TECHNICAL CATALOGUE

MAXBelt®

CONVEYOR BELTS

A Brazilian Company

Research and Innovation Developing High Performance Solutions

The quality and performance of MAXBELT solutions in conveyor and elevator belts have its origin in the use of high-standard materials, offering extreme resistance and durability, even facing the most adverse and severe conditions on large scale bulk materials transportation.

MAXBELT commitment to high performance products is the result of the continuous dedication of the company's research and innovation department, a place where knowledge and quality come together in the search for the best solutions for customers.

Currently, MAXBELT products meet, in a specialized manner, the different demands of the productive and logistical sectors of the market, covering industries such as: mining, steel, ports, cement, agribusiness and others.

Carcasses

Using high strength wires, MAXBELT carcasses are made of Polyester/Nylon (MB), Nylon/Nylon (MBN) and Polyester/Nylon/Nylon (SWE).

MAXBELT carcasses have thermally stabilized plies through a technology that guarantees excellent dimensional stability, providing:

- Resistance to the most severe and adverse working conditions
- High absorption and resistance to impacts
- Flexibility and maximum resistance to fatigue
- Excellent adhesion between components
- Resistance to mold and moisture
- Cut and/or protected edges

Rubber cover types

In order to withstand the presence of abrasive materials, deteriorating chemical elements, diverse oils and high temperatures, MAXBELT conveyor belts rubber covers are developed to protect the carcass, providing greater product durability and a lower final cost per metric ton conveyed.

This catalogue presents all necessary technical specifications to customers, so that they are able to choose which product best suits their needs, depending on what abrasive materials and conditions their activity is performed.

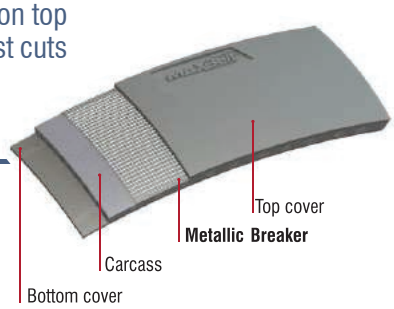
Once the characteristics of the conveyed materials are known, MAXBELT also provides a skilled technical team ready to assist and recommend the best solutions in covers and carcasses, so that customers can get the maximum yield of the product.

HIGH PERFORMANCE PRODUCT LINE

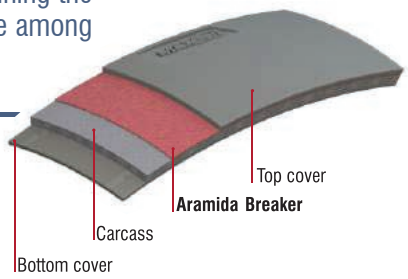
When high resistance is more than essential, MAXBELT offers a complete line of special belts, all designed to operate under very severe conditions, preventing as much as possible premature wear and tear.

BREAKER® – The Metallic and Aramid Breaker lines were developed for applications where conveyed material and/or equipment conditions present incidence of cuts or tears that can reduce significantly the life of the belt.

STEEL MAX PROTECT® – Cover made up of a high-strength steel mesh that allows it to be fixed on top and bottom cover of the belt. STEEL MAX PROTECT® offers extra protection for the carcass against cuts and rips, but it is not recommended for equipment with metal detectors.



ARAMIDA MAX PROTECT® – The uniqueness of this product lies in its effectiveness in combining the puncture and cut resistance of the ARAMIDA MAX PROTECT® cover, with the ability to operate among metal detectors equipment causing no interference.



WEAR **INDICATOR®**

The Wear Indicator® is a safety item developed and patented by MAXBELT in order to assist customers in the correct management of belt replacing (planned replacement).

In addition to facilitate the replacing management, the indicator also offers the possibility for the professional in charge to set the security level that best suits the characteristics of the activity.

Straight Warp®
Conveyor Belts

1- High resistance with low elongation while transporting large loads.

2- Great resistance to longitudinal cuts.

3- Great troughability combined with excellent load support.

4- Impact resistance far above conventional belts.

STRAIGHT WARP® concept

Straight warp (polyester)

Binder warp (nylon)

Weft (nylon)

MAXBELT **AUTOCENTRANTE®** Belts

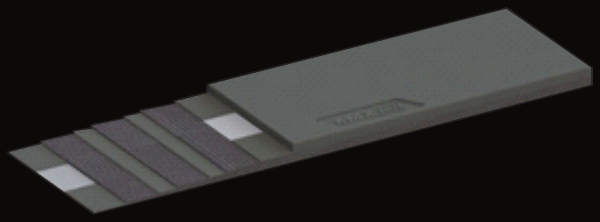
Aiming at meeting the demands of customers, which have as a main requirement the precise alignment of the belts in their transport structure, MAXBELT developed the carcass of **AUTOCENTRANTE®** belts, a product designed to offer a unique self-centering effect that allows more quality and safety in specialized transport lines.

