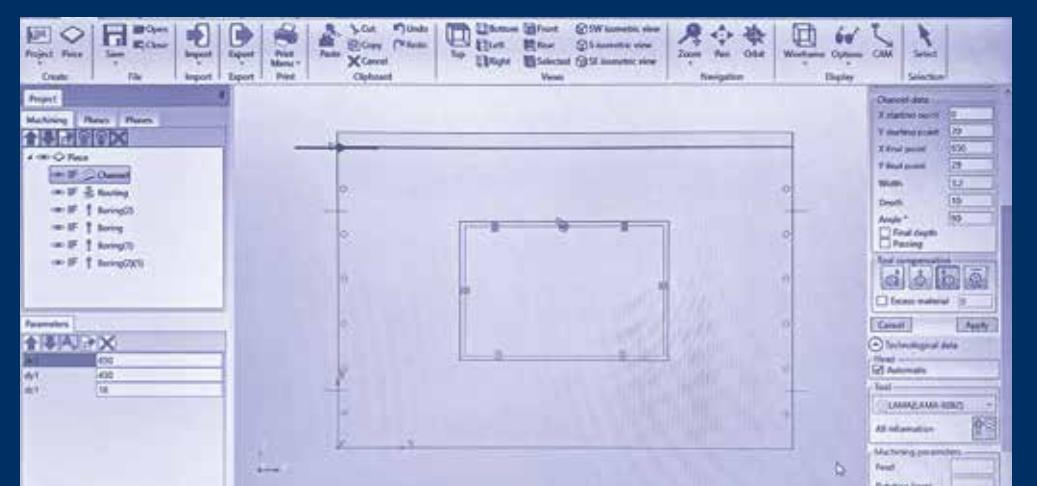
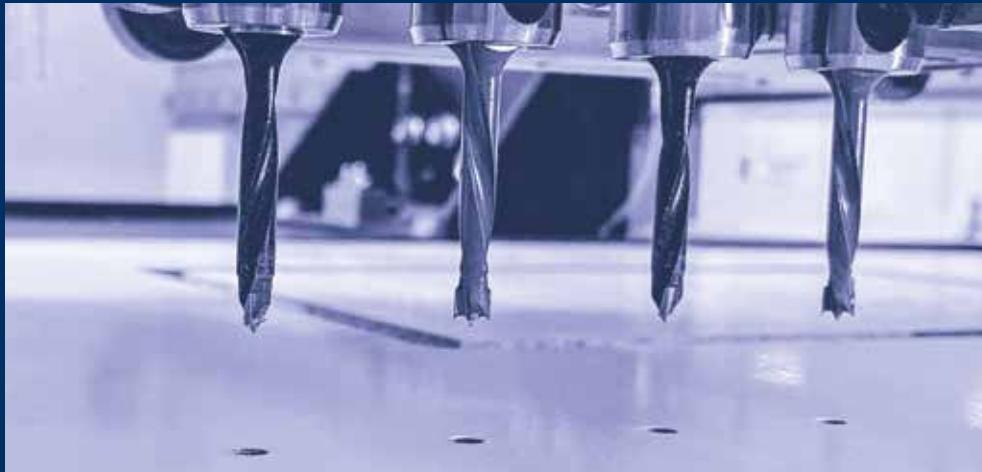


startech range

drilling and routing machines for the advanced joinery



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.

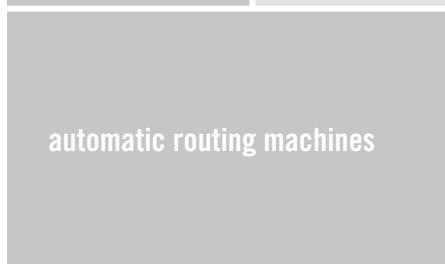
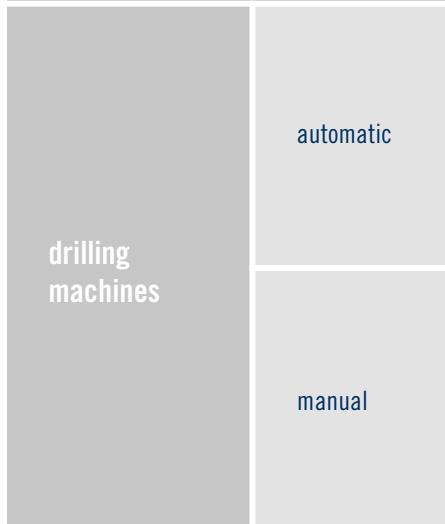


Drilling and routing machines for the advanced joinery.

