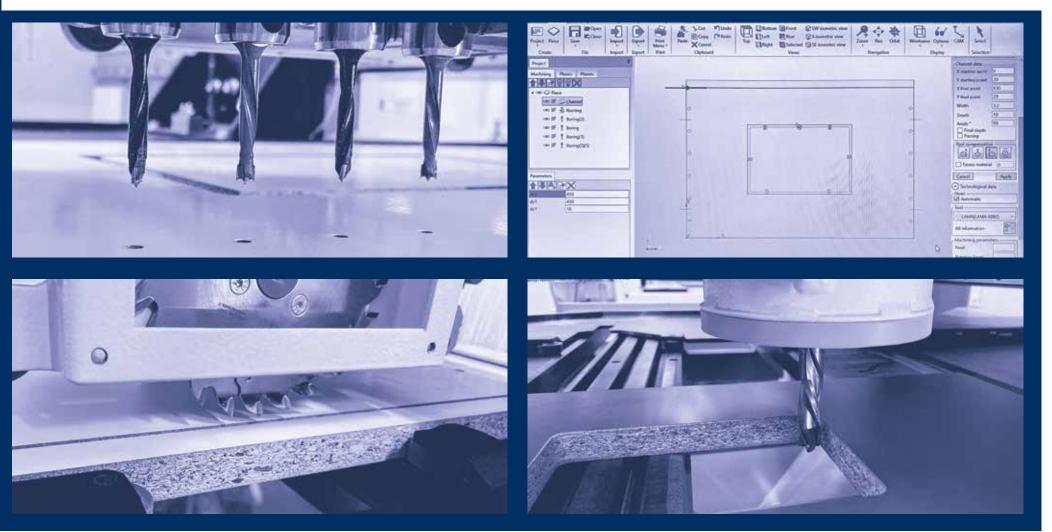
startech range drilling and routing machines for the advanced joinery









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



startech cn v page 5



startech 27 page 10



startech 21

page 11

drilling machines

manual

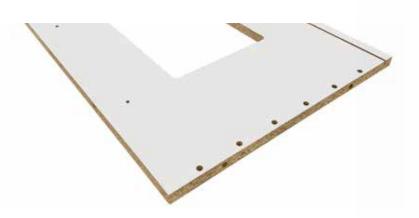
automatic

startech cn k page 16



automatic routing machines

automatic drilling-routing machine startech cn plus





		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			

automatic drilling machine startech cn v







Drilling from the Topperfect finish



Elements Production Maestro Software versatility



easy and intuitive

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

startech cn plus startech cn v operating groups

effective

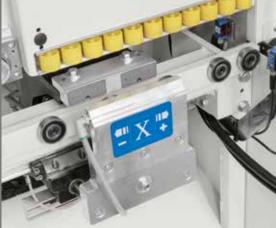
Drilling head

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.

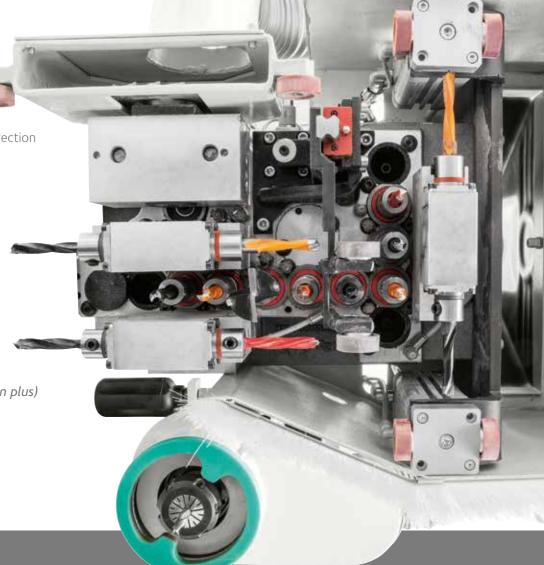


Drilling from the Top

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.

guaranteed reliability

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



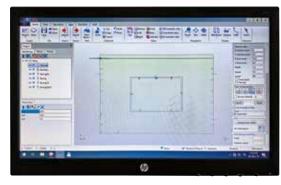
Drilling head (startech cn v)

With 11 independent spindles and integrated blade in X direction.

easy and intuitive

PC with integrated software (startech cn plus)

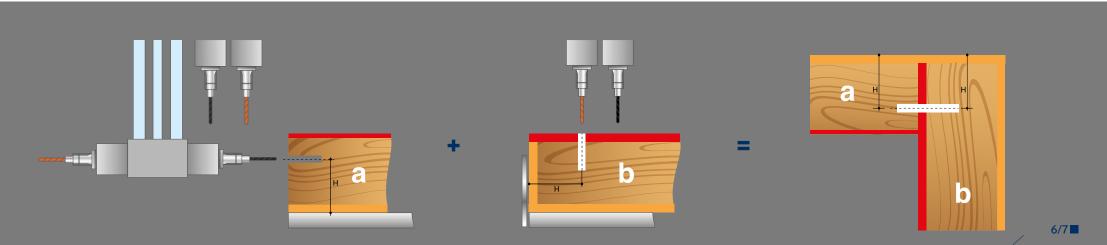
The **SCM "Maestro cnc"** software allows to create projects and geometrical drawings to be automatically converted in drilling-routing programs for the machine.



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



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)

Maestro cnc









Removable side supports

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



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.

