

scm
woodworking technology

is more

ABOUT US

Since 1952, SCM is the world-leading producer of machinery and systems, as well as service provider, for the woodworking industry. SCM boast a record annual production output of over 20,000 machines, supported by the largest distribution network in the industry and an excellent after-sales service.

70 years history

3 main production sites in Italy

20,000 machines manufactured per year

90% export

500 support technicians

500 registered patents

THE MOST IMPRESSIVE DISTRIBUTION NETWORK IN THE WORLD

20 foreign branches

400 agents and dealers



scm
woodworking technology

To the kind attention of.....

Re:

With reference to your kind request, please find attached our best offer for the equipment of your interest.

We remain at your disposal for any further information you may need.
Looking forward to hearing from you.

Yours faithfully.

LORENZO TROLESE
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Offer presentation

Item	Description	Quantity
startech cn plus	**CNC UNIVERSAL BORING AND GROOVING CENTRE**	**1**

startech cn plus 5
AXES 7
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CNC UNIVERSAL BORING AND GROOVING CENTRE

startech cn plus



Flexible, performing and compact

startech cn plus has been designed for the small-medium woodworking workshops but also for larger companies that produce customised products, with in house prototype development departments. Thanks to the 8 independent vertical spindles, the 6 horizontal spindles, the blade in "X" .



EFFECTIVE:THE OPERATING UNIT ABOVE THE PANEL ALLOWS A VERY PRECISE AND CLEANED WORKING.
Furthermore any panel thickness imperfection is hidden inside the furniture (part not in sight).



TOTALLY AUTOMATIC WITH THE SIDE ALIGNMENT DEVICE WITH PNEUMATIC POSITIONING CONTROLLED BY NC.
Thanks to the automatic side alignment device the panel is loaded, into the machine and recovered at the end of the drilling-routing program, without any other intervention required by the operator.

Maestro cnc
Expand your creativity
scm

MAESTRO CNC DI SCM: A "MAESTRO" AT YOUR DISPOSAL
19" PC with **integrated software**. The SCM "Maestro cnc" software allows to create projects and geometrical drawings to be automatically converted in drilling-routing programs for the machine.

TECHNICAL DATA

AXES		
Max. panel length	mm	3.050
Min. panel length	mm	200
Max. panel width	mm	900
Min. panel width	mm	80
Max. panel thickness	mm	60
Min. panel thickness	mm	10
Max. X axis speed	m/min	40
Max. Y axis speed	m/min	40
DRILLING HEAD		
Vertical spindles - drilling head F14L (vers. P/PR) - drilling head F23L (vers.P F23/PR F23)	 no. no.	 8 (5X-3Y) 13 (7X – 6Y)
Horizontal spindles - drilling head F14L (vers. P/PR) - drilling head F23L (vers.P F23/PR F23	 no. no.	 6 (2+2X-1+1Y) 10 (3+3X-2+2Y)
Rotating spindles motor power	kW (Hp)	2,2 (3)
Spindle speed	rpm	4.200
Fixed integrated disc cutter (direction)		X
Max. diameter of disc cutter	mm	125
Disc cutter rotating speed	rpm	5.500
ELECTROSPINDLE		
Motor power	KW (Hp)	5,5
Min./Max. speed	rpm	1.000/18.000
Tool changer		manual
Max tool diameter	mm	20
INSTALLATION		
Compressed air consumption	Nl/min	50
Extraction air consumption	m3/h	1900+540+1200 (+540 vers. R)
Exhaust air speed	m/sec	30
Installed motor power	kVA	15,2 (20,7 vers. R)
Exhaust outlet diameter	mm	150+120+80 (+80 vers R)

GENERAL FEATURES

CNC drilling and grooving centre with fixed work table and mobile workpiece.
It is capable to carry out the following operations:
– vertical drilling on the panel surface
– horizontal drilling on all 4 sides
– grooving with integrated disc cutter along “X” axis
– standard vertical routing

Base and working table
structure made of welded steel plates to create a large support surface, on which the work tables are fixed. Electrical cabinet integrated in the base.
Work table made of phenolic material with grooves to allow the through boring

Mobile upright:
The gantry structure is made of welded steel plates which supports the main operating group.

