CELSA™ GROUP

celsa barcelona

nervacero

global steel wire

celsa nordic

celsa hutaostrowiec

celsa steelUK

celsa france

celsa atlantic

CELSA GROUP

nervacero | global steel wire | celsa nordic | celsa hutaostrowiec | celsa steelUK | celsa france | celsa atlantic | CELSA GROUP | campesa mallacero

CELSA GROUP

global steel wire | celsa nordic | celsa hutaostrowiec | celsa steelUK | celsa france | celsa atlantic | CELSA GROUP campesa mallacero | CELSA GROUP celsa steelservice

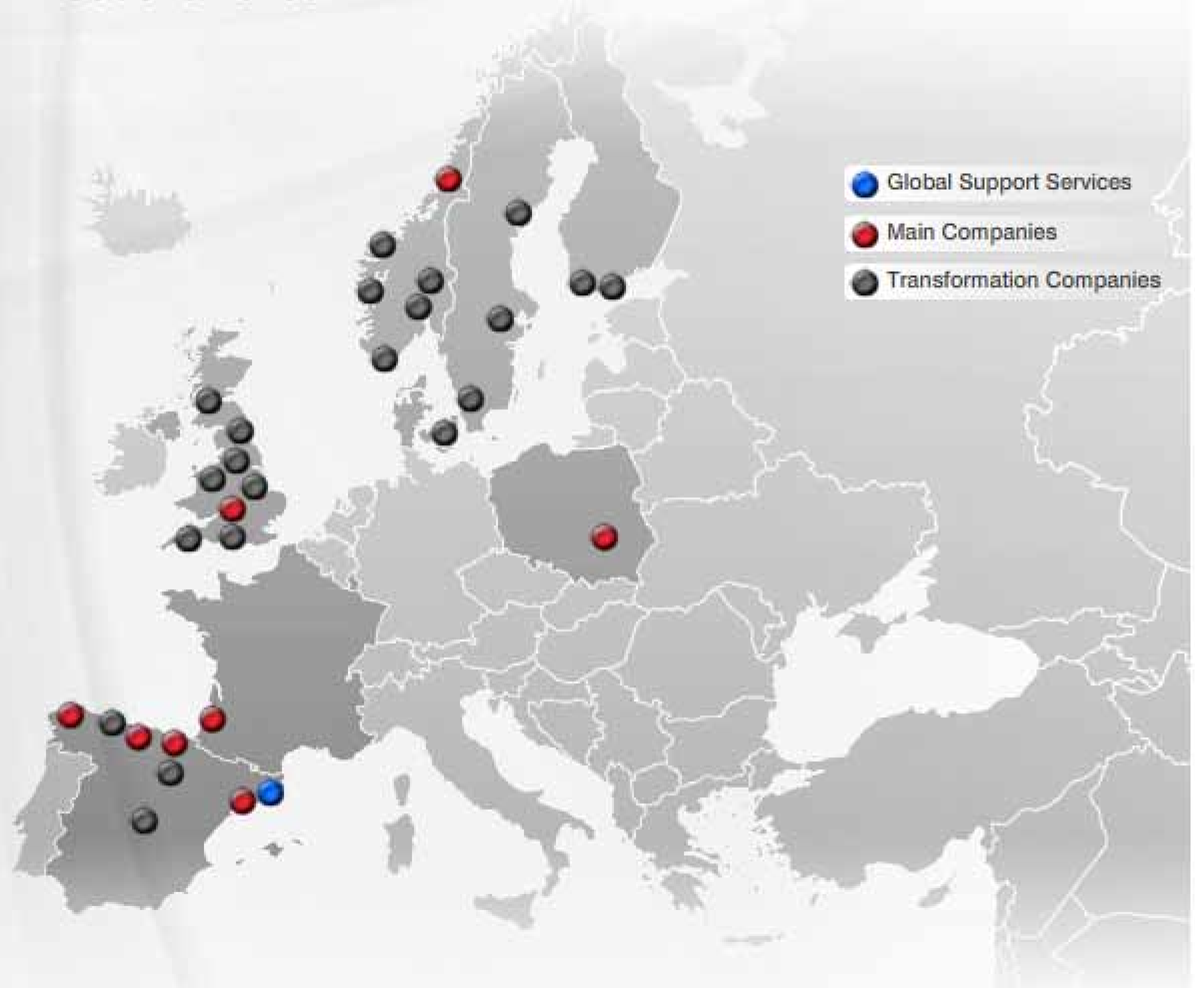
CELSA GROUP

celsa nordic | celsa hutaostrowiec | celsa steelUK | celsa france | celsa atlantic | CELSA GROUP campesa mallacero | CELSA GROUP celsa steelservice | CELSA GROUP