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.



startech cn plus
page 4



startech cn v
page 5



startech 27
page 10



startech cn k
page 16



startech 21
page 11

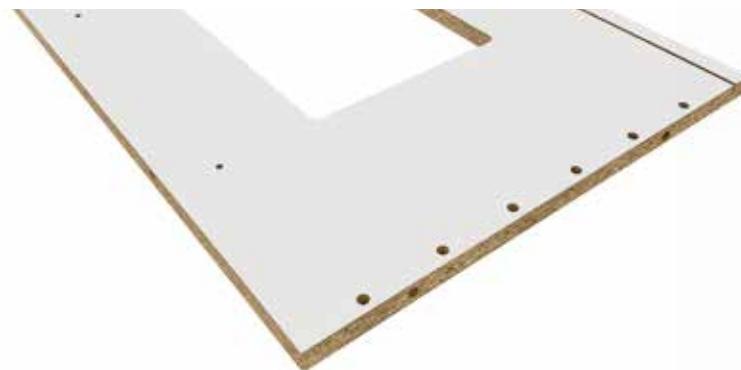


The motors powers in this catalogue are expressed in S6, except where otherwise specified.

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



Max. panel dimensions X-Y-Z

startech cn plus

startech cn v

mm 3050 x 900 x 60

mm 3000 x 900 x 50

Min. panel dimensions X-Y-Z

mm 200 x 80 x 10

mm 300 x 90 x 10

X-Y-Z axes max. speed

m/min 40/40/10

20

Vertical spindles

n. 8 (F14) - 13 (F23)

n. 7 (F11) - 8 (F14)

Horizontal spindles

n. 6 (F14) - 10 (F23)

n. 4 (F11) - 6 (F14)

