electronically and programmable spindle moulders

class ti 145ep
class ti 120e
class tf 130e

		class ti 145ep	class ti 120e	class tf 130e
Spindle height CE Ø 30-35 (40-50)	mm	140 (160)	140 (180)	140 (180)
Max. diameter of the profiling tool	mm	250	250	250
Max. tool diameter retractable under worktable at 90°	mm	300	320	300
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (300)	300 (350)	300 (300)
Three-phase motors power starting from	kW/Hz	7 (8) / 50 (60)	5 (6) / 50 (60)	7 (8) / 50 (60)

Find the complete technical specification at page 48

Spindle Moulder Unit
sturdiness and versatility

Spindle Moulder Fence
set-up rapidity

Electronic Control
operating advantage

Machine Versions
specialisation and professionalism

More quality, more performance, more realiability.

manual spindle moulders class tf 130 class tf 130ps class ti 120

		class tf 130	class tf 130ps	class ti 120
Spindle height CE Ø 30-35 (40-50)	mm	140 (180)	140 (180)	140 (180)
Max. diameter of the profiling tool	mm	250	250	250
Max. tool diameter retractable under worktable at 90°	mm	300	320	320
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (350)	300 (350)	300 (350)
Three-phase motors power starting from	kW/Hz	7 (8) / 50 (60)	7 (8) / 50 (60)	5 (6) / 50 (60)

Find the complete technical specification at page 48

Spindle Moulder Unit
sturdiness and versatility

Spindle Moulder Fence
set-up rapidity

Machine Versions
specialisation and professionalism

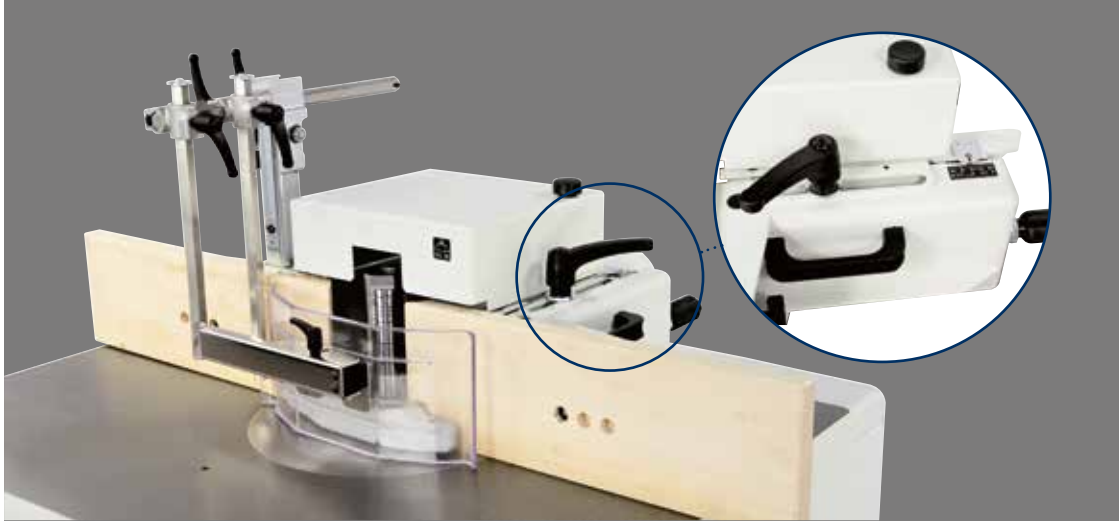
Precision and reliability in unbeatable time.

spindle moulders operating groups

easy to use

Adjustable spindle moulder fence

A handle provides the setting-up of the infeed table, which effects the removal and it is verified by an index on a metric scale.



