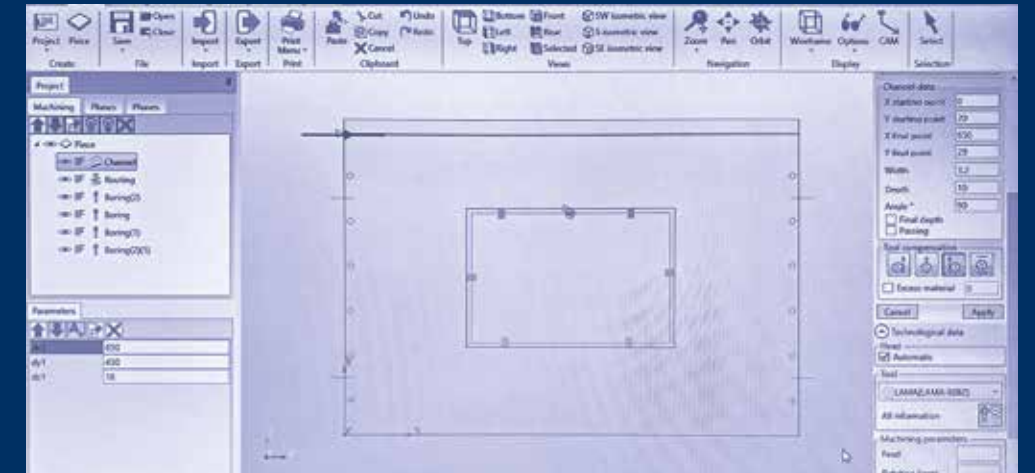
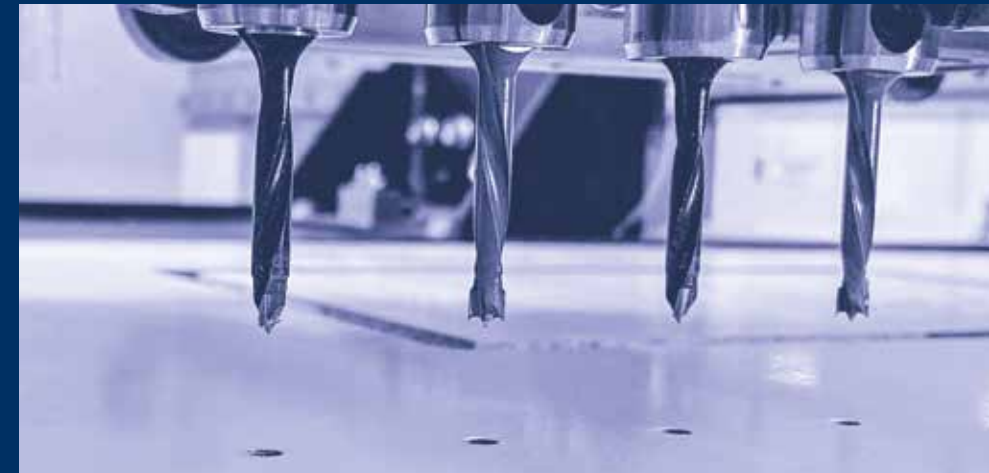




REV. N. 04 - 12.2025 - MIC STUDIO



SCM GROUP SPA
via Casale 450 - 47826 Villa Verucchio, Rimini - Italy
tel. +39 0541 674111 - fax +39 0541 674274
scm@scmgroup.com
www.scmwood.com



00L0590733A

All “Made in SCM Italy”

From casting iron to finished product.

Come see our production plants and touch the quality of SCM machines;
you will be our guest.



Drilling and routing machines for the advanced joinery.

SCM's objective is to guarantee customers high quality technologies which meet their requirements in such a way as to make SCM the partner for any needs.

startech *range*

For all drilling and routing requirements.

automatic drilling-routing
machines

startech cn plus
page 4



drilling
machines

automatic

startech cn v
page 5



manual

startech 27
page 12



startech 21
page 13



automatic routing machines

startech cn k
page 20



The motors powers in this catalogue are expressed in S6, except where otherwise specified.
In this catalogue, machines are shown in CE configuration and with options.

We reserve the right to modify technical specifications without prior notice, provided that such modifications do not affect safety as per CE norms.

automatic
drilling-routing
machine
startech cn plus



automatic
drilling
machine
startech cn v

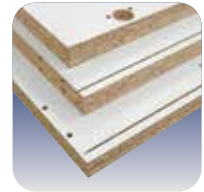


		startech cn plus	startech cn v
Max. panel dimensions X-Y-Z	mm	3050 x 900 x 60	3000 x 900 x 50
Min. panel dimensions X-Y-Z	mm	200 x 80 x 10	300 x 90 x 10
X-Y-Z axes max. speed	m/min	40/40/10	20
Vertical spindles	n.	8 (F14) - 13 (F23)	7 (F11) - 8 (F14)
Horizontal spindles	n.	6 (F14) - 10 (F23)	4 (F11) - 6 (F14)
Spindles rotation speed	rpm	4200	4460

