

PRODUCT COVERAGE



PT. MORGAN POWERINDO AMERTA

MECHANICAL

ELECTRICAL

INSTRUMENT

-Engineering and Part Supply-
-Engineering Background, Power Plant Experiences-

HO: PALEMBANG

CITRA GRAND CITY

TROPICAL VALLEY

SB06/11

Palembang

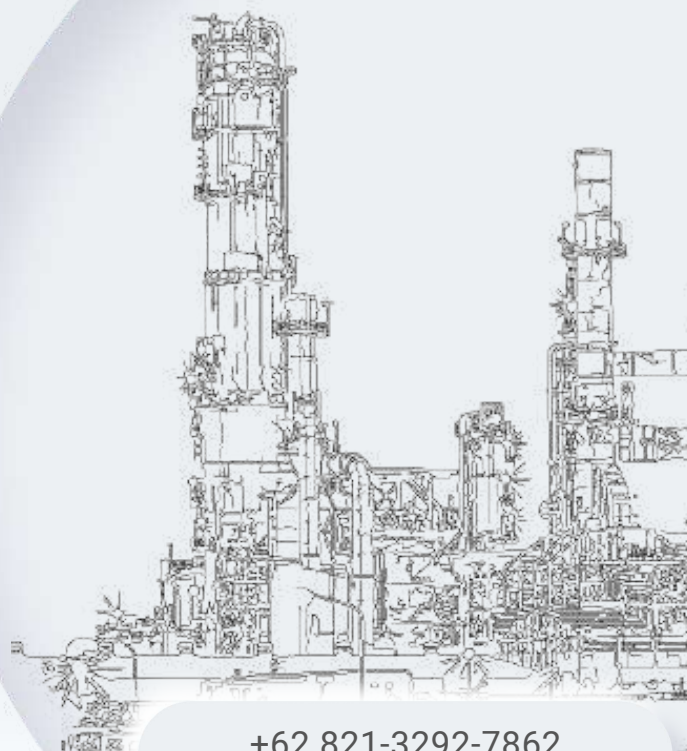
RO: SURABAYA

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Sealing and Insulation

Gland Packing



Graphite Ring/Graphoil Ring



Spiral Wound Gasket (SWG)



Metal Expansion Joint



Flexible Metal Hose



Fabric Expansion Joint



Endless Sidewall Belt for Coal Feeder

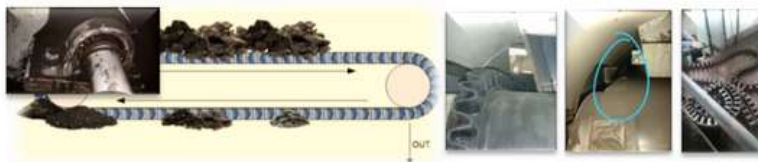
Tritek® Cleat and Sidewall Belt

Common problems in coal feeder are when coal feeder having lost speed signal which indicates belt broke, but commonly found belt not broke, hence the proximity become the spot of root cause problem.

Often found at the bottom side of coal feeder a lot of coal spill that resulted of proximity problem.



What are the causes of the spill of coal stacking at tail pulley coal feeder so that proximity speed sensor is interrupted?



The damaged sidewall caused the coal to be spilled from the side of the belt massively, when the chain scrapper is unable to handle the massive volume of spills, the chain scrapper will be stuck and indicate overload, even a few cases found damage occurred in bearing scrapper and gearbox/motor.



Sidewall can be damage (apart) due to the bonding was not good when the process of manufacturer or due to miss selection of the belt type and it could also be caused by overload work and aging

A common method when it's found overload work belt is to accelerate the speed of conveyor and or decrease the inlet damper so that the load was distributed evenly on the belt and becomes lighter. If in the operation process found that sidewall damage (apart) immediately repairs on the broken sidewall.

