unique performance features such as sturdiness and reliability. They represent the ideal tool for cutting aluminium and PVC bars of various thicknesses and angles. Latest generation machines that can contribute considerably to the production cycle due to their high level of precision as well as considerable ease of use.



# TKE 553

ALU

PVC

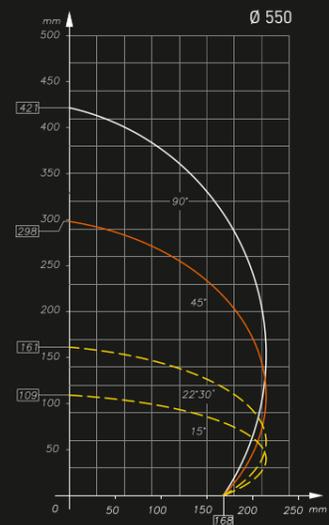
STEEL



## TKE 553

Twin-head cutting-off machine with 3 controlled axes with automatic movement of the mobile head and electronic management of all 45° (internal) to 15° (external) angles.

Blades feed driven by hydro-pneumatic cylinders. 550 mm-blade. Available with a useful cut of 4m or 5m or 6m in length.



# TKE 551

ALU

PVC

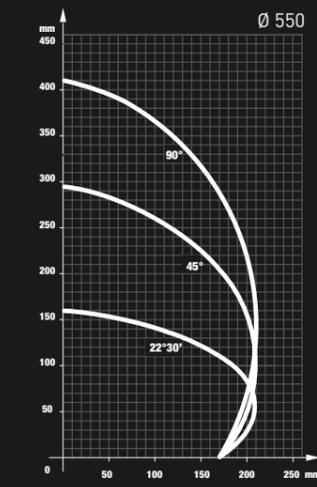
STEEL



## TKE 551

Twin-head cutting-off machine with 1-axis controlled (X-axis) with pneumatic tilting of the heads from 90° to 22°30' outwards. The intermediate angles are managed by a mechanical stop.

The blades progress by means of hydro-pneumatic cylinders. 550 mm blade. Available with a useful cut of 4m and 5m in length.



**MT**

In their range of Single-head cutting-off machines Tekna can offer a vast choice of products designed for the industrial and/or window and door frame sectors. Easy to use and versatile, they offer a number of functions and accessories that make them truly unique in their kind.



# TKE 305EA

ALU

PVC

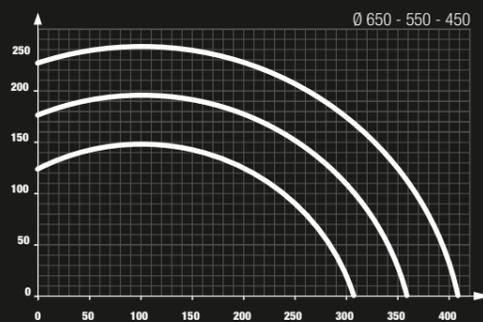
STEEL



## TKE 305EA

Single head, rising blade cutting-off machine with automatic cycle, for 90° cutting, equipped with N/C bar feeder. It can be set up with four different diameter blades, the blade feed is N/C electrical driven. For cutting needs that require a perfect finish, a pneumatic system for the automatic separation of the cut piece, in

order to avoid the traces commonly left when the blade comes back in this cutting mode, is optionally available. It can be also provided with inverter, to control the blade rotation speed for the best adjustment to the cutting profile. It can also be equipped with an automatic bar loading magazine and with custom drilling units for particular needs.

