

# drilling machines

For all drilling requirement.

semi-automatic  
drilling machine  
startech cn

manual  
drilling machines  
startech 27  
startech 21



# nc universal drilling and grooving machine startech cn



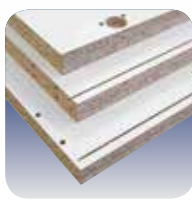
		startech cn
Maximum (minimum) panel dimensions X x Y x Z	mm	3050 (300) x 800 x 50
Working area	mm	0 x 800
Maximum X-Y axes speed	m/min	25
Vertical spindles	no.	7 (4X-4Y one of them is shared)
Horizontal spindles	no.	3
Find the complete technical specification at page 63		

Maestro suite

Expand your creativity



Drilling Head  
effective



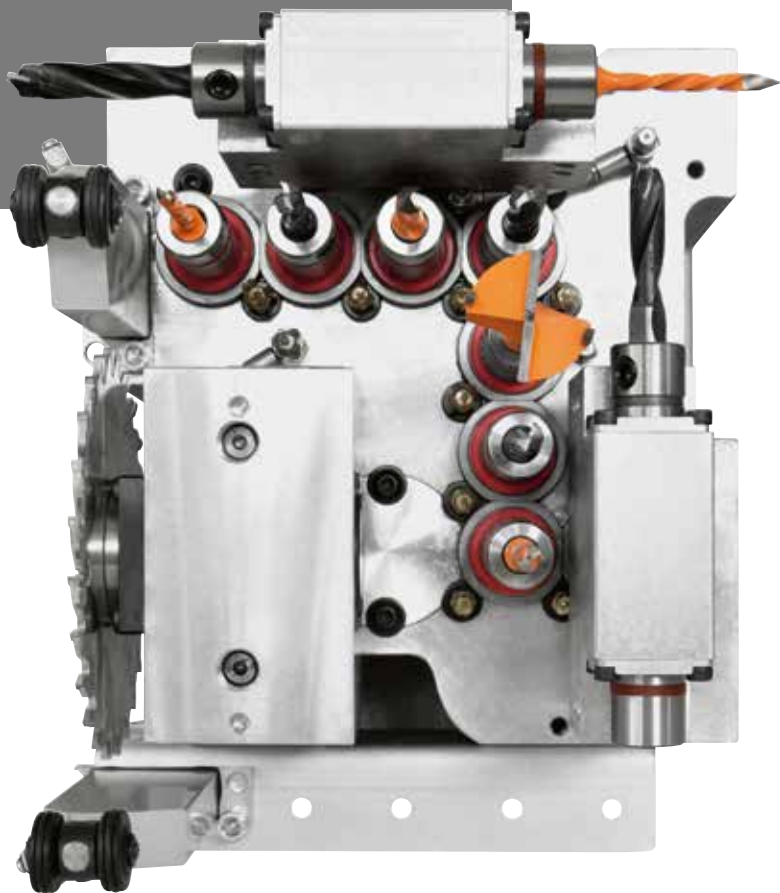
Elements Production  
versatility



"Easy Motion"  
easy loading

The universal drilling machine for  
woodworking shops and craftsmen.

# startech cn operating groups



## effective Drilling head

With 7 independent vertical spindles, the spindle and the blade in "X" and the possibility to drill in "Y", startech cn has a **drilling head flexible and ideal for batch-one furniture productions**. The drilling head positioned above the panel allows a precise machining which can be verified in the panel assembly phase: in fact the system uses the outside of the panel as a reference and thus **any differences in thickness are on the inside of the cabinet**. Furthermore the positioning of the drilling head always **upper the working chips and dust** grants a better cleaning and a reduced maintenance.

## Easy panels movement

### "Easy Motion" work table

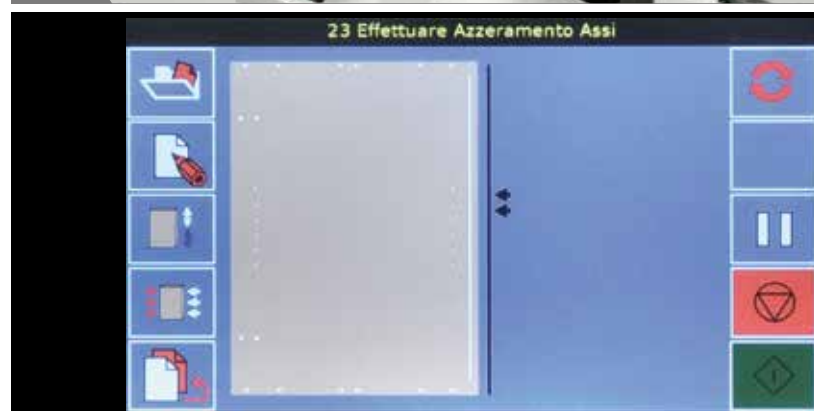
Easy loading and sliding of panels due to the front and rear support rollers. The right and left guides and the central side-alignment device facilitate accurate machining utilizing the 2 stops arrangement similar to that used on high end CNC's.



