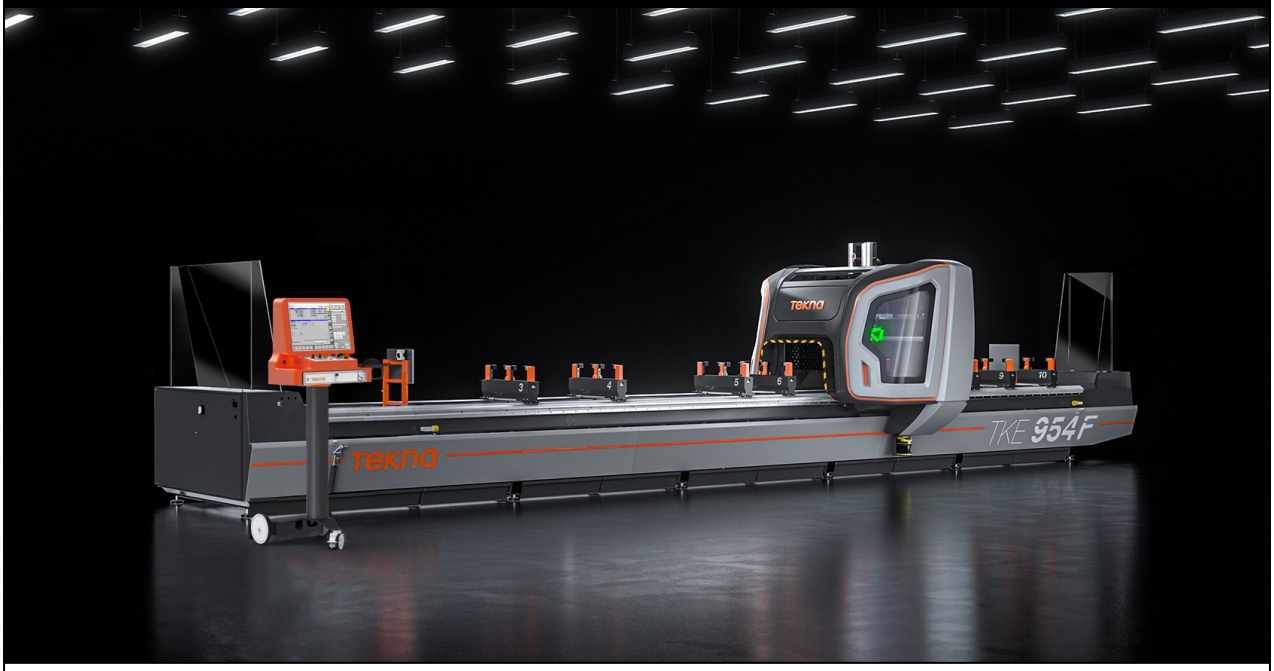
TKE 954F

PORTAL MACHINING CENTERS



Mobile gantry 4-axis CNC machining centre for drilling, milling and tapping, at any angle from -90° to +90°, on profiles and plates with a thickness up to 10 mm if made of aluminium, lightweight alloys and PVC and up to 2 mm if made of steel. The mobile part of the machine is composed of a dual drive gantry on a high precision rack. The local guarding cabin, made of technopolymer, has been designed to offer optimal functionality, accessibility, soundproofing and lighting while fulfilling safety and ergonomics requirements. Large glass windows allow the operator to monitor the machining operations being executed, as well as an easy access during cleaning and maintenance phases. The inside of the cabin ensures the conveying of swarf into the collection system available at the base. The 11 kW electrospindle allows performing machining operations, even heavy-duty ones, with optimal results in terms of speed and precision. The 13-place tool magazine, integrated into the mobile gantry, features two special positions, one for a blade with a maximum diameter of 250 mm and the other for the angle machining head. It features two different operating modes: the first, in single-area mode, allows machining entire bars having a maximum length of 7 or 9 m in a single work area; the second one, in double machining mode, allows machining several workpieces in the two different work areas. In the version with system for moving vices on H and P axes, it is possible to use the machine in dynamic tandem machining mode; this operating mode allows reducing machine downtimes to a minimum, since it allows the vices to be automatically set, in concurrent operation time, to the operation processes of the spindle in the opposite work area. TKE 954F is equipped with a laser scanner allowing the most precise and advanced control of the machine front access, raising safety and operator/machine interface standards. In double machining mode, the laser scanner allows programming asymmetrical work areas on X axis so that workpieces having different sizes can be machined by making use of 4 different set-ups, in order to increase the machine operation flexibility.

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Tool magazine

The toolholder magazine features 13 places, two of which are sized to house angle machining heads and disc milling cutters with a maximum diameter of 250 mm. The position of the magazine, installed on board the gantry, allows minimising the tool change times and optimising the work cycles. A solution has been designed to keep the housing of the toolholder cones separated from the machining area for a better magazine cleaning.