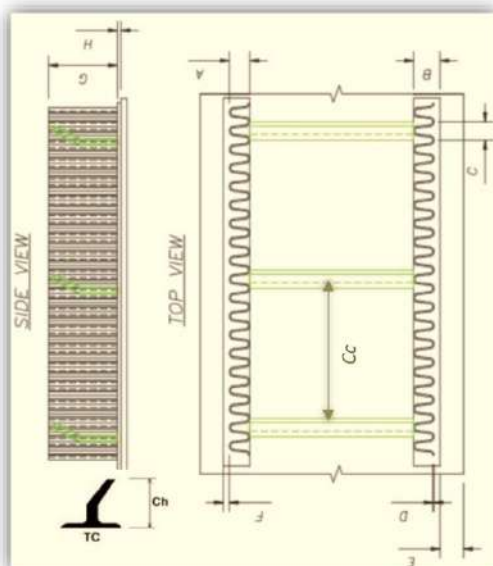
Bonding sidewall-belt

There are 2 method for sidewall belt coal feeder bonding: hot press (known as hot splice or vulcanizing) and cold join. Even though the hot press method has higher production cost than cold join, it's doesn't mean hot join is better than cold join, all is depending on usage and workload. When the work load of belt coal feeder indeed operated should be high, hence found bonding of sidewall belt apart (not torn), although it rarely occurs, then the choice of hot press became the best alternative.

Damage of Sidewall were influenced by rubber elasticity which liner with its hardness (Shore A), also the selection of pulley diameter will affect the tensile force received by the sidewall when passing through the outer side of pulley (pulley out radian), the smaller the pulley radian, the higher the tensile force received. Sidewall height above 5 cm must use fabric ply to withstand tensile force along pulley radian.



How To Order



- Belt Length :
- Belt Width :
- Belt Thickness
- Fabric Ply Ammount :
- Belt Joint : Hot Press (Vulcanize) or Cold Joint
- Sidewall-Belt Joint : Hot Press (Vulcanize) or Cold Joint
- Sidewall width (A) :
- Bonding layer width (B) :
- Distance between folds (C) :
- Sidewall Thickness (D) :
- Distance bonding layer sidewall to out side of belt (E) :
- Distance sidewall to outside bonding layer (F) :
- Sidewall Height(G) :
- Bonding layer Thickness (H) :

If use Cleat:
Ch = Cleat Height
TC = Bonding cleat width
Cc = Distance between cleat

Other data :
Diameter of Pulley
Maximum Tonage (ton/hr)
Speed of Belt (mtr/hr)



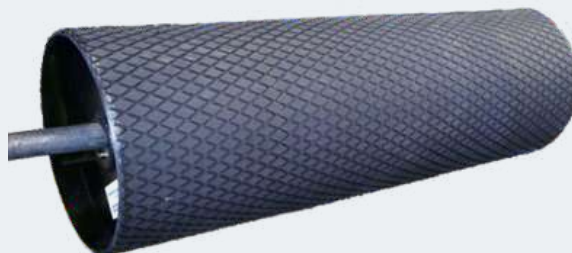
Diamond and plain lagging sheeting

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Karakteristik

- Dapat digunakan untuk 2 arah
- Mampu menerima putaran balik pulley
- Efektif mengeluarkan air dari belt
- Meningkatkan daya cengkram bahkan saat kotor



Product description & recommended applications

Karet lagging terbuat dari karet kualitas premium yang dirancang secara khusus untuk lagging pulley. Bertujuan mencegah slip, memperpanjang usia pulley (mengurangi tegangan belt), membuang air dengan cepat, dan meningkatkan produktifitas.

Dengan desain bercelah mampu menghilangkan kotoran, air dan benda-benda yang menghalanginya. Di samping itu, dapat dipasang, atau diganti tanpa membuka conveyor belt atau pulley dengan proses vulkanisasi dingin yang cepat, mengurangi biaya pemeliharaan secara signifikan mengurangi down time.

Bentuk lembaran memanjang, mempermudah penyimpanan, pemasangan atau pemakaian dengan system Cold Bonding. Pada waktu pemasangan material karet lagging dapat disesuaikan dengan panjang pulley dan keliling permukaan pulley

Product karet lagging berbentuk lebar dan memanjang sangat baik sebagai cadangan persediaan barang. Dalam keadaan darurat, produk ini dapat digunakan untuk semua ukuran pulley di tempat.

