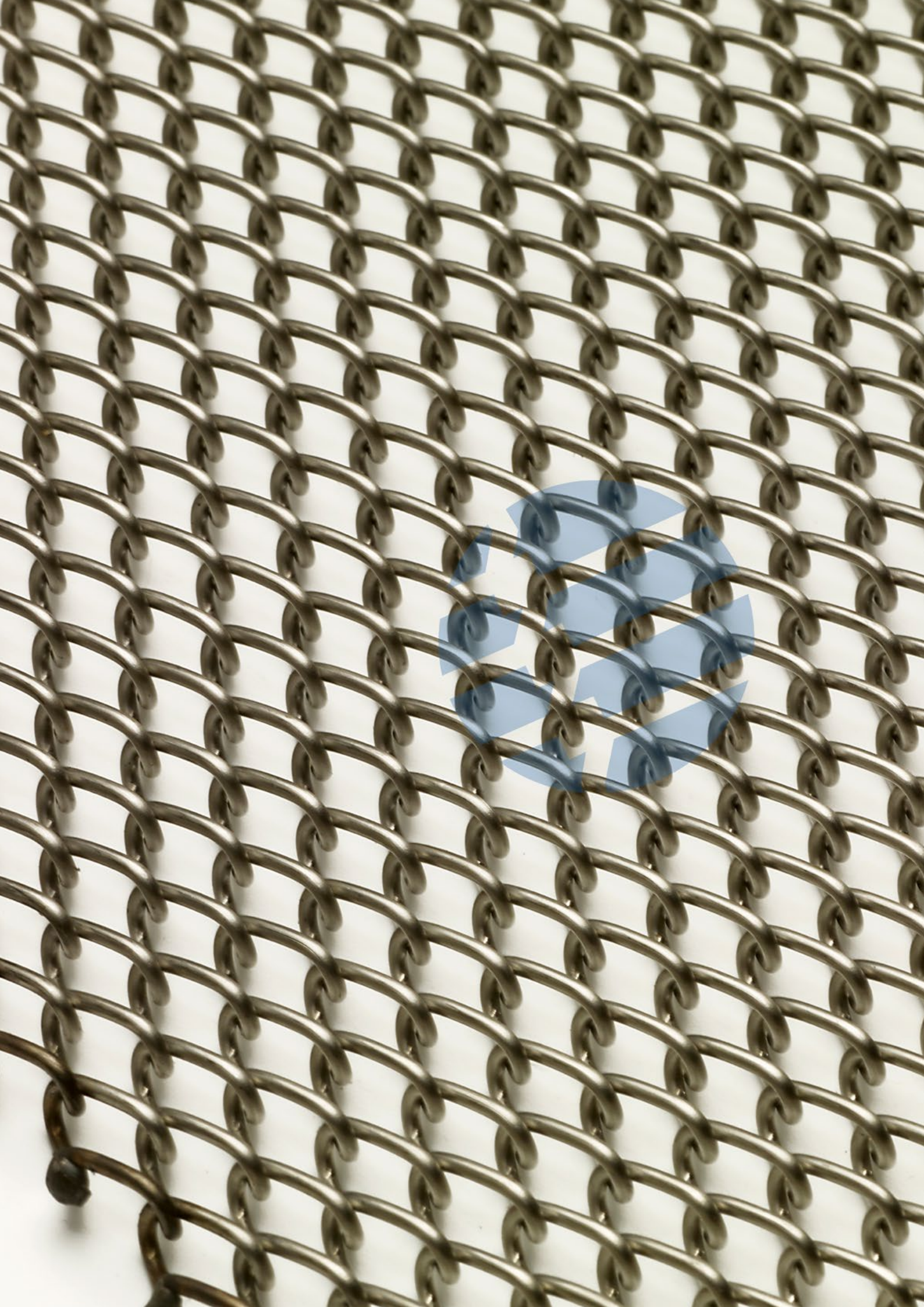


CHAIN LINK CONVEYOR BELT

ECONOMIC AND LIGHTWEIGHT SOLUTION

WWW.WIREBELT.CO.UK





CHAIN LINK CONVEYOR BELT

Chain Link belting is the simplest available mesh belt design, suitable for light duty use in drying and cooling applications. Chain Link is a component part of Wire Belt Company's Troughing Filter Belts and can also be used as collapsible screen for applications such as lift guards.

