



## Experts in supply of Hollow Bar

Hollow bar was introduced over 50 years ago as a seamless tube specially produced for machining like cutting, boring and turning. Van Leeuwen Wheeler, part of the Van Leeuwen Pipe and Tube Group, offers a centre of excellence for the supply of hollow bar to the new European standard EN 10294-1.

### Advantages

Hollow bar offers greater cutting speeds and longer tool life. Moreover, shorter and easier removable chips are produced. The key characteristics of hollow bar include excellent machinability, high surface quality and tight dimensional tolerances. Its suitability ensures that the surface finish after turning is guaranteed to be without defect with a minimum weight loss.

### Clean turned size guarantee

In the past few decades, every European mill produced its own hollow bar products, without giving a guarantee on the clean turned sizes. This sometimes caused confusion and led to market fragmentation. With the introduction of the new Euro Norm EN 10294-1, this situation belongs to the past.

The offered sizes might still differ from mill to mill, but each mill will guarantee **the same clean turned sizes** as specified in the Euro standard.

When ordering hollow bar, you can therefore simply order feedstock by the clean turned sizes (OD x ID) of the part that you intend to produce from it. This "clean turned size guarantee" is applicable for lengths shorter than 3 x OD, or shorter than 200 mm where 3 x OD is greater than 200 mm.

The introduction of the new Euro standard has resulted in a wider size range and new intermediary sizes. As the experts in the supply of hollow bar, Van Leeuwen Wheeler can offer advice on the perfect feedstock dimension to suit the finished component size.

### Cutting services

With cutting capabilities at our Brierley Hill and Middlesbrough locations, we are able to supply hollow bar precision cut to length to suit your individual requirements.

### Delivery

Our logistics operation offers nationwide deliveries with fast order turnarounds and we are also able to offer a fast, flexible service for local customers who can place their order and collect from Brierley Hill or Middlesbrough within 24 hours.





## Euro Norm specification = EN 10294-1 Stock grade - E 470 "As Rolled" condition

Chemical compositions – main elements						
Carbon	Silicon	Manganese	Phosphorus	Sulphur	Aluminium	Vanadium
0.16 - 0.22	0.10 - 0.50	1.30 - 1.70	0.030 max	0.015 - 0.050	≥ 0.010	0.08 - 0.15

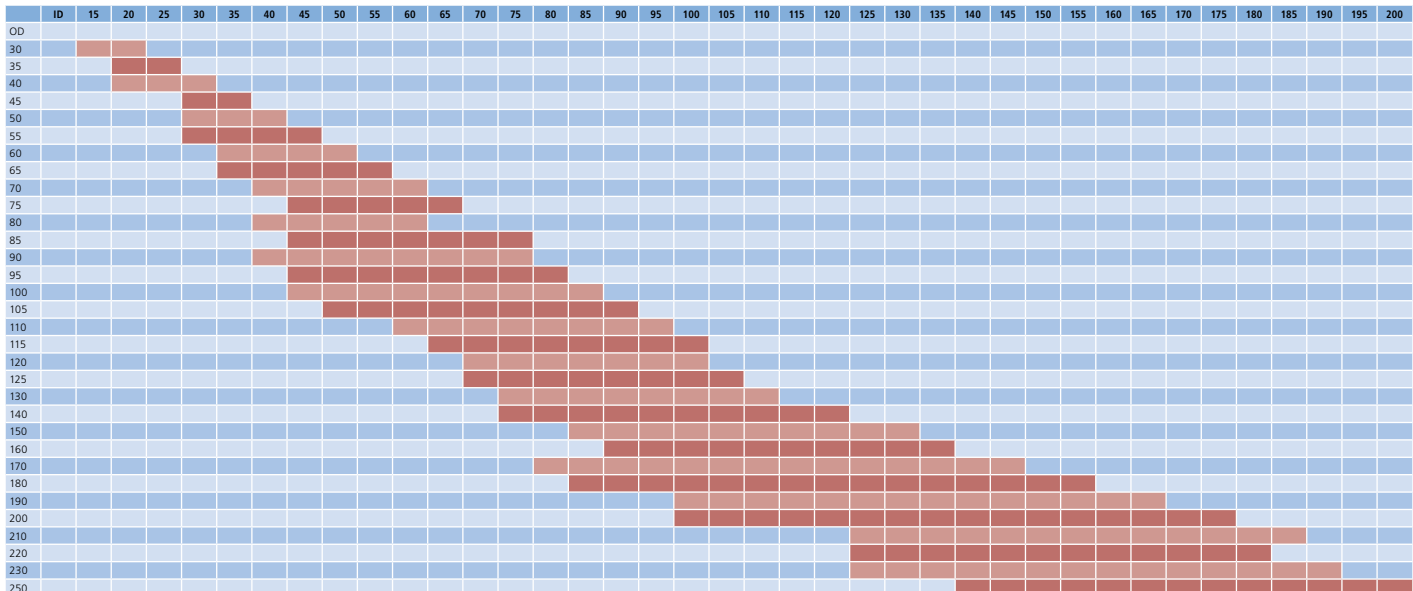
Mechanical properties					
	≤16mm	16 < ≤25mm	25 < ≤40mm	40 < ≤50mm	50 < ≤65mm
Yield (Mpa)	470	460	430	430	400
Tensile (Mpa)	650	620	600	550	550

Elongation Longitudinal direction = 17% min

## Tube sizes

Hollow Bar dimensions are supplied OD x BORE. These sizes are the guaranteed cleaned turned size producible with external chucking.

Outside Diameter: 30 - 250mm. Wall Thickness: 5 - 55mm.



By special order other grades of materials are available for applications requiring high mechanical properties and very good impact values when normalised or Quench and Tempered. Additional sizes will be added to the manufactured range. Further information is available by contacting your local sales office.

[www.vanleeuwen.com](http://www.vanleeuwen.com)

### Head office, sales office and warehouse

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