



# 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.



# **minimax** the passion that deserves professional products.

minimax is the line of professional machines for hobbyists and woodworkers, a point of reference for over 40 years worldwide.

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.

# **Classic** and lab Essentiality and practicality.





		cu 410c	cu 300c
Planer useful working width	mm	410	300
Total length of surfacing tables	mm	1800	1510
Max. saw blade diameter with scoring blade installed	mm	315	315
Squaring stroke	mm	1660 ÷ 2660	1660 ÷ 2660
Max. spindle length	mm	100	100
Three-phase motors starting from	kW/Hz	5 (6) / 50 (60)	5 (6) / 50 (60)
Find the complete technical specification at page 16			





1

 Squaring Frame and Fence
 Saw Unit
 Suffacing Tables Opening
 5 kW Power

 maximum performance performance without limits
 exceptional accessibility
 provided as standard

The best price to performances ratio with the essentiality and practicality required by DIY woodworkers and craftsmen.



		st 3c	fs 41c	fs 30c
Max. saw blade diameter with scoring blade installed	mm	315	-	-
Squaring stroke	mm	1660 ÷ 2660	_	
Max. spindle length	mm	100	-	-
Planer useful working width	mm	-	410	300
Cutter block diameter (mm)/no. of standard knives	mm/n.	-	72/3	72/3
Fotal length of surfacing tables	mm	-	1800	1510
Min. ÷ max. working height on thicknesser	mm	-	3 ÷ 230	3 ÷ 230
Three-phase motors starting from	kW/Hz	5 (6) / 50 (60)	4 (4,8) / 50 (60)	4 (4,8) / 50 (60)
Find the complete technical specification at page 16				



 Squaring Frame and Fence
 Saw Unit
 5 kW Power

 maximum performance performance without limits
 provided as standard

Planer Cutter Block<br/>best resultSurfacing Fence<br/>absolute rigidity

Compact and highly precise solutions with a low investment.



		sc 3c	sc 2c
Max. saw blade diameter with scoring blade installed	mm	315	315
90°/45° max. saw blade projection from table	mm	100/79	100 / 79
Cutting width on parallel fence	mm	900 ÷ 1270	900 ÷ 1270
Squaring stroke	mm	2310 ÷ 2660	1660
Three-phase motors starting from	kW/Hz	5 (6) / 50 (60)	4 (4,8) / 50 (60)
Find the complete technical specification at page 16			



Saw Unit performance without limits Digital Readout high-tech devices

es Sliding Table exclusive

Compact and highly precise solutions with a low investment for DIY woodworkers and craftsmen.





		tw 45c	t 45c
Max. useful spindle length	mm	100	100
Max. tool diameter when profiling	mm	210	210
Max. tool diameter lowered under the table at 90°	mm	180	180
Max. tool diameter when tenoning	mm	275	-
Three-phase motors starting from	kW/Hz	5 (6) / 50 (60)	5 (6) / 50 (60)
Find the complete technical specification at page 16			







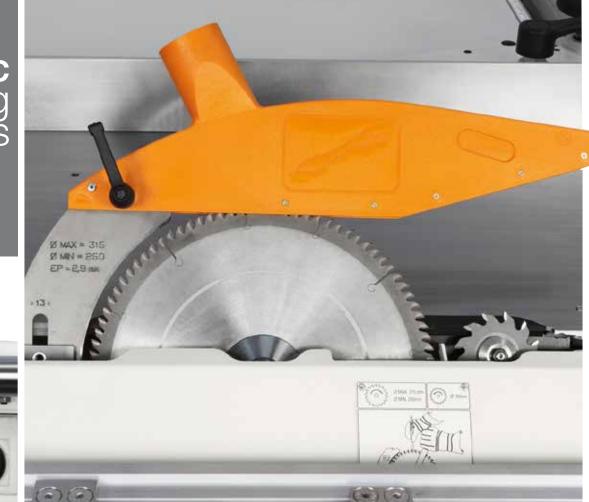


Spindle Moulder any type of machining

Frame SupportTable Extensionsoptimal supportoptimal support

Versatility and ease of use of the spindle moulders, ideal for DIY woodworkers and craftsmen.