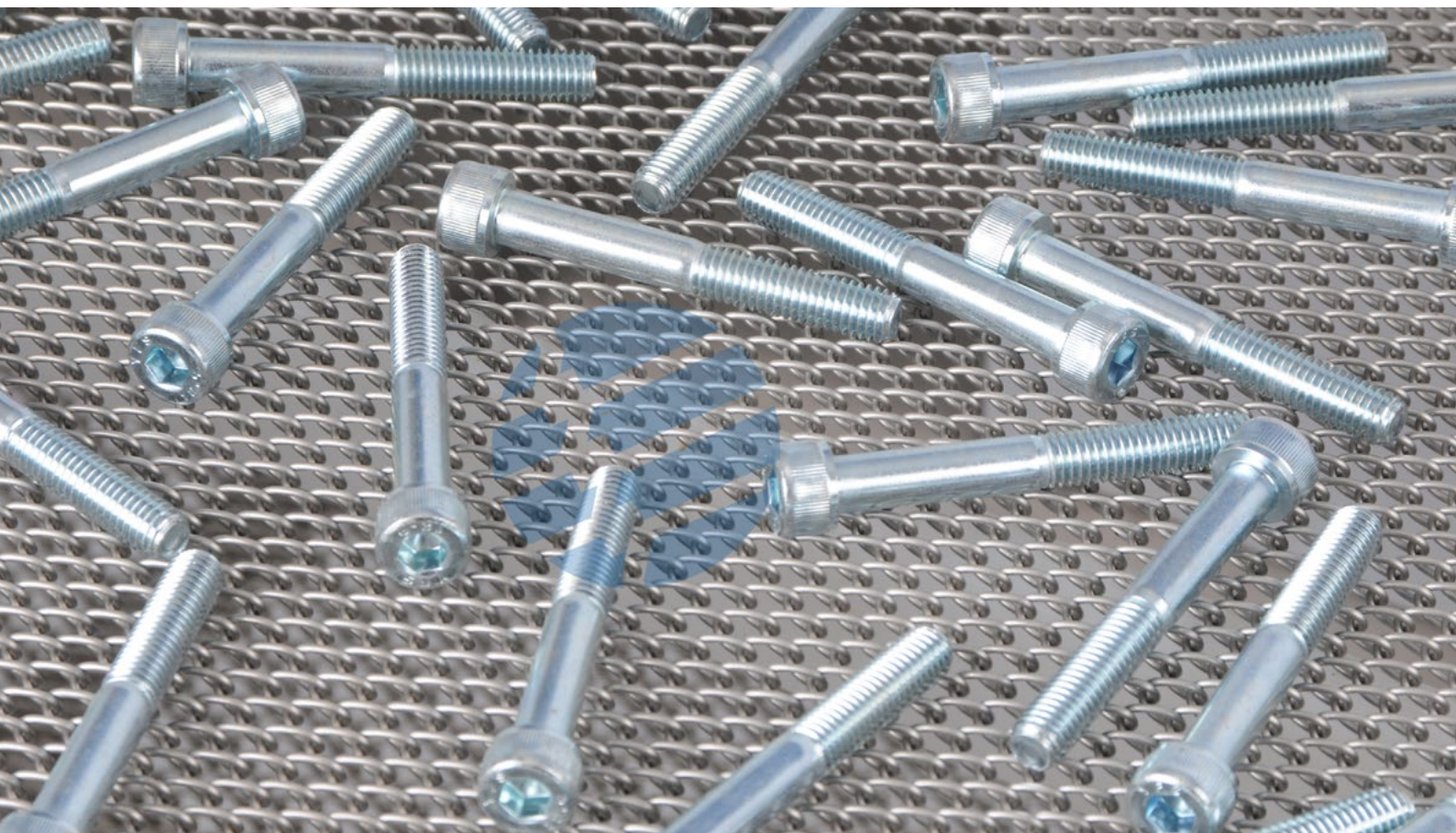
ADVANTAGES

Chain Link features a simplistic design, where successive spiral coils are interwoven to create an open mesh. Chain Link can be supplied with the edges either knuckled or welded.