AUTOCENTRANTE® belts were designed for critical working conditions applications, such as:

· Reversible conveyors with difficult alignment.

· Mobile feeding with difficult load centralization (Stacker-reclaimers, Stackers, forklifts and others).

· Conveyors with structural issues of problematic correction.



Other covers shall be available. Consult MAXBELT and receive the best recommendation for your type of business.

BUSINESSES	COVER
· Steel Industry	· HD MINERAÇÃO
· Mining Industry	· HD
· Aggregate	· HDS
· Cement Industry	· HDS EXTREME
· Chemical and Fertilizer Industry	· LD
· Mineral Processing	· LD MINA
· Land Transfer Conveyors	· SHT
· Ports	· SHT SUPER
· Salt Industry	· FOR
· Reversible conveyors	

TECHNICAL INFORMATION

The decentralization in conveyors can cause misalignment of the belts, resulting in certain problems, such as: clogging, reduced production, and deterioration and/or damage to the conveyor belt.

In this kind of situations, in which there is a consequent and drastic reduction in the belts' service life, MAXBELT has developed the **AUTOCENTRANTE®** Belt, a product that is self-aligning with the conveyor without requiring any modification or special accessory.

MAXBELT AUTOCENTRANTE® belts main advantages:

· Ideal for operation amid equipment in which belt misalignment may cause adverse results to the belt or to the material conveyed, due to its narrow width, lateral barriers and peripherals that restrict lateral movement

· Damage reduction to belt edges

· Excellent centralization in reversible conveyors

· Alignment on conveyor structural curves

· Increase of belt's service life due to alignment preservation

Rubber cover

Conveyor belts rubber covers are developed for maximum protection of the carcass considering the different materials conveyed; therefore, it is of utmost importance at the time of belt acquisition the discrimination of factors, such as: operational conditions in the use of the belt, type of materials conveyed and their respective physical and chemical characteristics. All of these factors influence the correct specification of the product in order to obtain maximum efficiency.

HD®

Compound developed to resist abrasion, cuts and bad weather, it is a great option for severe activities and for activities with rough edged or sharp materials, such as: iron ore, quartz, granite, limestone, basalt, gravel, manganese, petroleum coke, slag, etc.
The HD® compound is recommended for materials reaching peak temperatures up to 194°F and complies with DIN W (0.00549 in^3).

HD-MINERAÇÃO®

Cover specially developed to meet large mining companies and their strictest specifications. Product aimed at offering high resistance to impacts, cuts and abrasion, even facing heavy mining.
With maximum abrasion loss of 0.00427 in^3, it exceeds by more than 20% DIN W standard requirements.
HD-MINERAÇÃO® is designed to operate with temperature peaks up to 194°F.

HDS®

Excellent performance compound designed to meet severe and high-impact operations, preventing tears. HDS® cover was developed to extend belt's service life, thereby reducing the need for replacement. HDS® is recommended for materials reaching peak temperatures up to 194ºF with excellent abrasion resistance not exceeding 0.00305 in^3 of maximum wear and tear.

HDS-MINERAÇÃO®

This compound brings the technical quality of the HDS® family covers, offering excellent performance in severe and high impact applications, combining anti-static and self-extinguishing flame properties that meet ISO 340 standards (ASTM D 378 13.2 flame test / MSHA 30 CFR Part 18) and ISO 284 for electrical conductivity. HDS-MINERAÇÃO® stands out for the high performance in this segment, as it combines operational safety with a maximum abrasion loss of 0.00305in^3.

HDS-EXTREME®

Cover designed for extremely severe and high impact applications, providing greater resistance to cuts and ripping and tearing. HDS-EXTREME® is recommended for materials reaching temperature spikes up to 176ºF and has extreme resistance to abrasion, not exceeding 0.00183 in^3.

HDS-W®

Cover developed to withstand high impacts and cuts. It has superior performance on conveyors with extremely severe application, such as those in which there is high impact and in the transportation of logs that reach the belt in unfavorable conditions. It can operate at temperature spikes up to 194ºF and meets the standard ARPM 2, (0.01068 in^3).

HDS-MINA®

Featuring all HDS® cover advantages, such as maximum abrasion of 0.00305 in^3, excellent performance on severe high impact applications and or high risk of tear; this cover combines anti-static and self-extinguishing flame properties in order to meet ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity, making HDS MINA® ideal for underground mines.

HDS-IMPACT®

Composed of the qualities found in HDS® product line, this cover was specially developed to withstand the rigors of applications in primary crushers, in which abrasiveness, cuts, tears and strong impact are found. This cover was designed to overcome the maximum abrasion resistance defined by standard DIN W (0.00305 in^3).

