





Cscm

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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 on plus

startech cn v

automatic

startech 27 page 10

startech cn k page 16

startech 21 page 11



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 versatility Maestro Software easy and intuitive

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

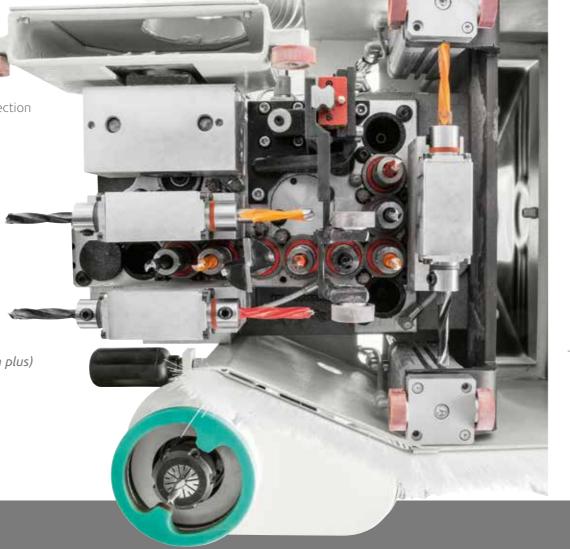
startech cn plus startech cn v Operating Groups effective Drilling head With 14 independent and 6 horizontal spindles, and possibility to add an or (startech co.

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.



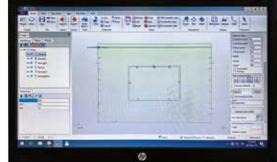
Drilling head (startech cn v)

With 11 independent spindles and integrated blade in X direction.

easy and intuitiv

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.



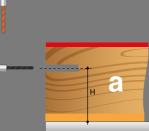
Numerical control (startech cn v)

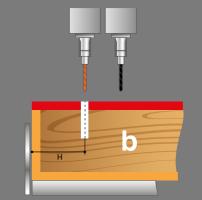
NC 10" colour touch-screen display and self-diagnosis and signalling system of errors or damages. Head tooling and machining cycle programming without using any mouse or keyboard and with automatic optimization.

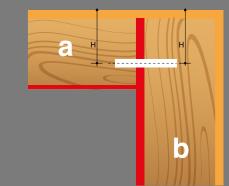












startech cn plus startech cn v main optional devices



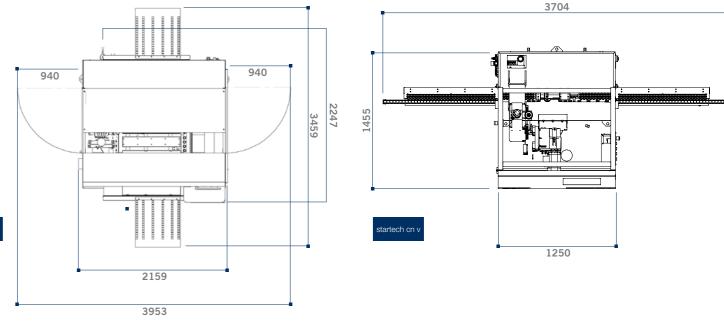
F23 drilling head

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)

startech cn plus startech cn y



startech cn plus

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 nanaged 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
mm	200 ÷ 3050	300 ÷ 3000
mm	80 ÷ 900	90 ÷ 900
mm	10 ÷ 60	10 ÷ 50
m/min	40	20
m/min	40	20
n.	8 (F14) - 13 (F23)	7 (F11) - 8 (F14)
n.	6 (F14) - 10 (F23)	4 (F11) - 6 (F14)
kW (hp)	2,2 (3)	2,2 (3)
rpm	4200	4460
direction	X	X
mm	125	125
rpm	5500	5700
kW (hp)	5,5 (6)	-
rpm	1000 ÷ 18000	-
	manual	-
mm	20	-
NVmin	50	90
m³/h	1900+540+1200 (+540 for R version)	820
m/sec	30	20
KVA	15,2 (20,7 for R version)	4,5
mm	150+120+80 (+80 for R version)	120
	mm mm m/min m/min n. n. n. kW (hp) rpm direction mm rpm kW (hp) rpm kW (hp) rpm kW (hp) rpm	mm 80 ÷ 900 mm 10 ÷ 60 m/min 40 m/min 40 n. 8 (F14) - 13 (F23) n. 6 (F14) - 10 (F23) kW (hp) 2,2 (3) rpm 4200 direction X mm 125 rpm 5500 kW (hp) 5,5 (6) rpm 1000 ÷ 18000 manual mm 20 NI/min 50 m³/h 1900+540+1200 (+540 for R version) m/sec 30 KVA 15,2 (20,7 for R version)



