

Hilden Metal



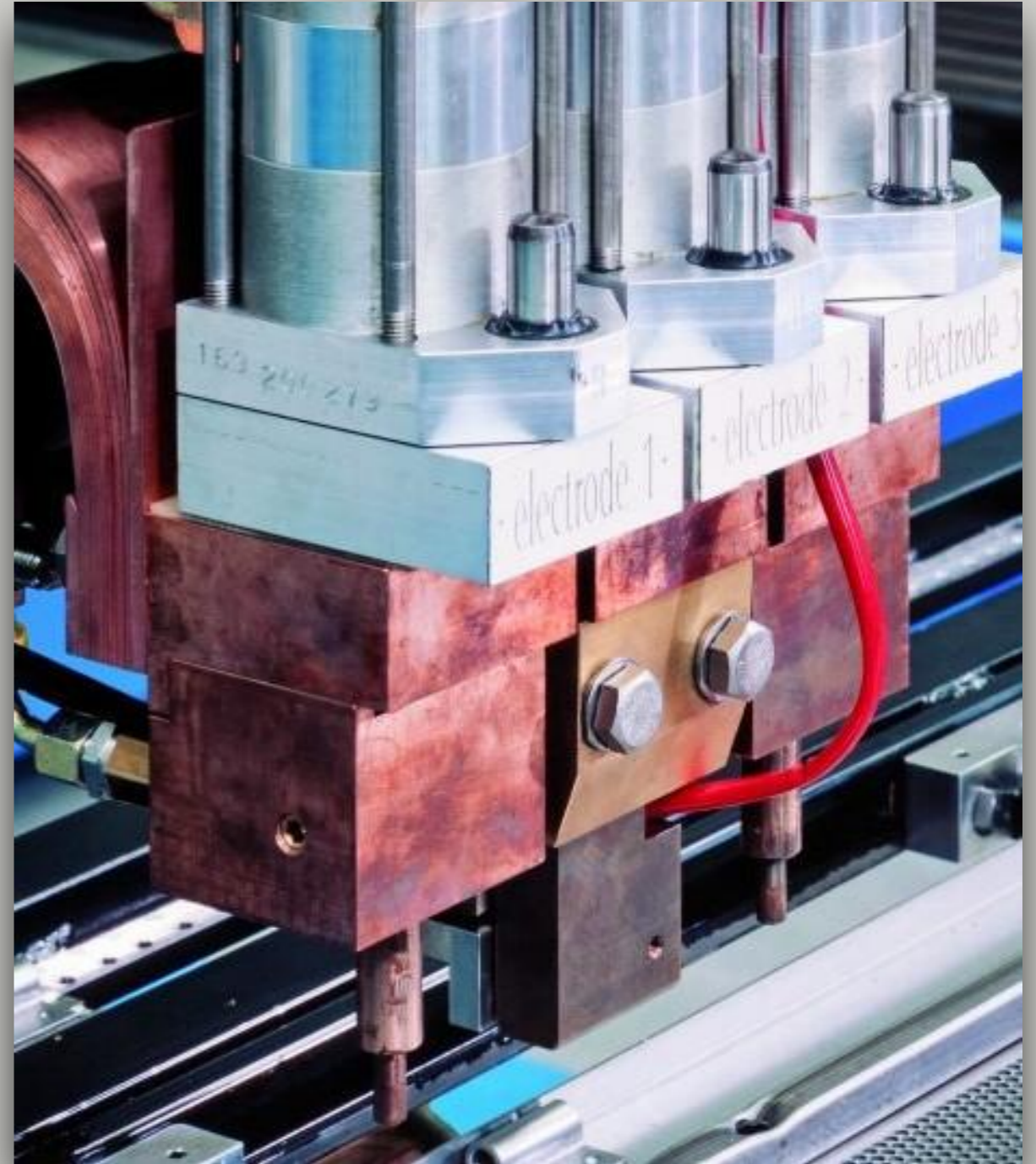
*Resistance Welding Consumables
Copper and Bronze Alloy Stocks*

About Us

Hilden Metal is located in Nordrhein-Westfalen which is the capital of German industries.

In Hilden Metal, we are committed to providing the finest certified aluminum and copper based alloy castings with superior customer service and on time deliveries. We serve a wide range of customers from all types of industries. We have the biggest stock of copper alloys, aluminum bronzes and consumables for resistance welding and general industry. We can also manufacture Tailor made products according to your drawings.