TYPE	SIZE (MM)	
	WIDTH	LENGTH/ROLL
RL 8-1250 D/P	1250 MM	10.000 MM/ROLL
RL 8-1650 D/P	1650 MM	10.000 MM/ROLL
RL 8-1850 D/P	1850 MM	10.000 MM/ROLL
RL 8-2000 D/P	2000 MM	10.000 MM/ROLL
RL 10-1250 D/P	1250 MM	10.000 MM/ROLL
RL 10-1650 D/P	1650 MM	10.000 MM/ROLL
RL 10-1850 D/P	1850 MM	10.000 MM/ROLL
RL 10-2000 D/P	2000 MM	10.000 MM/ROLL
RL 12-1250 D/P	1250 MM	10.000 MM/ROLL
RL 12-1650 D/P	1650 MM	10.000 MM/ROLL
RL 12-1850 D/P	1850 MM	10.000 MM/ROLL
RL 12-2000 D/P	2000 MM	10.000 MM/ROLL

TYPE	SIZE (MM)	
	WIDTH	LENGTH/ROLL
RL 15-1250 D/P	1250 MM	10.000 MM/ROLL
RL 15-1650 D/P	1650 MM	10.000 MM/ROLL
RL 15-1850 D/P	1850 MM	10.000 MM/ROLL
RL 15-2000 D/P	2000 MM	10.000 MM/ROLL
RL 20-1250 D/P	1250 MM	10.000 MM/ROLL
RL 20-1650 D/P	1650 MM	10.000 MM/ROLL
RL 20-1850 D/P	1850 MM	10.000 MM/ROLL
RL 20-2000 D/P	2000 MM	10.000 MM/ROLL
RL 25-1250 D/P	1250 MM	10.000 MM/ROLL
RL 25-1650 D/P	1650 MM	10.000 MM/ROLL
RL 25-1850 D/P	1850 MM	10.000 MM/ROLL
RL 25-2000 D/P	2000 MM	10.000 MM/ROLL



Full Ceramic Lagging 96%

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Karakteristik

- Dapat digunakan pada fabric belt maupun cord belt
- Karet elastis untuk mengurangi keausan belt
- Mengurangi belt tension dengan mempertahankan traksi
- Memiliki ketahanan aus yang tinggi

Full Ceramic Lagging merupakan tipe khusus dari Rubber Lagging Strip yang mempunyai kelebihan atau keunggulan yang sempurna.

Tipe Full Ceramic Lagging ini mampu mengatasi permasalahan slip, yang biasanya terjadi di daerah basah, berlumpur maupun kering.



Dengan struktur yang kuat, memiliki ratusan keping keramik yang mengandung alumina 92%, full ceramic lagging tahan abrasi, anti slip dan efektif membuang kotoran (Pasir), lumpur dan air di permukaan belt.

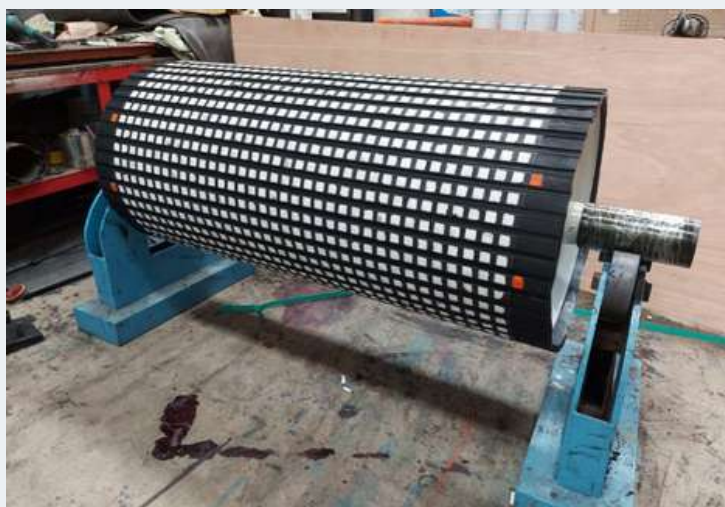
Untuk mempermudah pemasangan atau pemakaian di lapangan, kami merancang Full Keramik Lagging dengan karet di belakangnya. Mudah dalam tahap pengeleman dan dapat dilakukan dengan metode Cold Bonding. Dikarenakan memiliki lebar 200 mm (7,875"), maka mempermudah pemasangan, tanpa harus membongkar pulley dari structure konstruksi.