LD®

Resistant and durable in highly abrasive applications; subject to cuts and to ripping and tearing, as well as in severe working conditions where HD® cover is not needed. It maintains good flexibility at low temperatures. Recommended for materials such as sand, gravel, coal, cement, phosphate, sulfur, salt, limestone, talc, cereal grains, wood, lime, etc. Suitable for materials reaching temperature peaks up to 176ºF. Abrasion level DIN X (0.00732 in^3), and ARPM I.

LD-MINA®

Resistant and durable cover with good flexibility at low temperatures, designed to meet medium abrasion applications. It was designed for underground mining, in which anti-static and self-extinguishing properties are required. Recommended for materials reaching temperature peaks up to 176ºF. It meets the abrasion category level DIN X (0.00732 in^3), ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity.

LD-REAÇÃO®

Cover developed for application in the fertilizer industry promoting greater resistance amid chemical reaction processes and chemical attacks. It also offers excellent abrasion resistance and can be used in processes up to 248°F.

RO®

Compound developed with moderate resistance in order to meet applications with oil (animal/vegetable) impregnation, slightly acids or basics.
It is a great option for cotton seed transportation. This product is recommended for applications with temperatures up to 194ºF.

GRÃO®

Compound with good oil resistance, specially developed for grain transportation, bran pellets and others, presenting self-extinguishing and anti-static properties in its composition, suitable for use in silos, warehouses and port corridors. Its composition allows it to work at temperatures up to 194ºF, complying with ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity.

GRÃO-SUPREME®

Top quality cover for extreme transportation conditions of bran, soybean meal, grains, DDG and DDGS with oil percentage up to 20%, in addition to resistance to the action of acid and alkaline products, such as insecticides and pesticides. It has good abrasion resistance and withstands temperatures up to 248ºF. It meets ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity

GRÃO-EXTREME®

A cover that combines anti-static and self-extinguishing flame properties in order to meet ISO 340 standards (ASTM D 378 13.2 flame test / MSHA 30 CFR Part 18) and ISO 284 for electrical conductivity, maintaining the advantages of the traditional GRÃO® cover, associated with a maximum abrasion loss of 0.00305in^3, GRÃO EXTREME® is the ideal solution for applications in Port Terminals.

SBK®

Cover designed to meet transportation in port terminals and corridors, withstanding temperatures up to 176ºF.
It has good abrasion resistance (0.00732 in^3) and meets ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity.

Rubber cover

HOR®
Product developed to offer excellent resistance in the transportation of products with high presence of mineral and vegetable oils, urea and other elements with severe acidity conditions.
Cover with good abrasion resistance and suitable for the transportation of materials with temperatures up to 248ºF, being recommended for metal parts bathed in oil, soybean meal, animal or vegetable fats, compost, fertilizers in general and insecticides.

HOR SUPREME®
This compound presents the same characteristics as HOR®, that is, it has excellent resistance in the transportation of products with high presence of mineral and vegetable oils with severe acidity conditions. Moreover, it offers an increased abrasion resistance capacity, and withstands temperatures up to 257ºF. Cover designed for the transportation of green cake, soybean meal and others.

FOR®
Cover presenting the necessary qualities for the transportation of fertilizers, highly resistant to oils. It presents anti-static and self-extinguishing properties and withstands temperatures up to 248ºF. It meets ISO 340 (ASTM D 378-13.2 flame test standard/ MSHA 30CFR Part 18) and ISO 284 on electrical conductivity

ORANGE®
Cover designed to meet the needs of citrus transportation, especially oranges.
This compound offers protection against acids from fruit peels, before those fruits are squeezed, and withstands temperatures up to 248ºF.

ORANGE-HT®
Specially developed for the transport of citrus derivatives. Its composition offers high resistance to the action of the element D'limonene, with temperatures reaching up to 248°F with peaks up to 284°F.

PINNUS®
Compound developed to provide excellent resistance to abrasion and cuts. This cover also stands out for being designed to prevent contamination and deterioration that may be caused by resins that exist in pine wood splinters and chips.

SHT®
Cover specially designed to avoid cracking or hardening that can be caused by thin and hot abrasive materials.
This compound also has high heat resistance and can be applied to convey materials with temperatures up to 302ºF. It is ideal for products such as ashes, industrial carbon, petroleum coke, slag, foundry sand, clinker, cement and cast metals.

SHT-SUPER®
This cover presents the same qualities and characteristics as the SHT® model, that is, it was designed to offer greater heat resistance and to withstand temperatures up to 302ºF, without showing cracks or hardening during its application. Moreover, its composition allows a superior performance in relation to abrasion resistance.