Operating group
consisting in boring head with 8 vertical/6 horizontal spindles and integrated blade, plus vertical electrospindle (vers. R) with manual tool changer.

Movement of workpiece and operating group
An intelligent clamp directly controlled from the NC locks the panel to be processed and positions it in sequence under the operating head to execute the requested machining
Sliding along "X", "Y" and "Z" axes of prismatic linear guides and preloaded recirculating ball bearings.
Group positioning and machine motion is carried out by means of digital brushless motors.

CNC CONTROL UNIT
Control Unit designed for Drilling and Routing Centres installed on PC

Pc-Office with Hicam machine interface software

General features of the Hicam software
Programming
– parametric programming (excepting the programs which foressee the rear panel balancing) with graphic display
– import of the DXF and ASCII files (2D) (“Maestro cnc”);
– automatic optimisation of boring cycles

Included accessories
– on-line calculator of computed data (“Maestro cnc”);
– use of bar codes with already integrated software;
– selfdiagnosis and signalling of possible errors or damages in the user's language;
– single step operation for manual control of individual program steps (excepting routing);

Configuration
– operator interface in user's language;

– machining head graphic configuration;
– override which allows to adjust the operating unit positioning speed;

OTHER STANDARD FEATURES

"TP" detecting system for calibrating of opposite panel side reference
capable to read the panel dimension along X direction and automatically compensate errors on eventual panel size. This device grants a perfect joint between the panels even if the same are out of tolerance. Panel width measurement device. Automatic measurement device for Y panel dimension.
This system checks that the entered panel dimension is the same of the programmed one by the machine, stopping the machine in case of error.
It is also used to check possible collisions due to a wrong machine programming.

Device to increase the drilling pressure along Z axis

WORKING TABLE

Bakelite work table with low friction

Automatic central side-alignment device with pneumatic positioning

Centralised lubrication. The lubrication nozzles of the moving parts are grouped in a single position, allowing the operator the simple manual daily maintenance in very reduced time

DISPOSITIVI HARDWARE E PROGRAMMI SOFTWARE

Pc-Office
- Windows 10 operating system
- 19" LCD colour display
- Qwerty keyboard
- Hicam interface machine software

TELESOLVE teleservice via internet.
Teleservice system to connect the machine pc with the service centre via Internet.
Software equipment: connecting program which allows:
- operator's interface visualisation
- signals diagnosis
- on-line verification and modification of the status of configurations, parameters and machine programs
- data back-up and files transfer operations
- upgrade operations for machine logics and operator's interface

N.B.- Internet connection at customer's charge is necessary
-Network cable not included