By keeping the belt design simple yet functional, Chain Link offers end-users an economic and lightweight solution for low load conveying applications. The large open area inherent in Chain Link's design also makes it a popular choice for drying and cooling application where belt flow-through is of paramount importance.

Chain Link can be supplied with alternating left and right facing panels to counteract any tracking issues caused by the coil pattern. It is also available as Rod Reinforced Chain Link, where cross-rods are inserted across the belt width to increase the overall load capacity.

Chain Link is commonly supplied in Grade 304 Stainless Steel, although other steel grades are available on request.





CHAIN LINK CONVEYOR BELT

TYPICAL APPLICATIONS

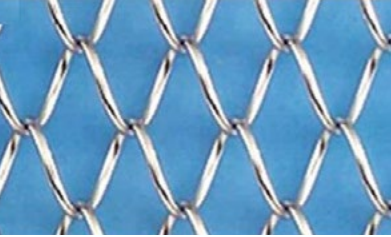
- Transport
- Cooling
- Drainage
- Industrial Curtains
- Lift Guards
- Elevating
- De-Elevating
- Industrial Furnaces



CHAIN LINK CONVEYOR BELT

BELT DATA

BELT MESH TYPES



Standard Chain Link (CL)

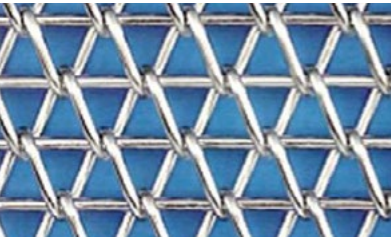
The assembly consists of unidirectional coils with each coil interconnecting with the next. When used as a friction driven belt the assembly may feature alternating sections of left then right-hand assembled panels. Each belt panel is linked to the next opposite hand weave panel with a through wire. Panelling of the belt with left & right-hand coil sections help alleviate belt track off on all circuit rollers and belt supports. Many friction driven belts however are not panelled in this way and rely on their weight and the conveyor tracking system to ensure straight running of the belt.



Rod Reinforced Chain Link (CLR) Panelled Belting

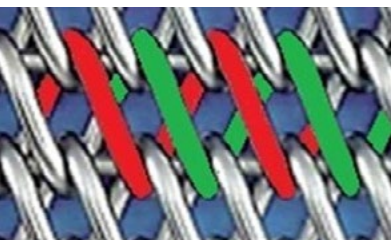
Left and right assembly of panelled coils are linked together by a through connector pin. The alternating handing of the panelled coils balances the weave contact with the friction driven roller or idle rollers to ensure best tracking performance of the belt. Check to see if your belt is panelled in this way prior to placing an order.

NB: When driven by means of side chains and carrier cross rods, there is no requirement to panel the belt assembly.



Rod Reinforced Chain Link (CLR)

To add strength and lateral stability to the belt the intermeshing coils are linked with a through wire. This through wire is finished at the edges in a variety of styles including welded, laddered, knuckled, and welded and compressed and welded. When enquiring please forward either a picture or diagram of the belt edge. The same panelling assembly as described above may be required when used solely as a friction driven belt.



Rod Reinforced Chain Link – Duplex (CLR-Duplex)

To add even more belt strength and reduce the open area then a duplex version of the standard rod reinforced is available. The assembly consist of twin intermeshing standard coils at each position.

EDGE AVAILABILITY

STANDARD CHAIN LINK

- Welded Edge (W) – mesh only without reinforcing rods
- Knuckled Edge (K) – mesh only without reinforcing rods

STANDARD ROD REINFORCED (MESH ONLY) CHAIN LINK

- Welded Chain Link Rod Reinforced (CLR-W – IN/OUT).
- Welded Chain Link Rod Reinforced (CLR-W-IN LINE).
- Chain Link Rod Reinforced Bent Pin with welded edges (CLR-W-BENT-PIN).
- Knuckled Chain Link 'U' Cross Rod Reinforced (CLR-K/U).

