

Lutze



LUTZE CONVEYOR BELTS

One source – endless solutions

LUCON

www.lutze-group.com

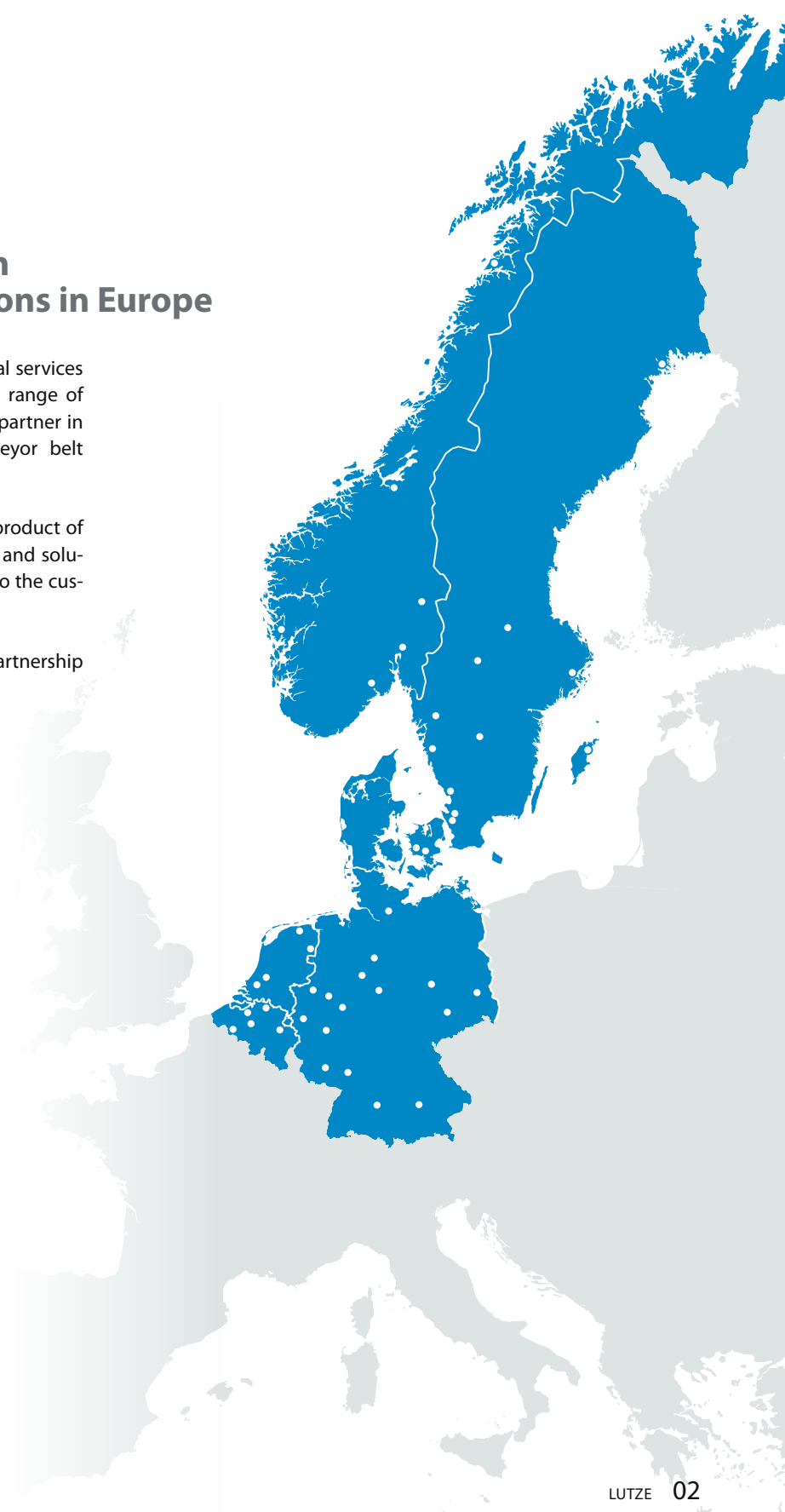
LUTZE GROUP

A team of 450 employees in a network of over 40 locations in Europe

The LUTZE Group offers comprehensive industrial services tailored to each application individually. A wide range of conveyor belts makes the LUTZE Group a reliable partner in all questions relation the operation of a conveyor belt system.

The LUTZE Group does not focus on the individual product of a static portfolio, but on a sustainable, innovative and solution-oriented concept, that adds long-term value to the customer's operation and offers cost security.