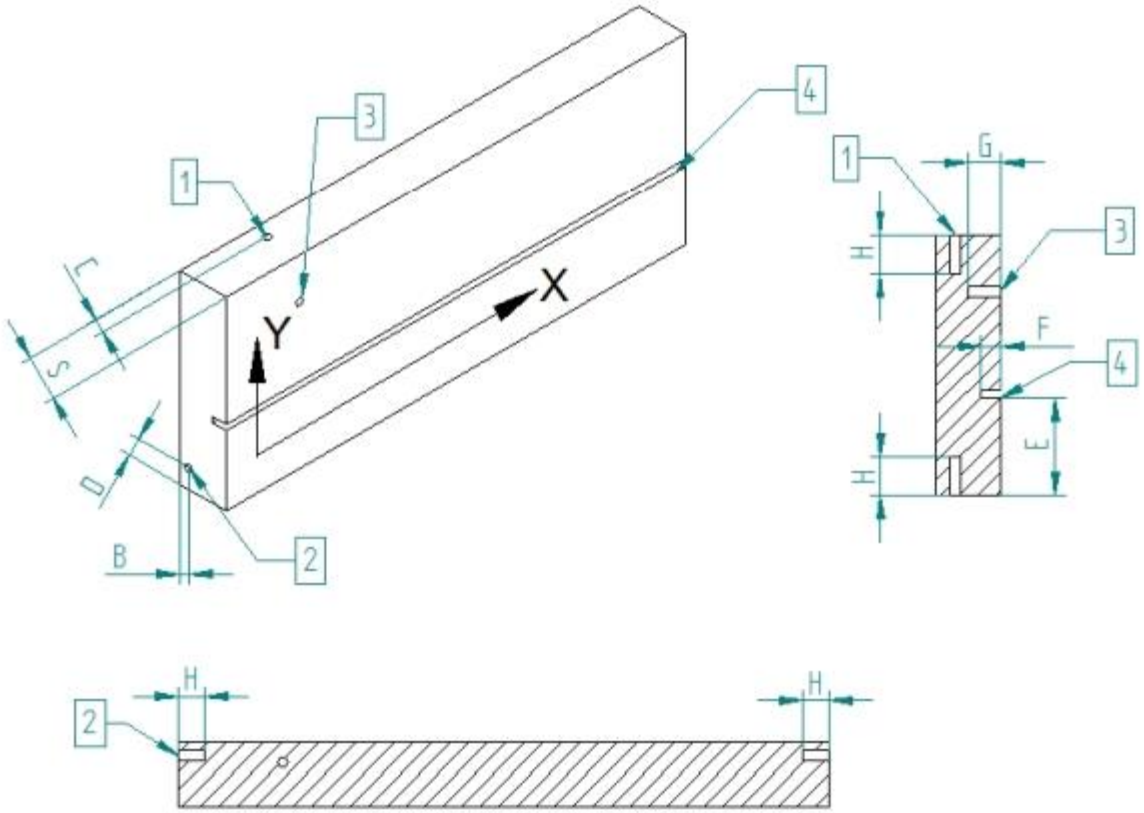
CAD/CAM programs import
machine can import drilling programs carried out with external softwares.

Hardware key with "Maestro cnc" programming software

SAFETY REGULATIONS
Machine in conformity with the standard safety regulations according to the countries of machine destination.

NOTE
It is forbidden to work panels with features that are not included in the indicated dimensions.
The machine can work only rectangular panels, whose long side has to be positioned in the "X" direction of the working coordinates.
For horizontal machining on workpieces with length lower than 121mm with no. 62 or no. 63 tool, it is not possible to grant the bore precision as the same is constrained to the workpiece precision.
Working on pieces with particular profiles have to be evaluated during the **contract** stipulation.

TOOL FEATURES
- horizontal drilling in X, up to 11mm minimum quota in Y
- grooving up to 120mm minimum quota in "Y" to the max. pass depth; from 60 mm to 120 mm: 4 mm max. depth
- 30 mm maximum vertical drilling depth
- 30 mm maximum horizontal drilling quota with respect to the panel surface (face 1)
- through drilling on panels with thickness up to 22mm with 8mm bits and 20mm with 10mm bits
- integrated blade unit with:
  * Rotating speed: 5500 rpm
  * Tool attachment: 20mm bore
  * Blade = 125mm maximum diameter; 6mm maximum thickness



S = panel thickness

B ≥ 2+(Bit diameter/2) (per S < 32 mm)

B ≥ S - 30 mm (per S ≥ 32 mm)

C ≥ 2+ (Bit diameter/2) (per S < 32 mm)

C ≥ S - 30 mm(per S ≥ 32 mm)