The biggest producer of rebar in coils worldwide

International Presence

Production sites

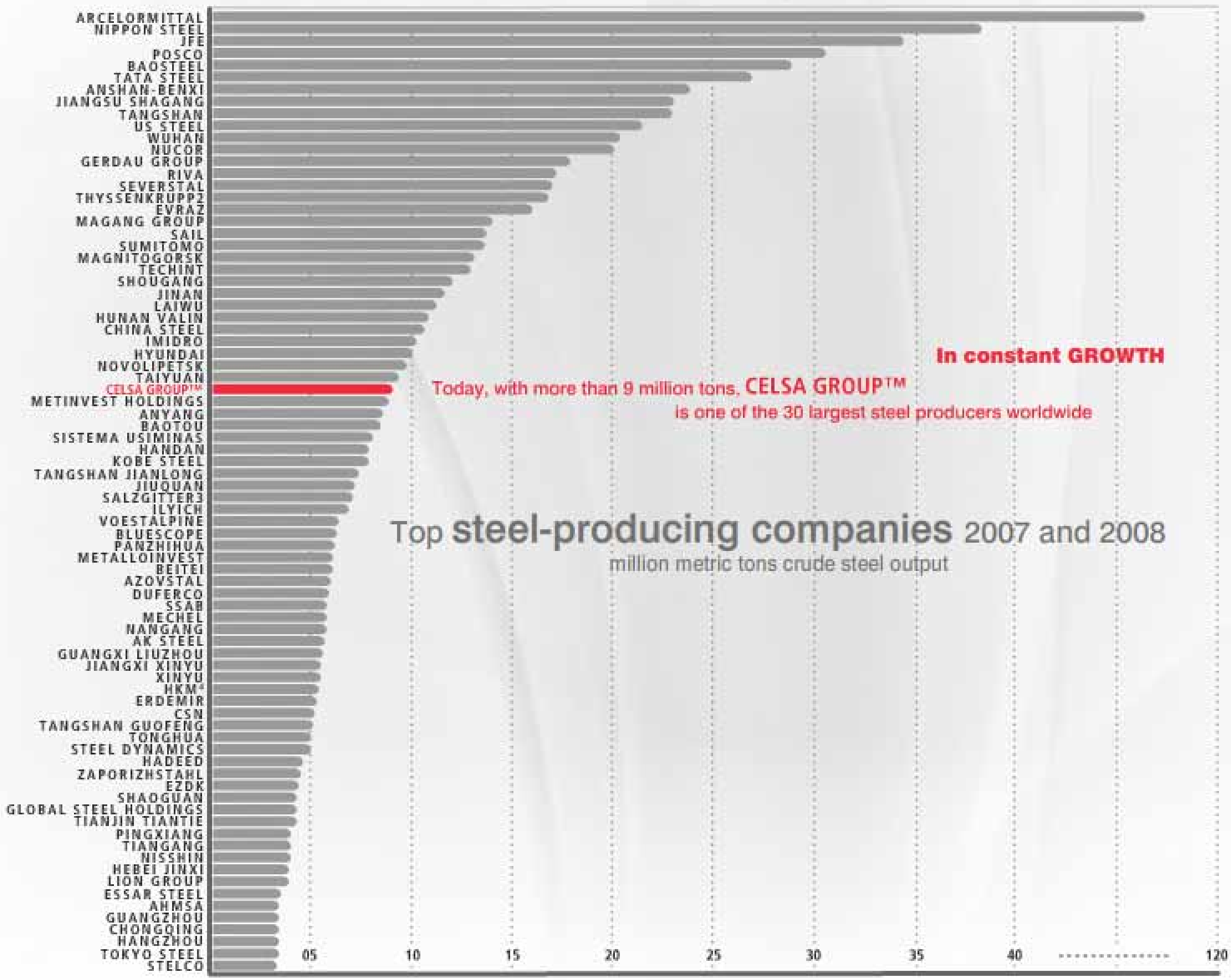


International Presence

Commercial Offices

Ranking

2008

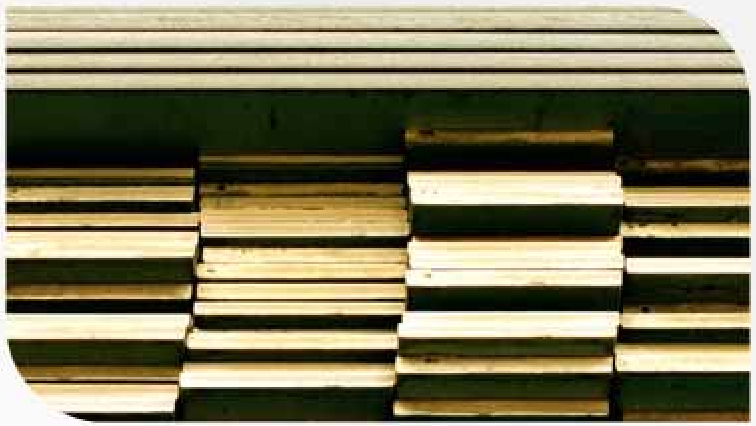


CELSA GROUP

in the global market

