



High Performance, Rubber Top Modular Plastic Belt

**Reduce downtime and total cost of ownership
of your incline conveyors**

belt systems



Inclined Conveyor Applications

>Improving the performance and downtime of your inclined conveyor systems<

Replacing the existing PVC or modular plastic belts on your incline conveyor systems with uni-chains® high performance, Rubber Top modular plastic belt can increase throughput, improve productivity, extend belt-life and reduce your maintenance costs.

Already in use in a range of incline conveyor applications including airport baggage handling, postal sorting facilities and crate conveying systems, uni-chains® modular plastic belts with rubber inserts provide additional friction to maximize the throughput of products. With an extended belt-life, downtime is also reduced and the efficiency of your operations increased.

uni-chains® Rubber Top modular plastic belts are the most comprehensive on the market today with pitch ranging from 0.5 in. to 2.0 in. (2.5 in. - uni XLB) available in the widest range of pitches on the market. They are also compatible with the full range of uni-chains® belt accessories including tabs, side guards and product supports.



Mail conveyor system in postal sorting facility

Belt: uni Light Rubber Top



Airport baggage handling conveyor

Belt: uni QNB Rubber Top

CASE STUDY

“uni-chains® Rubber Top modular plastic belt lasts 5 months longer.”

>An international company replaced the belt in its crate cleaning application (where crates are turned over for cleaning) - a very abrasive application, with uni-chains® rubber-surfaced belt. The uni QNB Rubber Top modular plastic belt outlasted the previous belt by 5 months.<



uni QNB Rubber Top



CASE STUDY

“Improved product throughput with uni-chains® Rubber Top modular plastic belt modules.”

>Using uni-chains® rubber-surfaced belt modules in an application to transfer packages from a side flexing belt our customer was able to significantly improve product throughput. By cascading the layout of the rubber modules in the belt the customer could ensure that no packages were missed and the efficiency of the operation maximised.<

uni SNB M2 20% Rubber Top



CASE STUDY

“uni-chains® Rubber Top modular plastic belt lasts 4 times longer in high speed application.”

>Our internationally-based customer was using a belt only 5 inches long, operating at high speed to separate crates nested into each other, in order for them to be washed individually. These operating conditions, along with dirt from the crates meant that wear on the belt was a major problem. Replacing the existing belt with a uni-chains® rubber-surfaced belt increased the replacement cycle from 3 months to 1 year.<

uni SSB Rubber Top



A 152 mm (6.0 in.) uni M-QNB Rubber Top is used to pull light-weight boxes from a stacker

Belt: uni M-QNB Rubber Top

...Increased productivity, longer belt life and lower maintenance costs with uni-chains® rubber-surfaced belts...

Food Industry Applications

>Special products for use in the Food Industry<

The difficulties of conveying products on inclining conveyors apply equally in the food industry. For these applications uni-chains® can provide Rubber Top plastic modular belt solutions which are approved by the FDA.

uni M-QNB and uni Light Rough Flat with Rubber have both been approved for direct contact with food products and can therefore be used to eliminate slippage of products and improve operational efficiency.

“Improved throughput in bagel bakery.”