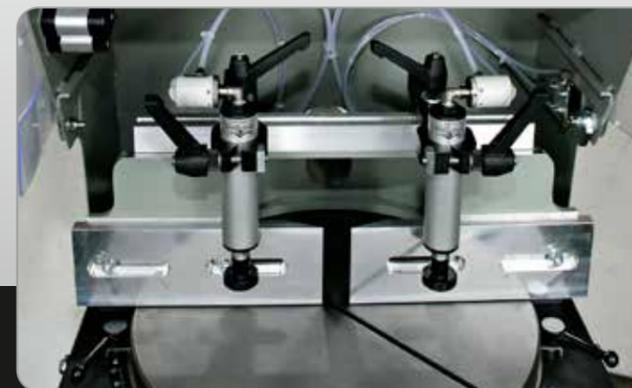


# TKE 355PA-350PA-345PA TKE 340PA

ALU

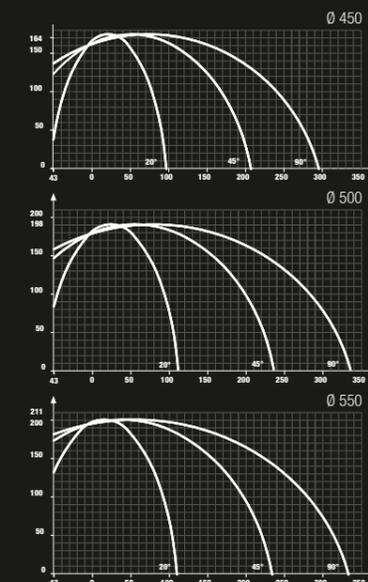
PVC

STEEL



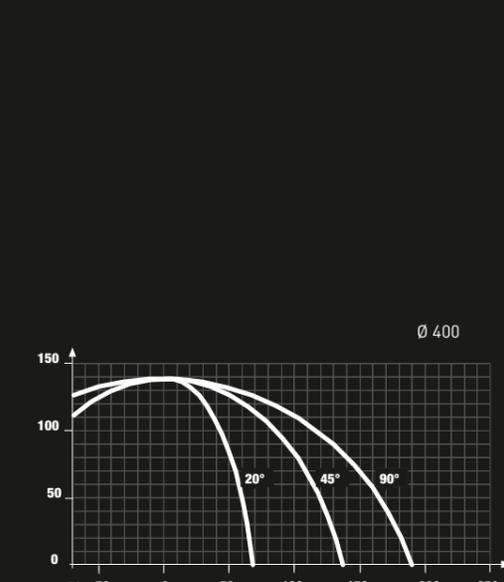
## TKE 355PA - 350PA - 345PA

Single-head, rising blade cutting-off machine, with left loading side, able to perform cuts from 20° left to 20° right and intermediate angles.



## TKE 340PA

Single-head, rising blade cutting-off machine, with left loading side, able to perform cuts from 15° left to 15° right and intermediate angles.



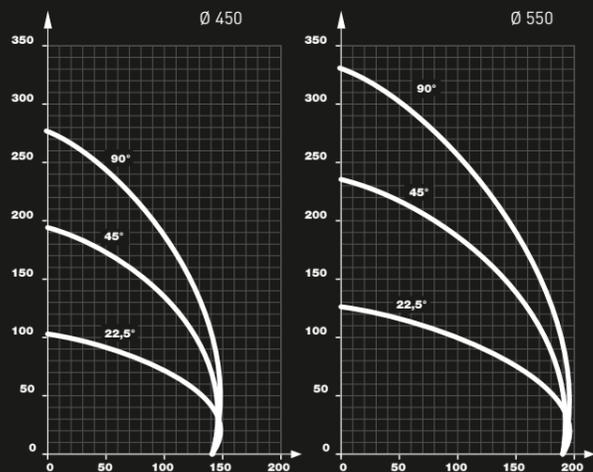
# TKE 355PF-345PF TKE 340SD

ALU  
PVC  
STEEL



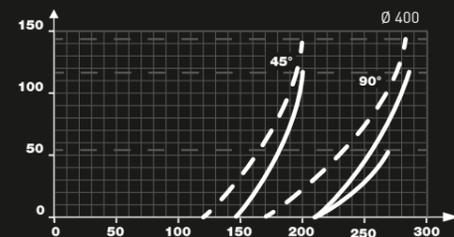
## TKE 355PF - 345PF

Single-head cutting-off machine with horizontal blade feed and left loading side, pneumatic double side tilting of the cutting head in fixed positions: 45° to the left, 90°, 45° and 22°30' to the right. A special positive stop also allows cutting at intermediate angles.



## TKE 340SD

Single-head, descending blade cutting-off machine with left loading side, rotation of the cutting head to 45° (left and right) and manual tilting by 45° referred to the horizontal axis.



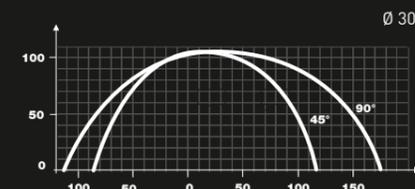
# TKE 330SA-330MA TKE 340PA

ALU  
PVC  
STEEL



## TKE 330SA - 330MA

Single-head, rising blade cutting-off machine designed for cuts at 90°, 45° left and right and intermediate angles.