We are a Local company with Global Reach.



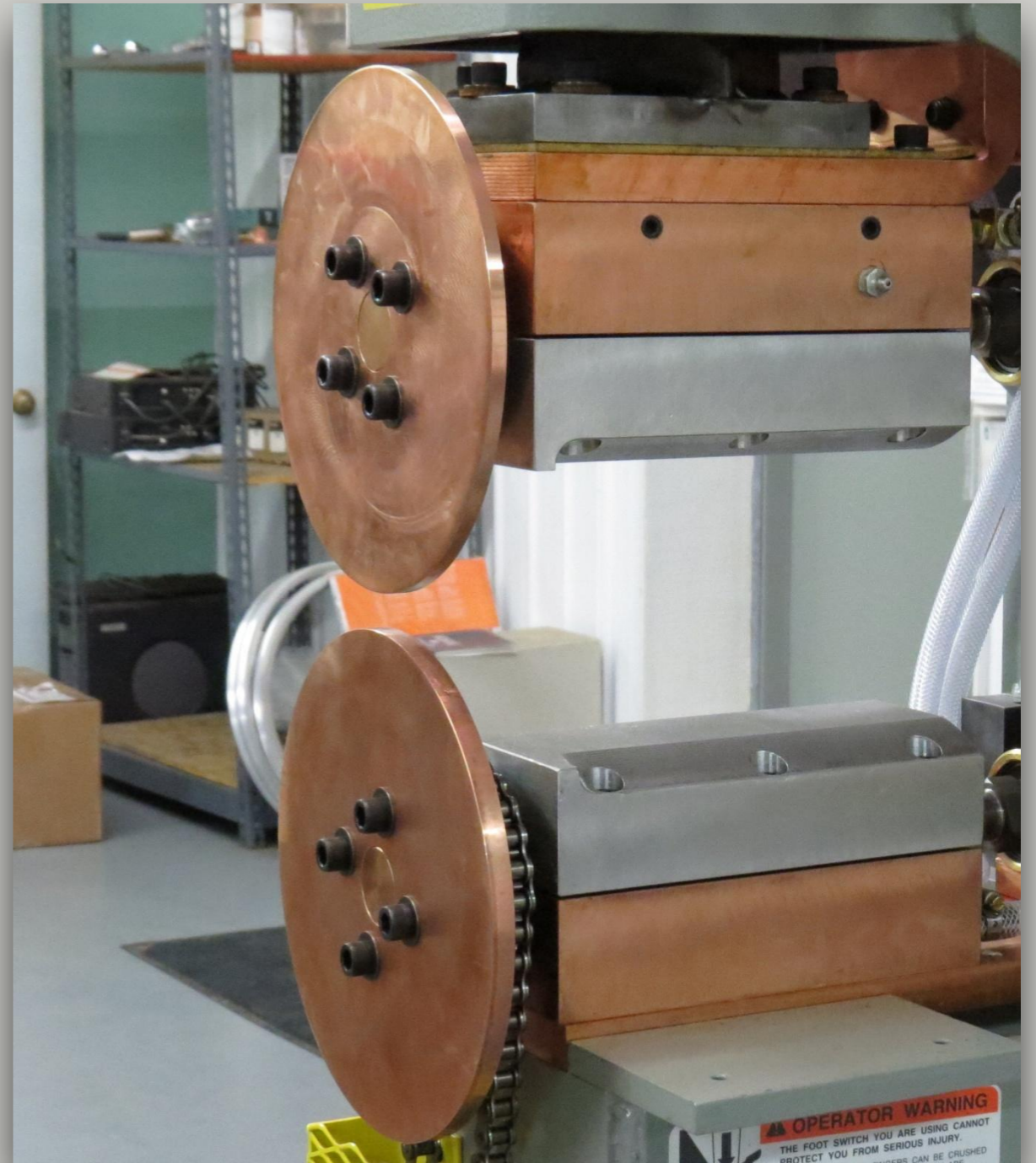
Forged Seam Welding Wheels

Hilden Metal is a manufacturer and distributor of seam welding wheel blanks and finished wheels using RWMA Copper Alloys.