Celsa group is the largest producer of rebars in coils of the world

Celsa group is the largest producer of rebars in Europe

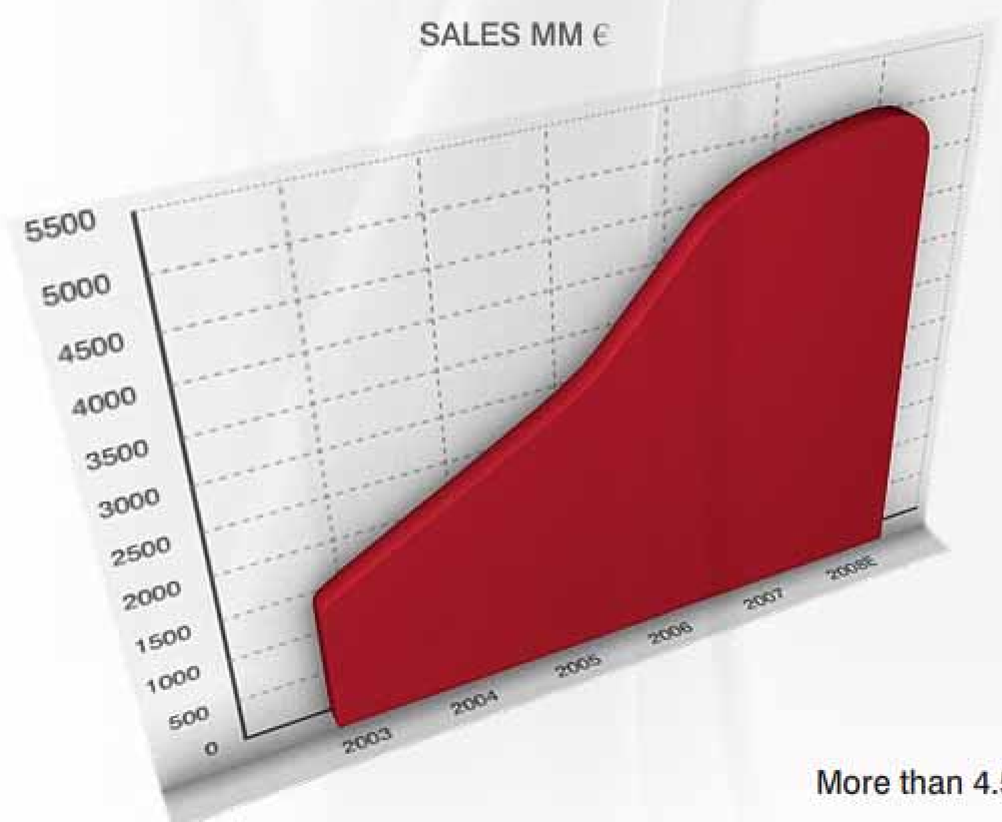


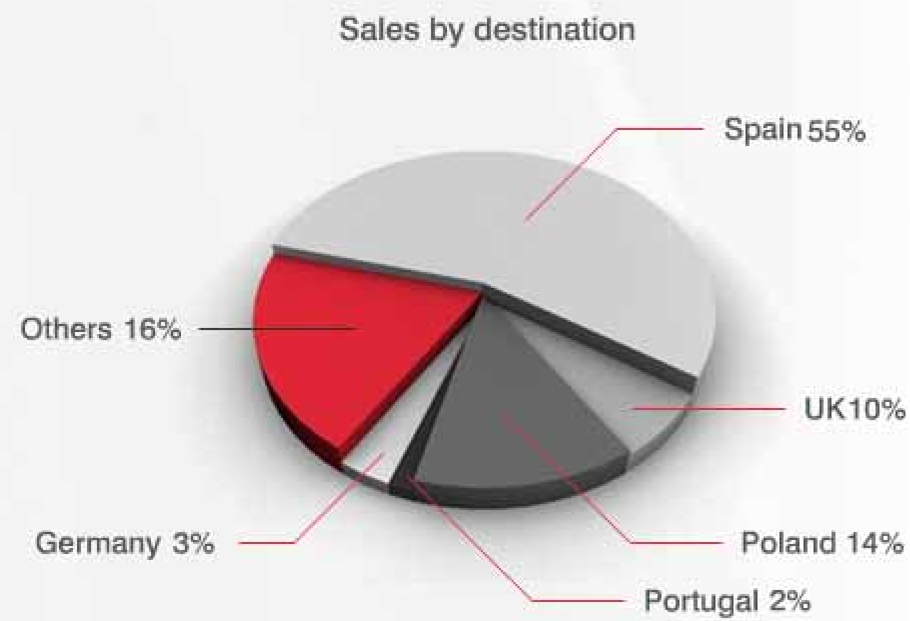
Celsa group is the second largest producer of merchant bars in Europe