Spindles rotation speed

rpm 4200

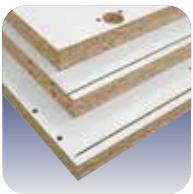
4460

Find the complete technical specification at page 9

automatic drilling machine startech cn v



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

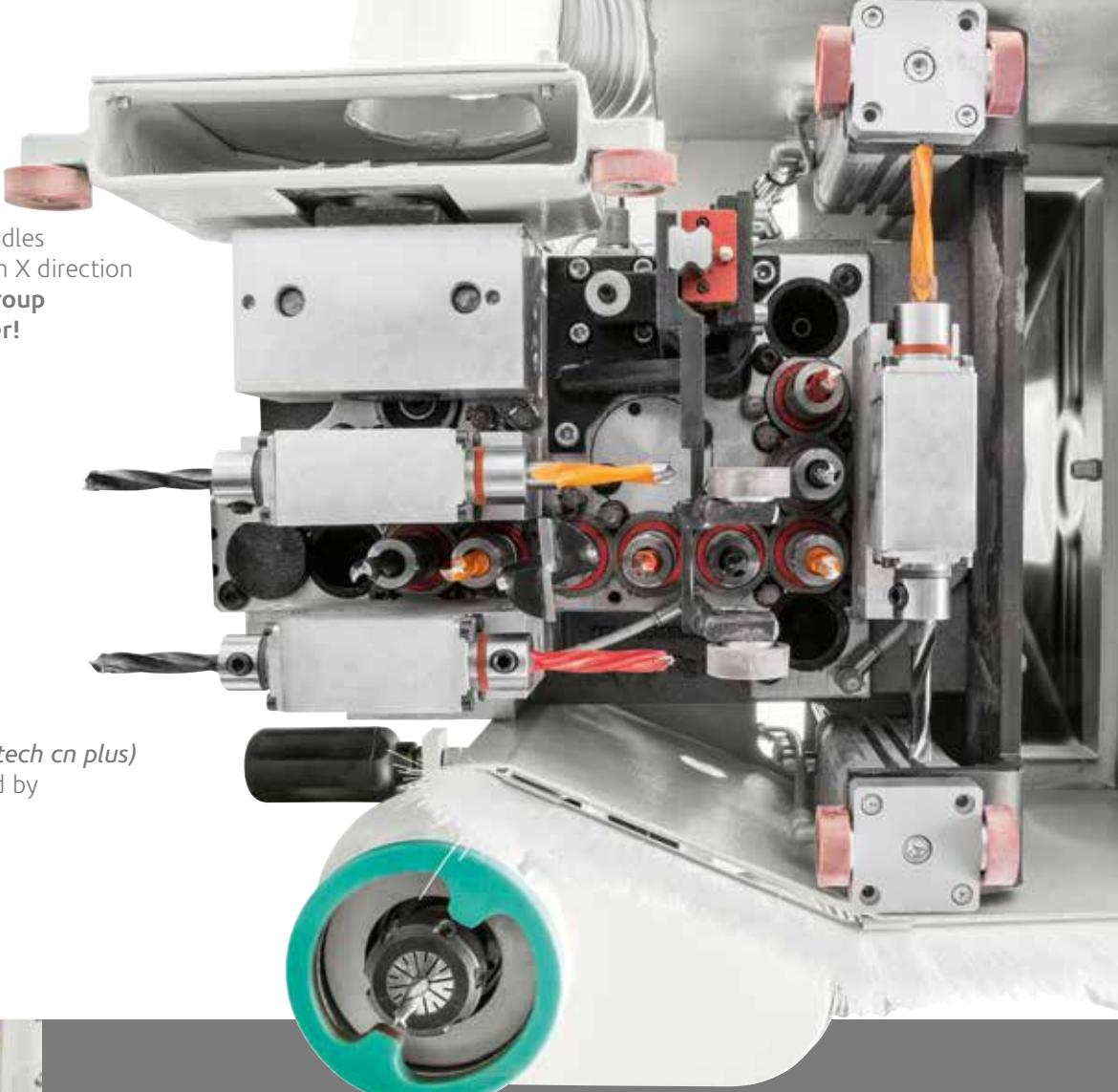


guaranteed reliability
Mobile clamp with floating opening
Optimal piece stability and high working quality.



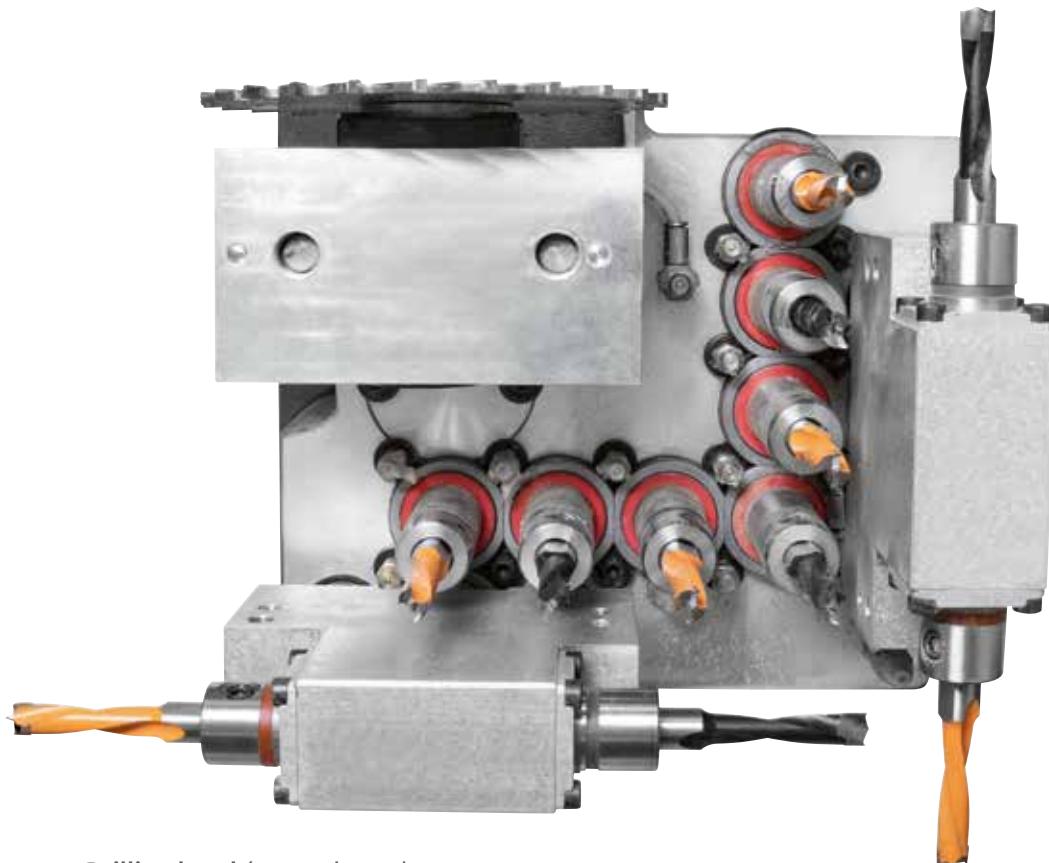
effective Drilling head

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!