D ≥ 11 mm

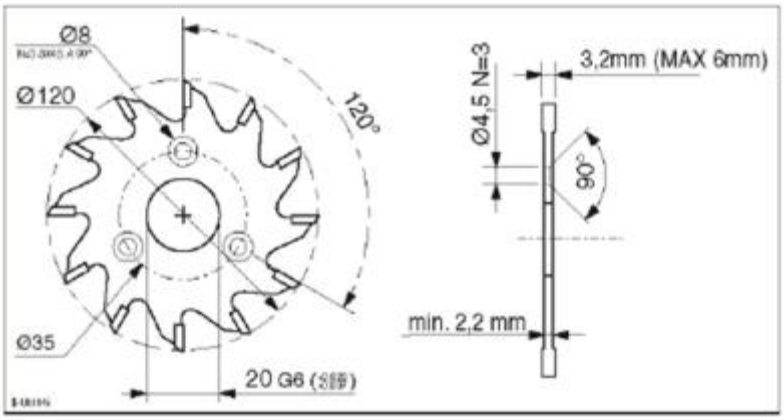
E ≥ 120 mm

F ≤ 20 mm

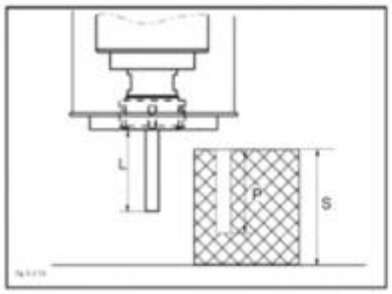
G ≤ Bit length -25 mm

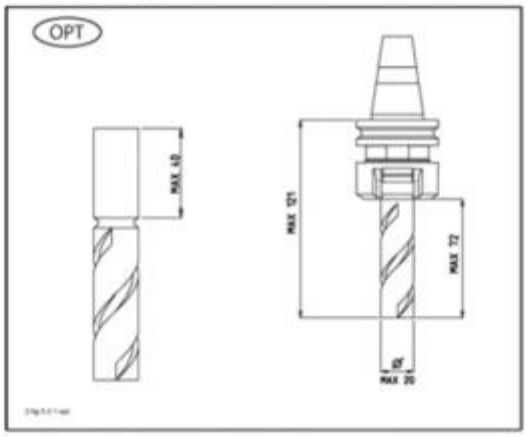
H ≤ Bit length -20 mm

Dimensioni lama incisore



Lmax = 72 mm
Pmax = 60 mm





Production code: STARTECH CN P

10.99.99 Security execution **N. 1**

R0.05.25 startech cn plus R with F23Ldrilling head- CE version **N. 1**
Equipment for drilling and routing applications

OPERATING GROUP

F23L drilling unit. includes:
- no. 13 independent vertical spindles (6 right and 7 left)
- for bits 10mm diameter
- centre-to-centre distance between spindles: 32 mm
- no. 10 horizontal drilling heads, 2 + 2 along X (10mm attachment for bits),
  2 + 2 in Y (10mm attachment for bits)
- bits rotation speed: 4.200 rpm
- no.1 integrated blade along X axis (125 mm max. diameter)
- blade rotation speed: 5.500 rpm
- ,2 kW motor power
- mm on-off pneumatical stroke on vertical spindles
- 75 mm on-off pneumatical stroke on horizontal spindles

Version complete with 5,5,kW electrospindle
Electrospindle, vertically positioned with respect to the worktable, able to carry
out generic routings in any direction.
Technical features:
– 5,5kW (7,5Hp) motor power – 18.000rpm max
– connection ER32 collet for cylindrical shank tool
– locking nut
– 2 ÷ 20 mm tool diameter
– 80mm exhaust outlet diameter
– 540m3/h exhaust air speed
– 30m/sec exhaust air speed 30mt/sec
– electrospindle cooling by coaxial airflow
N.B.
– *it is not possible to route the external side of the panel, where the mobile clamp is positioned*
– *35mm minimum distance between the tool and the external panel side (clamp side)*
  it is not possible to remove some panel parts, but it is necessary to leave temporary joints or grind the parts to be removed
– *it is possible to use only tools that can rotate at 18.000 rpm speed*

93.07.31 Volt 400 EU **N. 1**

93.12.01	**Frequency 50 Hz**	**N. 1**
58.05.91	**Uninterrupted power supply unit (UPS)**	**N. 1**
58.05.95	**Additional hardware key for "Maestro cnc"**	**N. 1**
08.32.56	**Wood blocks**	**N. 1**
10.99.87	**Machine language: English**	**N. 1**