Celsa group is the third largest producer of sections in Europe

CELSA GROUP in figures

Customer orientation

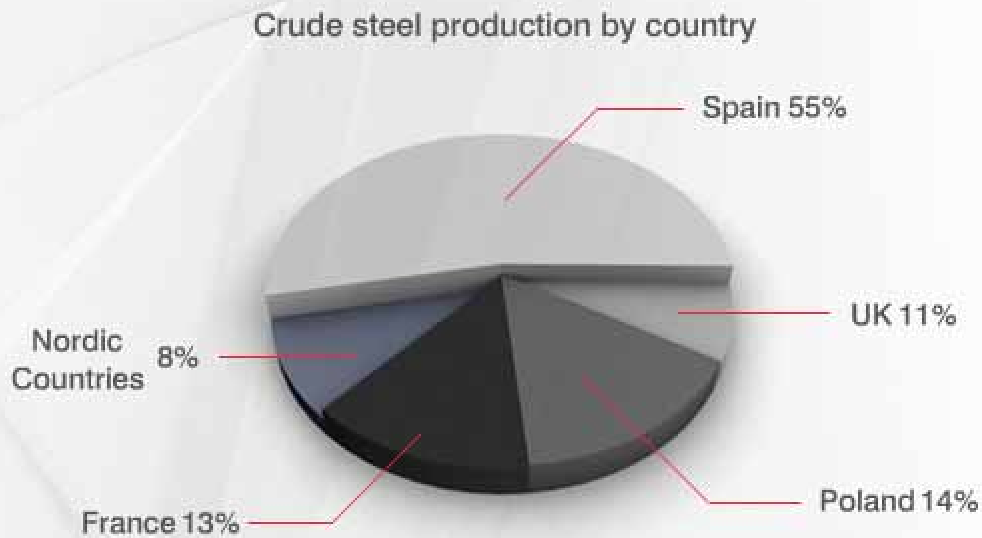




More than 4.500 customers

CELSA GROUP in figures

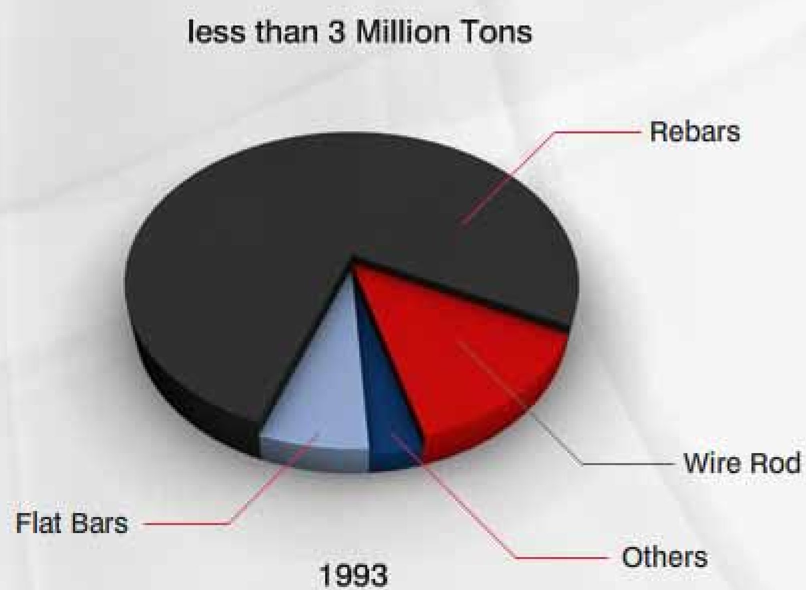
Geographic Diversification



Finished steel production in 8 countries, sales in more than 70 countries

CELSA GROUP in figures

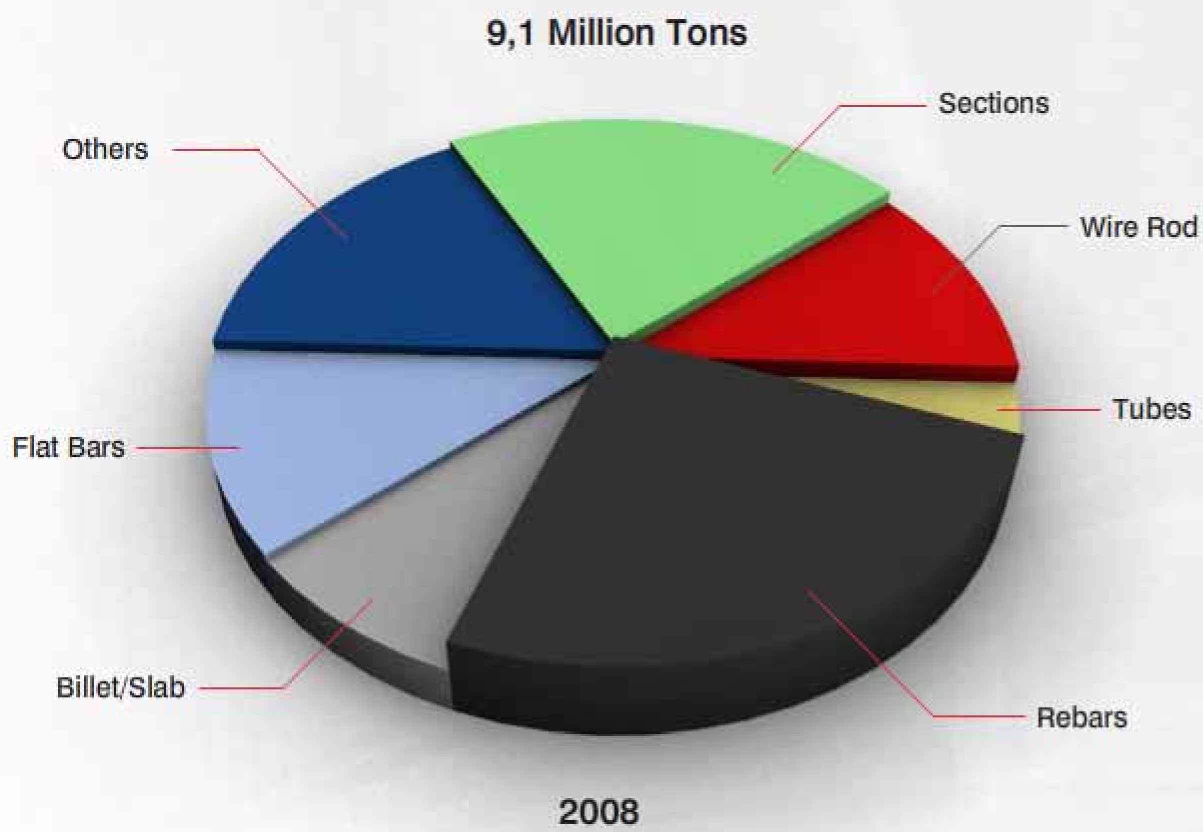
Product diversification

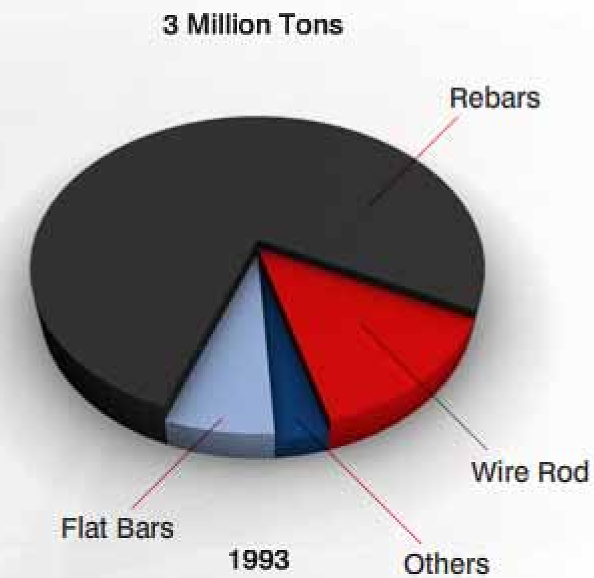


The most diversified European private steelmaking group

CELSA GROUP in figures

Product diversification





The most diversified European private steelmaking group

CELSA GROUP

Product range

HOT ROLLED STEEL PRODUCTS


Reinforcing bars


Structural sections


Merchant bars:
Flat and square bars

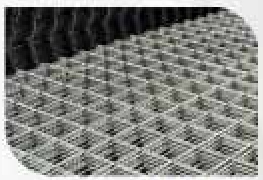

Angles

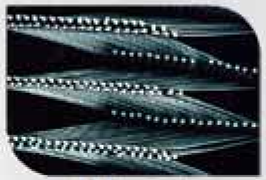

Plain round bars


Wire rod and wire

PROCESSED PRODUCTS


Tubing


Electro-welded mesh


Lattice Girders


Metal enclosures and fencing


Technical and
mattress springs


Hard steel by-products

FORGING


Vacuum-degassed
steel ingots


Main axles of
aero-generators


Formed crankshafts


Built-up crankshafts


Ship propeller shafts and
propulsion components


Forged parts according
to client specifications

CELSA GROUP

Rebar and Wire Rod range

CELSA SPAIN

Rebar in bars- diam 6-32 mm
Rebar in coils - diam 6 – 20 mm
Wire rod - diam 5,5 – 14

