

**SINCE 1953 WE HAVE BEEN PRODUCING  
COLD-DRAWN AND GROUND-ROUND BARS  
IN CARBON STEEL AND ALLOY STEEL**

We are specialized in:

- Big dimensions ready on stock, also in free-cutting steel
- Steel bars with heat treatments after cold-drawing, suitable for racks manufacturing
- Round-edged square-or-flat cold-drawn steel bars
- Cold-drawn steel special sections according to Customer's drawing
- Narrow tolerances, both on ground and cold-drawn steel bars
- Non-standard sizes
- Bar lengths up to 8.5 meters
- Cut-to-length as precise as  $\pm 1$  mm
- On request also: S355J2, S275JR, 16/20MnCr5, 16NiCr4, 18NiCrMo5, 11SMn30/37



## COLD-DRAWN STEEL BARS

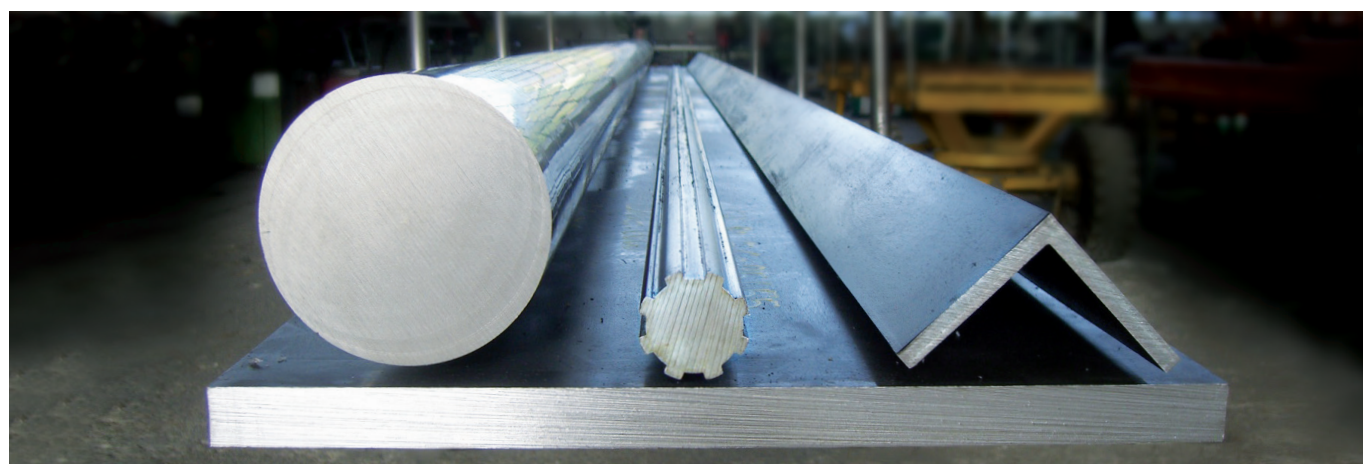
S235JR (ST 37, E24, ASTM A36) COLD-DRAWN STEEL BARS (+C) [EN 10277/2]			
SECTION	FROM	TO	MORE INFO
FLATS	4 x 2 mm	500 x 40 e 200 x 100 mm	milled over 80 mm thickness
SQUARES	3 x 3 mm	160 x 160 mm	milled over 120 x 120 mm
ROUNDS	2 mm	160 mm	also peeled-reeled over 30 mm
HEXAGONS	4 mm	100 mm	
ANGLES	10 x 10 x 2 mm	100 x 100 x 10 mm	
"L" SECTIONS	25 x 15 x 3 mm	100 x 50 x 10 mm	
"T" SECTIONS	20 x 25 x 5 mm	79 x 79 x 9 mm	

C 45 (CK 45, XC 48, ASTM A29 GRADE 1045) COLD-DRAWN STEEL BARS (+C) [EN 10277/2]			
SECTION	FROM	TO	MORE INFO
FLATS	8 x 7 mm	250 x 30 e 180 x 80 mm	milled over 80 mm thickness
SQUARES	5 x 5 mm	160 x 160 mm	milled over 120 x 120 mm
ROUNDS	2 mm	160 mm	also peeled-reeled over 30 mm
HEXAGONS	6 mm	100 mm	
SPLINED SHAFTS	14 x 11 mm	48 x 42 mm	

C 45 (CK 45, XC 48, ASTM A29 GRADE 1045) COLD-DRAWN STEEL BARS (+C) FOR FEATHER KEYS (DIN 6880) [EN 10277/2]			
SECTION	FROM	TO	MORE INFO
FLATS	8 x 7 mm	100 x 50 mm	h9 x h11 tolerance
SQUARES	5 x 5 mm	60 x 60 mm	h9 x h9 tolerance