# classic operating groups



performance without limits Saw Unit.

Incredible cutting of both very thick solid wood and panels, even those veneered, thanks to the new saw unit with a blade that has a maximum **diameter of 315 mm with the** scoring blade installed.

The new **scoring unit** can be supplied on request and **can easily be adjusted from outside the machine.** 

A clean machine environment facilitates maintenance avoiding mechanical breakdowns of the units and improving the machine's precision and reliability over time. Very high effective saw unit exhaust hood: the tests carried out by Scm's studies highlighted a **maximum dust emission level 90% lower with respect to the maximum level allowed by the European safety regulations!** 

Machining	Maximum value according
Strips cut	2/mg/m <sup>3</sup>

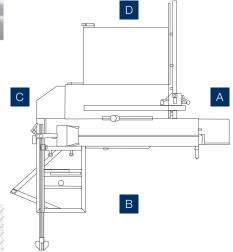
according to the CE norms	Pos
2 mg/m³	0.08

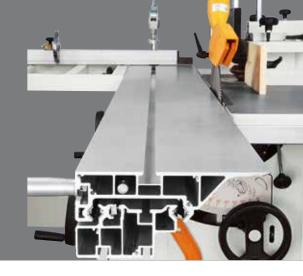
Position A 0.08 mg/m<sup>3</sup>



Position D

0.16 mg/m<sup>3</sup>





## exclusive

#### Sliding Table.

Easier and more precise cutting is possible due to a perfectly stable support that is guaranteed, even for large work pieces, by the **wide sliding table** and the **large squaring frame fence provided as standard. Top quality precision, smooth and silent action, self-cleaning dustproof system, long lasting accuracy, no adjustments required.** The sliding table is made of extruded anodized aluminum with a closed honeycomb structure. The sliding table runs on an exclusive slide way system consisting of calibrated and hardened F550 SX steel guides.

#### maximum performance as standard

#### Squaring Frame and Fence.

The sc 2c squaring frame (A) is complete with a telescopic fence with a retractable stop. The other classic machines (B) are equipped with a large squaring frame (960 x 600 mm) complete with:

- telescopic fence with 2 flip-over stops
- eccentric clamp
- telescopic swinging arm support





В

#### optimal planing Planer Cutter Block.

The planer unit in the standard version has a 72 mm diameter cutter block with 3 knives (the optional "Tersa" cutter block is available with quick tightening knives and automatic adjustment). For an impeccable result, the pressure of the thicknesser feed rollers can be adjusted according to the type of wood machined. The thicknesser infeed roller (A) **has helical toothing** to guarantee strong, constant work piece feed. In contrast, the sandblasted steel outfeed roller (B) maintains the perfect post-machining finish.

# classic operating groups

## absolute rigidity

#### Surfacing Fence.

Very high rigidity of the **fs 30c** and **fs 41c** surfacing fences made of extruded aluminum with respectively 1300 and 1670 mm length.

#### exceptional accessibility

#### Surfacing Tables Opening.

Thicknessing is more comfortable: during the changeover from surfacing to thicknessing the surfacing tables open towards the inside of the machine, with a 90° angle, and simultaneously. Work pieces with a maximum height of 230 mm can be machined to the thicknesser. The new design of the dust conveyor, protecting the cutter block, is specifically intended to further increase system safety and efficiency.

# professional and very sturdy **Spindle Moulder Unit.**

The unit has a cast iron structure. It is closed off by a cast iron "cup" to **protect mechanical components inside the machine** from sawdust, shavings and dirt. **Precise and safe machining** with the spindle moulder fence with micrometric adjustment complete with vertical and horizontal pressers.

· IIO

#### customisable for any requirement

#### Table Extensions and Frame Support.

On **t 45c**, the table extensions at outfeed and infeed and the telescopic front support with support rollers (options) make easier the machining of large dimensions work pieces.

