



# United Cast Bar Limited

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UCB Ferrocast Limited	0044 1246 269293	0044 1246 269373
UCB Austria GmbH	0043 3136 53029	0043 3136 53029-28
UCB Sweden	0046 15533150	0046 15533130
UCB Cast Profil France S.A	0033 472247979	0033 472247335
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UCB Turkey	0090 212 603 11 25	0090 212 603 11 24
UCB Gulf	00971 4 870 4470	00971 4 870 4471

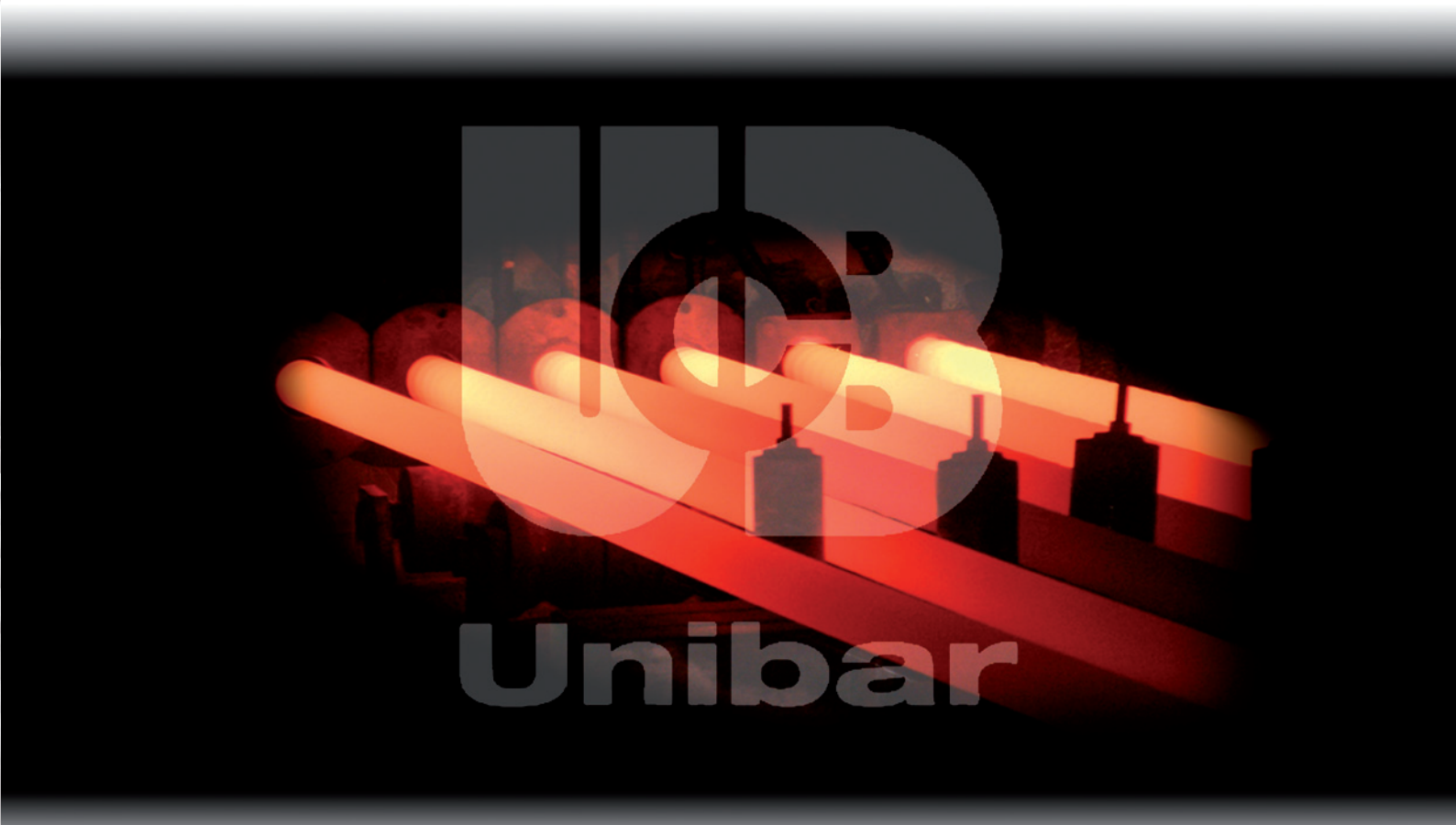
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## United Cast Bar Limited

