



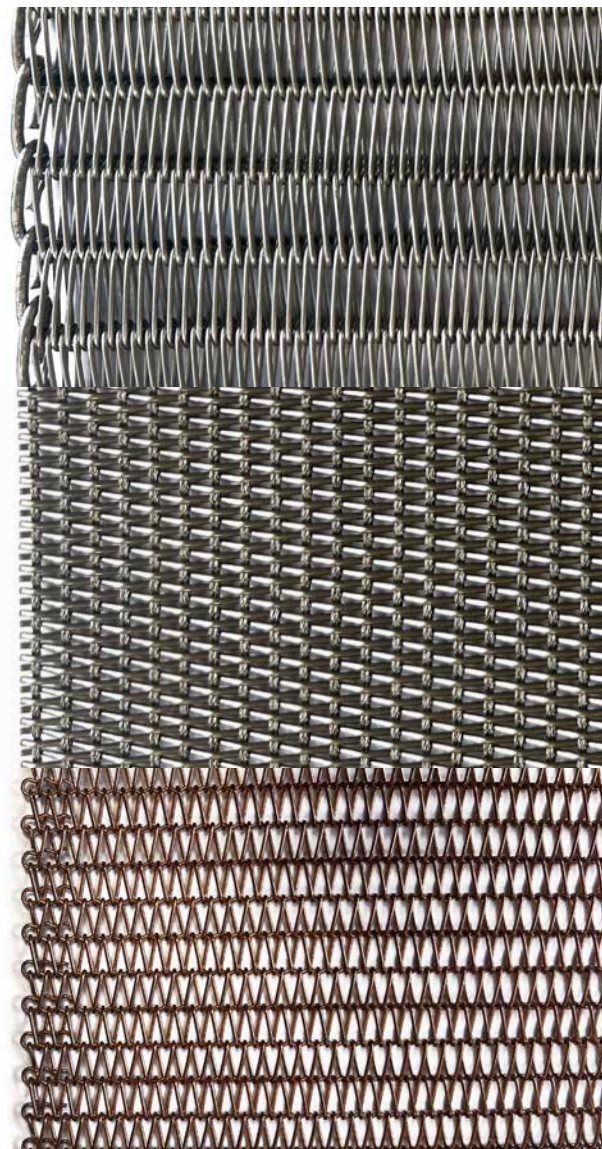
**CSS**<sup>®</sup>  
belts

## Wire belts, meshes and metal conveyor belts

### Solutions for

- food industries
- veneer industries
- fiberboard industries
- nonwoven industries
- high temperature processes
- individual applications

Quality that pays off.



# 160 years of experience in wire technology



Dear customers,

founded in 1861, CSS Draht Schmidt has always stood for quality and sophisticated customer solutions. At our site in Lahnstein, we manufacture our products with the precision gained from decades of experience.

Since their apprenticeship, many of our employees have been with the company and have passed down the finer points of wire belt manufacturing through generations. Satisfied employees and a well-coordinated team form the basis of our success.

Based on the principles developed over decades, we lead the company into new times and face the challenges and the opportunities of digitalization and new manufacturing technologies.

Giving the best every day and offering our customers top quality is what our team stands for with different professional experiences and expertise.

I am looking forward to successful cooperation.

Stefan Quast  
Managing Director



# Your modern solution provider with manufacturer expertise

High-quality wires and wire fabrication products since 1861: This is what the medium-sized family-owned company CSS Draht Schmidt in Lahnstein near Koblenz/ Rhine stands for.

In the course of this long company history, we have continuously developed our product range. Starting with the mass-produced wire rod, our company today offers solutions for demanding industrial and architectural applications in the form of high-quality wire belts and wire cloth "Made In Germany".

Our products' continuous development and ongoing investment in state-of-the-art production technology ensure that our customers get the best possible value for money. We continuously stock several hundred different wires to respond quickly and individually to customer requirements - regardless of the industry.