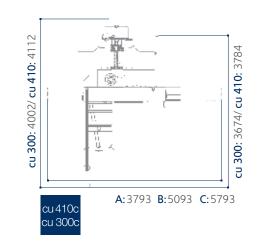
The 270 mm sliding table on tw 45c, provides a greater support, very useful also for tenoning. Precise cuttings, even for large work pieces, with the support frame (option) with telescopic fence.

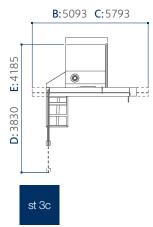


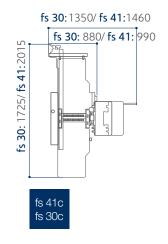
On request, it is available the 45° tilting spindle, toward the inside of the machine (for **st 3c** and **tw 45c** only).



# **classic** dimensions and technical data



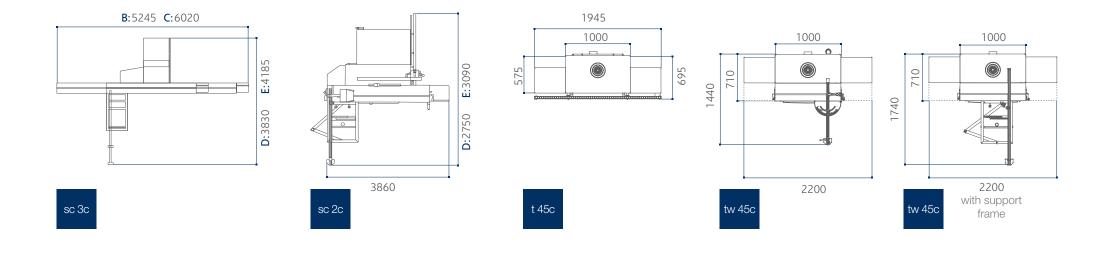




А	with wagon 1600 mm
В	with wagon 2250 mm
С	with wagon 2600 mm
D	with 900 mm cutting width*
Е	with 1270 mm cutting width*
*	at the parallel fence

		cu 410c	cu 300c
planer			
Working width	mm	410	300
Cutter block diameter (mm)/no. of standard knives	mm/n.	72/3	72/3
Dimensions of standard knives	mm	410 x 30 x 3	300 x 30 x 3
Max. stock removal	mm	4	4
Surfacing tables total length	mm	1800	1510
Thicknessing table dimensions	mm	410 x 605	300 x 585
Feed speed on thicknesser	m/min	7	7
Min. ÷ max. working height on thicknesser	mm	3 ÷ 230	3 ÷ 230
circular saw			
Cast iron saw-spindle moulder worktable dimensions	mm	1115 x 335	1115 x 335
Saw blade tilting		90° ÷ 45°	90° ÷ 45°
Max. saw blade diameter with scoring blade installed	mm	315	315
Max. saw blade projection from table at 90°/45°	mm	100 / 79	100/79
Squaring stroke	mm	1660 ÷ 2660	1660 ÷ 2660
Cutting width on parallel fence	mm	900	820
spindle moulder			
Max. useful spindle length	mm	100	100
Spindle moulder speed (at 50 Hz)	rpm	3500/7000/10.000	3500 / 7000 / 10.000
Max. tool diameter when profiling	mm	210	210
Max. diameter of tool lowered under the table at 90°	mm	180	180
Max. tool diameter when tenoning	mm	275	275
other technical features			
Three-phase motors 4 kW (5,5 hp) 50 Hz - 4,8 kW (6,5 hp) 60 Hz		-	-
Three-phase motors 5 kW (6,6 hp) 50 Hz - 6 kW (8 hp) 60 Hz		S	S
Single-phase motors 2,2 kW (3 hp) 50 Hz		0	0
Single-phase motors S1 3,6 kW (4,8 hp) 60 Hz		0	0
Exhaust outlets diameter	mm	120	120