NOTE: For SHT® and SHT-SUPER® compounds, the following minimum top cover thicknesses are recommended for maximum service life:

- Material temperature up to 194ºF - 3/16”
- Material temperature from 195.8ºF to 230ºF - 1/4”
- Material temperature from 231.8ºF to 266ºF - 5/16”
- Material temperature from 267.8ºF to 302ºF - 3/8”

SH-EPDM®
The highlight of this cover is to be specially designed to offer maximum resistance to abrasive materials, as well as resistance to high temperatures, which can be applied in activities that reach up to 399.2°F.
It is often used in the transportation of materials such as clinker, sinter, iron pellets, foundry sand, etc.

NOTE: For SH-EPDM® compound, the following minimum top cover thicknesses are recommended for maximum service life:

- Material temperature up to 320ºF - 1/4”
- Material temperature from 321.8ºF to 356ºF - 5/16”
- Material temperature from 357.8ºF to 399.2ºF - 3/8”

UNDER EXTREME®
Cover designed specially to resist extreme conditions in any application in the mining sector. Offers antistatic properties, allied to excellent abrasion resistance. Under Extreme provides maximum safety conditions in underground mines. Compound fire retardant certified, meeting the strict flame test as per MSHA CFR part 14.

COMPOUNDS

	HD	HD - MINERAÇÃO	HDS	HDS-EXTREME	HDS W	HDS-MINA	HDS-IMPACT	LD	LD-MINA	RO	GRÃO	GRÃO-SUPREME	HOR	HOR-SUPREME	LD-REAÇÃO	SHT	SHT-SUPER	SH-EPDM	ORANGE	ORANGE HT	SBK	PINNUS	FOR
Agriculture	■				■	■		■			■	■	■	■	■								
Asphalt												■	■	■									■
Aluminum	■	■	■	■	■	■		■						■	■	■	■	■					
Sugar Cane	■						■	■															
Coal	■	■	■	■		■		■	■												■		
Ceramic	■	■	■	■	■			■		■			■			■	■						
Citrus																			■	■			
Cement/Concrete	■	■	■	■	■		■	■		■			■	■		■	■	■					■
Fertilizers	■	■	■	■	■			■					■		■	■	■				■		■
Foundries/Metal Casting	■	■	■	■	■		■	■								■	■	■					
Grains										■	■	■	■								■		■
Wood	■	■	■	■	■		■	■		■												■	
Mining	■	■	■	■	■	■	■	■															
Package handling								■															
Pulp and paper Industry	■	■	■	■	■			■		■			■									■	
Quarries	■	■	■	■	■		■	■															
Pelletizing		■	■	■	■			■						■		■	■	■					
Sand port	■	■	■	■	■			■															
Grain port											■	■									■		■
Ore port	■	■	■	■	■																		
Salt Industry	■	■	■	■	■			■															
Steel Industry	■	■	■	■	■	■	■	■	■				■	■			■	■			■		
Sugar / Terminal / Handling									■												■		
Glass	■	■	■	■	■			■		■			■	■		■	■	■					

Conveyor **Belts**

MB Conveyor Belts (Polyester/Nylon)

BELT TYPE / # OF PLIES		MB 140/2	MB 140/3	MB 220/2	MB 220/3	MB 220/4	MB 220/5	MB 320/3	MB 320/4	MB 420/3	MB 420/4	MB 420/5	MB 500/3	MB 500/4	MB 500/5	MB 500/6
Allowable Working Tension (PIW = lb/in Width)		160	240	251	377	502	627	548	730	718	958	1197	855	1140	1425	1720
Carcass Gauge (in) ± 0.039 in		0.087	0.150	0.102	0.169	0.236	0.303	0.217	0.299	0.236	0.323	0.413	0.295	0.394	0.500	0.606
Approximate Carcass Weight (lb/ft^2) ±10%		0.47	0.86	0.51	0.88	1.27	1.64	1.15	1.64	1.35	1.90	2.46	1.60	2.19	2.79	3.38
Drive Pulley Minimum Diameter (in)																
Tension	Above 61%	12	16	18	20	24	30	24	30	30	36	42	36	42	48	54
	From 31% to 60%	10	12	16	18	20	24	20	24	26	30	36	30	36	40	48
	Up to 30%	8	10	12	16	18	20	16	20	20	24	30	24	30	36	40
	Tail and Snubs	8	10	12	16	18	20	16	20	20	24	30	24	30	36	40
Troughability Support - Minimum Belt Width (in)																
Idlers Angle	20º	12	18	16	24	30	30	24	36	30	36	42	36	42	48	54
	30º/35º	14	20	18	24	36	30	30	36	30	36	42	36	42	48	54
	45º	20	30	24	30	36	36	36	42	36	42	48	42	48	48	54
Load Support - Maximum Belt Width (in)																
Trough Angle 20º																
0 ~ 50 lb/ft^3		42	54	54	72	84	84	78	84	84	84	84	84	84	84	84
50 ~ 100 lb/ft^3		36	48	48	66	84	72	72	84	84	84	84	84	84	84	84
100 ~ 150 lb/ft^3		30	42	42	54	72	66	66	72	72	84	84	72	84	84	84
150 ~ 200 lb/ft^3		24	36	36	54	66	60	60	66	66	84	84	66	84	84	84
Trough Angle 35º																
0 ~ 50 lb/ft^3		36	48	48	66	84	72	72	84	84	84	84	84	84	84	84
50 ~ 100 lb/ft^3		30	42	42	54	72	66	66	78	72	84	84	72	84	84	84
100 ~ 150 lb/ft^3		30	36	36	48	66	60	60	66	66	84	84	72	84	84	84
150 ~ 200 lb/ft^3		20	32	32	48	60	54	54	60	60	72	84	60	72	84	84
Trough Angle 45º																
0 ~ 50 lb/ft^3		30	42	42	60	84	72	66	78	72	84	84	72	84	84	84
50 ~ 100 lb/ft^3		24	36	36	48	72	60	60	72	60	84	84	60	84	84	84
100 ~ 150 lb/ft^3		20	30	30	42	60	54	54	60	54	72	84	60	84	84	84
150 ~ 200 lb/ft^3		20	30	24	42	60	48	48	54	48	60	72	54	72	72	84