Find the complete technical specification at page 9



Drilling from
the top
perfect finish



Elements Production
versatility



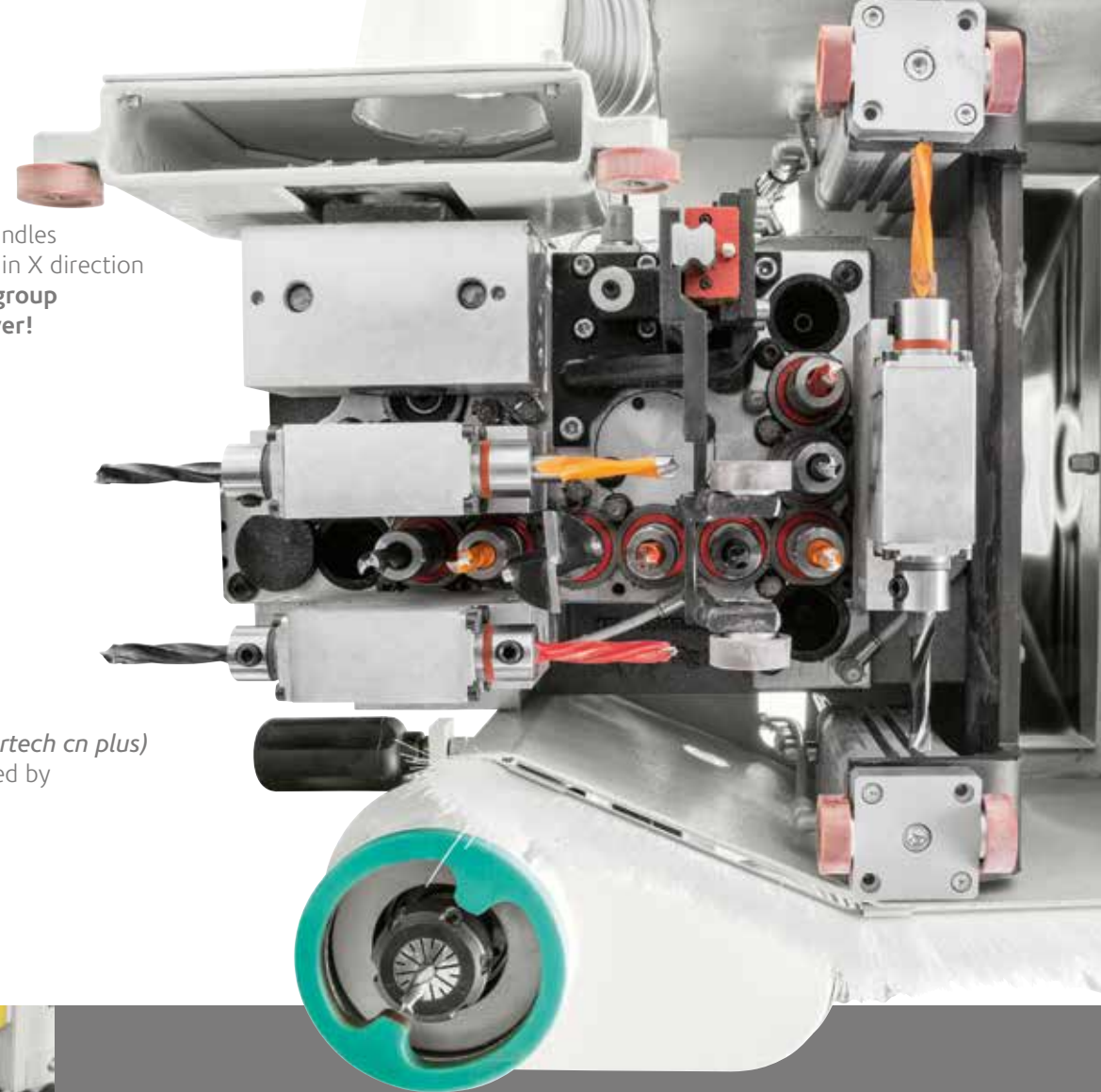
Maestro Software
easy and intuitive

Compact and performing numerical control machines for woodworking shops and craftsmen.

startech cn plus startech cn v operating groups

effective Drilling head

With 14 independent spindles (8 vertical spindles and 6 horizontal spindles), integrated blade in X direction and possibility to add an **optional routing group** (*startech cn plus*) with 5,5 kW motor power!



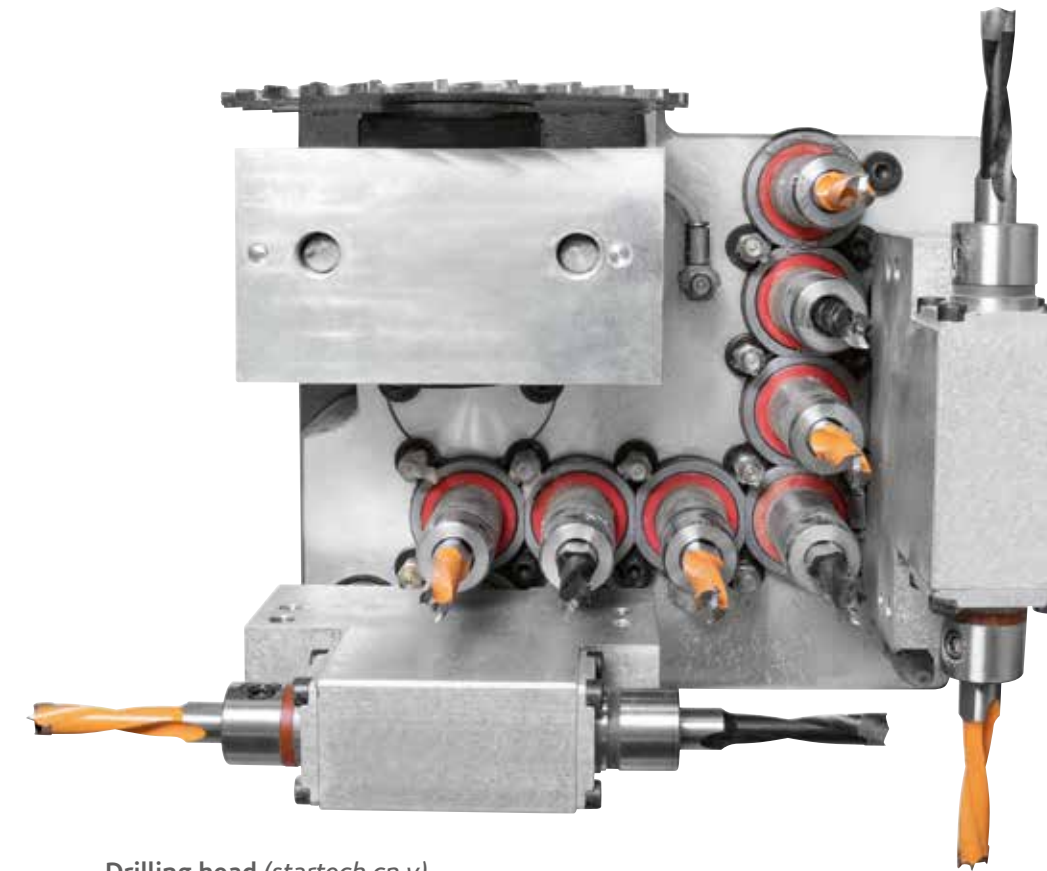
easy panels movement

Automatic side-alignment device (*startech cn plus*) with pneumatic positioning and managed by the drilling-routing program.



guaranteed reliability
Mobile clamp with floating opening
Optimal piece stability and high working quality.