sturdiness and versatility

Spindle moulder unit

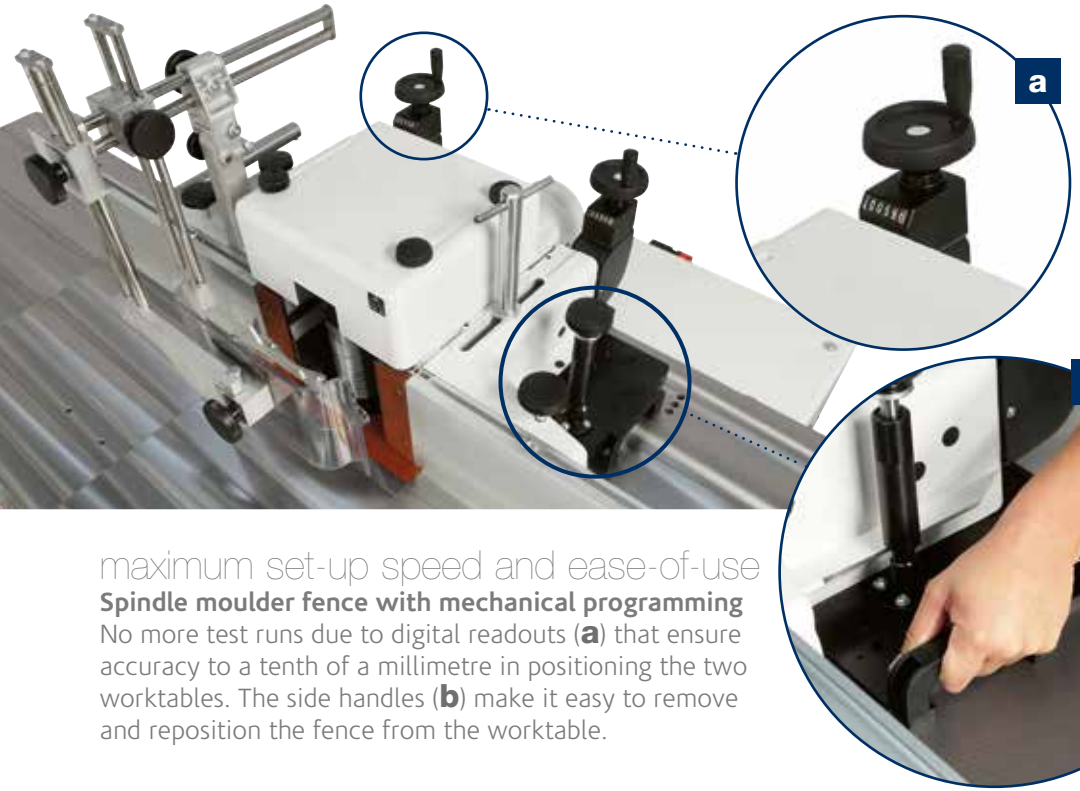
Maximum stability and rigidity in all working conditions, thanks to a **large spindle moulder column made entirely of cast iron.**

The spindle is surrounded by a cast iron "cup" to protect the internal mechanical components from shavings and sawdust. The 5 standard speed are ideal for any type of machining, from profiling to moulding and tenoning, with the possibility to fit large diameter tools.

the best support for the worktable

"Fast" sectional table

Provides support for the work-piece being machined close to the tool, allowing the adjustment with mounted tools and the very best quality finish when machining narrow pieces. The extremes in machinable material eliminate the disadvantages of a possible collision with the tool.



maximum set-up speed and ease-of-use

Spindle moulder fence with mechanical programming

No more test runs due to digital readouts (**a**) that ensure accuracy to a tenth of a millimetre in positioning the two worktables. The side handles (**b**) make it easy to remove and reposition the fence from the worktable.

immediately in the correct position

"Flex" system

A single, simple movement to retract and re-position instantly and accurately the position of the fence on the worktable with such precision that no other control is necessary.

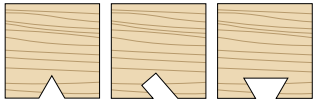
automatic and removable

"Flex One" spindle moulder fence

Automatic adjustment of the entire fence according to the tool diameter. User-friendly worktable exclusion system with precise re-positioning.

machining with tools on the spindle head carried out with the "Flex" fence

The spindle moulder fence can be located behind the tool allowing the performance of "head" routing using small diameter tools, typical of a router or portable electric tools; all this in compliance with CE safety regulations.



engraving,
grooving,
mortising

spindle moulders machine versions

class tf 130ps
with front sliding carriage
Designed to manage tenoning operations very easily.

"LL" versions with worktable side extensions
Ideal when machining very long work-pieces due to worktable extensions. The mobile front bar makes it easy to move large dimensioned work-pieces on the worktable, particularly for edge profiling.