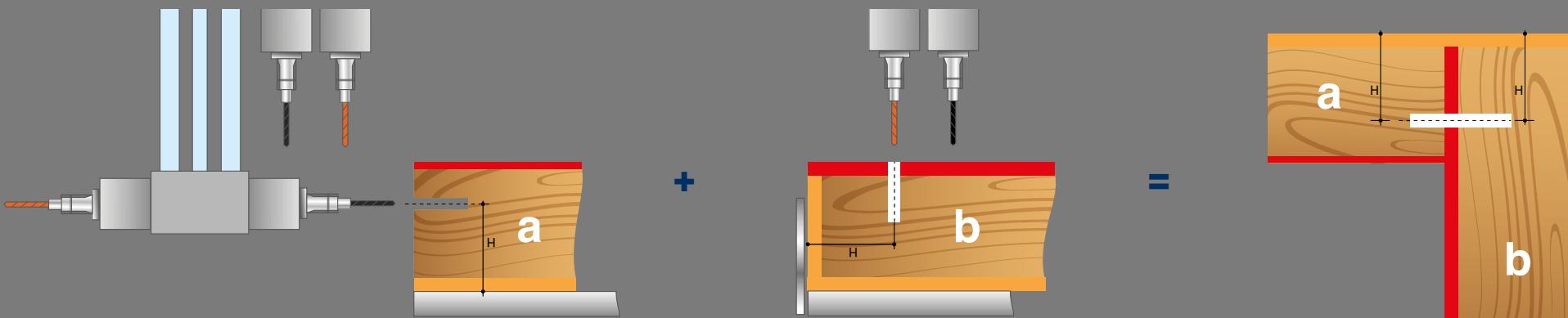
Drilling from the Top

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.



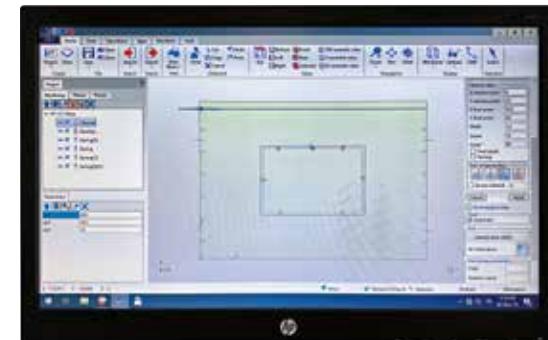
Drilling head (startech cn v)

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



scm
woodworking technology



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)



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)



Automatic centralized lubrication
managed by the control.