High quality standards as well as a year-long partnership with the customer forms the foundation for this.



LUCON

The home brand LUCON is developed on basis of decades of experience and offers a long service life.

With this standard range the LUTZE Group offers quick availability and covers the most common applications.

In addition to conveyor belts, LUCON also includes splicing material, accessories and conveyor components, such as rollers.



ONE SOURCE - ENDLESS SOLUTIONS

✓ best practise

customer solution ✓

LUCON is a brand of the **Lutze** GROUP

Conveyor belt basics

Every application is different

The conveyor belt is a mostly underestimated critical part of any production. Choosing the right type and maintaining the conveyor is essential to assure an interruption-free process. To shed some light on the main properties conveyor belts can be differentiated by the angle of inclination, the type of reinforcement, the construction and the rubber quality.

Smooth belts (1) are used for horizontal transportation up to approx. 20°. When the conveyed material starts to roll back conveyor belts with a profiled surface provide more grip (2). Above an angle of about 35° chevron belts (3) provide even more control over the cargo with its vulcanized cleats. This

type reaches its limit at 45°. If the application needs to go even steeper sidewall belts (4) can be manufactured to the specific needs for each customer. Cleats and sidewalls can be designed to convey up to 90°. In this vertical position elevator belts (5) are often the better solution and provide maximum transport capacity with buckets bolted onto a rubber belt.

The vast majority of small and mid-size conveyor belts are reinforced by a synthetic fabric in multiple layers. The longer the belt the more these modern fabrics expand and the weight of the belt itself brings the tear strength to its limits. Steel cord belts are option for long.



LUCON qualities and constructions

Different qualities for demanding challenges

Rubber qualities are encrypted in letters and abbreviations like Y, X, W, Z, D, H, L, MOR, OR, G, OilGM, ROS, UHR, RMA1, FDA. As this list can be continued almost endlessly, it has become a big challenge for customers to choose the right belt for their installation.

Because most customers do not have this expertise inhouse, the LUTZE group has strengthened their ability to provide exactly this service. Experts will help to find the best fit for each installation.

To do this, LUTZE offers its own line of rubber conveyor belts

under the brand name LUCON. The name not only stands for LUTZE conveyor belts, but also for manufacturing by set specifications produced by chosen companies world-wide.

With this well considered solution LUTZE takes full responsibility for the choice of the manufacturer and delivered quality in the end, so the customer doesn't have to.

Our main stocks and those of our over 40 service locations contain the following standard qualities at all times. This assures the highest availability of the most common qualities and shortest possible delivery times.

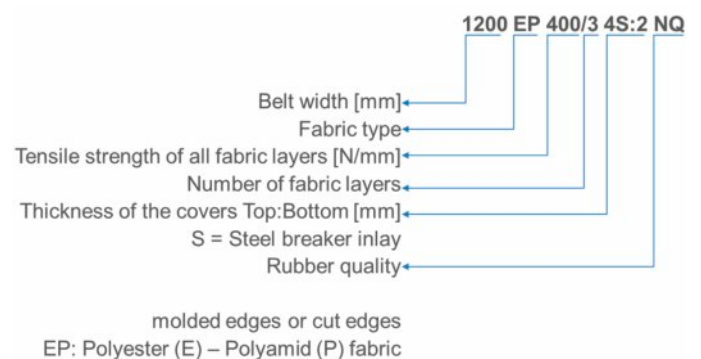
Cover rubber quality	Example for transported material	Temperatures Min / Max. [°C]	Tensile strength Min. [MPa]	Elongation Min. [%]	Abrasion max. [mm ³]	Elastomere
LUCON NQ	Solids and bulk material	- 35 / + 80	17	400	150	NR / SBR
LUCON Oil	Metal parts with oily residue	- 25 / + 80	15	400	200	NBR
LUCON OilGM	Recycling material, fertilizer	- 25 / + 80	14	350	200	NBR + SBR
LUCON White Food K	Food stuffs	- 10 / + 80	14	450	225	NBR
LUCON White Food T	Warm food stuffs	- 20 / + 120	5	500	225	NBR

The standard belts reach from 500 mm width up to 2.000 mm and are delivered with molded or cut edges.

For more challenging belt types, the LUTZE group is proud to rely on many experienced employees from all 6 countries and have collected their expertise in more than 60 year of the companies existence.

Besides smooth belts with fabric and steel cord reinforcement, LUTZE is also able to offer pipe conveyors, side wall, chevron and profiled belts. Due to decades of experience the established wide network of suppliers allows it LUTZE to also offer specialties like plaster board belts, feeder belts for wood sanding machines, filter belts, elevator belts and endlessly woven belts.