## TKE 335R

Single-head trimming machine with rising blade, for extruded profiles and flat sheets of aluminium. The especially rugged structure allows well defined and accurate cutting and ensures perfect parallelism between the profiles faces. Furthermore it can be equipped with profile support roller conveyors to increase its versatility. The blade guard is designed and built to work under the best safety conditions.

# TKE MEASUREMENT STOPS

ALU

PVC

STEEL



## MICROBO

Measurement and profile support verification system with movement of the lock through C.C. motor and electronic encoder reading.

Measurement repeatability tolerance  $\pm 0.3$  mm.

# TKE ROLLER CONVEYORS

ALU

PVC

STEEL



## FERMO MV - FERMO VIS

Measurement and profile support verification system with positioning of the end stop using a handwheel and reading of the quota on the digital display screen.

Positioning tolerance  $\pm 0.5$  mm.



## INFEEED ROLLER - OUTFEED ROLLER

Structure in steel tubular con adjustable feet and PVC-coated steel rollers. 3,500 mm long roller conveyors with 240 mm rollers, or 4,000 mm-long with

440 mm rollers. Unloading roller conveyors equipped with metric rod and measuring lock.



**MG2-T**

Extraction system for aluminium, steel and PVC swarf with single suction nozzle, designed for cleaning machines and the work environment or extract swarf from work units that require high vacuum values. The use of a high-depression side duct turbine makes it suitable for various extraction requirements. Equipped with an anti-static filter, this is a wheel-mounted, quick-release, automatic vibrating filter and collection tank cleaning system, to dispose of exhausted material easily and quickly.



**MG8-T**

The swarf extractor with double suction nozzle system is intended for the work environment. The use of a high-depression side duct turbine makes it suitable for various extraction requirements. Equipped with an anti-static filter, it is suitable for the extraction of aluminium, steel and PVC swarf and comes complete with a wheel-mounted, quick release collection tank.



**MG2-V**

Extraction system for aluminium, steel and PVC swarf from work units, intended for for the work environment. Silenced exhaustor with single suction nozzle, that is also suitable for continuous operation, complete with automatic start with power supply from the mains or directly from the machine. The use of a high-capacity fan, makes it suitable for various extraction requirements. A wheel-mounted, quick-release, automatic vibrating filter and collection tank cleaning system, for the quick and easy disposal of exhausted material.



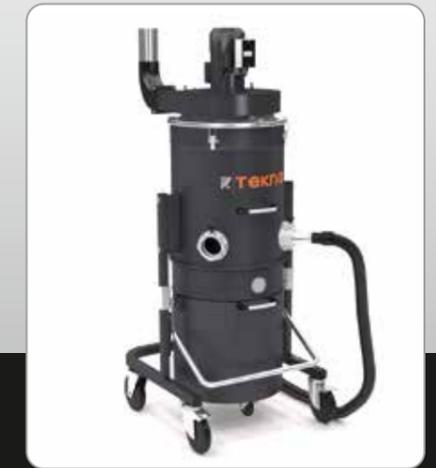
**MG4-V**

Extraction system for aluminium, steel and PVC swarf from work units. Silenced exhaustor with double suction nozzle, that is also suitable for continuous operation, complete with automatic start with power supply from the mains or directly from the machine. The use of a high-capacity fan, makes it suitable for various extraction requirements. A wheel-mounted, quick-release, automatic vibrating filter and collection tank cleaning system, for the quick and easy disposal of exhausted material.



**MG4-VP**

Swarf extraction system from work units with independent power supply and automatic start from machine. Ideal for aluminium, steel and PVC. The use of a high-capacity fan, makes it suitable for various extraction requirements. A wheel-mounted, quick-release, automatic vibrating filter and collection tank cleaning system, for the quick and easy disposal of exhausted material.