We offer:

- Every Welding Wheel in hot forging blanks consistent with best metallurgical processes.
- A proprietary process that yields maximum hardness while maintaining necessary ductility.
- A metallurgically engineered process that yields optimum grain structure.

Our welding wheels are made from RWMA Class 2 (C18150 and C18200) and RWMA Class 3 (C18000 and C17510) copper alloys. Our Class 2 wheels are specially forged to increase hardness to 75Rb minimum. We can fully machine your designs.



Copper Alloys Chart

Copper is the best material within the **resistance welding** sector.

The main alloys and the international standards equivalents we serve at your disposal are

Composition	DIN ISO 5182	DIN EN 12163	DIN 17672-1	UNS
CuCrZr (CuCr1Zr)	A2/2	CW106C	2.1293	C18150
CuNiCrSi (CuNi2CrSi)	A3/2	CW111C	2.0855	C18000
CuNiSi (CuNi2Si)				
CuCoNiBe (CuCo1Ni1Be)	A3/1	CW104C	2.1285	C17510
CuCoBe (CuCo2Be)				C17500
Cu ETP (E-Cu58)	A1/1	CW004A	2.0065	C11000

Bronze and Copper Stock

We have a well-stocked warehouse of bronze bars in round, rectangular and square sections in the different below listed standards alloys:

Bronze G Cu Sn12 UNI 7013/2 (referenced from the old Standard as B.14) available in:

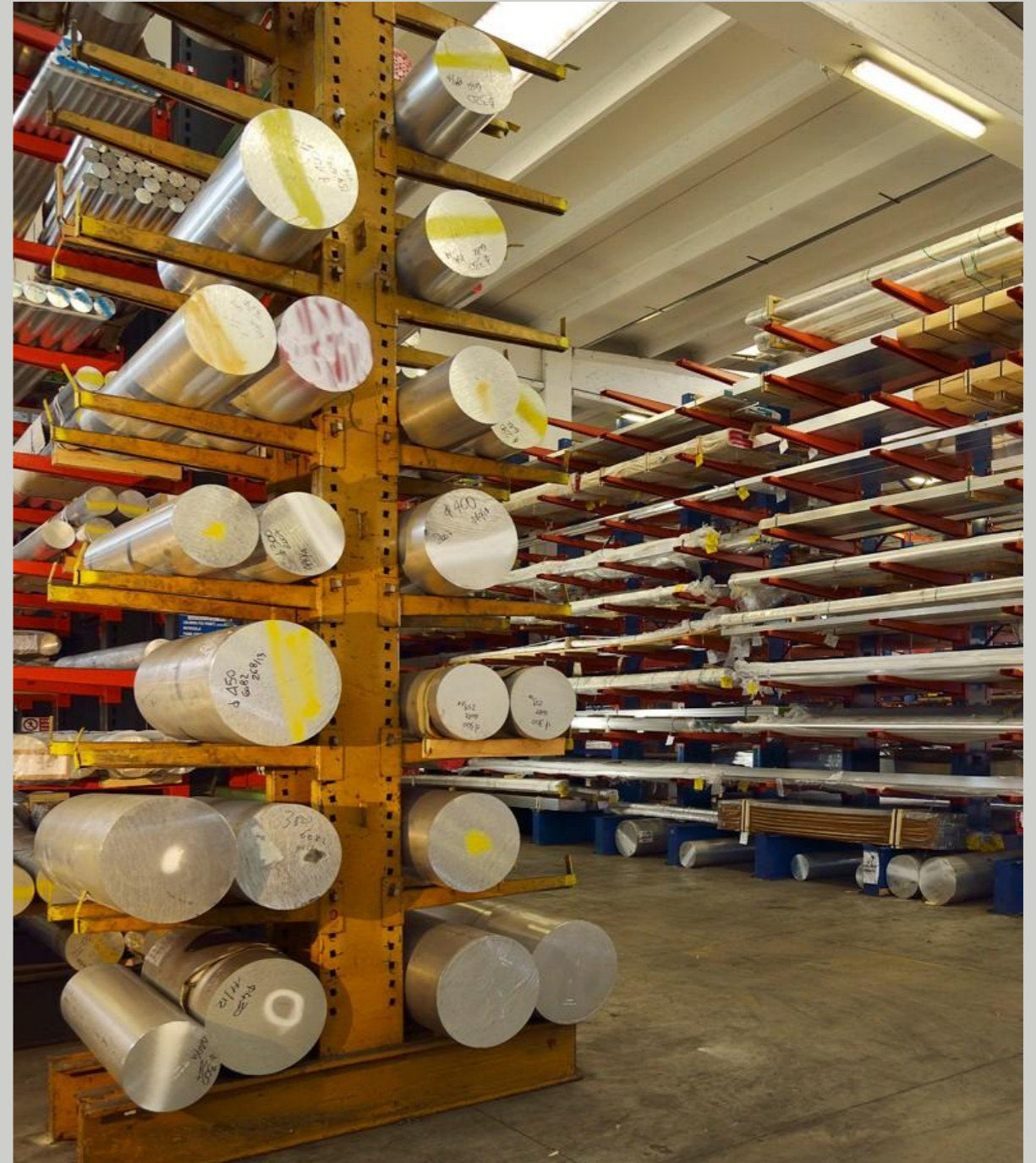
Continuous casting round bars from $\text{Ø}15\text{mm.}$ to $\text{Ø}300\text{mm.}$ in standard length of 3.000 mm.