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			









Cleaning System Hinges Units highly effective high-tech accessories

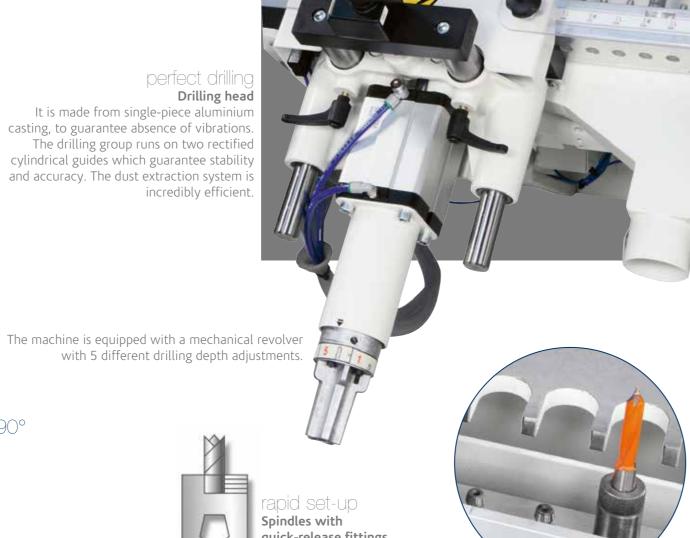
Excellence in manual drilling.

machines 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.



with 5 different drilling depth adjustments.

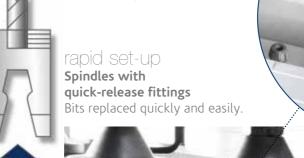




Drilling head movement

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.



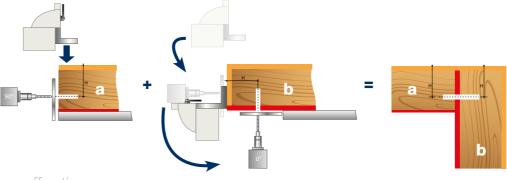


Mechanical gauge

It guarantees fast and precise positioning of the lateral fences.







effective

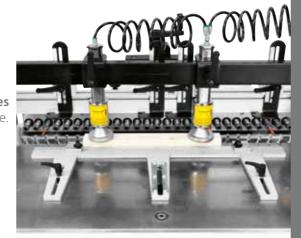
"Invisible" imperfections

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).

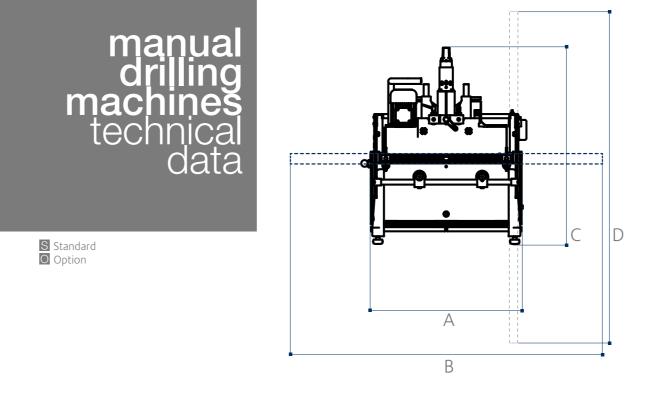


machineš main optional

Device for working narrow work-piecesEasy-to-use.