We manufacture products for the following applications, among others:

- Food industry (Food)
- Veneer drying (incl. non-woven)
- Plant construction
- Architecture/garden/urban planning

CSS Draht Schmidt supports quickly and flexibly when "the need arises". At the same time, we take sufficient time to advise customers comprehensively, record their wishes precisely, and develop customized products from scratch (engineering).

Since its foundation, the claim to ourselves is: What we manufacture meets the highest technical standards in terms of reliability, quality, and durability.

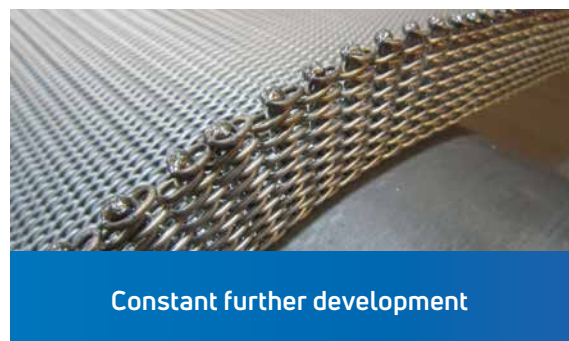
Whether production downtime or highly individual customer requirements: With our employees and many decades of experience in wire processing, we are happy to be your contact for consulting, development, maintenance, and installation. And all this with excellent delivery times. So that your project does not become a tightrope act but a success!



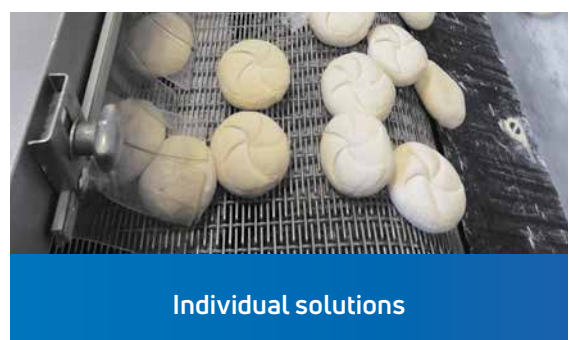
Assembly support



More than 400 wire variants available



Constant further development

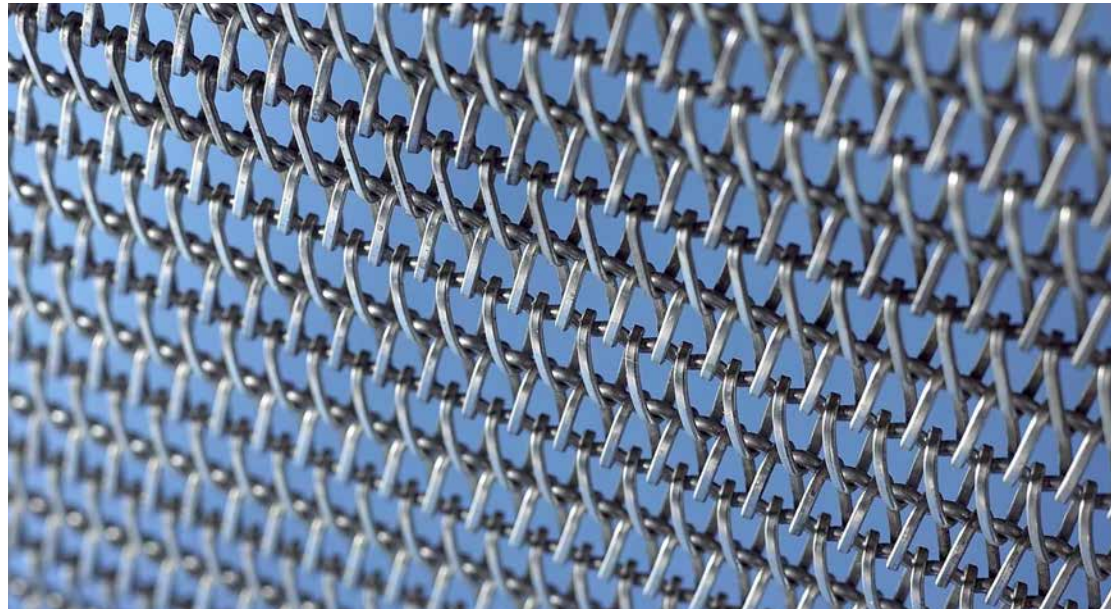
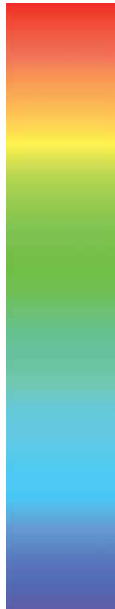