Carriage on worktable for small tenoning operations
Ideal for tenoning of small work-pieces for the versions without sliding carriage. Mitre cuts with angles of ± 60° on the worktable are possible. Easy fitting and removal due to the fixing system on the worktable.

"TL PRO-10" versions
The manual feed carriage is a cast iron structure running on linear slideways with recirculating ball screws, guaranteeing maximum machining precision and stability.

The "PRO-10" tenoning table can be retracted easily and within a few seconds to leave the machine ready for profiling (**a**) or moulding (**b**) operations.

For a total safety and a higher flexibility, the machine is supplied, as standard feature, with a **special protection hood for moulding operations.**

"TL" versions
Top machining precision and stability due to the manual feed carriage with castiron structure mounted on axial bearings running on slideways made from hardened and ground bar.

spindle moulders electronic controls

Technical specification at page 49

the pleasure of controlling all machine functions from the control panel

"eye-S" console

The new control panel, with its attractive design, allows easy and intuitive machine programming, combining the 15" colour touch-screen display and the **Maestro** active user interface. Main functions:

- Connectivity among machines belonging to the same company network and **4.0 Industry** preset
- Sharing of work programs and tools database
- Activity monitoring and reporting on the use of the machine
- Self-diagnosis, tele-service and link to troubleshooting

"Ready"

The programming of the work becomes simple and effective with the electronic control with a 4" LCD colour screen. Working mode: manual, semi-automatic and automatic with a memory capacity of up to 99 programs.

Tool-hoder shaft lifting

Adjustment of the entire profiling fence

Tool-hoder shaft tilting

Tool-hoder shaft speed readout

For the most recurring machining jobs it is possible to set the dimensions of the required profile and select the tool to be used. The controls will create the dedicated program to carry out the require machining operations.

Powered operating unit movement with digital readouts.
Maximum precision and ease-of-use.

The **"eye-S"** control can manage the **inverter for the adjustment of spindle rotation speed.** *(option)*

spindle moulders main optional devices

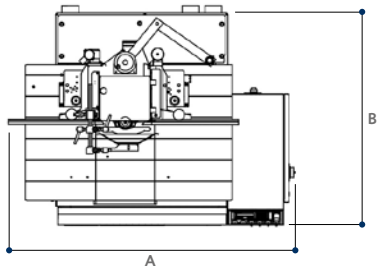
Feeder support device
High usable flexibility and no use of worktable space, due to the cross device on the column support of the overhead control panel.
The positions are made extremely simple using handwheels with digital readout.

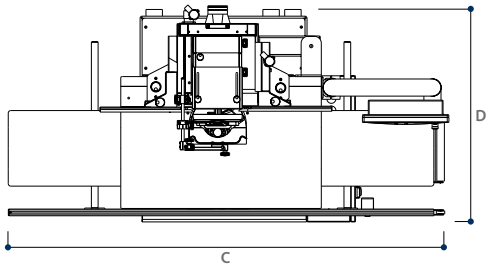
"T-Set" rapid tool locking
A simple compressed air gun allows the tools locking and unlocking when the interchangeable spindle is present.

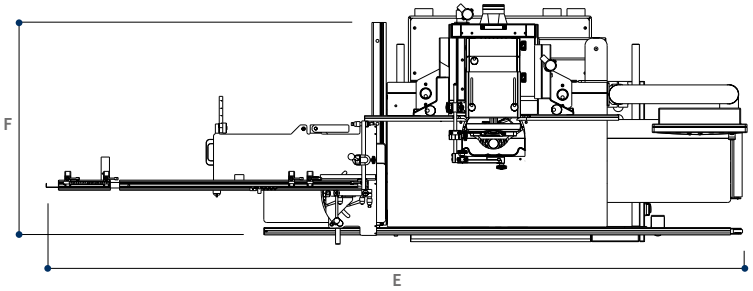
Advanced materials machining
PVC and other plastic materials. Nylon, polycarbonate and other synthetic materials.