CELSA POLAND

Rebars in bars - diam 8-32 mm
Rebars in coils - diam 10-16 mm

CELSA NORDIC

Rebar in bars- diam 6-32 mm
Rebar in coils - diam 6 – 16 mm
Wire rod - diam 5,5 – 16

CELSA ATLANTIC

Rebar in bars – diam 8-32 mm
Rebar in coils – diam 8 – 16 mm
Wire rod - diam 5.5 – 13.5 mm

CELSA UK

Rebar in bars- diam 6-32 mm
Rebar in coils - diam 6 – 16 mm
Wire rod -diam 5,5 – 16

CELSA GROUP

stresses the importance of ductile reinforcing steels

All structures need ductility, as well as strength. In reinforced concrete, it is the reinforcing steel, which provides the structural element with ductility.

Ductility of the element is its ability to fail by deflection or extensive cracking in an overload situation, without sudden catastrophic collapse.

Ductility is a property of reinforcing steel that is essential in those applications in which structures are subject to unexpected forces (seismic, dynamic, impact etc).

It should never be forgotten that the ability to take a reinforced concrete element beyond linear elastic analysis is almost entirely due to the ductility of the steel reinforcement.

CELSA GROUP

CELSAMAX

The versatility and advantages of **ribbed steel coils** have led to an increased demand for them

Aware of this, the **CELSA GROUP** has decided to make even greater improvements,

as well as correcting some of the inherent problems in this type of product

To do this, it has developed a new geometry and is introducing

Spooler technology into its hot-rolling lines

The result is **CELSAMAX** the fruit of the

CELSA GROUP's commitment to innovation

and to its customers need

CELSA GROUP™

celsamax

+ EASE
of straightening and shaping thanks to the twist-free rolling process

+ PRODUCTIVITY
due to the notable increase in coil weight and increased decoiling speed

+ QUALITY
material with more constant and consistent characteristics, and guaranteed mechanical properties

+ DIAMETER
possibility of producing larger diameter corrugated sheet in rolls

+ SAFETY
during the decoiling process

+ CAPACITY
for stacking and storage thanks to superior weight, compactability and fill coefficient

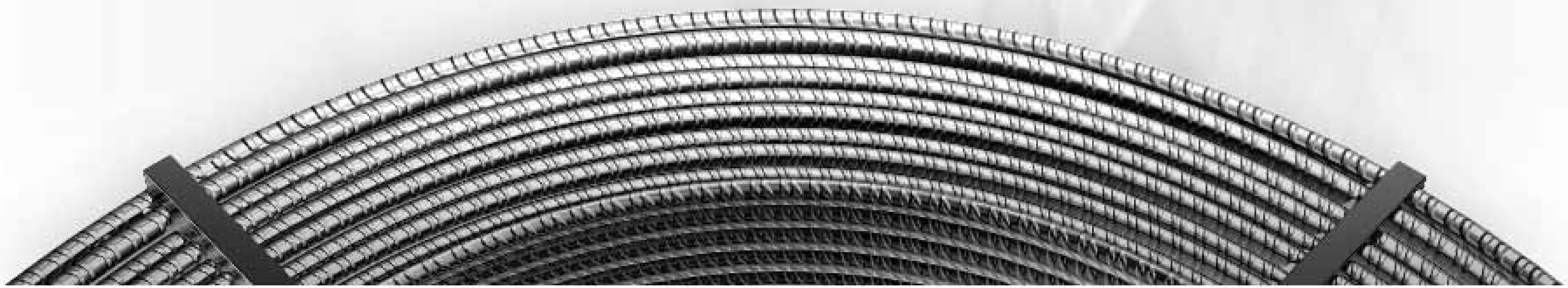
- TIME
for changing the coil on the straightening machine, for threading the end and for adjusting the machine during straightening of the coil

- COSTS
for handling, transport and storage

- WEAR
of the rollers of the processing machines used for manufacturing the rebar

- ALTERATION
of the rib height

- TOLERANCES
in the geometry of the roll



Rebar and Wire Rod range

Wire Rod range

Quality	Sizes (mm)		
K06-CE	5,5	6	6,5
	7	7,5	8
	8,5	9	9,5
	10	10,5	11
	11,5	12	12,5
	13	13,5	14
K06S-CE	5,5	6	6,5
	7	7,5	8
	8,5	9	9,5
	10	10,5	11
	11,5	12	12,5
	13	13,5	14
K06T-CE	5,5	6	6,5
	7	7,5	8
	8,5	9	9,5
	10	10,5	11
	11,5	12	12,5
	13	13,5	14
K-10E-CE	5,5		

Quality	Sizes (mm)		
K08L1-CE	5,5	6	6,5
	7	7,5	8
	8,5	9	9,5
	10	10,5	11
	11,5	12	12,5
	13	13,5	14
K08L1	Non-standardized sizes		
K08L2-CE	5,5	6	6,5
	7	7,5	8
	8,5	9	9,5
	10	10,5	11
	11,5	12	12,5
	13	13,5	14
K08L2	Non-standardized sizes		

Rebar

Sizes (mm)	Bar	Loose coil	Cold spooled coil	CELSAMAX
d6				
d8				
d10				
d12				
d16				
d20				
d25				
d32				

CELSA GROUP™

Structural sections

The CELSA GROUP™ produces a wide range of structural steel sections of types UPN, IPN, IPE, HEA and HEB, which are most widely used in Europe today.