Tritek ® Full Ceramic Lagging 96% Width 200mm							
Belt width (mm)	Ceramic Strip length (mm)	Overall Strip length (mm)	Ordering Number	Belt width (mm)	Ceramic Strip length (mm)	Overall Strip length (mm)	Ordering Number
400	450	650	CL 400	1600	1650	1850	CL1650
500	550	750	CL 500	1800	1850	2050	CL1850
600	650	850	CL 600	2000	2050	2300	CL2050
800	850	1050	CL 800	2200	2250	2500	CL2250
900	950	1150	CL 900	2400	2450	2700	CL2450
1000	1050	1250	CL 1000	2500	2550	2800	CL2550
1200	1250	1450	CL 1200	2600	2650	2900	CL2650
1400	1450	1650	CL 1400	2800	2850	3100	CL2850
1500	1550	1750	CL 1500	3000	3050	3300	CL3050



Ceramic Single Lines 41%

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Type :

- 14- Fourteen Lines Width 500mm
- 11 - Eleven Lines Width 385mm
- 8- Eight Lines Width 300mm
- 7- Seven Lines Width 250mm
- 6- Six Lines Width 200mm

Dengan Al₂O₃ alumina oksida 92% yang divulkanisir, Ceramic Single Lines 41% digunakan untuk Drive Pulley yang beroperasi di bawah kondisi basah, mengandung tanah liat, berlumpur dan ekstrim, sistem perekat yang kuat dan tahan aus dengan lapisan CN Bonding & Tanpa lapisan CN Bonding.

Thickness	Ceramic Width	Belt Width	Ceramic Length	Total Length / Strips
12/15/20mm	200/250/300/385/500mm	BW 800	850 mm	1050 mm
12/15/20mm	200/250/300/385/500mm	BW 900	950 mm	1150 mm
12/15/20mm	200/250/300/385/500mm	BW 1000	1060 mm	1260 mm
12/15/20mm	200/250/300/385/500mm	BW 1200	1250 mm	1450 mm
12/15/20mm	200/250/300/385/500mm	BW 1400	1450 mm	1650 mm
12/15/20mm	200/250/300/385/500mm	BW 1500	1550 mm	1750 mm
12/15/20mm	200/250/300/385/500mm	BW 1600	1650 mm	1850 mm
12/15/20mm	200/250/300/385/500mm	BW 1800	1870 mm	2070 mm
12/15/20mm	200/250/300/385/500mm	BW 2000	2100 mm	2300 mm
Special Size				
12/13/20mm	200/250/300/385/500mm			10.000-50.000 mm



Ceramic Lagging 39% "Double Style"

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Tritek® Ceramic Lagging 39% " DOUBLE STYLE "		
Thickness	Width	Length / roll
10 mm	400 mm	10.000 - 50.000 mm
12 mm	400 mm	10.000 - 50.000 mm
15 mm	400 mm	10.000 - 50.000 mm
20 mm	400 mm	10.000 - 50.000 mm
25 mm	400 mm	10.000 - 50.000 mm

Tritek ® Diamond Ceramic 19% Lagging

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Karakteristik:

- Dipakai pada kondisi yang sangat ekstrim. Secara signifikan mengurangi slip pada belt bahkan saat kondisi basah
- Lagging yang digunakan untuk semua aplikasi, dengan gabungan yang baik antara kekuatan, kekerasan dan ketahanan terhadap abrasi.
- Memiliki koefisien gesek tertinggi

Diamond Ceramic Lagging merupakan jenis dari Lagging Strip. Lagging tersebut dikombinasikan antara karet dan ceramic. Lagging tersebut mempunyai karakterisk anti slip (licin) dan anti aus, terutama diarea basah, berlumpur dan kering. Lagging tersebut kebanyakan digunakan di Tail Pulley dan Snup Pulley (Non Drive Pulley).