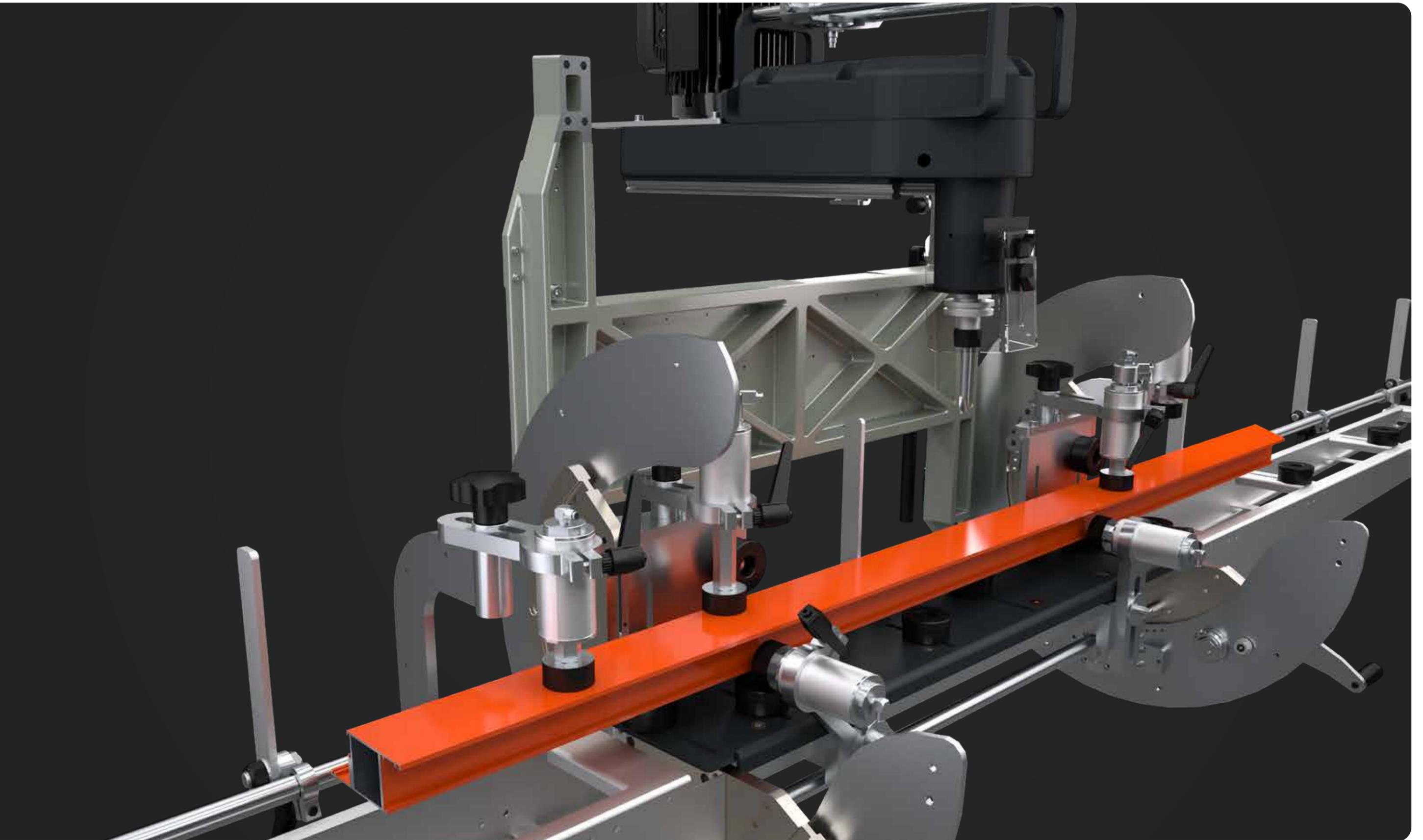


**MG2-TP**

Swarf extraction system specific for centers working panel for TKE 783 and TKE 743 panels, with independent power supply and automatic start from machine. Ideal for aluminium, steel and PVC. The use of a high-capacity fan, makes it suitable for various extraction requirements. A wheel-mounted, quick-release, automatic vibrating filter and collection tank cleaning system, for the quick and easy disposal of exhausted material.

**F**

The Complementary Technologies carry out an important role in the world of workshops, as this range of products offers tools designed to fulfil specific requirements. For milling, drilling, splicing, filing, profile positioning and measurement verification, the Tekna line offers a wide range of dedicated machines.



# TKE 158N - TKE 158S

ALU

PVC

STEEL



## TKE 158N

Single-head copy router with 2 NC axes. Copy router with 2 controlled axes, ideal for machining aluminium profiles, PVC and steel up to 2 mm, possibility of machining stainless steel (optional). The work cycle is managed by intuitive software which guides the operator through simple instructions on the touch screen display. The USB connection allows easy connection to the PC. The 4-faced rotary work table allows increasing working speed and precision. It also allows using shorter tools thus limiting to a minimum passing machining which causes vibrations and noise. Quick tool change ISO 30. Work area with pneumatic control protection.