39 NI CR MO 3 / 42 CR MO 4 HARDENED AND TEMPERED (+QT) COLD-DRAWN OR PEELED-REELED (+C/+SH) [EN 10233/4]			
SECTION	FROM	TO	MORE INFO
ROUNDS	8 mm	100 mm	

11 S MN PB 30 / 37 (FREE-CUTTING STEEL) COLD-DRAWN STEEL BARS (+C) [EN 10277/3]			
SECTION	FROM	TO	MORE INFO
FLATS	50 mm thickness	100 mm thickness	also milled
SQUARES	20 x 20 mm	160 x 160 mm	milled over 100 x 100 mm
HEXAGONS	65 mm	100 mm	



## COLD-DRAWN FLATS

WIDTH	THICKNESS																							
	2	3	4	5	6	7	8	10	12	14	15	16	18	20	25	30	35	40	50	60	70	80	100	
4																								
5																								
6																								
8							C																	
10							C		C															
12							C		C	C														
14																								
15									C	C	C													
16										C	C													
18										C	C													
20			C	C	C	C			C	C	C		C											
22																								
25			C	C	C	C			C	C	C	C	C		C	C								
30				C	C	C			C	C	C		C			C	C							
35				C	C	C			C	C	C		C			C	C	C						
40				C	C	C			C	C	C		C			C	C	C	C					
45					C				C	C			C			C	C	C						
50				C	C				C	C	C		C			C	C	C	C	C				
55									C				C			C	C		C					
60				C	C				C	C	C		C			C	C	C	C	C	C			
65													C			C								
70					C				C	C	C		C			C	C	C	C	C	C	C		
80									C	C	C		C			C	C	C		C	C	C		
90									C	C	C		C			C	C	C		C	C	C		
100					C				C	C	C		C			C	C	C		C	C	C	C	C
110									C													C	C	
120									C	C			C			C	C	C	C	C	C	C	C	C
130													C			C								
140										C						C			C	C	C			
150									C	C			C			C	C	C		C	C	C	C	C
160													C			C								
180													C			C							C	
200									C				C			C	C	C		C	C	C		
220																								
250																C	C	C						
300																								
350																								
400																								
450																								
500																								

Cold-drawn S235JR Steel (+C)

C Cold-drawn C45 and S235JR Steel (+C)

### COLD-DRAWN SQUARES (+C)

3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11  
12 - 13 - 14 - 15 - 16 - 17 - 18  
19 - 20 - 21 - 22 - 23 - 24 - 25  
26 - 27 - 28 - 30 - 32 - 34 - 35  
36 - 38 - 40 - 42 - 45 - 50 - 55  
60 - 65 - 70 - 75 - 80 - 85 - 90  
100 - 110 - 120 - 130 - 140  
150 - 160

### COLD-DRAWN HEXAGONS (+C)

4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12  
13 - 14 - 15 - 16 - 17 - 18 - 19  
20 - 21 - 22 - 23 - 24 - 25 - 27  
30 - 32 - 34 - 35 - 36 - 38 - 40  
41 - 42 - 45 - 50 - 55 - 60 - 65  
70 - 75 - 80 - 85 - 90 - 100

### COLD-DRAWN ROUNDS (+C) GROUND ROUNDS (+C+SL/+SH+SL)

2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11  
12 - 13 - 14 - 15 - 16 - 17 - 18  
19 - 20 - 21 - 22 - 23 - 24 - 25  
26 - 27 - 28 - 30 - 32 - 33 - 34  
35 - 36 - 37 - 38 - 40 - 42 - 45  
48 - 50 - 52 - 60 - 65 - 70 - 75  
80 - 85 - 90 - 95 - 100 - 105  
110 - 115 - 120 - 125 - 130  
140 - 150 - 160 - 180

### COLD-DRAWN FLATS FOR FEATHER KEYS (+C) (DIN 6880)

8x7 - 10x6 - 10x8 - 12x8 - 12x10 - 14x9 - 16x10 - 18x11 - 20x12 - 22x14 - 25x14 - 25x16 - 25x18 - 28x16  
32x16 - 32x18 - 36x20 - 40x25 - 45x25 - 50x28 - 56x32 - 63x32 - 70x36 - 80x40 - 90x45 - 100x50

### COLD-DRAWN SQUARES FOR FEATHER KEYS (+C) (DIN 6880)

5 - 6 - 7 - 8 - 10 - 12 - 15 - 16 - 20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60