Individual solutions



# Why the use of wire belts and meshes makes sense

Sintering  
Brazing  
Tempering  
Annealing  
Baking  
Drying  
Sterilizing  
Washing  
Cooling  
Freezing



Our wire belts' wide temperature range allows you to produce food safely: from baking to blast freezing.

Maximum safety and effectiveness in the production of food. This is what our wire belts stand for, equipped with all the properties required in food production: Durability, good running properties, thermostability, and optimal hygiene. Highest technical quality for good taste.

#### **Your advantages when using wire belts and mesh:**

- High mechanical, thermal and chemical resistance
- Acid and alkali resistance (on request)
- Reduced repair time and costs due to modular design
- Smooth running
- Hygienic properties
- Easy cleaning
- Belt length changes possible
- Open surfaces





Hardening shops and thermal applications



Veneer industry



Service and assembly



Snack Industry



Safety nets helipads



Herbs and food drying



# Standard versions

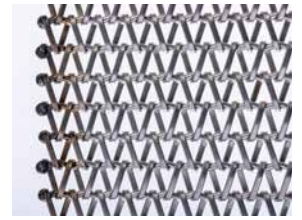
## Type: N 200 **Round wire belt** with S-edges and welded edges

Manufacturing capabilities									
d = spiral $\phi$ (mm)	0.9 – 5.0	0.9	1.3	1.8	1.5	2.0	2.5	4.0	5.0
D = cross rod $\phi$ (mm)	1.8 – 8.0	1.8	2.5	2.8	2.8	3.1	5.0	7.0	7.0
t = cross rod pitch (mm)	8.0 – 52.0	10.0	16.5	18.0	23.0	25.0	32.0	45.0	52.0
width (m)	max. 4.00								



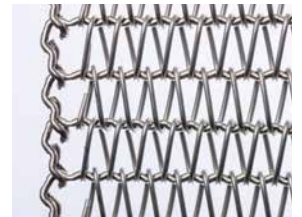
## Type: N 300 **Wide Spiral Flat Wire Belt** with S-edges and welded edges

Manufacturing capabilities									
a x b = dimensions (mm)	1.2 x 0.7 – 3.0 x 1.5	1.2 x 0.7	1.2 x 0.7	1.6 x 1.0	2.0 x 1.0	2.0 x 1.0	2.5 x 1.2	2.5 x 1.2	2.5 x 1.2
D = cross rod $\phi$ (mm)	1.2 – 5.0	1.2	1.4	1.6	2.8	2.8	3.1	3.1	3.1
t = cross rod pitch (mm)	4.0 – 40.0	4.0	5.4	10.0	16.0	20.0	25.0	35.0	35.0
s = spiral pitch (mm)	4.0 – 35.0	4.1	5.2	6.5	8.5	15.0	20.0	25.0	33.3
width (m)	max. 4.00								



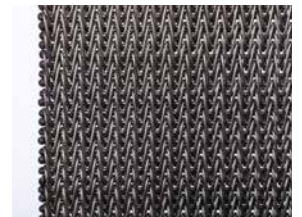
## Type: N 400 **Wide Spiral Round Wire Belt** with S-edges and welded edges