Tritek® Diamond Ceramic 19% Lagging		
Thickness	Width	Length / roll
10 mm	200 mm	6.500 - 10.000 mm
12 mm	200 mm	6.500 - 10.000 mm
15 mm	200 mm	6.500 - 10.000 mm
20 mm	200 mm	6.500 - 10.000 mm
25 mm	200 mm	6.500 - 10.000 mm



Diamond-Patern Lagging

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Karakteristik

- Dari Karet Kualitas Premium
- Dapat digunakan untuk 2 arah
- Mampu menerima putaran balik pulley
- Efektif mengeluarkan air dari belt
- Meningkatkan daya cengkram bahkan saat kotor

Tritek ® Plain-Pattern Lagging

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)



Berbentuk strip memanjang, memudahkan dalam pemasangan dengan metode Cold Bonding.

Saat pemasangan, material karet lagging dapat disesuaikan dengan panjang pulley, dengan cara memotong karet lagging sesuai panjang pulleynya.

Sangat efisien dan ekonomis, dimana tidak ada material yang tersisa

Tritek® Diamond and Plain Lagging		
Thickness	width	Length / roll
10 mm	200 mm	6.500 - 10.000 mm
12 mm	200 mm	6.500 - 10.000 mm
15 mm	200 mm	6.500 - 10.000 mm
20 mm	200 mm	6.500 - 10.000 mm
25 mm	200 mm	6.500 - 10.000 mm

Tersedia juga untuk foodgrade dengan warna putih



Rubber Skirting 50 NR and 60 NR

(Plain and Double Lips)



Karet Skirting adalah lembaran karet yang khusus dirancang sebagai strip penahan tumpahan skirt board conveyor.

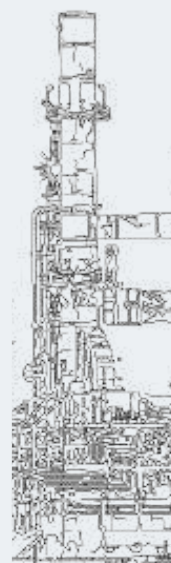
Kekerasannya tidak melebihi 70 ± 5 shore A, Kami sarankan Untuk menggunakan produk Tritek 40, 50, atau 60.

Warna tersedia : Merah, Orange, Hitam, Hijau



SIZE (MM)	
THICKNESS X WIDTH	LENGTH / ROLL
8 mm x 100 mm	10.000 mm - 20.000 mm
8 mm x 150 mm	10.000 mm - 20.000 mm
8 mm x 200 mm	10.000 mm - 20.000 mm
8 mm x 250 mm	10.000 mm - 20.000 mm
8 mm x 300 mm	10.000 mm - 20.000 mm
10 mm x 100 mm	10.000 mm - 20.000 mm
10 mm x 150 mm	10.000 mm - 20.000 mm
10 mm x 200 mm	10.000 mm - 20.000 mm
10 mm x 250 mm	10.000 mm - 20.000 mm
10 mm x 300 mm	10.000 mm - 20.000 mm
12 mm x 100 mm	10.000 mm - 20.000 mm
12 mm x 150 mm	10.000 mm - 20.000 mm
12 mm x 200 mm	10.000 mm - 20.000 mm
12 mm x 250 mm	10.000 mm - 20.000 mm
12 mm x 300 mm	10.000 mm - 20.000 mm

SIZE (MM)	
THICKNESS X WIDTH	LENGTH / ROLL
15 mm x 100 mm	10.000 mm - 20.000 mm
15 mm x 150 mm	10.000 mm - 20.000 mm
15 mm x 200 mm	10.000 mm - 20.000 mm
15 mm x 250 mm	10.000 mm - 20.000 mm
15 mm x 300 mm	10.000 mm - 20.000 mm
20 mm x 100 mm	10.000 mm - 20.000 mm
20 mm x 150 mm	10.000 mm - 20.000 mm
20 mm x 200 mm	10.000 mm - 20.000 mm
20 mm x 250 mm	10.000 mm - 20.000 mm
20 mm x 300 mm	10.000 mm - 20.000 mm
25 mm x 100 mm	10.000 mm - 20.000 mm
25 mm x 150 mm	10.000 mm - 20.000 mm
25 mm x 200 mm	10.000 mm - 20.000 mm
25 mm x 250 mm	10.000 mm - 20.000 mm
25 mm x 300 mm	10.000 mm - 20.000 mm





IMPACT BAR for CONVEYOR LOADING POINT

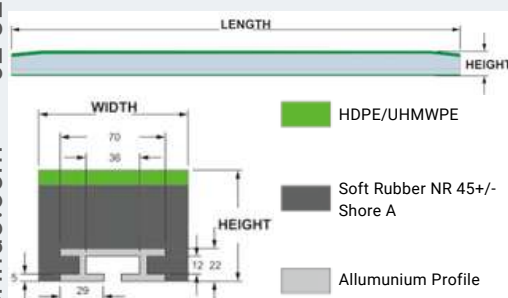
Digunakan untuk meredam beban impact yang dapat merusak struktru konstruksi conveyor system dan merusak belt.