Continuous casting round tubes from out. $\text{Ø}30/\text{ins.Ø}15\text{mm.}$ to out. $\text{Ø}250/\text{ins.Ø}190\text{ mm.}$ in standard length of 3.000 mm.

Centrifugal castings with sizes up to out. $\text{Ø}2.000\text{mm.}$ and length on request. The centrifugal bronze bushings are always rough-turned both on the outside and inside diameter and the length is cut to the required size.

Rectangular bars with sizes from $\#30 \times 15\text{mm.}$ to $\#300 \times 100\text{mm.}$ in standard length of 3.000 mm.

- Square bars with sizes from $\#20 \times 20\text{mm.}$ to $\# 100 \times 100\text{mm.}$ in standard length of 3.000mm.



Bronze and Copper Stock

Bronze G Cu Sn5 Zn5 Pb5 UNI 7013/8 and Bronze G Cu Sn7 Zn4 Pb6 UNI 7013/7 (also called Bronze 85.5.5.5. and Bronze Sn7)

This quality of bronze is also available in:

Continuous casting round bars from $\text{Ø}15\text{mm.}$ to $\text{Ø}300\text{mm.}$ in standard length of 3.000 mm.
Continuous casting round tubes from out. $\text{Ø}30/\text{ins.Ø}15\text{mm.}$ to out. $\text{Ø}250/\text{ins.Ø}190\text{mm.}$ in standard length of 3.000mm.

Centrifugal bushings with sizes up to out. $\text{Ø}2000\text{mm.}$ and length on request. The centrifugal bronze bushings are always rough-turned both on the outside and inside diameter and the length is cut to the required size.

Rectangular bars with sizes from $\text{#}25 \times 15\text{mm.}$ to $\text{#}300 \times 100\text{mm.}$ in standard length of 3.000mm.

Square bars with sizes from $\text{#}20 \times 20\text{mm.}$ to $\text{#}100 \times 100\text{mm.}$ in standard length of 3'000mm.