Barcode reader

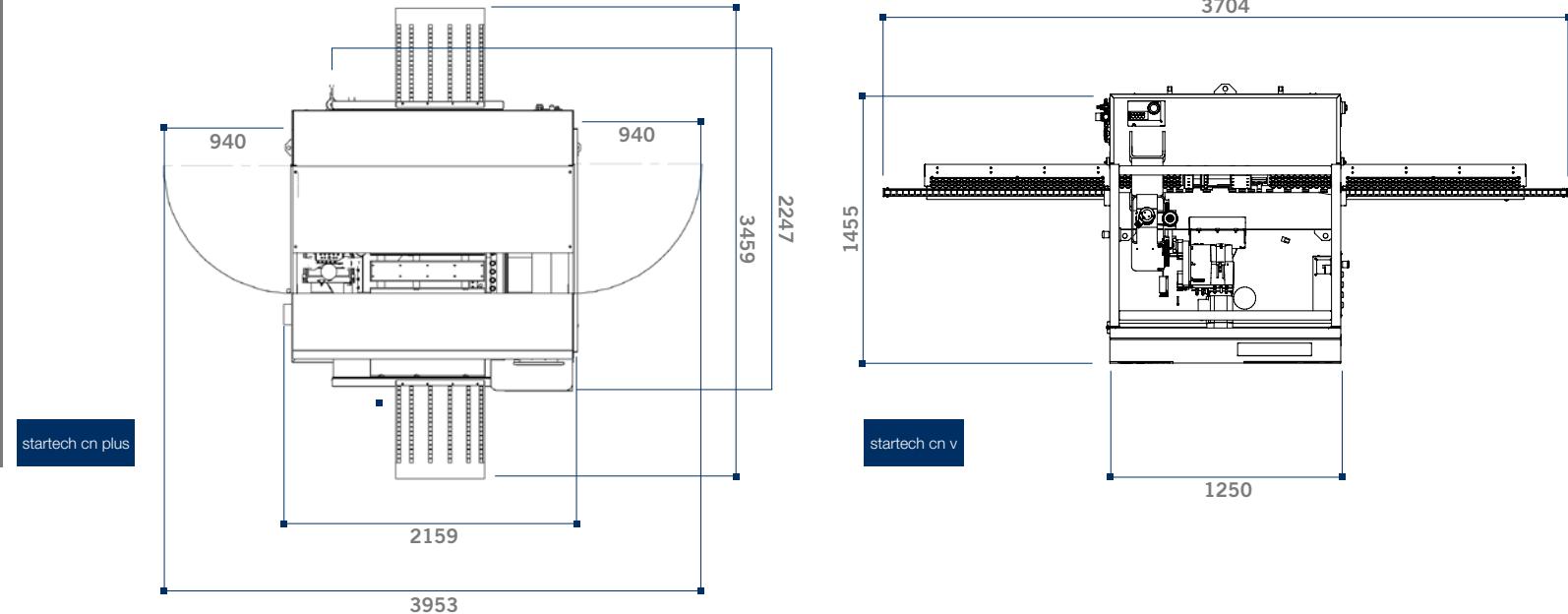
With a simple "click" of the barcode reader, it is very rapid and simple to recall drilling program, correctly stored in the machine control.



startech cn plus

startech cn v

technical data



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	m ³ /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

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 15



Drilling Head
perfect drilling



Cleaning System
highly effective



Hinges Units
high-tech accessories

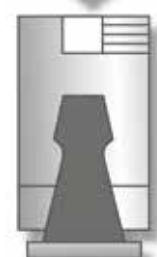
Excellence in manual drilling.

manual drilling machines operating groups



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.

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.



perfect drilling Drilling head

It is made from single-piece aluminium casting, to guarantee absence of vibrations.

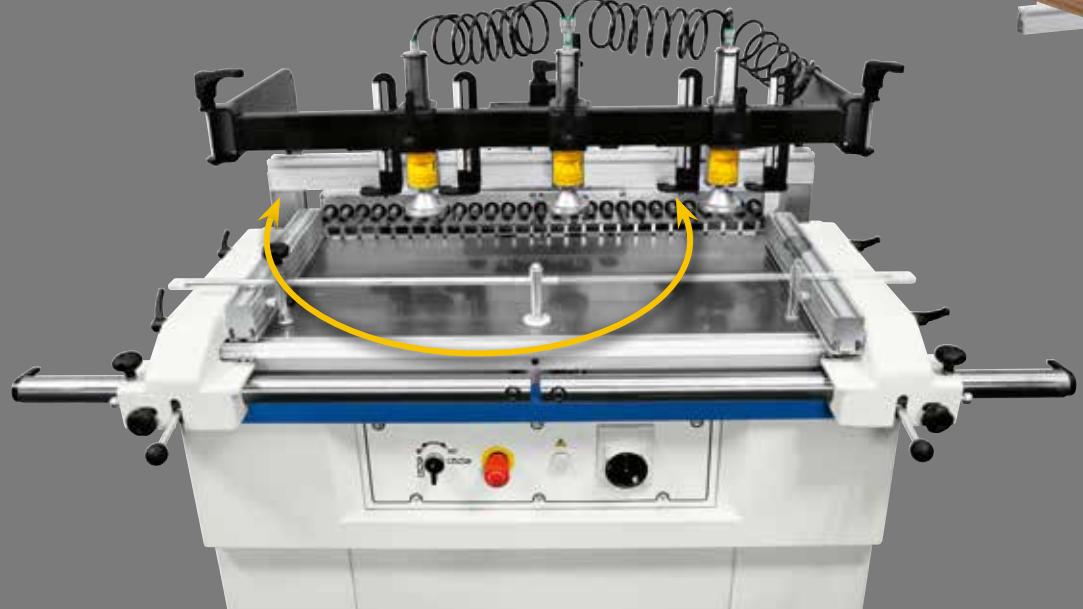
The drilling group runs on two rectified cylindrical guides which guarantee stability and accuracy. The dust extraction system is incredibly efficient.