EDGE FINISH TO ROD REINFORCED DUPLEX (MESH ONLY)

- Welded Duplex Chain Link (CLR-W-Duplex)
- Knuckled/Hooked Duplex Chain Link (CLR-K/H-Duplex).

For more information about edge availability see our website or contact our Technical Sales Engineers.

CHAIN EDGE DRIVEN MESH

Along with the above mesh edge finishes these meshes can be driven by side chains using cross rods which are located through the mesh coils and then through chains at the edges of the mesh. The types of cross rod finish at the exterior of the side chain are as follows:

- Welded washer
- Cotter Pin & Washer

Various other styles of chain edge finish include:

- a. Cross rod welded flush to the hollow pin of the side chain.
- b. Cross rod welded flush through drilled hole on inner plates of roller conveyor chain.

In general the chain edge driven belts are available with 2 styles of edge chain:

- Transmission Chain – has a small roller.
- Conveyor Roller Chain –has a large roller.

METHODS OF DRIVE

- Friction Driven
- Chain Edge Driven

For more information about methods of drive, see our website or contact our Technical Sales Engineers.

AVAILABLE BELT SPECIFICATIONS

The following is an extract of available specifications:

Standard Chain Link (CL)

These are designed to suit the customer requirements but in general are available in lateral coil wire pitches varying from 5.08mm to 25.4mm, combined with a variety of wire diameters and longitudinal pitches to suit the application.

Rod Reinforced Chain Link (CLR)

Lateral Coil Pitch (mm)	Coil Wire Diameter (mm)	Longitudinal Cross Wire Pitch (mm)	Cross Wire Diameter (mm)
16.93/15.24	2.03	16.93/19.05	2.64
	2.64		2.95
	2.95		3.25
	3.25		4.06

Rod Reinforced Chain Link – Duplex (CLR-D)

Lateral Coil Pitch (mm)	Coil Wire Diameter (mm)	Longitudinal Cross Wire Pitch (mm)	Cross Wire Diameter (mm)
8.47	2.03	16.93/19.05	2.64
	2.64		2.95
	2.95		3.25
	3.25		4.06
5.08	2.03	10.16	2.64

All dimensions are in millimetres (mm) and are subject to Wire Belt Company manufacturing tolerances.

NB. Please contact Technical Sales if you have a specification requirement other than those listed above.

MATERIALS AVAILABLE

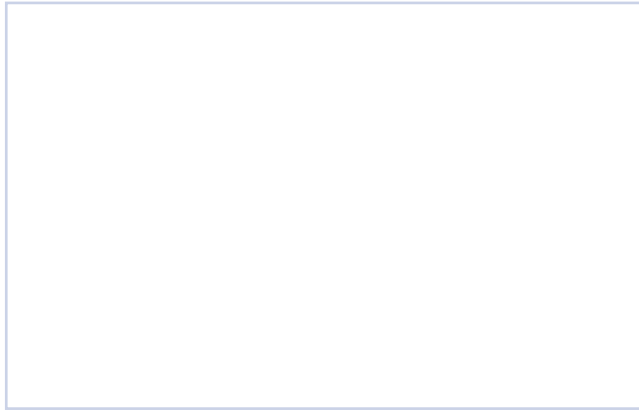
Standard Material Availability (Mesh Only)

Material	Maximum Wire Operating Temperature °C
Carbon Steel (40/45)	550
Galvanised Mild Steel	400
Chrome Molybdenum (3% Chrome)	700
304 Stainless Steel (1.4301)	750
321 Stainless Steel (1.4541)	750
316 Stainless Steel (1.4401)	800
316L Stainless Steel (1.4404)	800
314 Stainless Steel (1.4841)	1120 (Avoid use at 800-900°C)
37/18 Nickel Chrome (1.4864)	1120
80/20 Nickel Chrome (2.4869)	1150
Inconel 600 (2.4816)	1150
Inconel 601 (2.4851)	1150

Before making a selection for high temperature applications consult with our Technical Sales Engineers for the most suitable wire grade for the application as wire strength reduces at elevated temperatures.



Distributed by:



Our policy is one of continuous improvement and we reserve the right to change specifications at any time and without notice, or modify these to suit manufacturing processes.