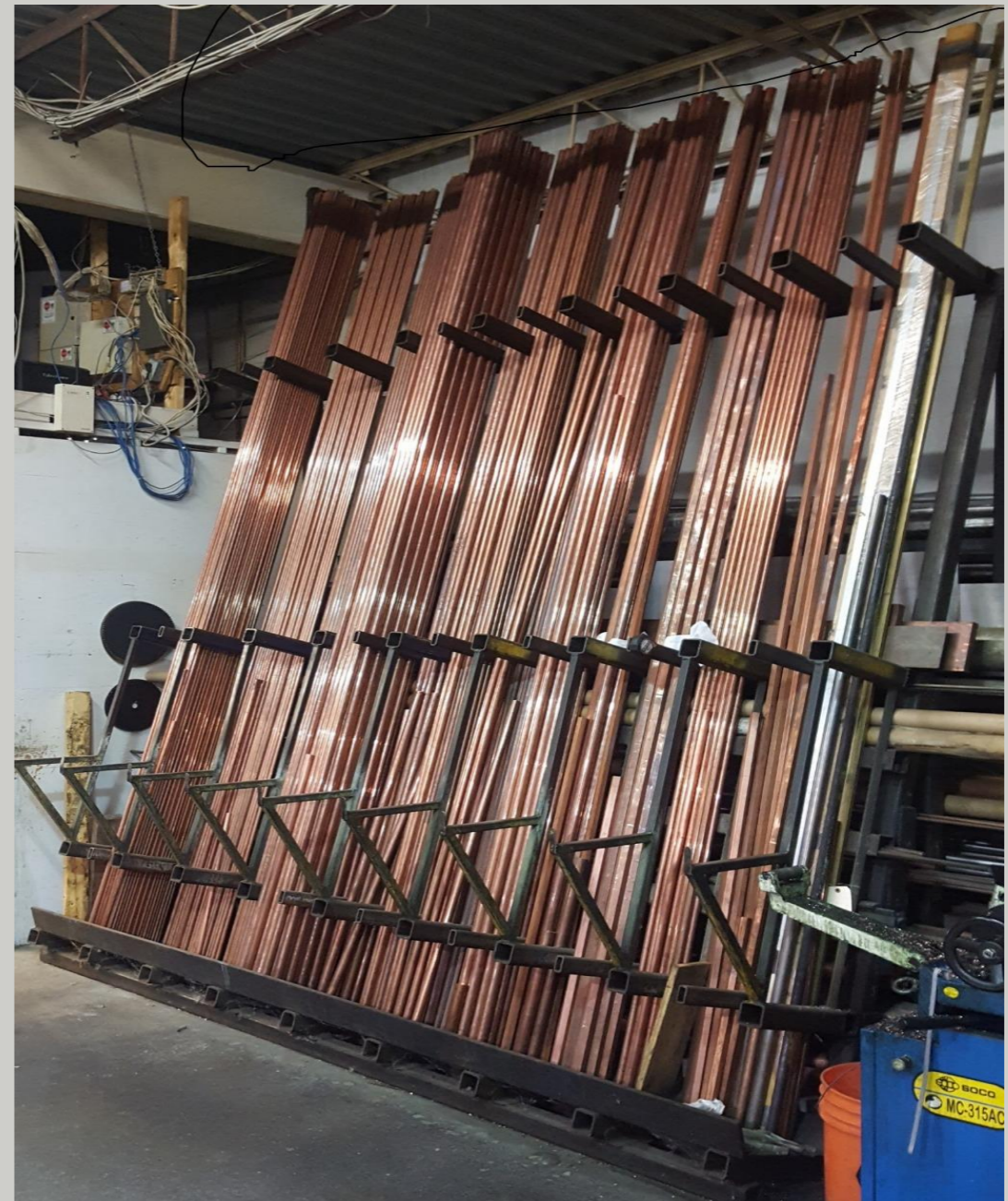


Bronze and Copper Stock

Aluminum Bronze Cu Al11 Fe4 Ni4 UNI 5275 (also called Aluminum Bronze BRAL or XANTAL) available in:

- Continuous casting round bars from $\text{Ø}15\text{mm.}$ to $\text{Ø}300\text{mm.}$ in standard length of 3.000 mm. Continuous casting round tubes from out. $\text{Ø}30/\text{ins.Ø}15\text{mm.}$ to out. $\text{Ø}250/\text{ins.Ø}190\text{mm.}$ in standard length of 3.000mm.
- Continuous casting round tubes from out. $\text{Ø}30/\text{ins.Ø}15\text{mm.}$ to out. $\text{Ø}250/\text{ins.Ø}190\text{mm.}$ in standard length of 3.000mm.
- Centrifugal bushings with sizes up to out. $\text{Ø}2.000\text{mm.}$ and length on request. The centrifugal bronze bushings are always rough-turned both on the outside and inside diameter and the length is cut to the required size.
- Rectangular bars with sizes from $\#20 \times 10\text{mm.}$ to $\#300 \times 100\text{mm.}$ in standard length of 3.000 mm.
- Square bars with sizes from $\#20 \times 20\text{mm.}$ to $\#100 \times 100\text{mm.}$ in standard length of 3'000mm.

On request there are also other types of bronze, such as: Lead Bronze, Nickel Bronze 25%, Phosphor Bronze, etc ... We can develop customized profiles, of any size and shape. All bars in Bronze can be supplied cut to size



Contact Information

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Hilden Metal



Resistance Welding Consumables

Copper and Bronze Alloy Stocks