Keistimewaan :

- Menghindari kerusakan pada belt yang terjadi melalui kontak antara batang dan permukaan belt.
- Conveyor Belt ditekan merata pada area muatan barang, yang akan mengurangi biaya harian pemeliharaan
- Efektif menghilangkan tumpahan atau penyebaran material yang disebabkan oleh perbedaan stress pada belt.
- Permukaan UHMW Polyethylene memiliki sliding properties yang luar biasa.
- Permukaan busur pada polyethylene membuat conveyor belt berjalan lancar.
- Karet Ultra Elastis menyerap benturan secara maksimal.
- Setiap bagian Impact Bar disambung erat melalui vulkanisasi panas.

"T-track" alat pengikat memiliki area pengetatan yang berbeda di sepanjang batang dan membuat sambungan yang kuat dan dapat diandalkan, mudah dalam pemasangan dan pembongkaran.



TYPES	SIZE (MM)		
	HEIGHT	WIDTH	LENGTH
IB 50	50	100	1000 mm
			1220 mm
			1400 mm
			1524 mm
IB 70	70	100	1000 mm
			1220 mm
			1400 mm
			1524 mm
IB 100	100	100	1000 mm
			1220 mm
			1400 mm
			1524 mm

TYPES	SIZE (MM)		
	HEIGHT	WIDTH	LENGTH
IB 50	50	100	1800 mm
			2000 mm
			2440 mm
IB 70	70	100	1800 mm
			2000 mm
			2440 mm
IB 100	100	100	1800 mm
			2000 mm
			2440 mm



PRIMARY BELT CLEANER

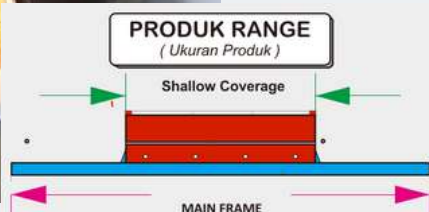
TIP BLADE CERAMIC ALUMINA 92% SPECIAL RESISTANT ABRASION & HIGH TEMPERATURE

Specification:

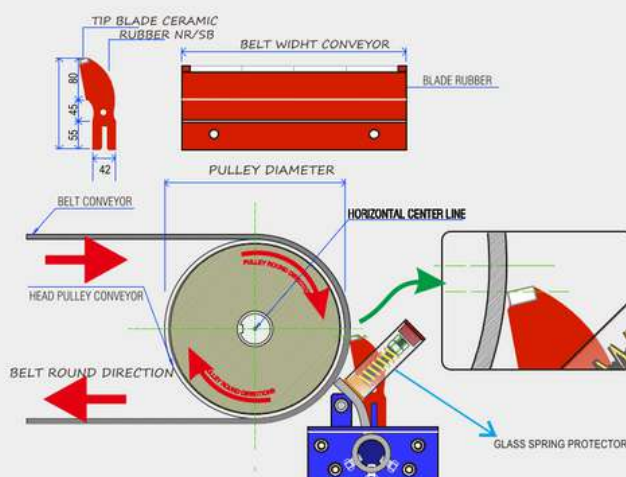
- Tritek Tip Blade Ceramic Primary Cleaning di desain untuk membersihkan conveyor dengan sangat halus tapi kuat.
- Menggunakan Hi Tensile NR/SBR Polymer Rubber untuk daya tahan tinggi dan ketahanan abrasi terbaik.
- Menggunakan 92% purity alumina ceramic segments. Tahan lama dan sangat tahan terhadap efek abrasi dan korosi yang kuat.
- Untuk belt konveyor kecepatan rendah dan tinggi sampai +/- 6 m/s

Keuntungan:

- Bagian terluar dari Tip Blade Ceramic Alumina 92% akan bersentuhan dengan belt secara halus sehingga dengan sangat baik dan efektif akan menghilangkan bahan yang keras, lengket dan besar yang terbawa pada belt.
- Penggunaan Hi Tensile NR/SBR Polymer Rubber dapat meredam tekanan belt conveyor pada ujung Tip Blade Ceramic sehingga dapat dipastikan titik sentuh ujung Tip Cleaner tidak kaku sehingga mengurangi tingkat keausan belt.
- Efisiensi motor meningkat dan pergerakannya menjadi lebih ringan karena hampir tidak ada efek hambatan (koef gesek) antara Ceramic Tips dengan Belt
 - Dengan tingkat kebersihan belt yang maksimal setelah dibersihkan maka kotoran tidak terbawa lagi, sehingga roller menjadi bersih dan tahan lama.



PRODUCT NAME	BELT WIDTH (mm)	MAIN FRAME (mm)	Shallow Coverage (mm)
PBC 450/500	450/500	1.200	400
PBC 600/650	600/650	1.350	500
PBC 900	900	1.500	650
PBC 750/800	750/800	1.650	750
PBC 1000/1050	1000/1050	1.800	900
PBC 1100	1.100	1.950	1.000
PBC 1200	1.200	2.100	1.100
PBC 1400	1.400	2.250	1.250
PBC 1500	1.500	2.400	1.350
PBC 1600	1.600	2.550	1.500
PBC 1800	1.800	2.850	1.700
PBC 2000	2.000	3.000	1.850
PBC 2200	2.200	3.300	1.950





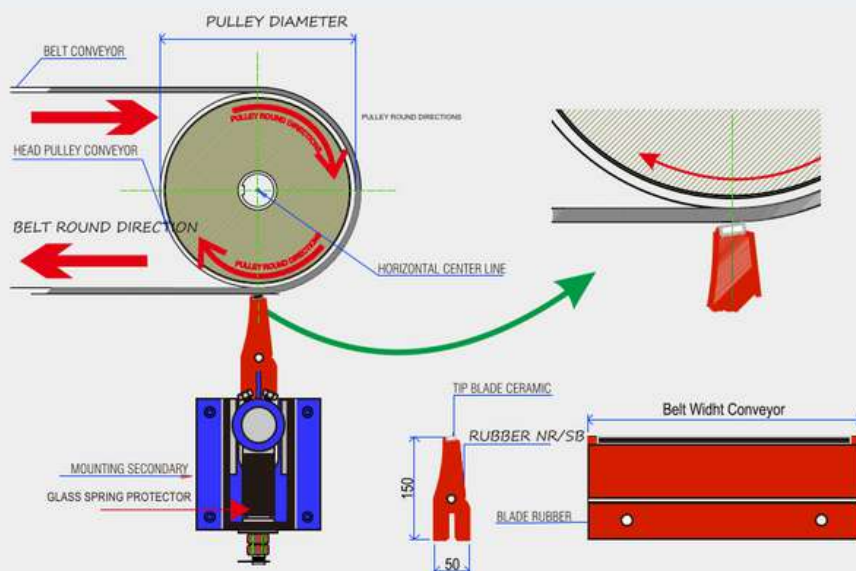
SECONDARY BELT CLEANER

TIP BLADE CERAMIC ALUMINA 92% SPECIAL RESISTANT ABRASION & HIGH TEMPERATURE



Specification:

- Tritek Tip Blade Ceramic Primary Cleaning di desain untuk membersihkan conveyor dengan sangat halus tapi kuat.
- Menggunakan Hi Tensile NR/SBR Polymer Rubber untuk daya tahan tinggi dan ketahanan abrasi terbaik.
- Menggunakan 92% purity alumina ceramic segments. Tahan lama dan sangat tahan terhadap efek abrasi dan korosi yang kuat.
- Untuk belt conveyor kecepatan rendah dan tinggi sampai +/- 6 m/s



Keuntungan:

- Bagian terluar dari Tip Blade Ceramic Alumina 92% akan bersentuhan dengan belt secara halus sehingga dengan sangat baik dan efektif akan menghilangkan bahan yang keras, lengket dan besar yang terbawa pada belt.
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- Efisiensi motor meningkat dan pergerakannya menjadi lebih ringan karena hampir tidak ada efek hambatan (koef gesek) antara Ceramic Tips dengan Belt
 - Dengan tingkat kebersihan belt yang maksimal setelah dibersihkan maka kotoran tidak terbawa lagi, sehingga roller menjadi bersih dan tahan lama.

