



Offering further processing facilities, our Wire Processing Centre delivers drawn and processed wire and wire rod to meet the exacting requirements of a broad range of sectors.

**In addition to manufacturing a wide range of wire rod products across the UK and the Netherlands, our Alblasserdam site also boasts a state-of-the-art wire processing centre which produces annealed and pickled wire rod and drawn wire for the global automotive, construction and general engineering industries.**

Our state-of-the-art processing centre allows us to respond efficiently to our customers' requests, ensuring short and reliable delivery times, consistent high quality and a variety of coating solutions.

#### **Pickling**

Where surface quality is critical, scale on as-rolled wire rod can be removed by hydrochloric acid via our pickling line. A variety of coatings can then be applied to optimise further processing e.g. lime, salt carrier, phosphate and soap for drawing and flat-rolling or phosphate and soap or polymer for cold forming and cold extrusion.

#### **Annealing**

For further processing, we can offer annealing to alter the microstructure of the material and change its mechanical properties. This heat treatment process will reduce hardness and tensile strength, increase ductility/cold deformability and eliminate internal stresses.

We offer a variety of options through our bell-annealing furnaces to best meet your requirements – spheroidised annealing, recrystallisation annealing and stress-relief

annealing. Our annealing programmes are specifically designed for our different grades and are conducted within a protective (inert) gas atmosphere.

#### **Drawing**

For further processes that require smaller diameters and/or tighter size tolerances, our drawing plant produces drawn wire in a wide variety of grades. Several single and multiple die drawing machines cover our full range of wire rod sizes to deliver drawn wire from 1.8mm up to 28.0mm.

Non-phosphate coated drawn wire for cold forming can also be supplied in a restricted size range.

#### **Rigorous testing for quality assurance**

The quality of our products is assured by rigorous testing procedures conducted in well-equipped laboratories to verify stringent criteria such as surface quality, dimensional control, hardenability and mechanical properties. Our products meet the required standards for the most challenging and safety-critical applications.

#### **Technical support from our specialists**

Our team of technical experts provides dedicated support to our customers, including selection of the most appropriate steel grade and detailed metallurgical analysis to solve specific processing problems.

## Wire rod dimensions

The table below indicates the typical specifications for our wire rod range, inclusive of material treated via annealing and/or pickling.

<b>Rod diameter</b>	5.5 - 30.0mm in 0.5mm increments
<b>Coil weight</b>	1,800 - 2,200kg
<b>Coil length</b>	1,000 - 1,700mm
<b>Coil dimensions</b>	Outside diameter: 1,300mm Inside diameter: 800mm
<b>Tolerance</b>	In accordance with EN 10108 A or B

**Notes:** Can be delivered in as rolled, annealed and/or pickled, coated. Coil weight and length are dependent on rod diameter and grade combination. Specific coil package dimensions to be agreed at time of order placement/enquiry.

## Coil presentation and labelling

<b>Strapping</b>	4 band straps
<b>Labels / tags (as rolled)</b>	1 plastic with barcode & plain text and 1 metal tag with text
<b>Labels / tags (treated wire rod)</b>	1 plastic with barcode as standard (second label available on request)

## Drawn wire dimensions

<b>Diameter</b>	1.8 - 28.0mm
<b>Tolerance</b>	In accordance with EN 10278:1999 (h9, h10 or h11 possible)

**Notes:** Available in coils, spooled coils, and on spiders/carriers in a variety of weights and make up - options are dependent on final execution and size). Can be delivered in as drawn, annealed (or combination), coated with phosphate or soap

## Treatment conditions

EN	DIN	Description
+U+C	K	Drawn
+AC+C	GKZ+K	Annealed-drawn
+U+C+AC	K+GKZ	Drawn-annealed
+U+C+AC+LC	K+GKZ+K	Drawn-annealed-drawn
+AC+C+AC+LC	GKZ+K+GKZ+K	Annealed-drawn-annealed-drawn

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