### COLD-DRAWN ANGLES (+C)

10x10x2 - 12x12x2 - 12x12x3 - 15x15x2  
15x15x3 - 15x15x4 - 20x20x2 - 20x20x3  
20x20x4 - 20x20x5 - 25x25x2 - 25x25x3  
25x25x4 - 25x25x5 - 30x30x3 - 30x30x4  
30x30x5 - 35x35x3 - 35x35x4 - 35x35x5  
40x40x3 - 40x40x4 - 40x40x5 - 40x40x6  
45x45x4 - 45x45x5 - 45x45x6 - 50x50x4  
50x50x5 - 50x50x6 - 60x60x5 - 60x60x6  
70x70x8 - 70x70x10 - 80x80x8 - 80x80x10  
100x100x10

### COLD-DRAWN "L" SECTIONS (+C)

25x15x3 - 25x15x4 - 25x15x5 - 30x20x3  
30x20x4 - 30x20x5 - 40x20x4 - 40x20x5  
45x30x4 - 45x30x5 - 45x30x6 - 50x30x5  
50x30x6 - 60x30x5 - 60x30x6 - 60x40x5  
60x40x6 - 60x50x8 - 80x40x6 - 80x40x8  
100x50x10

### COLD-DRAWN "T" SECTIONS (+C)

20x25x5 - 22x30x5 - 25x25x3  
26x35x5 - 30x30x4 - 35x35x4  
38x38x5 - 40x40x4 - 45x45x5  
48x48x5 - 48x48x6 - 58x58x7  
79x79x9

### COLD-DRAWN SPLINED SHAFTS (+C)

14x11 - 16x13 - 20x16  
22x18 - 25x21 - 28x23  
30x26 - 32x26 - 38x32  
42x36 - 48x42  
  
1" 1/8 (28.52x23.65)  
1" 3/8 (34.87x28.14)  
1" 3/4 (44.37x36.25)

## GROUND-ROUND STEEL BARS

### C45 (CK 45, XC48, ASTM A29 GRADE 1045) GROUND STEEL BARS (+SL) [EN 10083]

SECTION	FROM	TO	MORE INFO
ROUNDS	2 mm	160 mm	up to h6 tolerance on request over 160 mm

### 39 NI CR MO 3 / 42 CR MO HARDENED AND TEMPERED ALLOY-STEEL BARS (+SL) [EN 10083]

SECTION	FROM	TO	MORE INFO
ROUNDS	6 mm	160 mm	on request over 160 mm

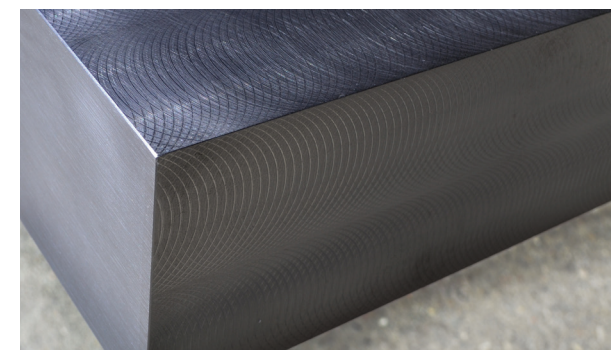
## COLD-DRAWN STEEL BARS FOR RACKS

We are able to offer steel bars with heat treatments after cold-drawing, including normalizing (+C +N) and annealing (+C +A). These treatments reduce most of the tensions coming from cold-drawing whenever it's important to maintain the straightness after the process, for example in the production of racks.



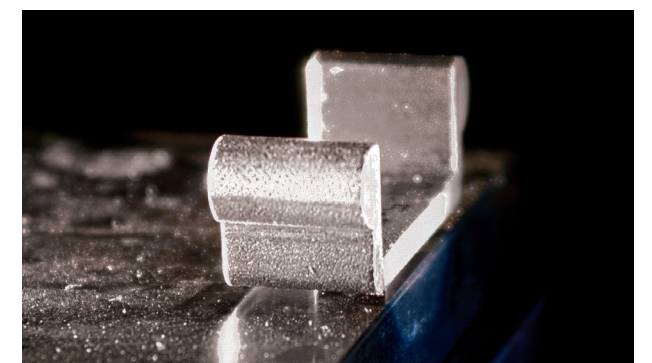
## MILLED STEEL BARS

Milling allows to obtain big dimensions and reduced surface defects for minimum quantity requests as well. Large sizes, especially in square section, are ready on stock.



## SPECIAL-SECTION COLD-DRAWN STEEL BARS

Special-section cold-drawn steel bars are manufactured according to Customer's drawing in pre-established minimum quantities (about 3000 kg). Compared to the application of standard cross-sections, they offer the following advantages: saving of labour cost, machine-hours or any investment in special machinery for manufacturing, reduction of waste, easier interchangeability of items.





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