S Standard O Option



st 3c	fs 41c	fs 30c	sc 3c	sc 2c	tw 45c	t 45c
-	410	300	-	-	-	
-	72/3	72/3	-	-	-	-
-	410 x 30 x 3	300 x 30 x 3		-	-	-
-	4	4	-	-	-	-
-	1800	1510	-	-	-	-
-	410 x 605	300 x 585	-	-	-	-
-	7	7	-	-	-	-
-	3 ÷ 230	3 ÷ 230	-	-	-	-
1115 x 430		-	840 x 560	1020 x 325	-	
90° ÷ 45°	-	-	90° ÷ 45°	90° ÷ 45°	-	-
315	-	-	315	315	-	-
100/79	-	-	100/79	100 / 79	-	-
1660 ÷ 2660	-	-	2310 ÷ 2660	1660	-	-
900 ÷ 1270	-	-	900 ÷ 1270	900 ÷ 1270	-	-
100					100	100
100	-	-	-	-	100	100
3500/7000/10.000	-	-	-	-	3500 / 7000 / 10.000	3500 / 7000 / 10.000
210	-	-	-	-	210	210
180	-	-	-	-	180	180
275	-	-	-	-	275	-
	S	S		S		
- C			-		-	- C
S	0	0	S	0	S	3
0	0	0	0	0	0	0
0	0	0	0	0	0	0
120	120	120	120	120	120	120

# **classic** main optional devices



For the support of large dimensioned panels.

# To rapidly perform mitre cuts without moving the squaring fence.



overhead blade protection For totally safe machining.

digital readout for the fence position on the parallel fence It allows precise positioning with the magnetic strip sensor.



For the saw and surfacing planer. Designed to be easy to remove and to allow a rapid changeover frome one type of



#### cast iron mortiser

Drilling holes and mortises are easily carried out. Complete with exhaust hood, 120 mm diameter and 16 mm chuck.

#### Self-centering chuck O-16 mm "Wescott" type The mortiser spindles can be rapidly substituted without the necessity of adjustment.

## "Xylent" spiralknife cutter block with 3 series of knives

The 3 spiralknives give an exceptional finish. Reduced noise during machining provides a more comfortable working environment. It also improves the dust extraction due to the production of very small chips. Each cutter has 4 tips which can be rotated into the cutting position when worn. Therefore increasing the production life of the cutter block before knives require replacement.





maintenance case for "Xylent" spiralknife Complete with:

- 1 cleaning/degreasing liquid bottle for the resins cleaning
- 1 set dynamometric key
- 2 bit Torx
- 10 inserts
- 5 screws
- 1 brass bristle brush to clean the spindle with mounted in inserts
- 1 steel bristle brush to clean the inserts housings



#### dado set

Mechanical presetting to use a tool (not included) in place of the main blade.

## Tersa" cutter block

Automatic knives clamping by means of the centrifugal force ensures safe and precise machining. The system, without fixing screws, makes knives substitution extremely fast.





three movement adjustable spindle moulder fence The spindle moulder fence can be easily removed and re-positioned without losing the working position, thanks to the memory system. The fence, besides, uses an adjustment system through rack and it has a mechanical readout. The maximum tool capacity during profiling is of 210 mm diameter.





В

### interchangeable spindle (A)

For a very quick spindle substitution. Among the spare spindle, it is available also the spindle for router bits. (B)

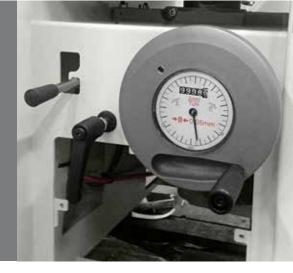
# tenoning table and protection hood

For the tenoning operations on the spindle moulder. It consists of: - table

- protection hood for tools, 275 mm diameter
- exhaust hood, 120 mm diameter



gravitational handwheel Handwheel with gravitational numerical readout for the thicknessing table positioning.



wheels for machine movement

electric pre-setting and flip over support for feeder This solution allows a total exclusion of the device and prevents interference with other parts of the machine.