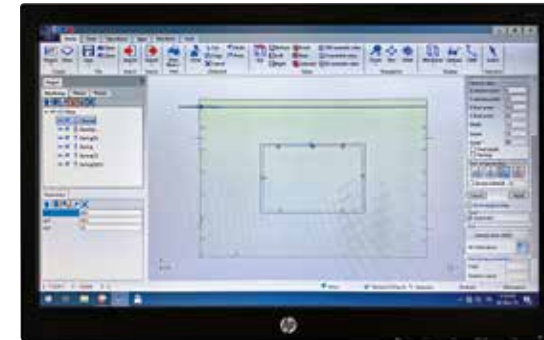
Drilling from the Top
The drilling head positioned above the panel allows an accurate machining which can be verified in the cabinet assembly phase: the system uses the outside of the panel (in sight) as a reference and thus **any differences in thickness are always on the inside of the cabinet (non in sight)**. Furthermore, the positioning of the drilling head upper the working chips and dust grants a better cleaning and a reduced maintenance.



Drilling head (*startech cn v*)
With 11 independent spindles and integrated blade in X direction.

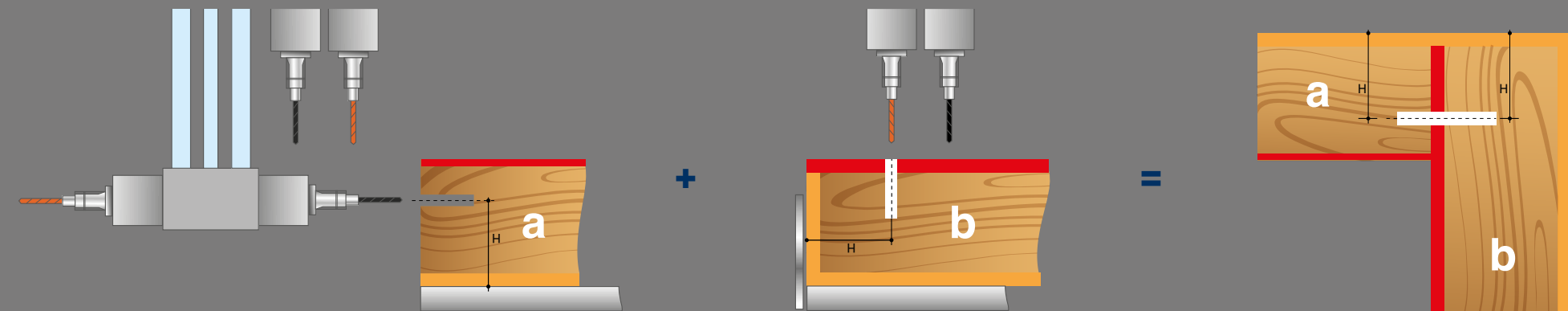
easy and intuitive PC with integrated software (*startech cn plus*)

The **SCM "Maestro cnc"** software allows to create projects and geometrical drawings to be automatically converted in drilling-routing programs for the machine.



Numerical control (*startech cn v*)

NC 10" colour touch-screen display and self-diagnosis and signalling system of errors or damages. Head tooling and machining cycle programming without using any mouse or keyboard and with automatic optimization.

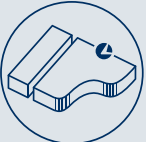


startech cn plus
startech cn v
main optional
devices

Maestro
cnc

Expand your creativity

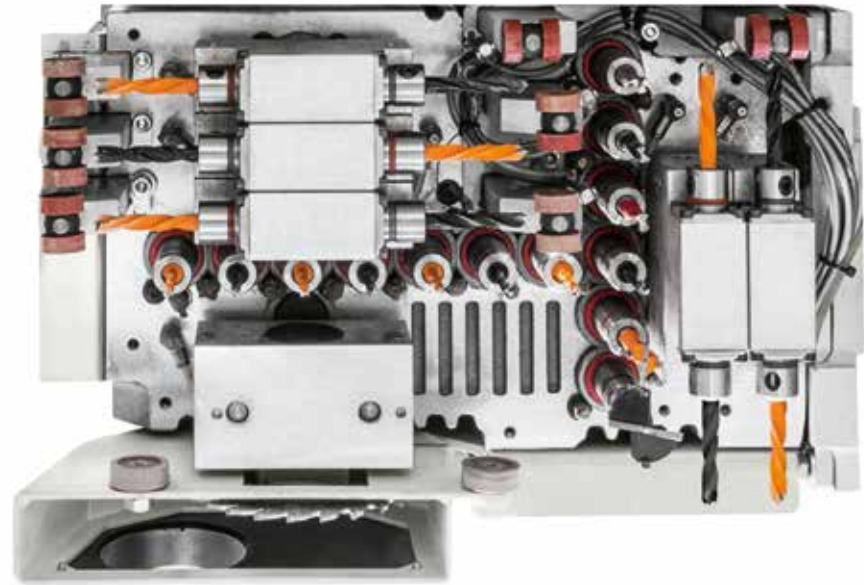




Possibility to import and export the drilling programs, even when created with a CAD/CAM software in the office, through USB key (post processor not included).
(standard on startech cn plus)



Automatic centralized lubrication
managed by the control.