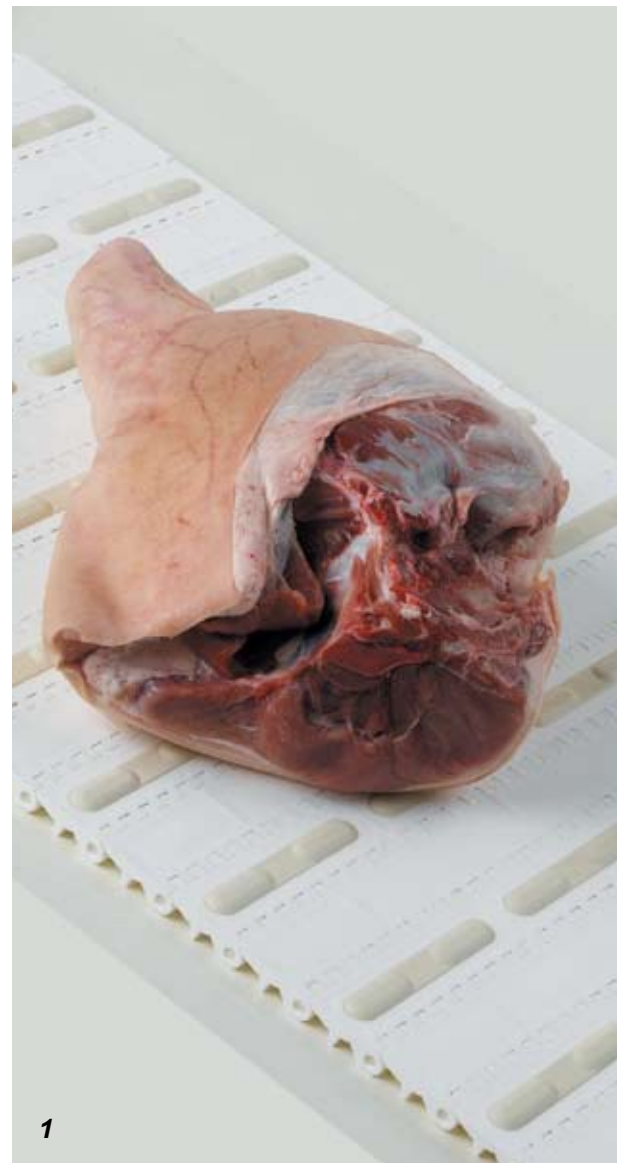
>Using uni M-QNB to replace an existing wire mesh belt meant that bagels sliding from the oven were moved away more efficiently, preventing them from becoming trapped at the transition point. The throughput of bagels through the process was significantly improved and a further benefit of the Rubber Top modular plastic belt was to cushion bagels as they hit the belt preventing bounce off.<



uni M-QNB Rubber Top



Belt: uni MPB Rubber Top





Picture 1 + 2

FDA Approved for direct contact with food



Belt: uni Light Rough Rubber Top

CASE STUDY

“No slippage in slaughterhouse.”

>In a system which transferred boxes from one conveyor to another on a slope of around 10 degrees, operators were forced to throw salt on the belt to provide the necessary friction. The uni-chains® solution was to install uni MPB with rubber modules on every seventh link, eliminating slippage and improving the overall efficiency of the operation.<

uni MPB Rubber Top



CASE STUDY

“Pulling 35 lbs up a 47 degree incline! ”

>A US Beef Plant is delighted with its uni QNB belt solution. In a cold environment, boxes containing 35 lbs of frozen meat are carried up an incline of 47 degrees with no slippage – even when additional force is applied to the boxes!<



uni QNB Rubber Top



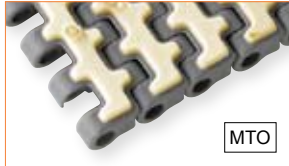
uni-chains® Plastic modular belt with rubber surface

uni M-QNB

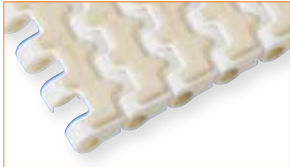
Pitch: 12.7 mm (0.50 in.), Straight running



uni M-QNB Rubber Top - black



uni M-QNB Rubber Top - natural



uni M-QNB Rubber Top - natural

uni M-QNB is the smallest pitch belt with Rubber Top surface available on the market. uni M-QNB is supplied with 2 different rubber colors and materials: uni M-QNB with black rubber (no FDA approval) and uni M-QNB with natural rubber (FDA approved).

Standard material

Non-Food industry:

Belt: PP G

Rubber: 03 K

Food industry:

Belt: PP W

Rubber: 03 N

Applications

Bakery, Bottling, Breweries,
Canning, Can Manufacturing
Corrugated and Cardboard

uni QNB

Pitch: 25.4 mm (1.00 in.), Straight running



uni QNB Rubber Top



uni QNB Rubber Top

uni QNB with rubber moulded into the links ensures a constant work flow and excellent friction. The rubber pattern allows space for return wearstrips.