LABELING OF FABRIC CONVEYOR BELTS AT LUTZE



LUCON NQ



Most popular quality for a wide range of applications

LUCON NQ belts are made of rubber in normal quality with fabric reinforcement.

For the application in most areas at moderate ambient temperatures of approx. -35 up +80 °C, short peak max. +100°C, and without chemical contamination.



COVER PROPERTIES	Value	Unit	Standard
Tensile strength	min. 17	MPa	DIN 53504
Elongation	min. 400	%	DIN 53504
Abrasion	max. 150	mm ³	ISO 4649
Hardness	65 ± 5	Shore A	DIN 53505

Quality	Construction	Thickness ca. [mm]	Weight ca. [Kg/m ²]	Min. drive pulley-Ø [mm]	Min. return pulley-Ø [mm]
LUCON NQ	EP 200/2 2:1	5,5	6,7	250	200
LUCON NQ	EP 250/2 3:1	6,5	8,0	250	200
LUCON NQ	EP 400/3 4:2	8,6	10,2	315	250
LUCON NQ	EP 400/3 6:2	10,5	12,5	315	250
LUCON NQ	EP 500/4 5:2	10,5	12,4	500	400
LUCON NQ	EP 630/4 6:2	12,2	15,3	500	400
LUCON NQ	EP 630/4 8:3	15,0	17,9	500	400
LUCON NQ	EP 1000/4 8:3	16,0	19,1	630	500

LUCON Oil



Resistant to mineral oils and fats

LUCON Oil belts consist of a oil and fat resistant rubber compound, both the covers as well as the carcass. This makes this rubber quality stand out in heavily oil contaminated applications.

COVER PROPERTIES	Value	Unit	Standard
Tensile strength	min. 15	MPa	DIN 53504
Elongation	min. 400	%	DIN 53504
Abrasion	max. 200	mm ³	ISO 4649
Hardness	65 ± 5	Shore A	DIN 53505
Swelling at 100° C for 22 hrs. in IRM 903	25	%	ASTM D 471

Quality	Construction	Thickness ca. [mm]	Weight ca. [Kg/m ²]	Min. drive pulley-Ø [mm]	Min. return pulley-Ø [mm]
LUCON Oil	EP 250/2 3:1	6,5	8,0	250	200
LUCON Oil	EP 400/3 4:2	7,4	9,1	315	250
LUCON Oil	EP 250/2 2,5:0	6,0	7,3	250	200
LUCON Oil	EP 400/3 2:0	6,4	8,1	315	250
LUCON Oil	EP 400/3 2,5:0	6,9	8,6	315	250
LUCON Oil	EP 400/3 3:0	7,4	9,1	315	250

LUCON OilGM

Resistant to moderate amounts of oil

Similar to LUCON Oil this rubber quality is equipped with oil and fat resistant cover plates. The carcass is made from NQ rubber. When the material to be transported states no risk of penetrating into the fabric on the cut edges this quality is ideal for oil contamination on a low and medium level.

COVER PROPERTIES	Value	Unit	Standard
Tensile strength	min. 14	MPa	DIN 53504
Elongation at break	min. 350	%	DIN 53504
Abrasion	max. 200	mm ³	ISO 4649
Hardness	65 ± 5	Shore A	DIN 53505
Swelling at 100° C for 22 hrs. in IRM 903	50	%	ASTM D 471

Quality	Construction	Thickness ca. [mm]	Weight ca. [Kg/m ²]	Min. drive pulley-Ø [mm]	Min. return pulley-Ø [mm]
LUCON OilGM	EP 250/2 3:1	7,0	8,5	250	200
LUCON OilGM	EP 400/3 4:2	8,6	10,2	315	250

LUCON White



Approved for conveying food

The white rubber covers are produced in a certified food quality, certified food quality. Additionally the LUCON white belts are flame retardant, anti-static, oil and heat resistant. Perfectly suited for the use in contact with food items.

These belts are typically found in the sugar or salt industry, in the processing of flour and fine dusts and for the transport of oily or warm food. In addition wherever black rubber abrasion is not desired.