F23 drilling head

High performance and rapid set-up thanks to the drilling unit with 23 independent spindles (13 vertical spindles and 10 horizontal spindles, 6X + 4Y) with integrated blade in X direction.
The possibility to equip the head with several bits of different diameters, guarantees maximum flexibility of use and reduced maintenance.
(startech cn plus)

Removable side supports
to adjust and support long work-pieces.
(startech cn plus)



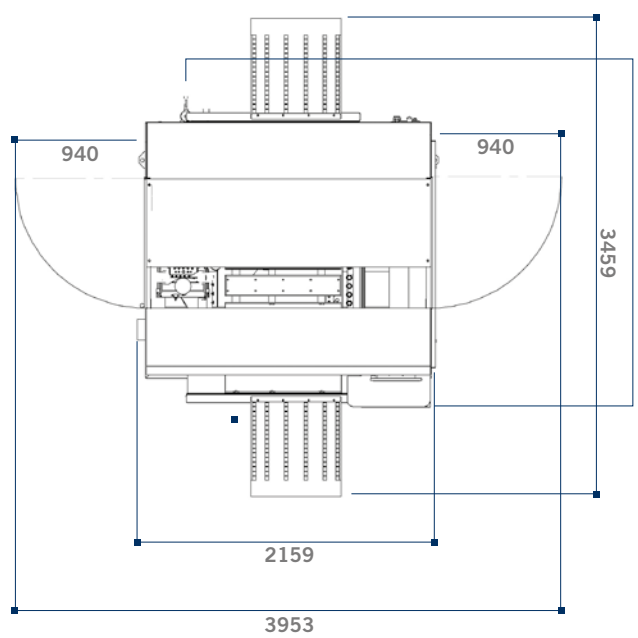
Barcode reader

With a simple "click" of the barcode reader, it is very rapid and simple to recall drilling program, correctly stored in the machine control.

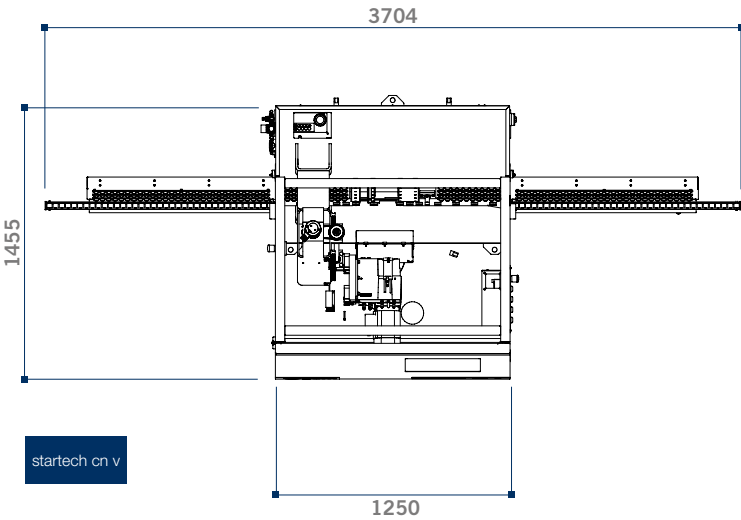


startech cn plus
startech cn v
technical
data

startech cn plus



startech cn v



TECHNICAL DATA

		startech cn plus	startech cn v
Min. ÷ max. panel length	mm	200 ÷ 3050	300 ÷ 3000
Min. ÷ max. panel width	mm	80 ÷ 900	90 ÷ 900
Min. ÷ max. panel thickness	mm	10 ÷ 60	10 ÷ 50
Max. X-axis speed	m/min	40	20
Max. Y-axis speed	m/min	40	20
drilling head			
Vertical spindles	n.	8 (F14) - 13 (F23)	7 (F11) - 8 (F14)
Horizontal spindles	n.	6 (F14) - 10 (F23)	4 (F11) - 6 (F14)
Motor power	kW (hp)	2,2 (3)	2,2 (3)
Spindles rotation speed	rpm	4200	4460
Fixed integrated disc cutter	direction	X	X
Max. diameter disc cutter	mm	125	125
Disc cutter rotation speed	rpm	5500	5700
electrospindle			
Motor power	kW (hp)	5,5 (6)	-
Min. ÷ max. speed	rpm	1000 ÷ 18000	-
Tool changer		manual	-
Max. tool diameter	mm	20	-
other technical features			
Compressed air consumption	Nl/min	50	90
Extraction air consumption	m³/h	1900+540+1200 (+540 for R version)	820
Exhaust air speed	m/sec	30	20
Installed motor power (minimum)	KVA	15,2 (20,7 for R version)	4,5
Exhaust hood diameter	mm	150+120+80 (+80 for R version)	120

startech cn plus
startech cn v
equipment

S Standard
O Option

STARTECH CN PLUS				
EQUIPMENT	startech cn p F14L	startech cn pr F14L	startech cn p F23L	startech cn pr F23L
Drilling head F14L	S	S	-	-
Drilling head F23L	-	-	S	S
"TP" detecting system for calibrating of opposite panel side reference	S	S	S	S
Panel width measurement device	S	S	S	S
Device to increase the drilling pressure along Z axis	S	S	S	S
5,5kW electrospindle	-	S	-	S
Bakelite work table with low friction	S	S	S	S
Automatic central side-alignment device with pneumatic positioning	S	S	S	S
Centralised lubrication	S	S	S	S
Pc-Office	S	S	S	S
Industria 4.0	S	S	S	S
TELESOLVE teleservice via internet	S	S	S	S
CAD/CAM programs import	S	S	S	S
Hardware key with "Maestro cnc" programming software	S	S	S	S
Voltage other than 380/400V 50/60Hz	O	O	O	O
Electric cabinet with air conditioning device	O	O	O	O
Uninterrupted power supply unit (UPS)	O	O	O	O
Pressure regulator for exhaust hood	-	O	-	O
Automatic lubrication	O	O	O	O
Internal machine lightening	O	O	O	O
Side supports for the machining of long workpieces	O	O	O	O
Additional hardware key for "Maestro cnc"	O	O	O	O
Wireless barcode reader	O	O	O	O

STARTECH CN V		
EQUIPMENT	startech cn v F11L	startech cn v F14L
F11L drilling head	S	-
F14L drilling unit	-	S
Work table	S	S
Clamp for the panel movement	S	S
Electrical cabinet cooling fans	O	O
Detecting system for calibrating of opposite panel side reference	O	O
Device to increase the drilling pressure along Z axis	O	S
Automatic lubrication	O	O
Internal machine lightening	O	O
"Maestro CNC" software + preparation for connection with MES	O	O
Keyboard type: Qwerty	O	O
Wireless barcode reader	O	O

manual
drilling
machines
startech 27
startech 21



		startech 27	startech 21
Spindles	n.	27	21
Worktable dimensions	mm	1096 x 407	905 x 372
Max. panel width under the "beam" structure	mm	1025	833
Max. tool diameter	mm	40	40
Min. ÷ max. panel thickness	mm	10 ÷ 85	10 ÷ 85
Spindles rotation speed	rpm	2800	2800

Find the complete technical specification at page 17



Drilling Head
perfect drilling



Cleaning System
highly effective



Hinges Units
high-tech accessories

Excellence in manual drilling.

startech 27 startech 21 operating groups

perfect drilling Drilling head

It is made from single-piece aluminium casting, to guarantee absence of vibrations. The drilling group runs on two rectified cylindrical guides which guarantee stability and accuracy. The dust extraction system is incredibly efficient.