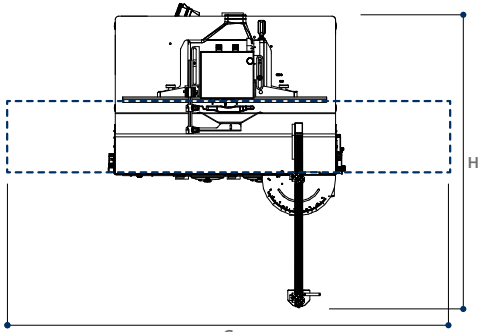
spindle moulders technical data

S Standard
O Option









TECHNICAL DATA		class ti 145ep	class ti 120e	class tf 130e	class tf 130	class tf 130ps	class ti 120
Worktable dimensions	mm	1200 x 780	1200 x 810	1200 x 730	1200 x 730	1080 x 760	1200 x 810
Spindle tilting		-45,5° ÷ +45,5°	-45° ÷ +45°	-	-	-	-45° ÷ +45°
Spindle height CE Ø 30-35 (40-50)	mm	140 (160)	140 (180)	140 (180)	140 (180)	140 (180)	140 (180)
Spindle speed (at 50 Hz)	rpm	3000/4500/6000/ 7000/10.000	3000/4500/6000/ 7000/10.000	3000/4500/6000/ 7000/10.000	3000/4500/6000/ 7000/10.000	3000/4500/6000/ 7000/10.000	3000/4500/6000/ 7000/10.000
Max. diameter of the profiling tool	mm	250	250	250	250	250	250
Max. tool diameter retractable under worktable at 90°	mm	300	320	300	300	320	320
Max. diameter of tenoning tool CE Ø 30-35 (40-50)	mm	300 (300)	300 (350)	300 (300)	300 (350)	300 (350)	300 (350)
other technical features							
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		-	S	-	-	-	S
Three-phase motors 7 kW (9,5 hp) 50 Hz - 8 kW (11 hp) 60 Hz		S	O	S	S	S	O
Three-phase motors 9 kW (12 hp) 50 Hz - 11 kW (15 hp) 60 Hz		O	O	O	O	-	O
Exhaust hood diameter:							
- at the base	mm	100	2 x 80	120	120	120	2 x 80
- on the spindle moulder fence	mm	120	120	120	120	120	120

OVERALL DIMENSIONS		class ti 145ep	class ti 120e	class tf 130e	class tf 130	class tf 130ps	class ti 120
A	mm	1655	1194	1324	1324	-	1194
B	mm	1265	1280	1010	1010	-	1280
C	mm	2600	2600	2600	2600	-	2600
D min.	mm	1265	1300	1340	1340	-	1300
D max.	mm	1575	1710	1650	1650	-	1710
E	mm	3780	3520	3551	3551	-	3197
F min.	mm	1375	1300	1340	1340	-	1300
F max.	mm	1685	1710	1650	1650	-	1710
G	mm	-	-	-	-	2080	-
H	mm	-	-	-	-	2740	-

MAIN OPTIONAL DEVICES	class ti 145ep	class ti 120e	class tf 130e	class tf 130	class tf 130ps	class ti 120
"Ready" version	S	-	-	-	-	-
"eye-S" version	S*	-	-	-	-	-
class tf 130ps with front sliding carriage	-	-	-	-	S	-
Mobile control panel	O	-	O	O	-	-
Powered operating unit movement with digital readouts	-	S	S	-	-	-
"Flex" spindle moulder fence	O	O	O	O	O	-
"Flex One" spindle moulder fence	O	-	-	-	-	-
Inverter for the rotation speed adjustment from 900 to 10.000 rpm	O	-	-	-	-	-
Feeder support device with manual vertical and horizontal movements	O	-	O	O	-	-
Spindle moulder fence with mechanical programming	S	S	S	O	O	O
Aluminium tabled instead of the wooden ones for profiling fence	O	O	O	O	O	O
Interchangeable spindle	S	O	O	O	O	O
Spindle for router bits	O	O	O	O	O	O
"T-Set" rapid tool locking	O	-	O	O	O	-
"Fast" sectional table with manual adjustment	S	-	S	O	-	-
"LL" version with 2 cast-iron profiling extensions	O	O	O	O	-	O
"TL" version for tenoning and profiling	O	O	O	O	-	O
"TL PRO-10" version for tenoning and profiling	O	-	O	O	-	-
Tenoning table and tenoning hood	-	-	-	-	S	-
Carriage on the fixed table for small tenoning operations	O	O	O	O	-	O
Machine configuration for advanced materials machining	O	-	O	O	O	-

** Standard for "eye-S" version*