## easy and intuitive

### Numerical control

NC control with 7" colour touch-screen display and self-diagnosis and signaling system of errors or damages. Head tooling and machining cycle programming without using any mouse or keyboard and with automatic optimization.



Finished furniture elements can be produced without having to adjust the bits and with no operator's intervention for the worktable and machine set-up according to the panels dimensions.



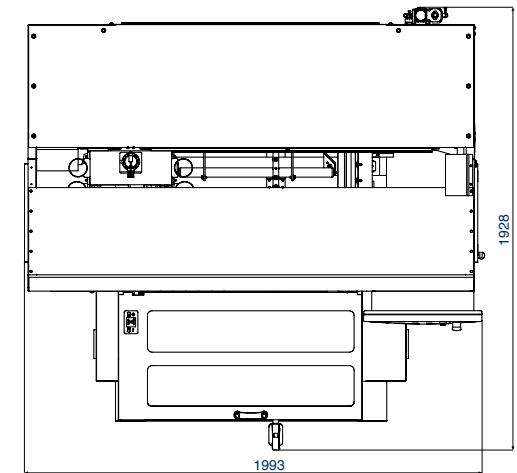
# Maestro suite

Expand your creativity



“Maestro” Software by SCM Group startech cn has the possibility to import and export the rilling programs, even when created with a CAD/CAM software in the office, through USB key (N.B. Post-processor not included). Furthermore the “Maestro” software by SCM allows to create projects and geometrical drawings to be automatically converted in drilling programs for the machine.

## startech cn dimensions and technical data



### Bar code reader

With a simple “click” of the barcode reader (option), it is very rapid and simple to recall drilling program, correctly stored in the machine control. Optimal device to integrate the startech cn inside the “Netline” panel working cells.

startech cn		
<b>axes</b>		
Maximum panel dimensions X x Y x Z	mm	3050 x 800 x 50
Minimum panel dimensions X x Y x Z	mm	300 x 90 x 10
Drilling/Grooving working area	mm	0 x 800/0 x 800
X axis stroke	mm	825
X-Y maximum axes speed	m/min	25
<b>drilling head</b>		
Vertical spindles	no.	7 (4X-4Y one of them is shared)
Horizontal spindles	no.	3
Spindles speed	rpm	4460
Fixed integrated blade (cutting into X direction)		
Blade diameter	mm	125
Blade thickness	mm	6
Blade rotating speed	rpm	5700
<b>other technical features</b>		
Motor power	kW (hp)	2,2 (3)
Electrical supply	V (Hz)	380/400 (50/60)
Installed motor power (minimum)	KVA	4,5
Air pressure	bar	6,5
Compressed air consumption	NL/cycle	90
Extraction air consumption	m3/h	815
Exhaust air speed	m/sec	20
Exhaust outlet diameter	mm	120

manual

drilling machines

startech 27

startech 21



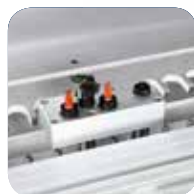
		startech 27	startech 21
Number of spindles	n.	27	21
Work table dimensions	mm	1096 x 407	905 x 372
Max. panel width under the "gantry structure"	mm	1025	833
Max. tool diameter	mm	40	40
Min. ÷ max. panel thickness	mm	10 ÷ 85	10 ÷ 85
Spindles speed	rpm	2800	2800
Find the complete technical specification at page 67			



**Drilling Head**  
perfect finish



**Cleaning System**  
highly effective



**Hinges Groups**  
high-tech accessories

Excellence in manual drilling.