## TKE 158S

Manually controlled single-head copy router with pneumatic clamping and traverse of the cutting head with indirect lever. It can cut steel up to 3 mm thanks to the 1,1 kW motor with inverter. The machine, equipped with a system of rotation of the clamp base, can work 4 faces of profiles without unlocking the clamps or performing through machining, by rotating the piece up to 270° in sectors of 90°. Locking is ensured by 4 pneumatic stops. Pneumatic guard for the work zone. The rotation device allows higher machining speed and accuracy, as well as the use of shorter tools thus avoiding through machining, and reduction of vibration and noise.

# TKE 158 - TKE 151S TKE 162M - TKE 160M

ALU

PVC

STEEL



## TKE 158

Manually controlled single-head copy router with pneumatic clamping and traverse of the cutting head with indirect lever, 1,1 kW motor with inverter. The tool rotation speed can be modified with electronic variable speed drive to allow machining on steel up to 2 mm, as well as to improve quality of milling and longer tool life. Predisposition for through machining operations on aluminium without turning the workpiece. Scratch-proof work table. Pneumatic stylus with control on the handle.

## TKE 151S

Single-head copy router with manual downfeed. Manually controlled single-head copy router with pneumatic clamping and traverse of the cutting head with indirect lever. Predisposition for performing through machining operations on aluminium without turning the workpiece and for working steel up to 2 mm. Scratch-proof work table. Pneumatic stylus with control on the handle.



## TKE 162M

Horizontal end milling machine with manual feed. Milling of intermediate angles, +45° / 90° / -45°. High speed of tool rotation for improved quality machining on painted profiles and at intermediate angles. Quick cutter change with pneumatic control. Scratch-proof work table. Fully guarded work zone with high internal visibility.

## TKE 160M

Horizontal end milling machine with manual feed. Mitre milling at 90°. Quick cutter change with manual control. Scratch-proof work table. Full guarding of work zone.



Designing the correct flow of materials, whether they are semiprocessed products, parts in the assembly phase or finished products, plays an important role in rationalising and optimising the production cycle. The Tekna Logistic Line offers businesses a concrete solution to their stocking, handling and assembly needs.





## FIVE CS

Test bench for frames in aluminium. It allows re-create the conditions of use of the frame. The casement is locked by a system of vices adjustable throughout the casement height; the operator can assemble the sash and the glass inside

the casement and finally test it. The roller conveyor allows the operator to feed/outfeed heavy frames in complete autonomy.



## FIT

Large size and extendible modular bench for assembling of windows and curtain wall frames. It features 3 distinct work tables: one of soft PVC for

assembly operations, one of anti-friction hard PVC for the rotation and a roller conveyor for in-line movements.



## BFG 2400

Assembly bench for fitting the aluminium frame with gasket and glazing. The glazing is lifted via a spider clamp and, thanks to a system of self-aligning vices, the frames are pressed two-by-two. After pressing on the first two sides, the spider clamp is rotated and then it is possible to press on the other two sides.



## BA 411

Assembly bench for glazed sashes with work table tilting from 0° (horizontal) to 85°. The drop-away roller conveyor is adjustable in height (from 170 to 460 mm) independently from the work table. The work table is adjustable from 895 to 965 mm while the feet are drilled with holes for floor anchoring. The bench is provided with a central spider clamp for hoisting and positioning the glass.



## FIT MA

Modular bench for assembly and in-line handling of curtain wall frames. It is provided with two roller tracks covered with soft PVC sheathing; the distance between the two tracks is adjustable according to the width of the curtain wall section. A pneumatically operated system allows clamping the rollers during the work phases. The entire bench can be rotated by 360° in order to facilitate the assembly and sealing of the curtain wall; the angular position is clamped pneumatically.



## FIT T

Large size modular bench for assembly and in-line handling of curtain wall frames. It is provided with two roller tracks covered with soft PVC sheathing; the distance between the two tracks is adjustable according to the width of the curtain wall section. A pneumatically operated system allows clamping the rollers during the work phases.



## ACCA XL

The bench is suitable for accessories and gaskets assembly. It can rotate on a central fulcrum and can be adjustable in length, thus allowing the frame rotation.



## ROLL BENCH

Large size modular bench for assembly and in-line handling of curtain wall frames. It is provided with two roller tracks covered with soft PVC sheathing; the distance between the two tracks is adjustable according to the width of the curtain wall section. A pneumatically operated system allows clamping the rollers during the work phases.