From our plants in Spain (Celsa Barcelona), Poland (Celsa Huta Ostroviec) and the United Kingdom (Celsa UK) we supply the steel sections to our clients throughout Europe and beyond.

We offer these structural sections in the following qualities: S-235 JR, S-235 JRG2, S-235 JO, S-275 JR, S-275 JO, S-355 JR, S-355 JO, S-355 J2G3, St 37.2 and St 52.3.

In addition to supplying the sections in the usual lengths of 6, 10, 12, 14, 15, 16 and 18 metres, we also manufacture sections to order in any length from 5 to 24 metres.

CELSA GROUP

Structural sections

IPN	IPE / IPEA	UPN	HEB	HEM	HEA
IPN 80	IPE 80	UPN 80	HEB 100	HEM 100	HEA 100
IPN 100	IPE 100	UPN 100	HEB 120	HEM 120	HEA 120
IPN 120	IPE 120	UPN 120	HEB 140	HEM 140	HEA 140
IPN 140	IPE 140	UPN 140	HEB 160	HEM 160	HEA 160
IPN 160	IPE 160	UPN 160	HEB 180	HEM 180	HEA 180
IPN 180	IPE 180	UPN 180	HEB 200	HEM 200	HEA 200
IPN 200	IPE 200	UPN 200	HEB 220	HEM 220	HEA 220
IPN 220	IPE 220	UPN 220	HEB 240	HEM 240	HEA 240
IPN 240	IPE 240	UPN 240	HEB 260	HEM 260	HEA 260
IPN 260	IPE 270	UPN 260	HEB 280	HEM 280	HEA 280
IPN 280	IPE 300	UPN 280	HEB 300	HEM 300	HEA 300
IPN 300	IPE 330	UPN 300	HEB 320	HEM 320	HEA 320
IPN 320	IPE 360	UPN 320	HEB 340	HEM 340	HEA 340
IPN 340	IPE 400	UPN 350	HEB 360	HEM 360	HEA 360
IPN 360	IPE 450	UPN 380	HEB 400	HEM 400	HEA 400
IPN 380	IPE 500	UPN 400			
IPN 400	IPE 550				
IPN 450	IPE 600				
IPN 500					
IPN 550					
IPN 600					

Structural sections

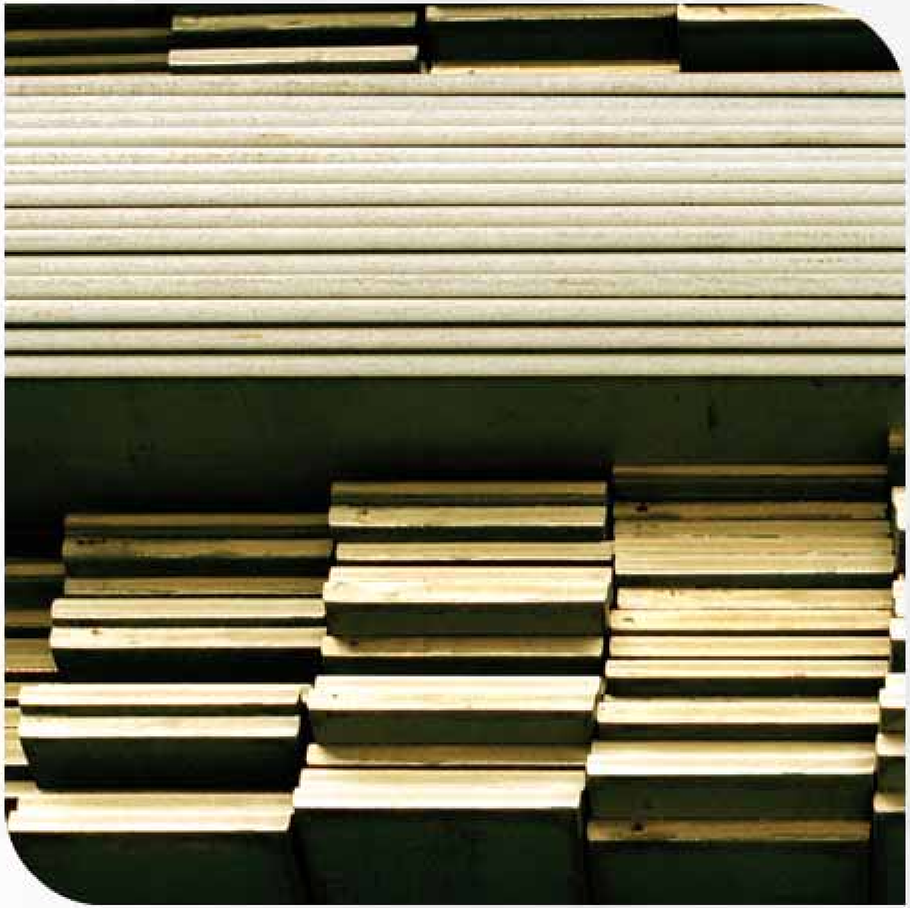
COLUMNS
152x152
203x203
254x254

BEAMS
457x191
203x133
254x102
254x146
305x102
305x165
356x127
356x171
406x140
406x178
457x152

CHANNELS
180x90
200x75
200x90
230x75
230x90
260x75
260x90
300x90
300x100
380x100
430x100