FOOD K

- Certified food quality
- Flame retardant
- Antistatic
- Oil resistant
- Suitable for use in the ATEX area

COVER PROPERTIES	Value	Unit	Standard
Abrasion	max. 225	mm ³	ISO 4649
Hardness	68 ± 5	Shore A	DIN 53505
Temperature range	-10 bis + 80	°C	
Electrical resistance	max. 3x10 ⁸	Ohm	ISO 284

FOOD T

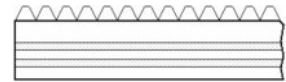
- Certified food quality
- Oil resistant
- Temperature resistant up to 120° C
- Soft covers
- As an alternative to PVC belts

COVER PROPERTIES	Value	Unit	Standard
Hardness	53 ± 5	Shore A	DIN 53505
Temperature range	- 20 to + 120° C		

Construction	Belt width			
	500 mm	650 mm	800 mm	1.500 mm
FOOD K, molded rubber edge				
EP 250/2 2,5:1,5		X	X	
EP 400/3 4:2	X	X	X	
FOOD T, cut edge				
EP 250/2 1:1				X

Quality	Construction	Thickness ca. [mm]	Weight ca. [Kg/m ²]	Min. drive pulley-Ø [mm]	Min. return pulley-Ø [mm]
LUCON WHITE FOOD K	EP 400/3 4:2	9,5	13,3	315	250
LUCON WHITE FOOD K	EP 250/2 2,5:1,5	7,0	9,7	250	200
LUCON WHITE FOOD T	EP 250/2 1:1	4,0	7,4	250	200

LUCON NQ Grip Top



Structured surface for steep transportation

Rubber conveyor belts in normal quality with profiled top cover rubber and fabric reinforcement. These belts are especially suitable for applications in which the parcelled goods, e.g. beverage crates need to be conveyed in an inclination between 20 and 35°. The rubber quality is the standard LUCON NQ.



COVER PROPERTIES	Value	Unit	Standard
Tensile strength	min. 17	MPa	DIN 53504
Elongation	min. 400	%	DIN 53504
Abrasion	max. 150	mm ³	ISO 4649
Hardness	65 ± 5	Shore A	DIN 53505

Quality	Construction	Thickness ca. [mm]	Weight ca. [Kg/m ²]	Min. drive pulley-Ø [mm]	Min. return pulley-Ø [mm]
LUCON NQ GripTop	EP 250/2 3:0	6,5	8,1	250	200
LUCON NQ GripTop	EP 400/3 3:0	7,4	9,1	315	250
LUCON NQ GripTop	EP 250/2 3:1	7,5	9,4	250	200
LUCON NQ GripTop	EP 400/3 3:1	8,4	10,1	315	250

LUCON Chevron

Higher profiles for steeper transport

LUCON Chevron belts can convey bulk material in inclinations of 35 up to 45°. The smooth belt is equipped with vulcanized cleats. For each application LUTZE can choose from different patterns, cleat heights and sizes to supply the best result possible.



PROFILE HEIGHT 18 MM, LUCON NQ

Construction	Band width [mm]	Profile width [mm]	Type
EP250/2 3:1,5	400	310	L30
	500	310	L30
	500	440	L44
	650	440	L44



L30

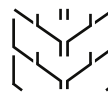


L44

Construction	Band width [mm]	Profile width [mm]	Type
EP400/3 3:1,5	500	310	L30
	500	440	L44
	650	440	L44
	800	440	L44
	800	665	L63
	1.000	665	L63
	1.200	995	L95
1.400	1.270	L129	



L63



L95



L129

PROFILE HEIGHT 25 MM, LUCON NQ

Construction	Band width [mm]	Profile width [mm]	Type
EP400/3 3:1,5	500	330	M33
	800	530	M53
	1.000	810	M81
	1.200	1.010	M101
	1.400	1.010	M101



M33



M53



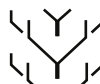
M81



M101

PROFILE HEIGHT 32 MM, LUCON NQ

Construction	Band width [mm]	Profile width [mm]	Type
EP400/3 3:1,5	500	450	H45
	650	450	H45



H45

PROFILE HEIGHT 15 MM, LUCON NQ, OPEN V-PROFILE

Construction	Band width [mm]	Profile width [mm]	Type
EP400/3 3:1,5	650	385	V385
	650	436	V436
	800	585	V585



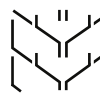
V-Profile

PROFILE HEIGHT 18 MM, LUCON OILGM

Construction	Band width [mm]	Profile width [mm]	Type
EP400/3 3:1,5	1.000	665	L63
	1.200	995	L95



L63



L95

Heinz Lutze Manufacturing

In addition to standard conveyor belts, we also supply especially customized conveyor belts for almost all areas of application. Examples that are optimally adapted to the respective purpose:

- **Belts with a special structure and elastomer quality (rubber properties)**
 - Structure: cut protection, rigidity, ...
 - Elastomer quality: heat-resistant, oil-resistant, approved for contact with food, ...
- **Profiled belts (chevron) in special designs and dimensions**
 - Griptop / Napula (profile heights: 6/15/32 mm; widths up to 2,000 mm)
 - Cleats and sidewall belts (profile height up to 300 mm; belt width up to 2,000 mm)
 - Dosing belts, belts for over belt magnets, aquamator belts
 - Belts with longitudinal guide profiles (running side) or side seals (carrying side)
- **Perforated belts**
 - Elevator belts
 - Vacuum belts for the wood and metal industry
 - Sandblasting belts
 - Belts that are screwed onto chains with LUWITAN® Screw-on cleats from our own production
- **More specialties**
 - High-precision belts for the production of plasterboards
 - Saponification belts (a functional belt in the chemical industry)
 - Filter belts

We have many years of experience and special skills in the following industries:

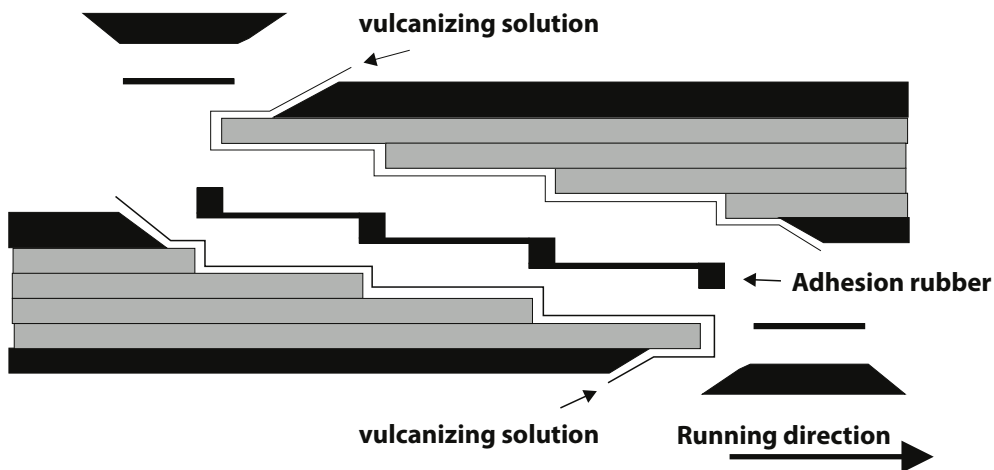
- Recycling
- Road construction
- Wood processing
- Stone processing
- Food



Hot vulcanization

With big equipment for demanding applications

Using vulcanizing presses, unvulcanized rubber and vulcanizing solution to create smooth transitions, that are immediately available even in high temperatures and with any belt cleaning system installed.

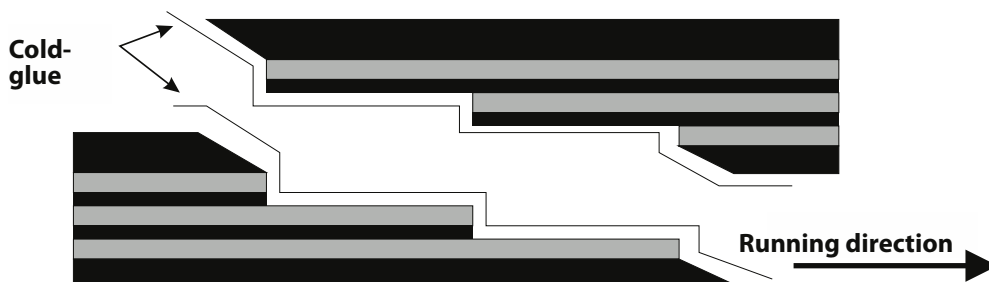


> Using LUTZE Vulkaschol 951 vulcanizing solution

Cold vulcanization / cold bonding

High quality alternative in moderate temperatures

2-component rubber glue creates a strong adhesion without vulcanizing presses assuring good performance after fully hardening.



> Using LUTZE Repaschol 178B 2-component rubber glue

Mechanical splicing

For quick belt exchanges

Mechanical fasteners from our partner MLT provide shortest assembly times and excellent results in simple applications.



The LUTZE Group offers a comprehensive range of products and services in the conveyor and plastics technology sectors.



- Conveyor technology
- Screening media
- Plastics technology
- **Luwitan** wear protection
- **Luwispray** spray coating
- **Luwirep** repair systems
- Waterjet cutting technology
- Service