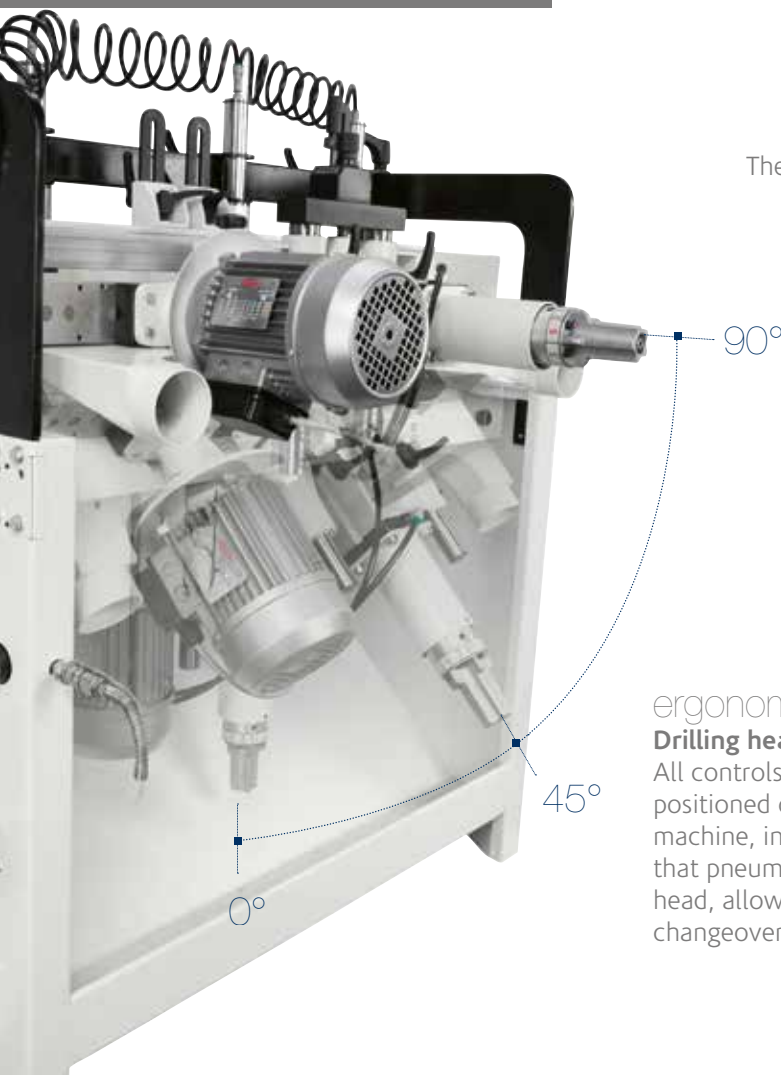
The machine is equipped with a mechanical revolver with 5 different drilling depth adjustments.



rapid set-up
Spindles with
quick-release fittings
Bits replaced quickly and easily.



ergonomic
Drilling head movement
All controls are ergonomically positioned on the front of the machine, including the switch that pneumatically tilt the drilling head, allowing an immediate changeover between operations.