Full protection cabin

The local guarding cabin has been designed to offer optimal functionality, accessibility and lighting while fulfilling safety and ergonomics requirements. The innovative and refined design makes the machine unique and unmistakeable. Large glass windows allow the operator to monitor the machining operations being executed and a large access to internal areas is provided for cleaning and maintenance operations.



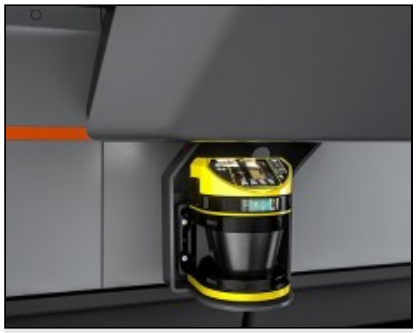
Electric head

The 11 kW electrospindle in S1 with encoder is suitable for particularly heavy-duty machining and rigid tapping. The HSK-63F toolholder and the water cooling with chiller unit allow performing even heavy-duty machining operations, typical of the industrial sector. The electrospindle movement along A axis performs 90° to +90° rotation, allowing to work on 3 sides of the profile with no need to reposition it.



Fanuc control

The FANUC control of 32i series is ideal to manage complex machines such as the TKE954F, which features high-speed multiple axes and paths for precision machining. The innovative hardware and software of the product offer optimal performance, precision and surface quality. The large amount of SRAM memory allows for more flexible configuration of optional functions and offers a larger space for customisation functions.



Laser scanner

The protection of the operator is entrusted to a monitoring system of the work area with laser scanner. This intelligent control system, together with the absence of fixed references at the centre of the machine, is specially useful in double operation mode, since it allows managing the two work areas with a variable set-up, even asymmetrical, programming them from time to time. The machine is safe and flexible at the same time, suited to different work requirements.

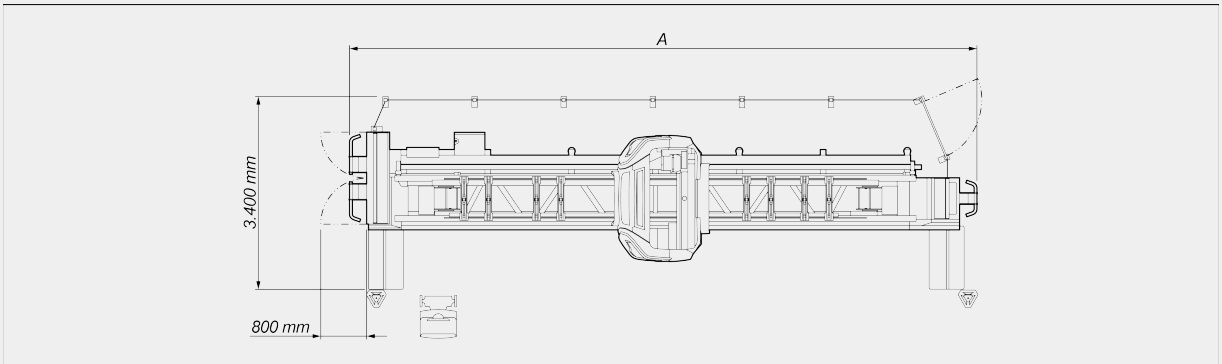
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TKE 954F / PORTAL MACHINING CENTERS

LAYOUT



	A
TKE 954F - 7m (mm)	11.000
TKE 954F - 9m (mm)	13.200

The overall dimensions may vary depending on the product configuration.

AXIS STROKES

X AXIS (longitudinal) (mm)	7.500 ; 9.700
Y AXIS (transversal) (mm)	1.230
Z AXIS (vertical) (mm)	620
A AXIS (head vertical-horizontal rotation)	-90° ÷ +90°

ELECTROSPINDLE

Maximum power in S6 (60%) (kW)	13,3
Maximum power in S1 (kW)	11
Maximum speed (rpm)	24.000
Toolholder cone	HSK – 63F

AUTOMATIC TOOL MAGAZINE

13-place automatic tool magazine on board the gantry	●
Number of angle units that can be loaded in the tool magazine	2
Maximum size of tools which can be loaded onto the magazine with – 2 side positions (mm)	Ø = 250 - L = 200
Presetting tool device: automatic on-machine tool length measurement	●

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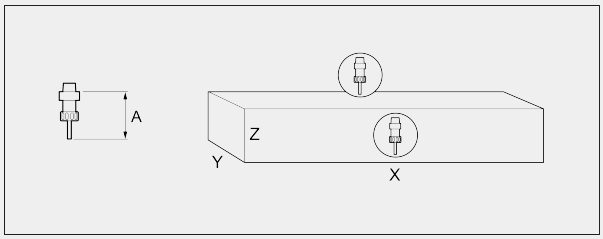
TAPPING CAPACITY (with Tap On Aluminium And Through Hole)