Manufacturing capabilities									
d = spiral $\phi$ (mm)	0.56 – 5.0	0.9	1.0	0.9	1.0	1.2	1.4	1.6	2.8
D = cross rod $\phi$ (mm)	1.0 – 6.0	1.2	1.2	1.2	1.4	1.6	2.8	2.5	2.8
t = cross rod pitch (mm)	3.0 – 65.0	4.0	4.0	6.35	5.4	10.0	16.0	20.0	25.0
s = spiral pitch (mm)	2.0 – 35.0	3.0	4.1	5.08	5.2	6.5	8.5	15.0	20.0
width (m)	max. 6.00								



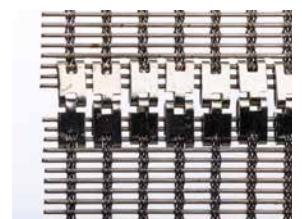
## Type: N 400 V **Wide spiral belt** in multiple construction with welded edges

Manufacturing capabilities						
a x b = dimensions (mm) d = spiral $\phi$ (mm)	0.6 x 0.4 – 1.6 x 1.0	1.4 x 0.7	1.2 x 0.7			
D = cross rod $\phi$ (mm)	1.0 – 6.0	0.6 – 2.8			1.0	1.2
t = cross rod pitch (mm)	3.0 – 65.0	0.8 – 3.1	1.2	1.2	1.2	1.8
s = spiral pitch (mm)	1.6 – 9.0	2.4	2.4	2.4	3.2	4.0
multiple construction	2x – 5x	2x	3x	3x	2x	3x
width (m)	max. 3.00					



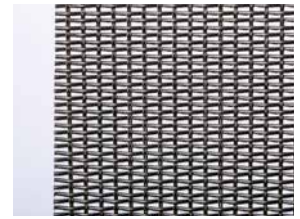
## Type: N 600 **Rod netting belt**

Manufacturing capabilities					
L = weft – mesh size (mm)	1.0 – 3.0	3.0	1.0	1.5	2.0
D = weft wire – $\phi$ (mm)	1.5 – 2.0	1.5	1.5	1.5	1.5
m = warp – mesh size (mm)	8.0 – 24.0	8.0	16.0	20.0	24.0
warp/strand (mm)	0.7 – 1.2	3 x $\phi$ 0.7	4 x $\phi$ 0.7	4 x $\phi$ 0.7	4 x $\phi$ 0.7
width (m)	max. 3.10				



**Type: N 650**
**Rod netting belt**  
 with crimped weft wire

Manufacturing capabilities						
L = weft – mesh size (mm)	0.4 – 1.2	0.4	0.7	0.9	1.1	
D = weft wire – $\phi$ (mm)	1.2 – 1.5	1.2	1.2	1.5	1.5	
m = warp – mesh size (mm)	4.0	4.0	4.0	4.0	4.0	
warp/strand (mm)	0.7	2 x $\phi$ 0.7	2 x $\phi$ 0.7	2 x $\phi$ 0.7	2 x $\phi$ 0.7	
width (m)	max. 3.10					


**Type: N 6000**
**Rod netting belt**  
 with cams

Manufacturing capabilities						
t1 = warp – pitch (mm)	17.5	17.5	17.5	17.5	17.5	
m = warp – mesh size (mm)	15.5	15.5	15.5	15.5	15.5	
d = warp/strand – $\phi$ (mm)	2.0 – 2.8	2.0	2.0	2.0	2.8	
t2 = weft – pitch (mm)	1.8 – 10.0	2.5	3.0	5.0	5.5	
L = weft – mesh size (mm)	0.3 – 8.0	1.0	1.5	3.0	3.0	
D = weft wire – $\phi$ (mm)	1.2 – 2.5	1.5	1.5	2.0	2.5	
width (m)	max. 3.10					


**Type: N 700**
**Rod belt**  
 with single or double loop edges

Manufacturing capabilities									
D = wire $\phi$ (mm)	1.0 – 2.8	1.0	1.2	1.2	1.4	1.6	1.8	2.0	2.8
t1 = pitch (mm)	4.0 – 17.0	5.0	6.0	7.0	8.0	10.0	12.0	15.0	17.0
L = mesh size (mm)	3.0 – 15.0	4.0	4.8	5.8	6.6	8.4	10.2	13.0	14.2
t2 = mesh length (mm)	$\phi$ 1.0 – 1.2 = 45 – 80	1	2	3	4	5			
$\phi$ 1.4 – 2.8 = 60 – 110									
width (m)	max. 3.50								