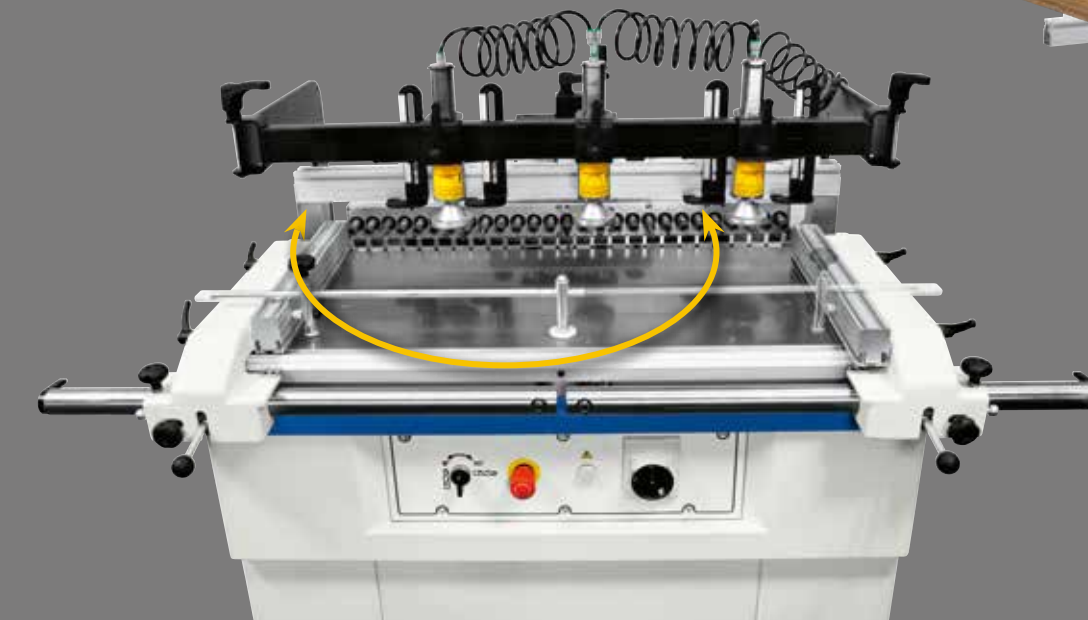


90°

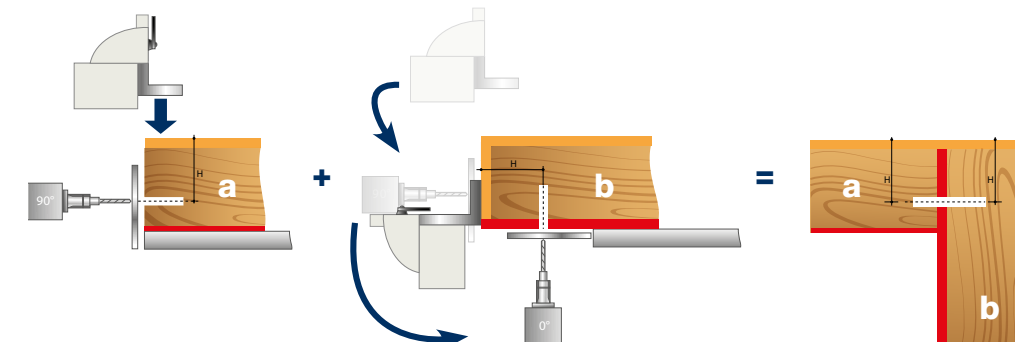
45°

0°

fast and precise positioning
Mechanical gauge
It guarantees fast and precise positioning of the lateral fences.



versatile, with many
useful options, intelligent
3000 mm guide
For a perfect drilling even of large panels
the machines are equipped with a 3000 mm length
lateral guide, millimetered and with reversible stops,
quickly installable/removed.



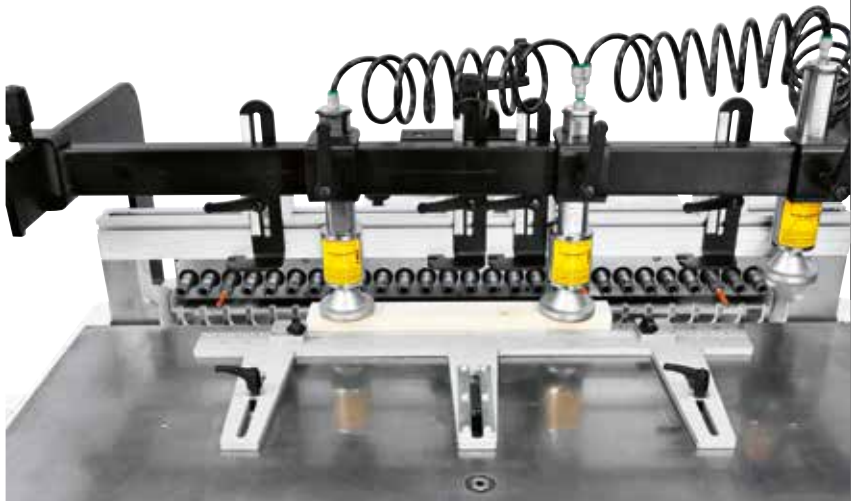
effective
"Invisible" imperfections
The drilling concept of Startech machines allows to obtain an important advantage which can be verified in the cabinet assembly phase: the system uses the outside of the panel (in sight) as a reference and thus **any differences in thickness are always on the inside of the cabinet (non in sight).**

Cast iron guides
with the nonius
decimal scale and
micrometric guides
travel.

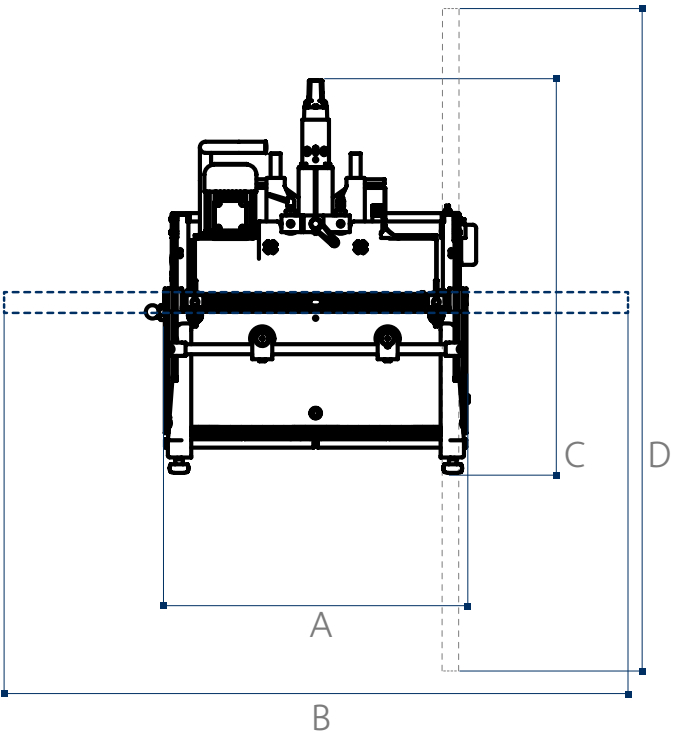


startech 27
startech 21
main optional
devices

Device for working narrow work-pieces
Easy-to-use.



startech 27
startech 21
technical
data



OVERALL DIMENSIONS		startech 27	startech 21
A	mm	1500	1000
B	mm	3000	3000
C	mm	1260	1150
D	mm	3000	3000

Hinges units

For increased versatility, the quick change chucks can be fitted with various types of bits for different operations, like drilling hinges locations.



Guide for horizontal drilling at 45°
Simple and effective.