fast and precise positioning

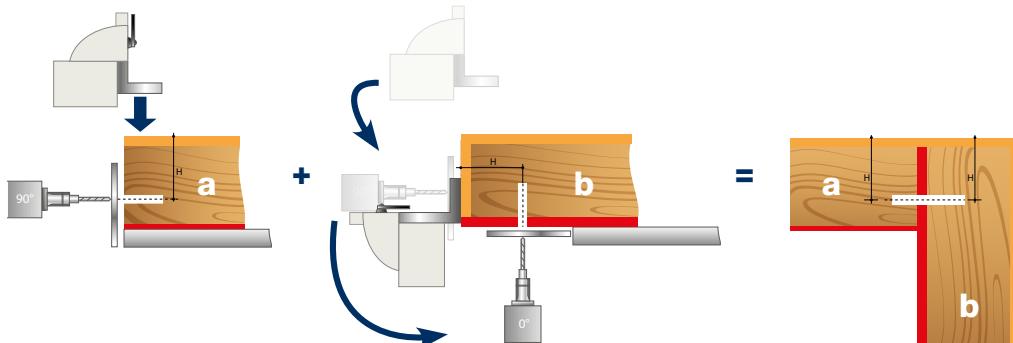
Mechanical gauge

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.



manual drilling machines main optional devices



Guide for horizontal drilling at 45°
Simple and effective.

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



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



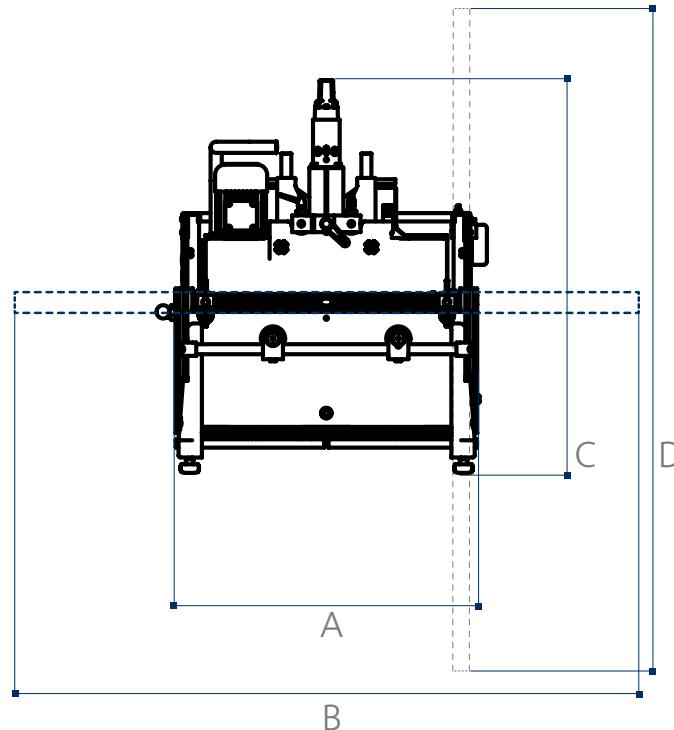
MAIN OPTIONAL DEVICES

- Pneumatic movement of the drilling head
- Servo-assisted drilling unit down stroke speed adjustment
- Guide for horizontal drilling at 45°
- Device for working narrow work-pieces
- Groups for hinges

	startech 27	startech 21
Pneumatic movement of the drilling head	S	0
Servo-assisted drilling unit down stroke speed adjustment	0	0
Guide for horizontal drilling at 45°	0	0
Device for working narrow work-pieces	0	-
Groups for hinges	0	0

manual drilling machines technical data

S Standard
O Option



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

TECHNICAL DATA

Worktable dimensions	mm	1096 x 407	startech 27	905 x 372	startech 21
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	Nl/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	

automatic routing machine startech cn k



Worktable dimensions

startech cn k

X-Y-Z axes max. speed

mm 1170 x 760

Max. tool diameter

m/min 5-5-2,5

Max. electrospindle speed

mm 60

Find the complete technical specification at page 21

rpm 24000



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 electrospindle with R25 tool-chuck generally used on higher-segment machines!

maximum safety and cleanliness

Protection cabin

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



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

Aluminium worktable with dimensions: 1170x760 mm.