**Type: N 800**
**Eye belt**

Manufacturing capabilities						
D = cross rod – $\phi$ (mm)	4.0 – 8.0	4.0	5.0	5.0	8.0	8.0
t1 = cross rod – pitch (mm)	30.0 – 75.0	30.0	50.0	50.0	75.0	50.8
d = eyelet wire – $\phi$ (mm)	2.0 – 3.0	2.0	2.5	2.5	2.5	3.0
t2 = eyelet – pitch (mm)	4.0 – 25.0	4.0	7.5	12.5	15.0	11.0
width (m)	max. 3.50	Slats	Slats	Slats	Slats	Chains



**For further individual designs  
 please contact our sales department at any time**

phone: +49 (0) 2621 – 9694-0

e-mail: [info@css-draht-schmidt.de](mailto:info@css-draht-schmidt.de)

# Our service offer for you

Our service goes far beyond manufacturing and delivery. Let us convince you of our offer.



## Consulting

We advise you in replacement procurement, new plant construction, and conversion, increasing your plant's productivity.

## Assembly

We undertake the complete replacement of the conveyor belts, professional adjustment, and commissioning of the system.

## Service

We check the conveyor belts you use for functionality and safety, including those of competitors.

## Support

We support you in selecting the appropriate conveyor belt, the material selection, and the belt's dimensioning.

## Assembly Support

We provide you with an assembly expert who coordinates, instructs, and supports your employees during assembly.

## Maintenance & Repair

We carry out repairs on-site and guarantee the shortest delivery times for urgent replacement needs.

