

# What is a Deboning Belt?

The belt is used in food industries to separate the meat from bones and sinews, used in poultry, pork, turkey and fish processing as well to get pulp or juice in the vegetable/fruit processing.

## Where are deboning belts used:

- MEAT Company (hamburgers-sausages chicken, turkey, pork).
- Fish Companies (SURIMI and fish paste)
- Fruit Processing companies
- (Fruit juices –Potato-Tomato)
- Cheese Company (Cheese paste)
- Waste industry for food at GDO (waste food)

## Alternative definition:

- Deboning belts
- Separator belts
- Squeezing belts
- Deboner belts



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14 Lauda Road

• Killarney Gardens

• Western Cape, 7441

Phone: 021 557 0129

• Mobile: 083 238 1840

• Fax: 021 557 3627

sales@beltingedge.co.za

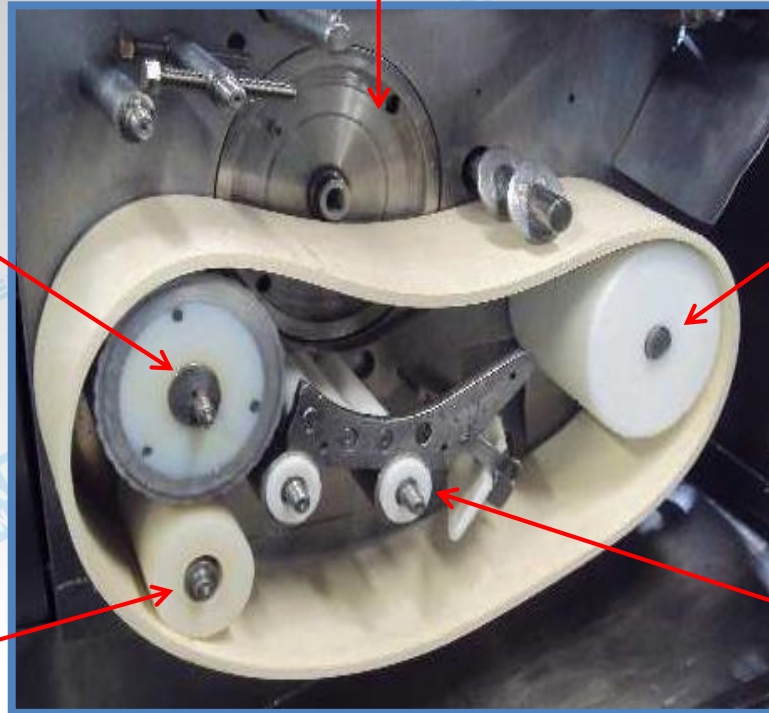
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Grinding Disk

Drive roller

Driven roller



Tensioning roller

Sustaining rollers set



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# Example of Functioning

The belt pushes the product towards a rotating, perforated drum. Meat is gently pressed through the perforation of the drum and the other residues are scraped off the outer drum shell. This process enables the retrieval of food parts otherwise lost.



Picture 1: typical Deboning System



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# Comparison Rubber Belts VS PU Belt

## Rubber Belts Reinforced

- Better grip
- Better yield against no material flow
- Cheaper price
- Low durability in sharp pork back bones & turkey bone applications

## PU Belts Reinforced

- Less grip vs. transmission roller
- Less yield & static material flow problem
- Expensive price
- Low durability in sharp pork back bones & turkey bone applications

There is a common area where rubber and PU could compete (PU belts may have a better commercial strategic distribution and availability). PU belts are priced 4-5 times more than Rubber belts.

Rubber belts could perform as PU belts within a end life/ price ratio.



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# Technical Tips

**How to treat the rubber squeezing belts -Technical tips to underline to the clients if they were used to working with PU belts:**

## **Squeezing belt in the machine**

- Before being used in the machine, the temperature of the squeezing belts must be 20 °C!
- It is absolutely necessary to avoid dry running!
- Never run a new squeezing belt at maximum pressure!
- Pointed and sharp-edged raw material damages the squeezing belt!
- Check squeezing belts at regular intervals for material changes and detachments and replace if necessary!
- Avoid high tension.
- Release the tension of the squeezing belt and the pressure exerted on the perforated drum whenever the machine is shut down!
- Never use chlorinated cleaning agents for cleaning, but drinking water (abt.60°C) only!
- Store squeezing belts outside the machine in a cool and dark place



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# Technical Specification of Deboningroll Belts

TECHNICAL SPECIFICATION OF DEBONINGROLL BELTS	
Description	Data
Rubber Compound	Natural <sup>2</sup>
Colour	White
No. of plies	3
Total Thickness <sup>3</sup>	12 ÷ 26 mm
Hardness	70° ± 5° ShA <sup>4</sup>
Profile SP 102 <sup>5</sup>	Rice grain pattern
Edges	Fully covered

*Tab. 1*

<sup>1</sup> US Department of Agriculture. Any DEBONINGROLL belt is marked "USDA APPROVED"  
<sup>2</sup> Oil resistant compound available  
<sup>3</sup> Higher thickness available upon request  
<sup>4</sup> 75° ShA also available  
<sup>5</sup> Other profiles available upon request



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## Replacement Sizes and Specifications

Baader	Machine Number		Size	Part Number
	601	Rubber	205mm x 1540mm x 13mm	37.01.0271
	601	Urethane	205mm x 1540mm x 13mm	
	603	Rubber	205mm x 2000mm x 13mm	37.01.0227
	603	Urethane	205mm x 2000mm x 13mm	37.01.0234
	605	Rubber	260mm x 2820mm x 15mm	37.01.0239
	605	Urethane	260mm x 2820mm x 15mm	37.01.0241
	695	Rubber	257mm x 2390mm x 15mm	37.01.0218
	696	Rubber	205mm x 1330mm x 12mm	37.01.0205
	699	Rubber	260mm x 2390mm x 15mm	37.01.0218
699	Urethane	260mm x 2390mm x 15mm	37.01.0236	

SepaMatic	400	Rubber	205mm x 1300mm x 12mm
	1200	Rubber	179.8mm x 2375mm x 15mm
	2000	Rubber	259.5mm x 2375mm x 15mm
	4000	Rubber	259.5mm x 2800mm x 16mm

Selo	Rubber	9 5/8 x 68 1/2 x 5/8
	Urethane	9 5/8 x 68 1/2 x 5/8

Toyo	405	257mm x 2299mm x 19mm
	405WN	347mm x 2400mm x 19mm

Bibun	SDX-16	242mm x 1670mm x 16mm
	SDX-18	355mm x 1925mm x 20mm

## Customer's First Questions

Do you have a

Baader-  
Modernpack-  
Selo-  
Bibun –  
Toyo

machine ?



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