TECHNICAL DATA		startech 27	startech 21
Worktable dimensions	mm	1096 x 407	905 x 372
Worktable height	mm	900	900
Spindles	n.	27	21
Spindles rotation speed (at 50 Hz)	rpm	2800	2800
Distance between spindles	mm	32	32
Maximum drilling inter-axis	mm	832	640
Maximum drilling head stroke	mm	70	70
Maximum horizontal drilling height	mm	60	60
Max. panel width under the "beam" structure	mm	1025	833
Min. ÷ max. panel thickness	mm	10 ÷ 85	10 ÷ 85
Max. tool diameter	mm	40	40
other technical features			
Three-phase motors 1,8 kW (2,5 hp) 50 Hz - 2,2 kW (3 hp) 60 Hz		S	S
Pneumatic system operating pressure	bar	6	6
Compressed air consumption	NI/cycle	3,5	3,5
Exhaust hood diameter:			
- at the base	mm	120	80
- on the drilling head	mm	2 x 80	2 x 80

startech 27
startech 21
equipment

S Standard
O Option

STARTECH 27	
EQUIPMENT	startech 27
Boring unit with n. 27 spindles preset for quick change adaptors and n. 9 drilling bit-holder bushes diameter 10 mm	S
Dust extraction system integrated in the boring head	S
Boring unit locking at 45°	S
Horizontal/vertical automatic positioning of boring unit	S
Height-adjustment of the boring unit by means of hand wheel and mechanical digital readout	S
Boring depth adjustment from 0 to 60 mm by means of 5 positions revolver	S
Down stroke adjustment of the boring speed	S
Adjustable side cast-iron guides unit complete with metrical reading rule	S
Lateral fence (L=3000mm) with retractable stops for large dimensioned panels	S
Compass device	S
No.2 upper pressure cylinders for the workpieces hold-down	S
Servo-assisted boring unit down stroke speed adjustment	O
No. 9 drilling bit-holder bushes 10 mm diameter	O
Fence for horizontal boring at 45°	O
Supplementary top pressure cylinder (Q.ty 1)	O
Device for working narrow workpieces	O
Group for the machining of hinges for cabinet doors	O
Single-phase version 50/60 hz	O

STARTECH 21	
EQUIPMENT	startech 21
Boring unit with n. 21 spindles preset for quick change adaptors and n. 5 drilling bit-holder bushes diameter 10 mm	S
Dust extraction system integrated in the boring head	S
Boring unit locking at 45°	S
Manual adjustment of the horizontal and vertical boring unit position	S
Height-adjustment of the boring unit by means of hand wheel and mechanical digital readout	S
Boring depth adjustment from 0 to 60 mm by means of 5 positions revolver	S
Down stroke adjustment of the boring speed	S
Adjustable side cast-iron guides unit complete with metrical reading rule	S
Lateral fence (L=3000mm) with retractable stops for large dimensioned panels	S
Compass device	S
No.2 upper pressure cylinders for the workpieces hold-down	S
Horizontal/vertical automatic positioning of boring unit	O
Servo-assisted boring unit down stroke speed adjustment	O
No. 5 drilling bit-holder bushes 10 mm diameter	O
No. 11 drilling bit-holder bushes 10 mm diameter	O
Fence for horizontal boring at 45°	O
No. 1 upper pneumatic clamping cylinder for the holddown and n. 2 supplementary rear stops	O
Group for the machining of hinges for cabinet doors	O
Single-phase version 50/60 hz	O

automatic
routing
machine
startech cn k



startech cn k		
Worktable dimensions	mm	1170 x 760
X-Y-Z axes max. speed	m/min	5-5-2,5
Max. tool diameter	mm	60
Max. electrospindle speed	rpm	24000
Find the complete technical specification at page 26		



Integral Protection Cabin
maximum safety and cleanliness



2,4 kW Electrospindle
unique in its category



4th Interpolating Axis
no limit to creativity

Compact 3-axis machining centre ideal for all types of milling, decorations, engraving, signboard creation and 3D models prototyping.

startech cn k operating groups

unique in its category

Routing unit

The machine has a powerful 2,4 kW electros spindle with R25 tool-chuck generally used on higher-segment machines!

NC movement with 3 interpolating axes. It is possible to use tools with max. 60 mm diameter and max. 16 mm tool holder.



maximum safety and
cleanliness

Protection cabin

The integral cabin, with internal LED lighting, ensures protection for the operator and keeps the surrounding environment clean.



Maximum compactness

Aluminium worktable with dimensions: 1170x760 mm. "T" grooves dimensions: 13,5x7 mm opening 8,5 mm for M8 screw or nut passage.



startech cn k software

Machine control

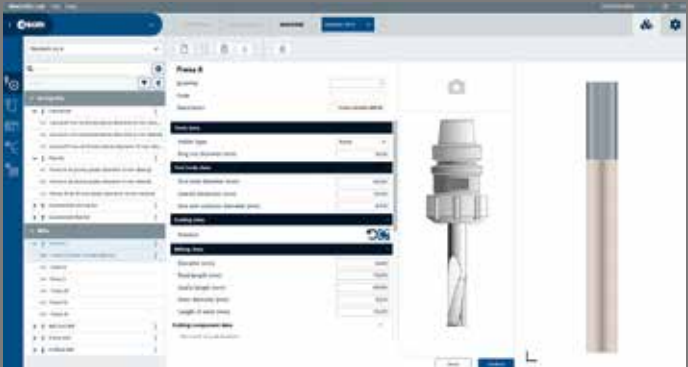
"Open" virtual human-machine interface capable of importing G-code from any type of CAD/CAM software (it is advisable to verify with the software supplier that the CAD/CAM provides a G-code that can be read from the interface).



Maestro LAB 2D

CAD/CAM software developed by SCM for two-dimensional programming. Available as an option for intuitive management of 2D machining operations.

Simple and integrated programming.



startech cn k

main optional devices

**4th interpolating axis
(lathe processing) on the worktable**
No limit to creativity.



Mobile push-button control panel
Management of the machine's main functions via a handheld controller - including spindle speed and axis movement - for precise supervision and greater operational flexibility during machining.
Maximum ergonomics and focus.



Tool height detection sensor
Total reliability.