"T" grooves dimensions: 13,5x7 mm
opening 8,5 mm for M8 screw or nut passage.



easy programming

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).



startech cn k optional devices

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



Tool height detection sensor
Total reliability.



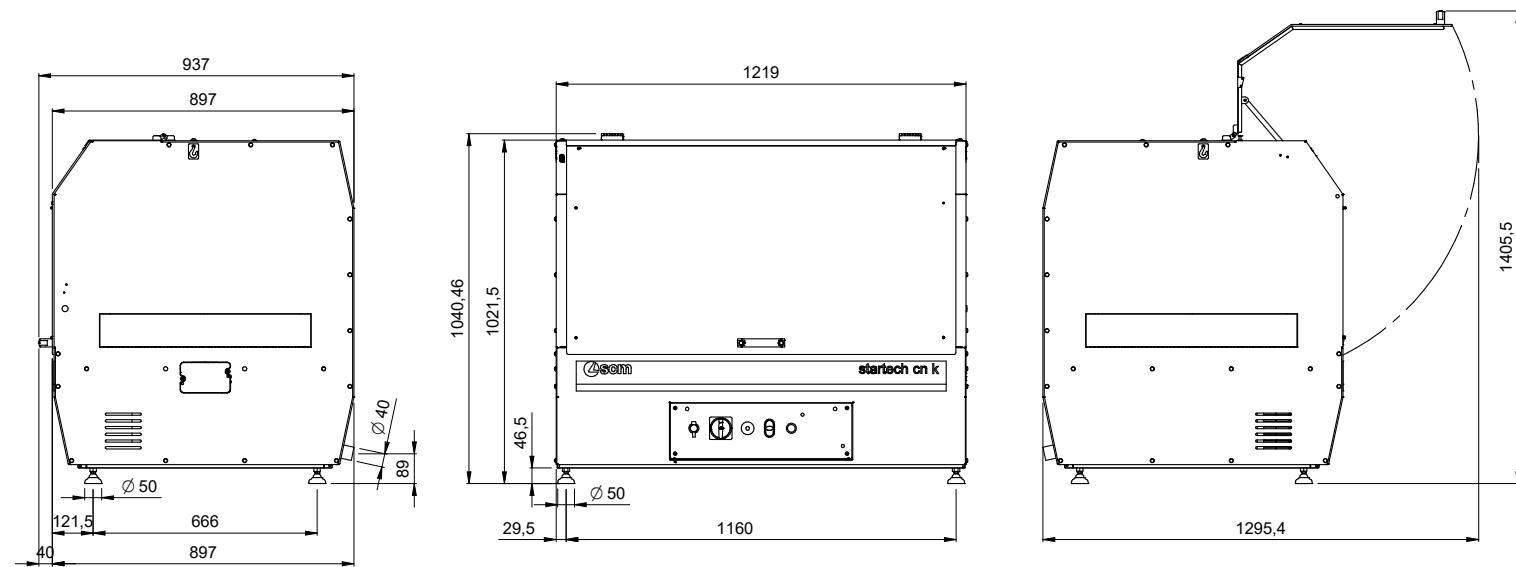
Kit of 5 pneumatic suction cups positionable
on the worktable
Ease-of-use and accuracy.



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

startech cn k

technical data



TECHNICAL DATA

		startech cn k
Worktable dimensions	mm	1170 x 760
X-Y-Z strokes	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	m ³ /h	115
Exhaust air speed	m/sec	20
Exhaust hood diameter	mm	40



scm | service

WE'LL GO THE
EXTRA MILE
FOR YOU

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!**

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www.scmwood.com

My Scm



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

THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

70 years of success gives SCM the centre stage in woodworking technology. This heritage results from bringing together the best know-how in machining and systems for wood-based manufacturing. SCM is present all over the world, brought to you by the widest distribution network in the industry.

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

In SCM's DNA also strength and solidity of a great Group. The SCM Group is a world leader, manufacturing industrial equipment and components for machining the widest range of materials.

SCM GROUP, A HIGHLY SKILLED TEAM EXPERT IN INDUSTRIAL MACHINES AND COMPONENTS

INDUSTRIAL MACHINERY

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



WOODWORKING TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING
COMPOSITE MATERIALS, ALUMINIUM,
PLASTIC, GLASS, STONE, METAL

INDUSTRIAL COMPONENTS

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



SPINDLES AND
TECHNOLOGICAL
COMPONENTS



ELECTRIC PANELS



METALWORK



CAST IRON



is more

woodworking technology





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