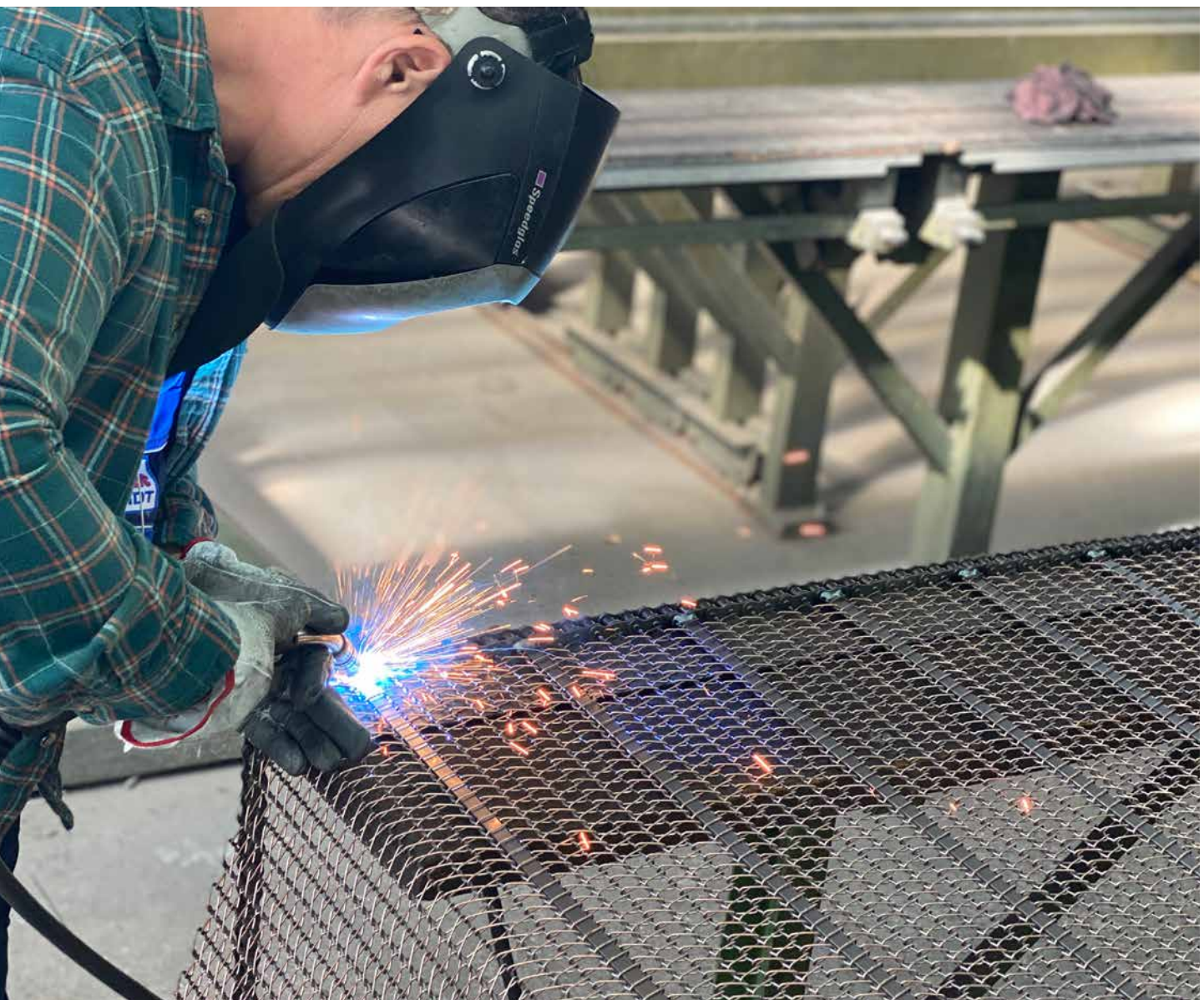


## Individual assembly

We offer our customers the assembly they need. In doing so, we focus on individual needs and not on prefabricated service catalogs. The assembly of our wire belts is fast and versatile. And above all, flexible and industry-independent. Whether long-planned or as an emergency after a system failure.

Our service-technicians are on-site quickly and adapt their work precisely to the local conditions. As a full-service company with manufacturing expertise, individual assembly is, of course, part of our offer. Freely according

to the motto: What we plan and manufacture, we also install. All you have to do is press the “On” button.



# Materials

Wire belts are manufactured from various selected materials to meet the diverse requirements and operating conditions.

**Corrosion-resistant materials** ▪ **Bright and copper-plated steel** ▪ **Raw Carbon Steel** ▪ **Galvanized Steel** ▪ **Spring Steel** ▪ **Aluminium** ▪ **Manganese Steel** ▪ **brass wire** ▪ **Several heat resistant alloys**



## Side plates

Wire belts are movable elements that, for example, move bakery products through a continuous oven and feed them to packaging via further treatment (e. g. salting). No goods should be lost in the process.

Accordingly, the edges are significant, of which there are several versions. Our company will be happy to advise you on which form of edging is best suited to your application area. There are six different edge designs to choose from depending on the belt type, perfectly matched to the belt, and ensure your goods' safe transport.



**Welded edges**



**Bending edges "B"**

Crosbar bent over into the spiral which does not apply in the wire belt's thickness. No protruding wire ends so that nothing can get caught.



**Welding edges "K"**

Edge design for very close meshed wire belt, such as those used in pretzel baking. The edges are created by welding.



**Sling edges "S"**

Homogeneous and stable edge shape, optimally suited for lateral belt guidance with thicker wire rolls. Ideal for baking bread.



**Chain guided belts**

Edge design for applications in greasy environments (e. g. deep-frying) or cycled processes ensure product entrainment.



**Gutter edges**

Raised lateral boundary, ideal for transporting bulk materials applied in a conical shape. Thus no material loss over the belt edges.