Take Up (percentage) considering center to center distance

Take Up Type	% of Allowable Working Tension			
	Vulcanized Splices		Mechanical Splices	
	100%	75% or less	100%	75% or less
Screw	3%	2.5%	1.5%	1%
Automatic	3%		1.5%	1%

MBN Conveyor Belts (Nylon/Nylon)							
BELT TYPE / # OF PLIES		MBN 160/2	MBN 240/2	MBN 240/3	MBN 240/4	MBN 350/3	MBN 350/4
Allowable Working Tension (PIW = lb/in Width)		180	270	410	550	600	800
Carcass Gauge (in) ± 0.039 in		0.091	0.098	0.165	0.236	0.224	0.307
Approximate Carcass Weight (lb/ft^2) ±10%		0.55	0.59	0.90	1.29	1.19	1.66
Drive Pulley Minimum Diameter (in)							
Tension	Above 61%	13	18	20	24	24	30
	From 31% to 60%	8	16	18	20	20	24
	Up to 30%	6	12	16	18	16	20
	Tail and Snubs	6	12	16	18	16	20
Troughability Support - Minimum Belt Width (in)							
Idlers Angle	20º	14	18	24	30	30	36
	30º/35º	14	18	24	30	30	36
	45º	20	24	30	36	36	42
Load Support - Maximum Belt Width (in)							
Trough Angle 20º							
0 ~ 50 lb/ft^3		42	54	72	84	84	84
50 ~ 100 lb/ft^3		36	48	72	84	84	84
100 ~ 150 lb/ft^3		30	42	60	72	72	84
150 ~ 200 lb/ft^3		24	36	54	60	60	72
Trough Angle 35º							
0 ~ 50 lb/ft^3		36	48	72	84	84	84
50 ~ 100 lb/ft^3		30	42	60	72	72	84
100 ~ 150 lb/ft^3		30	36	54	60	60	72
150 ~ 200 lb/ft^3		20	30	48	54	54	60
Trough Angle 45º							
0 ~ 50 lb/ft^3		36	42	60	72	72	84
50 ~ 100 lb/ft^3		24	36	54	60	60	72
100 ~ 150 lb/ft^3		20	30	48	54	54	60
150 ~ 200 lb/ft^3		20	24	42	48	48	54

Take Up (percentage) considering center to center distance					
Take Up Type	% of Allowable Working Tension				
		Vulcanized Splices		Mechanical Splices	
		100%	75% or less	100%	75% or less
	Screw	4%	3%	1.5%	1%
	Automatic	5%	5%	2.0%	1.5%