**Kit of 5 pneumatic suction cups
positionable on the worktable**
Ease-of-use and accuracy.

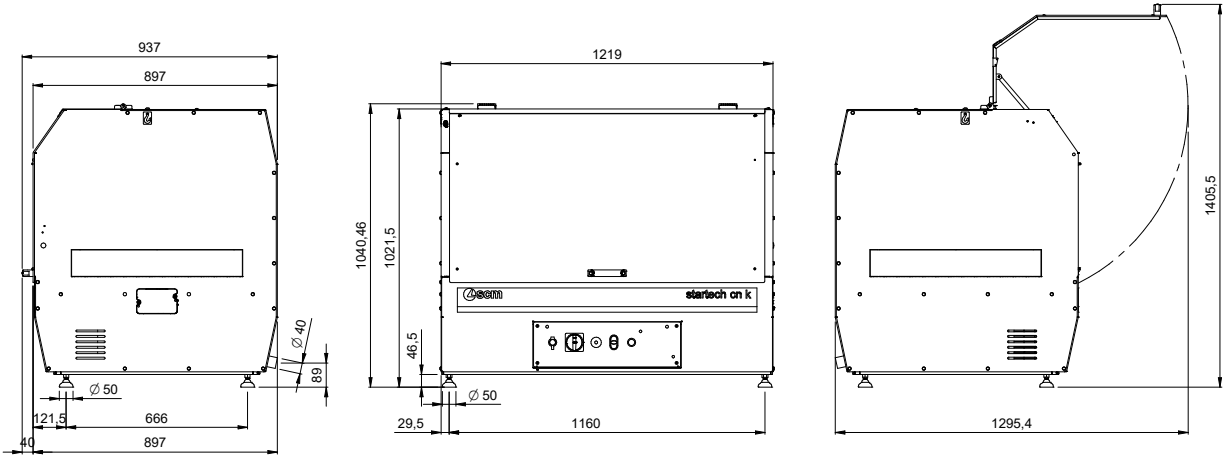


**Support base with wheels and
adjustable feet (500 mm height)**
Easy machine handling.



Kit of vacuum pump + 5 pneumatic suction cups
Delivering a volume flow rate of 8 m³/h, the vacuum pump speeds up and improves vacuum generation, providing greater workpiece stability.
Enhanced grip and precision.

startech cn k
technical
data



startech cn k
equipment

S Standard
O Option

TECHNICAL DATA	startech cn k	
Worktable dimensions	mm	1170 x 760
X-Y-Z stokes	mm	915-610-176
Z-axis work-piece clearance	mm	160
X-Y-Z axes max. speed	m/min	5-5-2,5
Max. tool diameter	mm	60
Max. tool-holder diameter	mm	16
Max. electrospindle speed	rpm	24000
Electrospindle motor power	kW	2,4 (S6)
other technical features		
Power supply	V (Hz)	230 (50/60) Single-phase
Rated current	A	16
Extraction air consumption	m³/h	115
Exhaust air speed	m/sec	20
Exhaust hood diameter	mm	40

ÉQUIPMENT	startech cn k
230V 50/60Hz single-phase power supply	S
Cabina integrale di protezione con sportello anteriore in plexiglass	S
NC movement with 3 interpolating axes	S
Ethernet port for user PC connection (PC not included)	S
2,4 kW S6 Hiteco electrospindle (18000/24000 rpm) with R25 attachment	S
Work table avec "T" grooves (screw passage or M8 nut)	S
Internal LED lightening	S
HICAM2 virtual human-machine interface	S
Mobile push-button control	O
Maestro LAB 2D	O
Machine support base with wheels and adjustable feet (500 mm height)	O
Kit of 5 pneumatic suction cups that can be positioned on the worktable	O
Kit of vacuum pump + 5 pneumatic suction cups	O
Tool height detection sensor	O
4th interpolating axis (lathe processing) that can be positioned on the work table	O
Side extensions	O



SERVICE AND MAINTENANCE



TRAINING SERVICE



SPARE PARTS



DIGITAL SERVICES



WE'LL GO THE EXTRA MILE FOR YOU

CONTACT

SCM SERVICE

via Emilia 77 - 47921 Rimini - Italy
tel. +39 0541 700100
scmservice@scmgroup.com
www.scmwood.com

SCM SPAREPARTS

Via Emilia, 61 - 47921 - Rimini - Italy
tel. +39 0541 674111
spareparts@scmgroup.com
www.scmwood.com



My Scm

SCM OFFERS A FULL RANGE OF **HIGHLY SPECIALISED SERVICES** WITH A QUALITY AND RELIABILITY THAT STEM FROM 70 YEARS OF EXPERIENCE IN THE INDUSTRY.

From installation and production start-up to services and maintenance.
From training to the supply of specific original spare parts: **we provide solutions designed around you!**



SERVICE AND MAINTENANCE

- Remote support
- Scheduled maintenance contracts
- Warranty extension



TRAINING SERVICE

- Courses for machine operators
- Software and programming courses
- Training in production start-up



SPARE PARTS

- Recommended spare parts list
- E-shop
- Interactive spare-parts catalogues
- Repairs on electronic parts, glue tanks and electro-spindles



DIGITAL SERVICES

- Maestro Connect - IoT platform to be constantly connected with your machines
- Smartech - assistance with augmented reality
- My Scm portal - opening of service ticket and single point of access to the apps and Services tools

SOLUTIONS AND SERVICES ALWAYS CONNECTED FOR YOU

70+ years history

3 main production sites in Italy

300.000 square metres of production space

20.000 machines manufactured per year

90% export

20+ foreign branches

400 agents and dealers

500 support technicians

500 registered patents

SCM GROUP, THE MOST ADVANCED SKILLS AND KNOW-HOW IN THE FIELDS OF MACHINERY AND INDUSTRIAL COMPONENTS OVER THE LAST 70 YEARS

INDUSTRIAL MACHINERY

Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.



Woodworking
technology



Composite, aluminium,
plastic, glass, stone,
metal technology



Technologies for the
profiles processing of
aluminium, PVC and
light alloy



Automated systems
for industry

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems, for those of third-parties and for the mechanical industry.



Electrospindles
and technological
components



Electrical
panels



Metalworking
and mechanical
machining



Iron castings

SCM, A STRATEGIC PARTNER, BY YOUR SIDE AT EACH STAGE OF YOUR BUSINESS PROCESS

SCM has always stood alongside companies in the woodworking sector, with **technological solutions and services which are constantly connected to maximise the machine's efficiency, improve product quality and reduce operating costs.**



is more