Standard material

Non-Food industry:

Belt: PP G B

Rubber: 03 K

Food industry:

Belt: PP G

Rubber: 03 N

Applications

Automotive, Bakery, Beverage,
Seafood, Meat, Packaging,
Poultry, Snackfood, Material-
Handling, Fruit and Vegetable

MTO Moulded to order

uni Light

Pitch: 19.1 mm (0.75 in.), Straight running



uni Light Rough Rubber Top



uni Light Flat Rubber Top



uni Light Rough Rubber Top
with indented sides



uni Light Rough Rubber Top
FDA approved and with indented sides

uni Light is available with a molded rubber surface in a rough and a flat version for increased friction between belt and conveyed products. uni Light with rubber is also available in materials approved by the FDA for food industry applications.

Standard material

Non-Food industry:

Belt: PP K

Rubber: 03 K

Food industry:

Belt: PP W G

Rubber: 03 N

Applications

Automotive, Bakery, Beverage, Can
Manufacturing, Food Processing,
Fruit and Vegetable, Packaging,
PET Bottles, Tissue

MTO Moulded to order

uni SNB M2 20%

Pitch: 25.4 mm (1.00 in.), Straight running



uni SNB M2 20% Rubber Top



uni SNB M2 20% Rubber Top

uni SNB M2 20% Rubber Top is the hygienic solution for single liners and is ideal for inclined transportation of boxes. uni SNB M2 20% Rubber Top with white rubber has the FDA approval.

Standard material

Non-Food industry:

Belt: PP G B

Rubber: 03 K

Food industry:

Belt: PP W

Rubber: 03 N

Applications

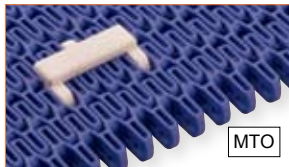
Bakery, Bottling, Breweries,
Canning, Can Manufacturing,
Corrugated and Cardboard,
Meat, Poultry, Fruit and
Vegetable

uni Flex SNB

Pitch: 25.4 mm (1.00 in.), Side flexing



uni Flex SNB-CR Rubber Top



uni Flex SNB with Rubber Support

uni Flex SNB is the only side flexing belt available with rubber for applications such as inclined conveyors.

Standard material

Non-Food industry:

Belt: PP B

Rubber: 03 K

Food industry:

Belt: PP W

Rubber: 03 N

Applications

Automotive, Bakery, Beverage,
Food Processing, Packaging

Rubber Support: 01 N

uni SSB

Pitch: 38.1 mm (1.50 in.), Straight running



uni SSB Rubber Top

uni SSB with rubber has been designed specially to meet the requirement for inclined conveyors for filled and empty cans or plastic bottles.

Standard material

Belt: POM-LF BR

POM-SLF G

GR K

Rubber: 05 I

Applications

Bakery, Bottling, Breweries,
Canning

MTO Moulded to order

uni MPB

Pitch: 50.8 mm (2.00 in.), Straight running



uni MPB Rubber Top (Type - RB4)

uni MPB with rubber is designed for hygienic and heavy duty transport, mainly in the food industry.

Standard material

Belt: POM-DI W

Rubber: 01 N

Applications

Automotive, Bakery,
Beverage, Food Processing

Rubber specifications

Rubber code	Rubber color	Hardness (shore A)	FDA
01 I	Natural	64	Yes
03 N	Natural	60	Yes
03 K	Black	60	No
05 I	Ivory	85	Yes

Material specifications for belts

PP = Polypropylene

PE = Polyethylene

POM-DI/LF = Polyoxymethylen with improved self-lubricating components

POM-SLF = POM polymers with self-lubricating additives to obtain the lowest possible friction resistance

G = Grey

K = Black

B = Blue

W = White

BR = Brown

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