Straight Warp Conveyor Belts®

SW Conveyor Belts (Polyester)						
BELT TYPE / # OF PLIES		SW 400	SW 600	SW 800	SW 900	SW 900/2
Allowable Working Tension (PIW = lb/in Width)		228	343	457	514	514
Carcass Gauge (in) ± 0.039 in		0.106	0.138	0.152	0.169	0.234
Approximate Carcass Weight (lb/ft^2) ±10%		1.30	1.80	1.96	2.20	2.59
Impact Rating (lb-ft)		629	919	1172	1374	1562
Drive Pulley Minimum Diameter (in)						
Tension	81% to 100%	16	18	20	20	24
	61% to 80%	14	16	18	18	20
	Up to 60%	12	14	16	16	18
Troughability Support - Minimum Belt Width (in)						
Idlers Angle	20º	16	20	24	24	24
	35º	20	24	30	30	30
	45º	24	30	36	36	36
Load Support - Maximum Belt Width (in)						
Trough Angle 20º						
0 ~ 40 lb/ft^3		60	72	84	84	84
40 ~ 80 lb/ft^3		48	66	72	72	84
80 ~ 120 lb/ft^3		40	60	66	72	84
120 ~200 lb/ft^3		36	48	60	66	72
Trough Angle 35º						
0 ~ 40 lb/ft^3		48	66	72	72	84
40 ~ 80 lb/ft^3		36	54	60	66	72
80 ~ 120 lb/ft^3		36	48	65	60	66
120 ~ 200 lb/ft^3		30	40	48	54	60
Trough Angle 45º						
0 ~ 40 lb/ft^3		40	54	60	66	72
40 ~ 80 lb/ft^3		36	48	54	60	72
80 ~ 120 lb/ft^3		30	40	48	54	60
120 ~ 200 lb/ft^3		24	36	40	48	54

SW Elevator Belts (Polyester)						
BELT TYPE / # OF PLIES		SW 400 1 Ply	SW 600 1 Ply	SW 800 1 Ply	SW 900 1 Ply	SW 900 2 Plies
Allowable Working Tension (PIW = lb/in Width) - Grains		188	274	371	440	440
Allowable Working Tension (PIW = lb/in Width) - Industrial		171	246	331	400	400
Minimum Pulley Diameter (in)						
Tension	Type of Pulleys	in	in	in	in	in
	81% to 100%	16	18	20	20	24
	Between 61% to 80%	14	16	18	18	20
	Up to 60%	12	14	16	16	18
Maximum Elevator Bucket Projection (in)						
	Centrifugal Elevators	8	10	10	10	12
	Continuous Elevators	7	9	10	12	13

Elevator Belts

MB 2200 Elevator Belts - (Polyester/Nylon)

BELT TYPE / # OF PLIES		MB 2200 3 PLIES	MB 2200 4 PLIES	MB 2200 5 PLIES	MB 2200 6 PLIES
Allowable Working Tension (PIW = lb/in Width) - Grains		257	343	428	514
Allowable Working Tension (PIW = lb/in Width) - Industrial		228	308	383	463
Maximum Bucket Projection (in) - Grains	MATERIAL UP TO 62.4 lb/ft³	8	10	10	10
Maximum Bucket Projection (in) - Industrial	SPACED	7	9	10	11
Material Weight < 100lb/ft³ - Granulometry < 1 in	CONTINUOUS	7	9	10	11
Maximum Bucket Projection (in) - Industrial	SPACED	6	8	9	9
Material Weight < 100 lb/ft³ - Granulometry < 2 in	CONTINUOUS	6	8	9	9
Carcass Gauge (in) ± 0.039 in	(in)	0.169	0.236	0.283	0.346
Approximate Carcass Weight (lb/ft²) ±10%	(lb/ft²)	0.88	1.27	1.68	2.07
Approximate Cover Weight LD - 1/32" ± 10%	(lb/ft²)	0.19	0.19	0.19	0.19
		Drive Pulley Minimum Diameter (in)			
% - Allowable Working Tension	Over 61% to 80%	20	25	30	36
	41% to 60%	18	20	25	30
	Up to 40%	16	18	20	25

MB 2500 Elevator Belts - (Polyester/Nylon)

BELT TYPE / # OF PLIES		MB 2500 3 PLIES	MB 2500 4 PLIES	MB 2500 5 PLIES	MB 2500 6 PLIES
Allowable Working Tension (PIW = lb/in Width) - Grains		325	434	542	651
Allowable Working Tension (PIW = lb/in Width) - Industrial		280	371	463	560
Maximum Bucket Projection (in) - Grains	MATERIAL UP TO 62.4 lb/ft³	9	10	11	11
Maximum Bucket Projection (in) - Industrial	SPACED	9	10	11	12
Material Weight < 100lb/ft³ - Granulometry < 1 in	CONTINUOUS	9	11	12	12
Maximum Bucket Projection (in) - Industrial	SPACED	9	9	9	10
Material Weight < 100 lb/ft³ - Granulometry < 2 in	CONTINUOUS	9	9	10	10
Carcass Gauge (in) ± 0.039 in	(in)	0.177	0.252	0.339	0.382
Approximate Carcass Weight (lb/ft²) ±10%	(lb/ft²)	0.92	1.31	1.76	2.15
Approximate Cover Weight LD - 1/32" ± 10%	(lb/ft²)	0.19	0.19	0.19	0.19
		Drive Pulley Minimum Diameter (in)			
% - Allowable Working Tension	Over 61% to 80%	25	30	38	42
	41% to 60%	20	25	30	38
	Up to 40%	18	20	25	30