W F B ASTM-992				
W4X4X13			W12X8X50	W16X7X36
	W8X8X31	W10X10X49		W16X7X40
W5X5X16	W8X8X35	W10X10X54	W12X10X53	W16X7X45
W5X5X19	W8X8X40	W10X10X60	W12X10X58	W16X7X50
		W10X10X68		W16X7X57
W6X4X12	W8X8X48	W10X10X77	W14X5X22	
W6X4X16	W8X8X58	W10X10X88	W14X5X26	W16X10.25.67
	W8X8X67	W10X10X100		W16X10.25X77
W6X6X15		W10X10X112	W14X6.75X30	W16X10.25X89
W6X6X20	W10X4X12		W14X6.75X34	W16X10.25X100
W6X6X25	W10X4X15	W12X4X14	W14X6.75X38	
	W10X4X17	W12X4X16		W18X6X35
W8X4X10	W10X4X19	W12X4X19	W14X10X61	W18X6X40
W8X4X13		W12X4X22	W14X10X68	W18X6X46
W8X4X15	W10X5.75X22			
	W10X5.75X26	W12X6.5X26	W14X10X74	W18X7.5X50
W8X5.25X18	W10X5.75X30	W12X6.5X30	W14X10X82	W18X7.5X55
W8X5.25X21		W12X6.5X35		W18X7.5X60
	W10X8X33		W16X5.5X26	W18X7.5X65
W8X6.5X28	W10X8X39	W12X8X40	W16X5.5X31	
W8X6.5X28	W10X8X45	W12X8X45		W18X7.7X71

Merchant bars
Flat and square bars



The square or rectangular sectioned flat bars, have a myriad of applications in very diverse sectors such as that of vehicles, forges, calibration, shipbuilding, construction, agriculture, mining, etc.

From our plants in Spain (Celsa Barcelona), Poland (Celsa Huta Ostroviec) and the United Kingdom (Celsa UK) we supply the flats and square bars to our clients throughout Europe and beyond.

The CELSA GROUP™ manufactures its flats and squares in many qualities, the most usual of which are S-275 JR, S-355 JO, S-355 J2 and C45(F 1140).

The range offered by the CELSA GROUP™ is a very extensive one:

* Flat bars: From 14x3mm to 400x40mm.
* Square bars: From 10mm up to 50 mm square.

CELSA GROUP™

Merchant bars

FLAT BARS															
Width mm	Thickness mm														
	3	4	5	6	7	8	10	12	14	15	16	20	25	30	40
14															
16															
18															
20															
25															
30															
35															
40															
45															
50															
60															
70															
80															
90															
100															
110															
120															
130															
140															
150															
160															
180															
200															

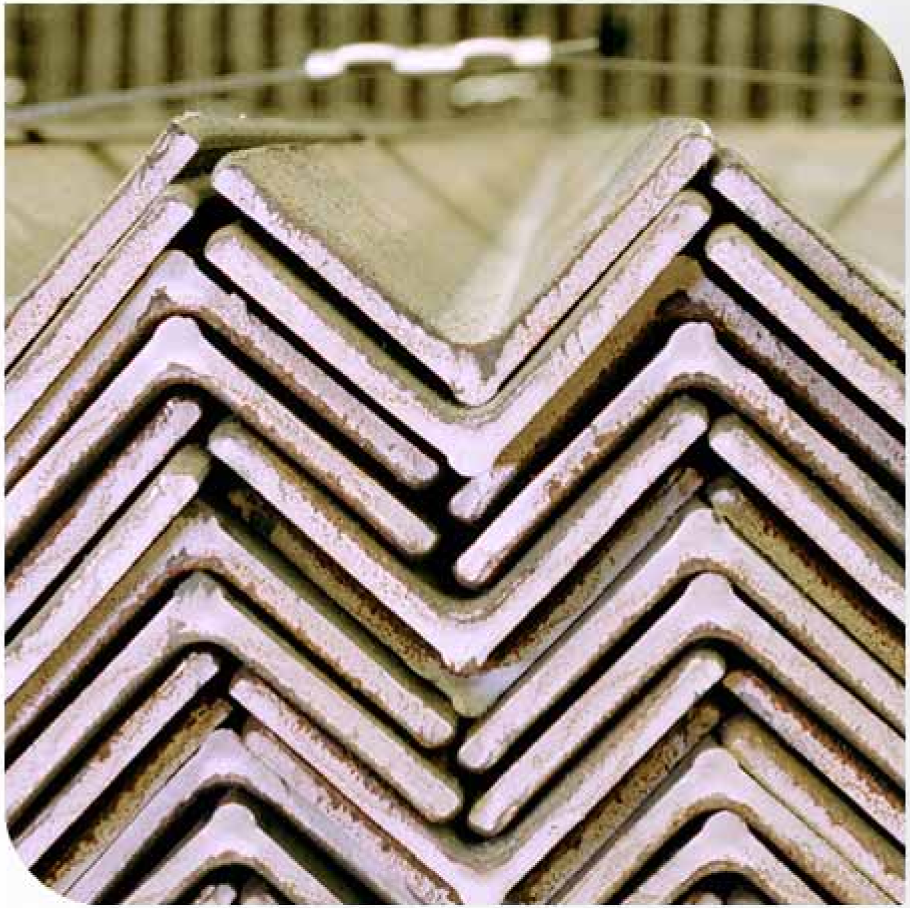
QUALITY
FLAT BARS / WIDE FLATS / SQUARE BARS
S-275-JR/JO/J2
S-355-JR/JO/J2
C45
SAE 1018

LENGHT
5,2 m < LENGHT < 15 m

WIDE FLATS										
Width mm	Thickness mm									
	8	10	12	14	15	16	20	25	30	40
200										
220										
250										
300										
350										
400										

SQUARE BARS												
mm	10	12	14	16	18	20	25	30	35	40	45	50

Angles



Angles are bars whose cross-section forms a right angle, for which the applications are numerous. One of largest applications is its use as a structural element in the construction of electricity pylons.

The standard range of our angles ranges from 25x3 up to 200x24, although we also offer lighter angles in the most commonly used sizes. We also offer our clients the possibility of manufacturing them in other sizes to order.

The CELSA GROUP™ manufactures its angles in several qualities, the most common of which are S-275 JR, S-355 JO and S-355 J2.