# manual drilling machines operating groups

## perfect drilling **Drilling head**

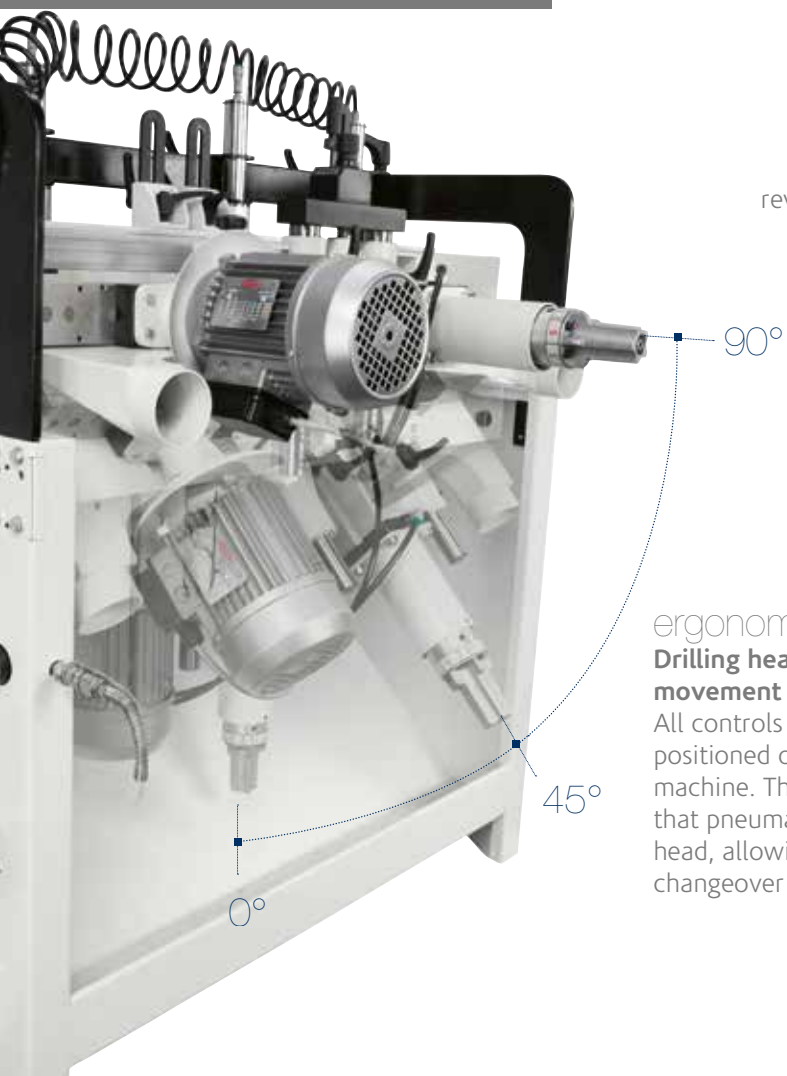
Drilling head made from single-piece aluminum casting, to guarantee absence of vibrations. The drilling unit runs on two rectified cylindrical guides which guarantee stability and precision. The dust extraction system is incredibly efficient.



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



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



## ergonomics **Drilling head movement**

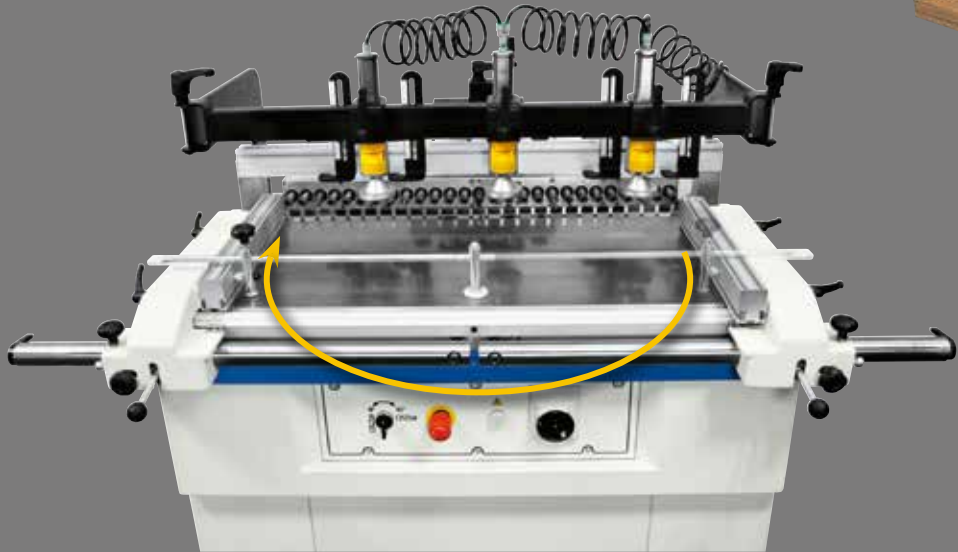
All controls are ergonomically positioned on the front of the machine. This includes the switch that pneumatically tilt the drilling head, allowing an immediate changeover between operations.