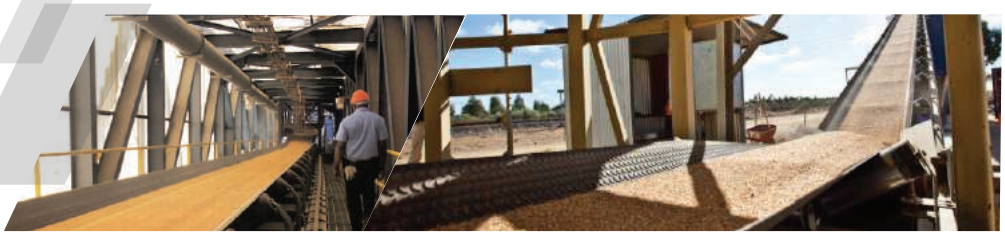
MB 3000 Elevator Belts - (Polyester/Nylon)

BELT TYPE / # OF PLIES		MB 3000 3 PLIES	MB 3000 4 PLIES	MB 3000 5 PLIES	MB 3000 6 PLIES
Allowable Working Tension (PIW = lb/in Width) - Grains		428	571	714	857
Allowable Working Tension (PIW = lb/in Width) - Industrial		383	514	640	765
Maximum Bucket Projection (in) - Grains	MATERIAL UP TO 62.4 lb/ft³	10	11	12	14
Maximum Bucket Projection (in) - Industrial	SPACED	10	11	12	13
Material Weight < 100lb/ft³ - Granulometry < 1 in	CONTINUOUS	10	12	14	16
Maximum Bucket Projection (in) - Industrial	SPACED	9	10	11	12
Material Weight < 100 lb/ft³ - Granulometry < 2 in	CONTINUOUS	9	11	12	12
Carcass Gauge (in) ± 0.039 in	(in)	0.217	0.299	0.362	0.441
Approximate Carcass Weight (lb/ft²) ±10%	(lb/ft²)	1.07	1.52	1.97	2.42
Approximate Cover Weight LD - 1/32" ± 10%	(lb/ft²)	0.19	0.19	0.19	0.19
		Drive Pulley Minimum Diameter (in)			
% - Allowable Working Tension	Over 61% to 80%	25	32	42	45
	41% to 60%	20	25	32	42
	Up to 40%	18	20	25	32

Elevator
Belts

MB 4000 Elevator Belts - (Polyester/Nylon)					
BELT TYPE / # OF PLIES		MB 4000 3 PLIES	MB 4000 4 PLIES	MB 4000 5 PLIES	MB 4000 6 PLIES
Allowable Working Tension (PIW = lb/in Width) - Grains		570	740	940	1110
Allowable Working Tension (PIW = lb/in Width) - Industrial		513	684	826	997
Maximum Bucket Projection (in) - Grains	MATERIAL UP TO 62.4 lb/ft³	11	13	14	16
Maximum Bucket Projection (in) - Industrial	SPACED	11	12	14	15
Material Weight < 100lb/ft³ - Granulometry < 1 in	CONTINUOUS	11	13	16	19
Maximum Bucket Projection (in) - Industrial	SPACED	10	11	13	14
Material Weight < 100 lb/ft³ - Granulometry < 2 in	CONTINUOUS	10	13	14	16
Carcass Gauge (in) ± 0.039 in	(in)	0.236	0.323	0.413	0.500
Approximate Carcass Weight (lb/ft²) ±10%	(lb/ft²)	1.35	1.91	2.46	3.01
Approximate Cover Weight LD - 1/32" ± 10%	(lb/ft²)	0.19	0.19	0.19	0.19
		Drive Pulley Minimum Diameter (in)			
% - Allowable Working Tension	Over 61% to 80%	30	36	42	48
	41% to 60%	24	30	36	42
	Up to 40%	20	24	30	36

Agro Laminated Belts

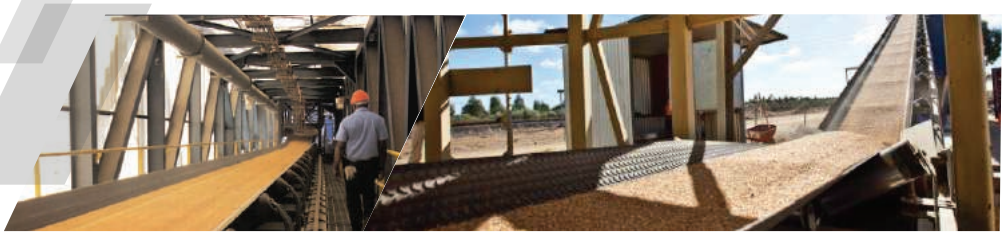


MAXBELT AGRO Laminated Belts represent the MAXBELT product line for the agribusiness sector. It perfectly meets the transportation and elevator systems for volumes, sacks, non-abrasive materials and, mainly, bulk cereals such as soybean, rice, wheat and others.