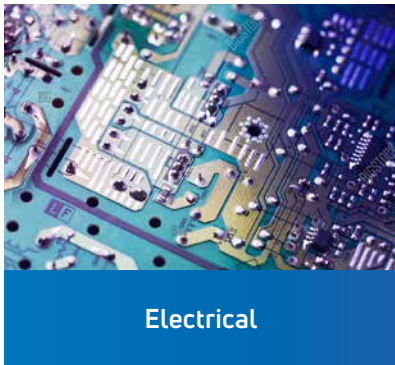


**Homogeneous edges**

The edge is created by bending up. No snagging of smallest bulk material (e. g. screws) between wire belt and gutter edge.



## Use of our products in plant engineering



**Electrical**

Corrosion-free stainless steel meets the properties required in the electrical industry. For this purpose, we supply the appropriate wire mesh.



**Filtration**

Innovative wire solutions for industrial filtration operations. Advantages include freedom from corrosion, easy cleaning, and thermostability.



**Non-Wovens**

Non-wovens are considered sustainable. We offer the heat-stable wire cloth for the thermobonding processes as well as the drying processes.



**Thermal processes**

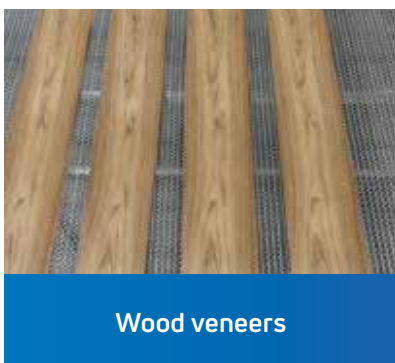
Extreme temperatures arise in the course of industrial processes. Wire belts with extreme heat essence are part of our portfolio.



**Accessories/special version**

We offer accessories in the form of edge designs, corrosion-free and heat/cold resistant materials, and other wire products.

## Use in other industrial applications



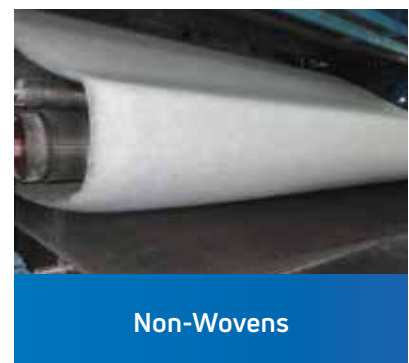
**Wood veneers**

Wafer-thin wooden panels of a few millimeters in thickness require corresponding wire meshes for the drying plants.



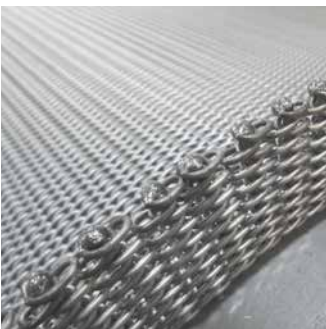
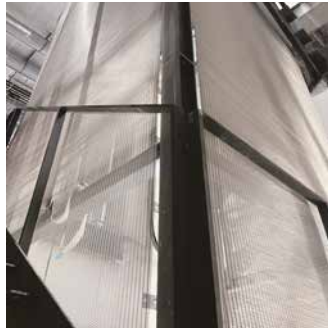
**Insulation materials**

Numerous insulating materials in the construction industry are also thermally manufactured and require the appropriate heat-resistant wire belts.



**Non-Wovens**

Heat and moisture are generated during non-woven production. We produce the wire belts for thermal bonding and drying of non-woven fabric.



kompanion.eu

Thank you for your interest in our company.  
For inquiries about our products or the preparation of a quotation, please contact us at the following contact details.

For a video consultation via Skype, Zoom, and Teams, please contact us.

## CSS Draht Schmidt GmbH

C.-S.-Schmidt-Straße 9  
D-56112 Lahnstein

phone: +49 (0) 2621 – 9694-0  
e-mail: [info@css-draht-schmidt.de](mailto:info@css-draht-schmidt.de)



## Technical Sales & Consulting

phone: +49 (0) 2621 – 9694-23  
e-mail: [info@css-draht-schmidt.de](mailto:info@css-draht-schmidt.de)