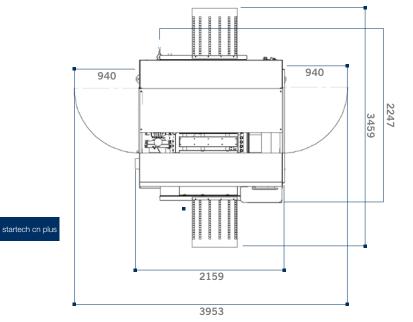
Barcode reader

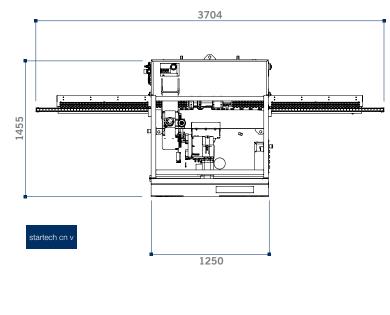
With a simple "click" of the barcode reader, it is very rapid and simple to recall drilling program, correctly stored in the machine control





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	Χ	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

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 Hinges Units highly effective high-tech accessories

manual drilling machines operating groups

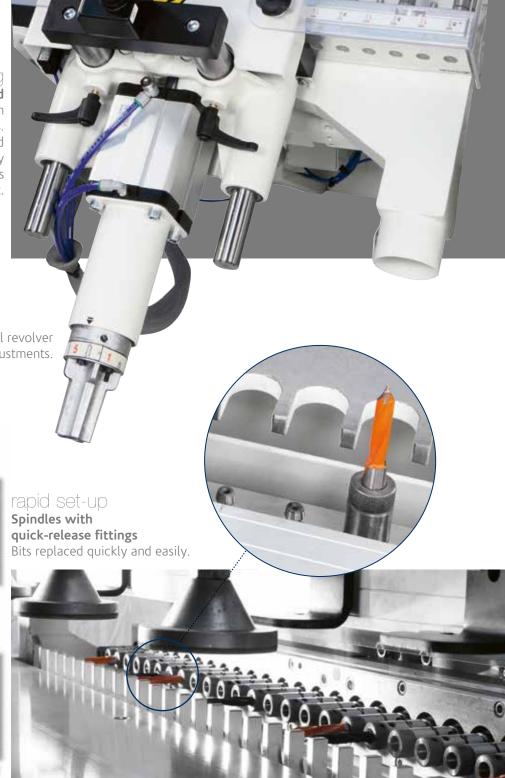
SWILLIAM TO THE STATE OF THE ST

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.



45°

- 90°

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.



fast and precise positioning

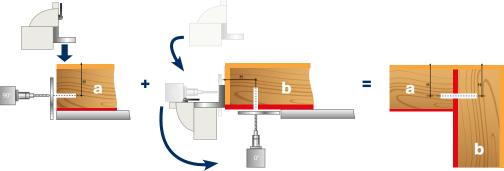
Mechanical gauge

It guarantees fast and precise positioning of the lateral fences.





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).





Device for working narrow work-piecesEasy-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.

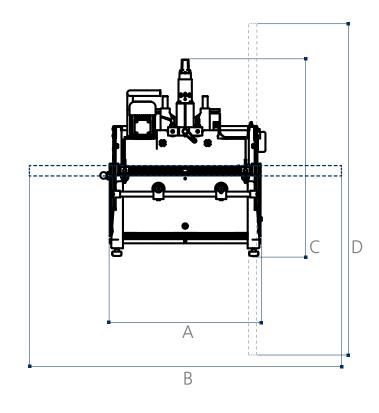


Guide for horizontal drilling at 45° Simple and effective.

MAIN OPTIONAL DEVICES	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





OVERALL DIMENSIONS		startech 27	startech 21
A	mm	1500	1000
В	mm	3000	3000
С	mm	1260	1150
D	mm	3000	3000

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	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



		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 21		





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 opeating 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.



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).

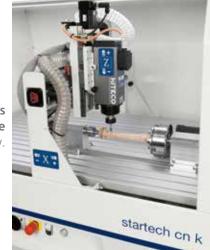






startech cn k optional devices

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







Tool height detection sensor Total reliability.

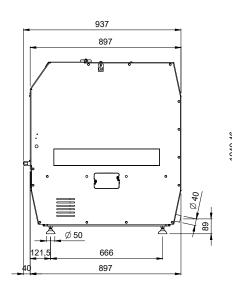


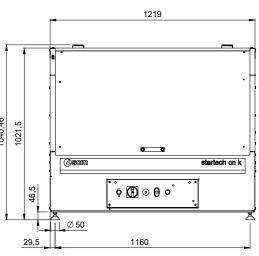
Kit of 5 pneumatic suction cups positionable on the worktableEase-of-use and accuracy.

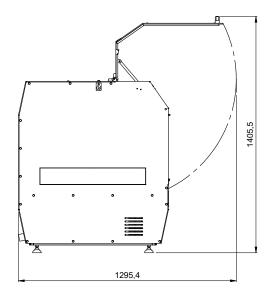




startech cn k technical data







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	А	16
Extraction air consumption	m³/h	115
Exhaust air speed	m/sec	20
Exhaust hood diameter	mm	40





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!**

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 Scn



SERVICE AND MAINTENANCE

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- · Scheduled maintenance contracts
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SPARE PARTS

- · Recommended spare parts list
- F-shon
- Interactive spare-parts catalogues
- Repairs on electronic parts, glue tanks and electro-spindles



TRAINING SERVICE

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



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

COMPOSITE MATERIALS, ALUMINIUM

INDUSTRIAL MACHINERY	INDUSTRIAL COMPONENTS			
Stand-alone machines, integrated systems and services dedicated to processing a wide range of materials.	Technological components for the Group's machines and system for those of third-parties and the machinery industry.			
⊘ scm	HITECO	C es	4 steelmec	4 scmfonderie
WOODWORKING TECHNOLOGIES TECHNOLOGIES FOR PROCESSING	SPINDLES AND	ELECTRIC PANELS	METALWORK	CAST IRON

FECHNOLOGICAL

is more





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