AGRO 1000 MB/LDE & AGRO 2000 MB/LDE Grain Conveyor Belts - specific weight up to 63 lb/ft³							
BELT TYPE / # OF PLIES		AGRO 1000 MB & LDE 2 PLIES	AGRO 1000 MB & LDE 3 PLIES	AGRO 1000 MB & LDE 4 PLIES	AGRO 2000 MB & LDE 2 PLIES	AGRO 2000 MB & LDE 3 PLIES	AGRO 2000 MB & LDE 4 PLIES
Allowable Working Tension (PIW = lb/in Width)		114	170	228	228	343	457
Minimum and Maximum Belt Widths (in)							
Minimum Width (in) - Idlers Angle up to 35°		10	18	24	14	24	32
Maximum Width (in) - Idlers Angle up to 35°		18	26	32	26	36	44
Drive Pulley Minimum Diameter (in)							
Tension	Above 61%	12	14	20	12	18	22
	From 31% to 60%	10	12	16	10	16	20
	Up to 30%	8	10	12	8	12	16
	Tail and snub pulleys up to 30°	8	10	12	8	12	16
	MB Approximate Gauge (in) ± 0.039 in	0.071	0.122	0.173	0.091	0.146	0.209
	LDE Approximate Gauge (in) ± 0.039 in	0.087	0.138	0.189	0.106	0.161	0.224
	MB Approximate Weight (lb/ft²) ±10%	0.41	0.74	1.07	0.47	0.76	1.09
	LDE Approximate Weight (lb/ft²) ±10%	0.51	0.84	1.17	0.57	0.86	1.19

AGRO 1000 and AGRO 2000 Laminated Belts - Take Up (estimated percentage) considering center to center distance			
Take Up Type % over Allowable Working Tension		Less than 75%	100%
	Screw	2.5%	3.0%
	Automatic	2.0%	2.5%

Agro Laminated Belts



AGRO 2000 Grain Elevator Belts (Polyester/Nylon) - specific weight up to 63lb/ft³						
BELT TYPE / # OF PLIES		AGRO 2000 2 PLIES	AGRO 2000 3 PLIES	AGRO 2000 4 PLIES	AGRO 2000 5 PLIES	AGRO 2000 6 PLIES
Allowable Working Tension (PIW = lb/in Width) - Grains		172	258	344	430	514
Maximum Bucket Projection (in) - Grains		4	6	8	10	10
Drive Pulley Minimum Diameter (in)						
Tension	Above 61%	12	18	22	28	34
	From 31% to 60%	10	16	20	22	30
	Up to 30%	8	12	16	20	22
	Tail Pulley	10	16	20	22	30
	Approximate Gauge (in) ± 0.039 in	0.091	0.146	0.209	0.264	0.323
	Approximate Weight (lb/ft²) ±10%	0.53	0.88	1.25	1.62	1.99

AGRO 1000 and AGRO 2000 Laminated Belts - Take Up (estimated percentage) considering center to center distance			
Take Up Type % over Allowable Working Tension		Less than 75%	100%
	Screw	2.5%	3.0%
	Automatic	2.0%	2.5%

The ultimate solution for preventing piping wear

DURATUBO® - ANTI-ABRASION COATING WITH ANTI-FLAME AND ANTI-STATIC PROPERTIES

DURATUBO® is a MAXBELT solution that consists of an internal coating for product transfer ducts and other surfaces exposed to intense wear and tear by impact and abrasion.

Composed of extremely high-resistance materials, DURATUBO® is produced from
a strong adhesion of an anti-abrasion layer to a galvanized sheet, joining flexibility and resistance, and becoming a great option for elevator heads, valves, line dampers, redlers and others.

DURATUBO® MAXBELT installation is quick and practical, with no need of skilled labor. These aspects allow time saving and the consequent reduction in maintenance costs by the company.

This product is available in coils up to 262.47 feet long, with standard thicknesses of 0.197 inches and 0.315 inches ± 0.039 inches. Changes to these measures can be made according to required technical specifications.

MARKET SECTORS:

- Agribusiness
- Industries in general
- Mining
- Port Terminals

TECHNICAL FEATURES:

Vulcanized rubber coating on galvanized sheet # 0.02 inches with self-lubricating polymers.
High abrasion resistance (superior UHMW and/or Polyurethane).
Coating thickness: 0.197 inches and 0.315 inches ± 0.039 inches.
Hardness: 70 ± 5% Shore A.
Maximum length: 262.47 feet (consult MAXBELT for longer lengths).
Composed of anti-flame and anti-static elements.

MAXBelt®
CONVEYOR BELTS

MAXBelt®
CONVEYOR BELTS

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