	cu 410c	cu 300c	st 3c	fs 41c	fs 30c	sc 3c	sc 2c	tw 45c	t 45c
Angular cutting device with flip-over stops	0	0	0	-	-	0	0	-	-
Digital readout for the fence position on the parallel fence	-	-	0	-	-	0	0	-	-
Additional table on the sliding carriage	0	0	0	-	-	0	0	-	-
Overhead blade protection	-	-	0	-	-	0	0	-	-
Professional guides unit	0	0	-	-	-	-	-	-	-
"Tersa" cutter block	0	0	-	0	0	-	-	-	-
"Xylent" spiralknife cutter block with 3 series of knives	0	0	-	0	0	-	-	-	-
Maintenance case for "Xylent" spiralknife	0	0	-	0	0	-	-	-	-
Cast iron mortiser	0	0	-	0	0	-	-	-	-
Self-centering chuck 0-16 mm "Wescott" type	0	0	-	0	0	-	-	-	-
Three movement adjustable spindle moulder fence	-	-	-	-	-	-	-	0	0
Tenoning table and protection hood	0	0	0	-	-	-	-	0	-
Electric pre-setting and flip over support for feeder	0	0	0	-	-	-	-	0	-
Interchangeable spindle	0	0	0	-	-	-	-	0	0
Wheels for machine movement	0	0	0	0	0	-	-	-	-
Dado set	0	0	-	-	-	0	-	-	-
Gravitational handwheel	0	0	-	0	0	-	-	-	-

combined machine lab 300p

	lab 300p
Planer useful working width	mm 300
Total length of surfacing tables	mm 1300
Max. saw blade diameter with scoring blade installed	mm 315
Squaring stroke	mm 1660
Max. spindle length	mm 100
Three-phase motors starting from	kW/Hz 4 (4,8) / 50 (60)
Find the complete technical specification at page 25	



Saw Unit best cutting Spindel Moulder Surfacing Tables Lifting superior performances higher efficiency

Once there was the combined machine, now Minimax has defined the most advanced technological standards in terms of precision, reliability and safety.

# lab300p operating groups

#### higher efficiency Surfacing Tables Lifting.

During the changeover from surfacing to thicknessing the **surfacing tables open towards the inside of the machine with a 90° angle**, facilitating thicknessing. Work pieces with a maximum height of 220 mm can be machined to the thicknesser. The **new design of the dust-conveyor**, protecting the cutter block, is specifically intended to **further increase system safety and efficiency**.

# superior performances

**Spindle Moulder.** 

В

А

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The unit (A) has a spindle with a useful working length of 100 mm. A tool with a maximum diameter of 180 mm can be retracted under the worktable. For machine maximum safety and increased flexibility, a **spindle moulder protective hood for shaping (B) is supplied as standard.** 

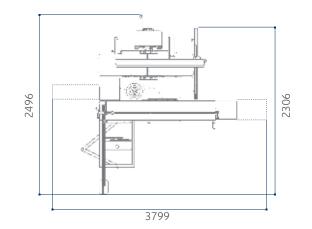


Easier, more precise cutting is possible thanks to perfectly stable support guaranteed, even for large work pieces, by the **270 mm wide sliding table.** 

#### best cutting Saw Unit.

New saw unit with a **blade that has a** maximum diameter of 315 mm with the scoring blade installed. The new scoring unit can be supplied on request and can easily be adjusted from outside the machine.





S Standard O Option

		lab 300p
		lab 300p
planer		200
Working width	mm	300
Cutter block diameter (mm)/no. of standard knives	mm/n.	72/3
Dimensions of standard knives	mm	300 x 30 x 3
Max. stock removal	mm	3
Surfacing tables total length	mm	1300
Thicknessing table dimensions	mm	300 x 450
Feed speed on thicknesser	m/min	7
Min. ÷ max. working height on thicknesser	mm	3 ÷ 220
circular saw		
Cast iron saw-spindle moulder worktable dimensions	mm	1020 x 325
Saw blade tilting		90° ÷ 45°
Max. saw blade diameter with scoring blade installed	mm	315
Max. saw blade projection from table at 90°/45°	mm	100/79
Squaring stroke	mm	1660
Cutting width on parallel fence	mm	800
spindle moulder		
Max. useful spindle length	mm	100
Spindle moulder speeds (at 50 Hz)	rpm	3500 / 7000 / 10.000
Max. tool diameter when profiling	mm	210
Max. diameter of tool lowered under the table at 90°	mm	180
Max. tool diameter when tenoning	mm	275
other technical features		
Three-phase motors 4 kW (5,5 hp) 50 Hz - 4,8 kW (6,5 hp) 60 Hz		S
Single-phase motors 2,2 kW (3 hp) 50 Hz		0
Single-phase motors S1 3,6 kW (4,8 hp) 60 Hz		0
Exhaust outlets diameter	mm	120