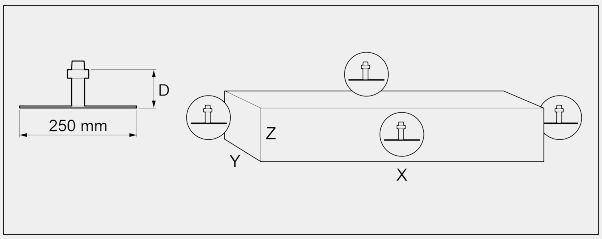
Rigid	M10
With optional axial tapping head	M14

WORKABLE SIDES

With direct tool (upper face, side faces)	3
With angle machining head (heads)	2
With blade tool Ø 250 mm (upper face, side faces, heads)	1 + 2 + 2
With angular head for blade, Ø 300 mm (top face, side faces)	1 + 2

WORK AREA





		A	X	Y(a)	Z
TKE 954-7	single mode	130	7.260	600	300
	symmetrical double mode	130	3.070	600	300
	asymmetrical double mode	130	1.320 ÷ 4.770	600	300
TKE 954-9	single mode	130	9.470	600	300
	symmetrical double mode	130	4.170	600	300
	asymmetrical double mode	130	1.820 ÷ 6.510	600	300

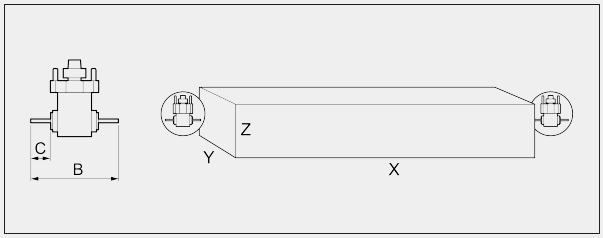
		D	X	Y(a)	Z
TKE 954-7	single mode	98	7.200	600	300
	symmetrical double mode	98	3.005	600	300
	asymmetrical double mode	98	1.255 ÷ 4.705	600	300
TKE 954-9	single mode	98	9.410	600	300
	symmetrical double mode	98	4.105	600	300
	asymmetrical double mode	98	1.755 ÷ 6.445	600	300

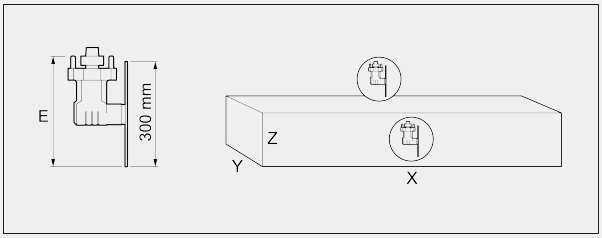
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WORK AREA





		B	C	X	Y(a)	Z
TKE 954-7	single mode	250	52,5	7.200	600	300
	symmetrical double mode	250	52,5	3.005	600	300
	asymmetrical double mode	250	52,5	1.255 ÷ 4.705	600	300
TKE 954-9	single mode	250	52,5	9.410	600	300
	symmetrical double mode	250	52,5	4.105	600	300
	asymmetrical double mode	250	52,5	1.755 ÷ 6.445	600	300

		E	X	Y(a)	Z
TKE 954-7	single mode	305	7.200	600	170
	symmetrical double mode	305	3.005	600	170
	asymmetrical double mode	305	1.255 ÷ 4.705	600	170
TKE 954-9	single mode	305	9.410	600	170
	symmetrical double mode	305	4.105	600	170
	asymmetrical double mode	305	1.755 ÷ 6.445	600	170

Dimensions in mm

a. Size clampable with vice without standard end pieces

The application of an angular unit with Ø300 blade reduces the working capacity in Z to 170 mm (partial cuts on the profile) or 110 mm (total cut of the profile)
The application of counterblocks for facade profiles reduces the working capacity in Z to 230 mm

Warning: The use of an angular unit with a Ø 300 mm blade, as well as the use of any tool that exceeds the size of 190 mm, involves the risk of collision during manual movements, even with the Z axis positioned at its maximum height.

FUNCTIONS

Static double operation (according to model)	●
Dynamic double operation (according to model)	●
Tapping with axial head	○

WORKPIECE LOCKING

Maximum number of vices per area	6
Standard number of pneumatic vices	8
Maximum number of pneumatic vices	12
Automatic vice positioning through X axis	●
Double horizontal hold-down devices on pneumatic vices for the machining of two parallel profiles	○

Included ● Available ○

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