Continuous Cast Iron



WWW.UNITEDCASTBAR.COM



**UNITED CAST BAR GROUP** of companies is the worlds leading and most successful manufacturer and supplier of continuously cast iron in theWorld, it incorporates more than 120 years of cumulative experience and expertise in the engineering of continuously cast iron. For over thirty years, each of our Production Centres have been independently and together developing a wide range of technical processes and solutions, and extensive sales networks. These have been consolidated into our "Best Practice" guidelines, which has resulted in our trademark Unibar, a completely homogenous product that can boast the best manufacturing processes, quality controls and technical developments in the industry.

## SUPPLY

United Cast Bar have developed a network of distribution/service centres strategically placed to meet our philosophy of **GLOBAL REACH WITH LOCAL PRESENCE**

These centres of excellence are continuously evolving to satisfy the ever increasing demands and changes made by the market place and customers.

## APPLICATIONS

UNIBAR is extremely suitable for those applications whose geometry is close to our standard sections. However, UNIBAR can be produced in a multitude of forms to meet customer design and requirements. Below are examples of applications and markets that are currently using UNIBAR products to their advantage.

### • Hydraulics & Pneumatics

- Fluid Power: Pumps & Compressors
- Machinery & Machine Tools
- Glass Manufacturing
- Oil & Gas Equipment
- Automotive Industry
- Steel plant & Equipment
- Renewable energy: Wind Turbines, Wave and Solar Power

## Unibar Grades

Grey or Flake	Modular	Ni Resist
Unibar 200 (GG20) (GJL-200)	Unibar 400-15 (GGG40) (GJS 400-15)	Unibar NR-F
Unibar 250 (GG25) (GJL-250)	Unibar 500-7 (GGG50) (GJS 500-7)	Unibar NR-S
Unibar 300 (GG30) (GJL-300)	Unibar 500+ (GJS 400-15/GJS 500-7)	
Unibar 350 (GG35) (GJL-350)	Unibar 600-3 (GGG60) (GJS 600-3)	
Unibar GF	Unibar 700-2 (GGG70) (GJS 700-2)	
Unibar GP	Unibar ADI	
Unibar GFMV		

UCB can also offer grades for Rotor, low temperature and ADI applications, along with special grades to meet customer specifications on chemical analysis and mechanical properties. For more information contact UCB distributors or Head office.

## Unibar Profile and Size Range

<b>Round</b>	25mm - 635mm + diameter
<b>Square</b>	Up to 520 mm x 520mm +
<b>Rectangle</b>	Unibar is produced in a wide range of combinations, in height and width, up to 650mm x 510mm, other sizes to customer requirements, can also be considered after consultation.
<b>Ingots</b>	Up to 900mm diameter x 1.2 metre long (proof machined).
<b>Ingot Blocks</b>	Up to 550mm x 500mm x 1400mm long (proof machined).
<b>Standard Length</b>	Continuously Cast Bar 3 Metres (other lengths available upon request)
<b>Supply condition</b>	As-cast, turned and peeled (Rounds). As-cast milled (proof machined)and saw cut (rectangles and squares)
<b>Non Standard</b>	Sizes/shapes to customer design available on special order and subject to discussion

## Unibar - Advantages

**Unibar** offer significant advantages over and above other conventional materials and production methods currently used.

(The figures quoted are based on information obtained from customers and supplier trials. The following table gives a view of improvements achieved.)

### Significantly improved machinability against other materials and processes

1. Machining feeds and speeds by 35-50%.
2. Improved Tool (insert) life by up to 60%.
3. Reduced torque therefore power requirements reduced by up to 50%.

- ◆ Improved dimensional stability.
- ◆ Excellent damping properties.
- ◆ Improved wear, corrosion resistant along with self lubrication.
- ◆ 10% lighter than comparative steel products.
- ◆ Freedom from usual defect associated with other production methods and materials.

- ◆ Strength and ductility of Unibar is comparable to some steels.
- ◆ Low residual stress, a product, of the Unibar process.
- ◆ Elimination of costly patterns and dies, no restriction or design changes. Unibar Grades.