S Standard
O Option



OVERALL DIMENSIONS startech 27 startech 21 mm 1500 1000 3000 3000 mm mm 1260 1150 mm 3000 3000



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	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

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

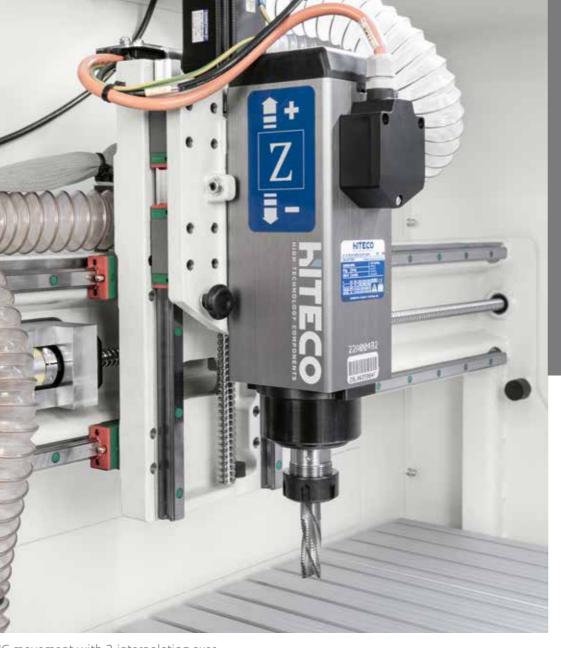
The machine has a powerful 2,4 kW electrospindle with R25 tool-chuck generally used on higher-segment machines!

maximum safety and cleanlines

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).







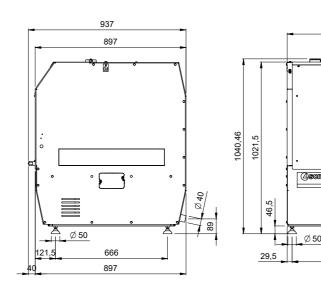
startech cn k optional devices

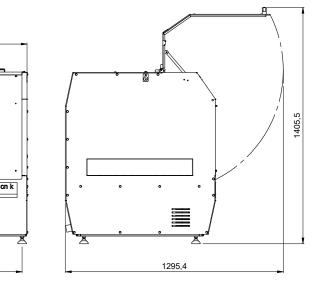
4th interpolating axis (lathe processing) on the worktable No limit to creativity.





startech cn k technical data







Tool height detection sensor



Support base with wheels and adjustable feet (500 mm height)

Easy machine handling.

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

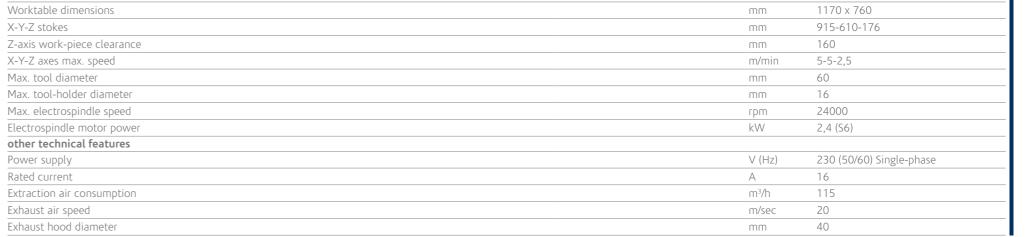


startech cn k TECHNICAL DATA 1170 x 760 mm 915-610-176 mm 160 mm 5-5-2,5 m/min mm 60 16 mm 24000 rpm 2,4 (S6) kW V (Hz) 230 (50/60) Single-phase Α m³/h 115 20 m/sec 40 mm

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Escm 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!

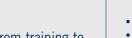
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- Scheduled maintenance contracts
- Warranty extension



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



- 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

INDUSTRIAL MACHINERY

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

Lscm

WOODWORKING TECHNOLOGIES



TECHNOLOGIES FOR PROCESSING COMPOSITE MATERIALS, ALUMINIUM

for those of third-parties and the machinery industry.

INDUSTRIAL COMPONENTS

Technological components for the Group's machines and systems,



SPINDLES AND TECHNOLOGICAL COMPONENTS

ELECTRIC PANELS

METALWORK