CELSA GROUP™

Angles

ANGLES													
SIZE mm	THICKNESS mm												
	4	4,5	5	6	7	8	9	10	11	12	13	14	15
40x40	●												
45x45	●	●	●										
50x50	●		●										
60x60			●	●									
70x70			●	●	●								
80x80				●	●	●							
90x90					●	●	●						
100x100						●	●	●					
110x110						●		●				●	●
120x120						●	●	●	●	●			●

ANGLES
150x150x10
150x150x12
150x150x14
150x150x15
150x150x16
150x150x18
180x180x15
180x180x16
180x180x18
200x200x16
200x200x18
200x200x20

EQUAL ANGLES										
SIZE mm	5		6		8		10		12	
	6M	12M	6M	12M	6M	12M	6M	12M	6M	12M
50x50	●	●	●	●	●	●				
60x60			●	●	●	●	●	●		
70x70			●	●	●	●	●	●		
80x80			●	●	●	●	●	●		
90x90			●	●	●	●	●	●		
100x100					●	●	●	●	●	●
120x120					●	●	●	●	●	●

QUALITY
ANGLE / STRUCTURAL ANGLES
S-275-JR/JO/J2
S-355-JR/JO/J2

EQUAL ANGLES										
SIZE mm	6		7		8		10		12	
	6M	12M	6M	12M	6M	12M	6M	12M	6M	12M
75x50	●	●			●	●	●	●		
100x65			●	●	●	●	●	●		
100x75					●	●	●	●	●	●
125x75					●	●	●	●	●	●

STRUCTURAL ANGLES										
SIZE mm	THICKNESS mm									
	10	11	12	13	14	15	16	18	20	24
130x130	●		●		●		●			
150x150	●		●	●	●	●	●	●		
180x180						●	●	●	●	
200x200							●	●	●	●

Plain round bars

The CELSA GROUP™ offers its clients a range of plain round bars from a diameter of 10 mm up to 82mm, destined to construction, forging, stamping, machining and calibration.

There are several qualities in which the Group manufactures plain round bars, depending on their use and application:

Low Carbon: S235JR, S275JR, SAE 1018, S355JO / J2 and alloys with Bismuth and Selenium.

Medium Carbon: C35, C45, C50

High Carbon: C75

Easy machinable steel types: 11SMn30/37 y 11SMnPb30/37

To order: Alloys, Micro-Alloys 18CrMo4, 42CrMo4, 16MnCrS5, 41Cr4 etc.

In addition, within our manufacturing processes we have a levelling line, cut to measure, scarfing machines and detection of the bars in order to offer the maximum guarantee of quality.

Product sustainability

Steel is one of the most recyclable and recycled materials in the world. It can be recycled continuously without losing its properties and, given its magnetic properties, it can be easily recovered for recycling.

There are currently two technologies for producing steel: that used in blast furnace plants which utilises iron ore, and that used in electric furnaces which recycles steel scrap metal and is therefore more environmentally-friendly.

At the CELSA GROUP™, we manufacture steel exclusively in electric arc furnaces, using scrap metal as the raw material for 100% of our products.

Thanks to the vertical integration of the Group, we cover the entire steel recycling cycle, from the separation and recovery of the scrap metal, to its transformation once again into steel products.

Thus, the CELSA GROUP™ contributes significantly to the preservation of the environment:

* By using the most sustainable steel production technology,
* By recycling steel products at the end of their life cycle,
* By recovering the waste from manufacturing processes that use steel as their raw material, and
* By manufacturing totally recyclable products.

All the products produced by the CELSA GROUP™ are manufactured from recycled steel scrap metal and they are 100% recyclable.

Did you know...

The Oresund Bridge

On 12th June 2000, 79,871 runners completed a half marathon between the cities of Amager (Denmark) and Escania (Sweden). On 1st July 2000, ahead of the envisaged completion date, the bridge that was to be deemed the most emblematic engineering feat of the 20th century was opened to traffic. The Oresund Bridge links the cities of Malmö and Copenhagen.

Designed by the architect Georg Rotne, its construction began in 1996. Its total length is almost 8 km; the suspended deck is more than a kilometre long and it is secured to the pillars by 2,300 tonnes of galvanised strand, plastified and surface treated steel cables supplied by TYCSA PSC, whose headquarters are based in Santander (Spain)

Did you know...

AVE (Spanish High Speed Train)

By the year 2020, Spain intends to have 10,000 km of high speed train lines.

MOREDA RIVIERE TREFILERÍAS supplied 60% of the fences enclosing the tracks of the current High Speed Train line.

More than 4,000km of Spanish motorways and highways are protected with simple twist mesh and knotted mesh manufactured in our facilities in Gijón (Asturias-Spain) and in Cerdanyola del Vallès (Barcelona-Spain)

Did you know...

Terminal 4 Barajas airport

4,762 tonnes of bi-directional mesh of small diameters -Ø5, 6, 8, 10 and 12mm - form the ground-bearing and suspended floor slabs for the main building in the new Terminal of Madrid's Barajas airport.

3,828 tonnes of bi-directional mesh, with an average diameter of 10mm, and a unidirectional mesh with 16mm diameter primary and 12mm diameter secondary reinforcement, formed the foundations, ground-bearing and suspended floor slabs of the Satellite Building of Terminal 4 at Barajas, Madrid

1,153 tonnes of reinforcement are in the concrete ground-bearing slabs, with bidirectional mesh, in both faces, with an average diameter of 10mm, and the two-way spanning slabs, reinforced on the top layer with bidirectional mesh with an average diameter of 8mm, that form the parking buildings of Terminal 4 at Barajas, Madrid

We manufacture these meshes at the plants in Illescas (Toledo-Spain) and L'Arboç (Tarragona-Spain) belonging to the company ACEROS PARA LA CONSTRUCCIÓN, S.A.


CELSA GROUP
Thank you...