## MODULE BENCH

Large size and extendible modular bench for assembling of windows and curtain wall frames. It features 3 distinct work tables: one of soft PVC for assembly operations, one of anti-friction hard PVC for the rotation and a roller conveyor for in-line movements.



## EDGE

Sash and casement assembly bench. Horizontal bench with pneumatic exchange between the soft PVC resting surface (for assembly operations) and the anti-friction hard PVC resting surface (for handling operations). The work table height is adjustable from 895 to 965 mm and the mounting feet are complete with holes for floor anchoring.



## SPIN BENCH

Modular bench for assembly and in-line handling of curtain wall frames. It is provided with two roller tracks covered with soft PVC sheathing; the distance between the two tracks is adjustable according to the door width. A pneumatically operated system allows clamping the rollers during the work phases. The entire bench can be rotated by 360° in order to facilitate the assembly and sealing of the curtain wall; the angular position is clamped pneumatically.



## V-LINK

Bench dedicated to the assembly of perimeter band-sawed hardware on aluminium, wood and PVC sashes. A retractable clamp system locks the sash. The bench is equipped with a shearing unit and an automatically fed screwing system as well as a system for hardware measuring and cutting with hydro-pneumatic shears.



## LINK

Sash and casement assembly bench. Tilting table from 0° (horizontal) to 85°, with pneumatic exchange between the soft PVC resting surface (for assembly operations) and the anti-friction hard PVC resting surface (for handling operations). The roller conveyor can be manually tilted and it is adjustable in height (from 170 to 460 mm) independently from the work table height. The work table height is adjustable from 895 to 965 mm and the mounting feet are complete with holes for floor anchoring.



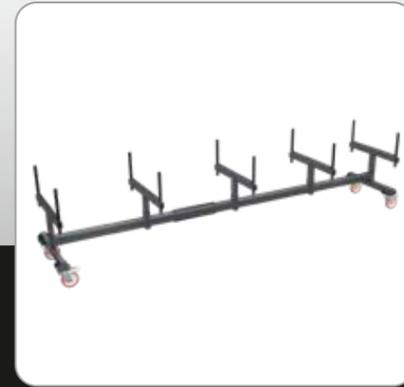
## SPIN 4

Gasket trolley. Reel with brake and gasket-guide ensure trouble-free gasket unwinding. It is equipped with a quick gasket roll change system.



## FOCUS C4

Trolley for accessories, small parts and tools, servicing the assembling workstations.



## BAR

Big size trolley designed for transportation and storage of profiled bars during the cutting phase.



## TRANSIT YP

Trolley designed for transportation and storage of glasses and panels in the assembly lines.



## TRANSIT YA

Trolley designed for transportation and storage of frames, sashes and casements.



## STACK

Trolley dedicated to horizontal transportation and storage of cut profiles.



## TAGLIO

Trolley dedicated to vertical transportation and storage of cut profiles.



## WT 450

End-of-line trolley which allows both the storage of finished door/window frames in the shop and their transportation to the site using the same equipment.



## TRANSIT KA

Trolley for transportation and storage of sashes. The base of each compartment is equipped with rolls for easier handling of heavy or large size pieces.



## TRANSIT KT

Trolley for transportation and storage of casement and finished door/window frames. The resting base has rollers for easier handling of heavy or large size pieces.

# TKE 259 - ITACA SOLUTION

ALU

PVC

STEEL



## TKE 259

Machine to apply sealant on the profiles prior the assembling with corner cleats. With this machine, the quality of the window/door remarkably improves in the meaning of a better aspect of the window/door, a protection against corrosion initiation and a protection against air, water, noise and high/low outside temperature. Thanks to the combination between this machine and its specific sealant we obtain a solution that guarantees user-friendly operation and minimum maintenance. Furthermore the optimized application on the connection surfaces allows a considerable saving of sealant and minimizes the cleaning needs for external flaws.

## ITACA SOLUTION

Crimping machine for closing corners of aluminium profiles for doors, windows and facades. The machine is controlled by an electronic system capable of storing, for each profile, the crimping coordinates. This information is required by the management system for the automatic positioning of the profile reference fork and crimping tools. The fork and tools position themselves automatically, simply by recalling the profile on which one must operate. The blades are universal, for all profiles, in the event a tool needs replacing the system notifies the operator.