# lab 300p main optional devices

# tenoning table and protection hood

For the tenoning operations on the spindle moulder. It consists of:

- protection hood for tools,
- 275 mm diameter
- exhaust hood, 120 mm diameter



#### electric pre-setting and flip OVER SUPPORT for feeder This solution allows a total exclusion of the device and prevents interference with other parts of the machine.

angular cutting device with flip-over stops To rapidly perform mitre cuts without moving the squaring fence. Recommended for mitre cuts on small work pieces.







# professional

For the saw and surfacing planer. Designed to be easy to remove and to allow a rapid changeover frome one type of operation to onother.

"Tersa" cutter block Automatic knives clamping by means of the centrifugal force ensures safe and precise machining. The system, without fixing screws, makes knives substitution extremely fast.





Drilling holes and mortises are easily carried out. Complete with exhaust hood, 120 mm diameter and 16 mm chuck.



The 3 spiralknives give an exceptional finish. Reduced noise during machining provides a more comfortable working environment. It also improves the dust extraction due to the production of very small chips. Each cutter has 4 tips which can be rotated into the cutting position when worn. Therefore increasing the production life of the cutter

## maintenance case for "Xylent" spiralknife

Complete with:

- 1 cleaning/degreasing liquid bottle for the resins cleaning
- 1 set dynamometric key
- 2 bit Torx
- 10 inserts
- 5 screws
- 1 brass bristle brush to clean the spindle with mounted in inserts
- 1 steel bristle brush to clean the inserts housings

self-centering chuck 0-16 mm "Wescott" type The mortiser spindles can be rapidly substituted without the necessity of adjustment.



# wheels for machine movement



Handwheel with gravitational numerical readout for the thicknessing table



# PROMPT AND EXPERT TECHNICAL SUPPORT THROUGH **A NETWORK OF 1000 TECHNICIANS AND AN INVENTORY OF 36,000 SPARE PARTS.**

HIGHLY SPECIALISED TECHNICIANS, EFFICIENT MANAGEMENT AND 6 SPARE PARTS BRANCHES AROUND THE WORLD GUARANTEE A CLOSE, SAFE AND EFFECTIVE TECHNICAL SUPPORT.

#### SERVICE

SCM provides a service that goes beyond the purchase, to guarantee the long term performance of your technological production system and peace of mind for your business.

#### A COMPLETE RANGE OF AFTER-SALES SERVICES

- installation and start-up of machines, cells, lines and systems
- tailored training programs

**(Ascm**service

- telephone support to reduce times and costs when machines are not working
- preventive maintenance programs to guarantee long term performance
- complete renovation of machines and plants to renew the added value of the investments
- custom upgrading to update machines and plants and meet new production requirements

#### SPARE PARTS

SCM Group can count on 140 spare parts professionals worldwide to meet any request with real time shipments.

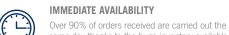
#### 36,000 SPARE PARTS Our spare parts inventor



#### SPARE PARTS GUARANTEED



We guarantee also hard to find parts, with 3,5 million euros invested in "critical" spare parts.



#### same day thanks to the huge inventory available.

#### 6 BRANCHES AROUND THE WORLD



The spare parts service can count on worldwide support (Rimini, Singapore, Shenzhen, Moscow, Atlanta, São Bento do Sul



**500 SHIPMENTS A DAY** 

## **Uscm**spareparts



# THE STRONGEST WOOD TECHNOLOGIES ARE IN OUR DNA

#### SCM. A HERITAGE OF SKILLS IN A UNIQUE BRAND

Over 65 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.

65 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 compared

# 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.





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.

Les

NDLES AND TECHNOLOGICAL ELE

**C**steelmec

**C**scmfonderie

CASTIRON



# ()scm

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