fast and precise positioning

### Mechanical gauge

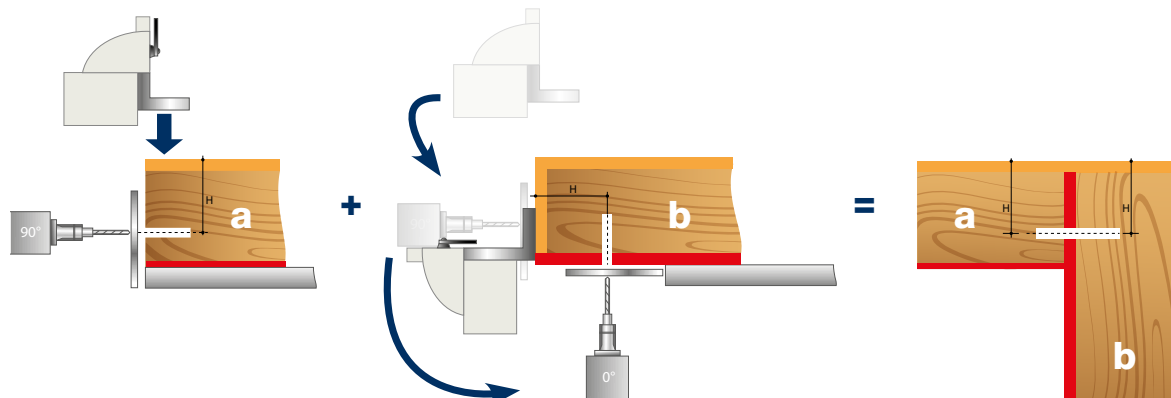
It guarantees fast and precise positioning of the lateral fences.



versatile, a wide choice of 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 when assembling the furniture: the system, in fact, uses the outside (in sight) of the panel as a reference and thus **any differences in thickness are 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



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



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

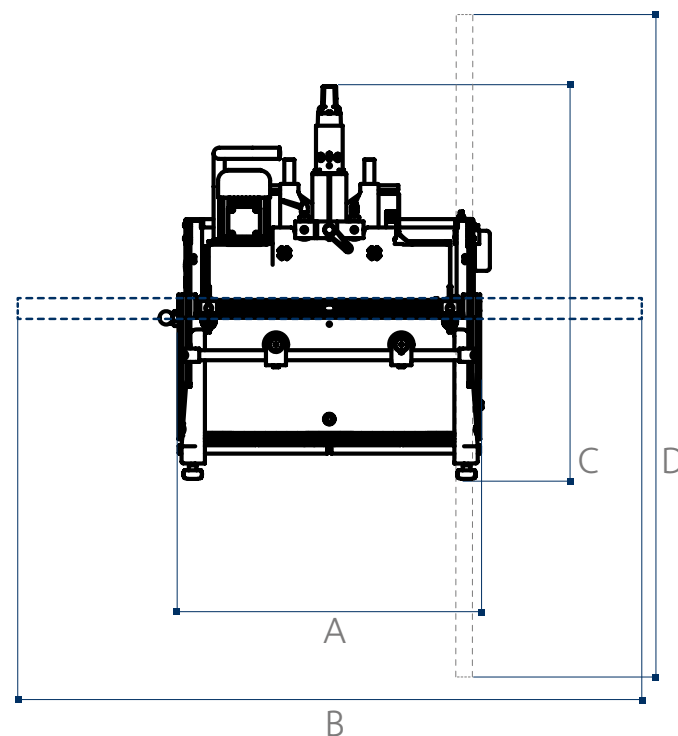


**Guide for horizontal drilling at 45°**  
Simple and effective.

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

 Standard  
 Option

# manual drilling machines dimensions and technical data



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

		startech 27	startech 21
Work table dimensions	mm	1096 x 407	905 x 372
Work table height	mm	900	900
Spindles	no.	27	21
Spindle 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 "gantry structure"	mm	1025	833
Minn. ÷ max. panel thickness	mm	10 ÷ 85	10 ÷ 85
Max. tool diameter	mm	40	40
<b>Other technical features</b>			
Three-phase motors 1,8kW (2,5hp) 50Hz – 2,2kW (3hp) 60Hz		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



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