Quotation summary

10.99.99	**Security execution**	**N. 1**
R0.05.25	**startech cn plus R with F23Ldrilling head- CE version**	**N. 1**
93.07.31	**Volt 400 EU**	**N. 1**
93.12.01	**Frequency 50 Hz**	**N. 1**
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08.32.56	**Wood blocks**	**N. 1**
10.99.87	**Machine language: English**	**N. 1**

Quotation total price

Item	Description	Quantity
startech cn plus	**CNC UNIVERSAL BORING AND GROOVING CENTRE**	**1**

Gross price		**EUR**	**61,542**
Installation and testing		EUR	
Delivery		EUR	
Total price		**EUR**	**61,542**

NOTES

Prices not including taxes (to be defined according to different countries)

TERMS AND CONDITIONS

Offer validity:	30 days
Delivery time:	To be agreed
Goods delivered/Transport:	EXW INCOTERMS 2020, ex-work SCM factories in Italy; transport excluded In the case of prepaid transport, the costs for off-loading are at customer's charge
Tools:	Excluded (unless otherwise agreed)
Payment:	20% down-payment with the order Balance by bank transfer or irrevocable and confirmed letter of credit, on advice goods are ready to dispatch
SCM Bank details	To be provided upon acceptance of this offer.
Installation, Commissioning and Training	The installation and commissioning costs are excluded unless otherwise indicated in the offer. Truck off-loading, machine positioning, electrical, pneumatic and dust collection connections have to be carried out by the customer before the arrival of the SCM engineers. Not completing the connections before the arrival of the SCM engineers or not preparing the necessary material for the test-run, the costs incurred by SCM during the forced stop of the works will be charged to the customer. Installation includes training on the use and maintenance of the machine in accordance with the user and maintenance manual. Operator training includes an explanation of the safety devices installed, the machine's operating controls and the dedicated machine-operator interface if present on the specific machine, also extending to any dedicated cloud applications and software for managing machine connectivity and remote monitoring. If included in the sale, training will also include any CAD-CAM software installed on the machine.
Warranty:	The warranty covers for manufacturing defects of the machine and components for 12 months from the date of delivery and in any case not exceeding 2.500 working hours unless differently agreed in writing. The warranty consists of the repair or replacement, of broken or defective parts by and at SCM expenses and discretion. The warranty refers to the individual malfunctioning parts and other components of the machine with the explicit exclusion of the wearing parts. SCM is not liable for damages or deteriorations caused by use other than that provided for in the Use and Maintenance Booklet. The same condition applies in the failure to suspend the use of the machinery in case of operating problems or any case for any other cause not attributable to SCM. The warranty ceases when equipment or spare parts not supplied by SCM are installed on the machinery, as well as work has been carried out by unauthorised personnel, and in any case when modifications are made without SCM consent in writing. SCM is not liable for any kind of damages that may arise from improper use, inadequate maintenance or different behaviours than what foreseen in the instructions for maintenance and use.

Packing	SCM standard packaging consists of wooden supports and shrinkable nylon. Upon request, other types of packages can be quoted and included in the offer.



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!**

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 I scm portal - opening of service ticket and single
- point of access to the apps and Services tools

SCM SERVICE

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www.scmwood.com

Discover the **my I scm portal**: access the world of **SCM services 24/7** and from any device.

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SPARE PARTS

THE RIGHT PRICE AT THE RIGHT TIME

The SCM Spare parts Team can provide its customers with on-going support with the main supply activities of original spare parts, identification of the parts needed to get a machine working again and a repair service for electronic parts, glue tanks and electro-spindles. Thanks to a centralised warehouse and 6 secondary warehouses around the world, SCM Spare Parts handles over 1,000 shipments a day with highly competitive handling times.

The Spare Parts offer includes:

- Lists of recommended spare parts for the model and machine serial number
- List of Spare parts most likely to wear
- Machine Accessories

E-SHOP SCM SPARE PARTS

Discover the experience of easy, fast and convenient purchasing to order the spare parts you need.
www.scmgroupspareparts.com

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