PRODUK RANGE (Ukuran Produk)			
Shallow Coverage			
MAIN FRAME			
PRODUCT NAME	BELT WIDTH (mm)	MAIN FRAME (mm)	Shallow Coverage (mm)
T E F C P C D C C	450/500	1.200	400
SBC 600/650	600/650	1.350	500
SBC 750/800	900	1.500	650
SBC 900	750/801	1.650	750
SBC 1000/1050	1000/1050	1.800	900
SBC 1100	1.100	1.950	1.000
SBC 1200	1.200	2.100	1.100
SBC 1400	1.400	2.250	1.250
SBC 1500	1.500	2.400	1.350
SBC 1600	1.600	2.550	1.500
SBC 1800	1.800	2.850	1.700
SBC 2000	2.000	3.000	1.850
SBC 2200	2.200	3.300	1.950



SECONDARY BELT CLEANER

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Specification:

- Tritek Tip Blade Ceramic Primary Cleaning di desain untuk membersihkan conveyor dengan sangat halus tapi kuat.
- Menggunakan Hi Tensile NR/SBR Polymer Rubber untuk daya tahan tinggi dan ketahanan abrasi terbaik.
- Menggunakan 92% purity alumina ceramic segments. Tahan lama dan sangat tahan terhadap efek abrasi dan korosi yang kuat.
- Untuk belt konveyor kecepatan rendah dan tinggi sampai +/- 6 m/s

Keuntungan:

- Bagian terluar dari Tip Blade Ceramic Alumina 92% akan bersentuhan dengan belt secara halus sehingga dengan sangat baik dan efektif akan menghilangkan bahan yang keras, lengket dan besar yang terbawa pada belt.
- Penggunaan Hi Tensile NR/SBR Polymer Rubber dapat meredam tekanan belt conveyor pada ujung Tip Blade Ceramic sehingga dapat dipastikan titik sentuh ujung Tip Cleaner tidak kaku sehingga mengurangi tingkat keausan belt.
- Efisiensi motor meningkat dan pergerakannya menjadi lebih ringan karena hampir tidak ada efek hambatan (koef gesek) antara Ceramic Tips dengan Belt
 - Dengan tingkat kebersihan belt yang maksimal setelah dibersihkan maka kotoran tidak terbawa lagi, sehingga roller menjadi bersih dan tahan lama.

Tritek® V-PLOUGH TITL

" TIP BLADE CERAMIC 92% DOUBLE SPRING "

NO	DESCRIPTIONS		
	PRODUCT NAME	COURAGE BLADE	FRAME L X P
1.	BW 500	650 MM	920 MM
2.	BW 600	750 MM	1050 MM
3.	BW 800	1000 MM	1290 MM
4.	BW 1000	1250 MM	1630 MM
5.	BW 1200	1500 MM	1790 MM
6.	BW 1400	1750 MM	2040 MM
7.	BW 1500	1850 MM	2160 MM
8.	BW 1600	1950 MM	2290 MM
9.	BW 1800	2200 MM	2640 MM
10.	BW 2000	2450 MM	2890 MM
11.	BW 2200	2700 MM	3120 MM

TITL +/- 30 DERAJAT



SPECIAL MATERIAL RUBBER LINING



NR40, NR50, NR60, NR70

(tanpa lapisan pengikat CN Bonding dan dengan lapisan pengikat CN Bonding)

Specification:

- Produk karet lembaran terbuat dari 95% Natural Rubber Compound
- Sangat tepat digunakan pada penanganan material cair seperti pada pipa kimia, dan pelapisan tangki, hydrocyclones, floating cell dan launders. Juga baik digunakan untuk apisan katup dan pompa, mesin penggali dan mangkok elevator serta timing belt.
- Sangat baik untuk melapisi ruang sand blasting, mengurangi benturan dan gesekan material yang jatuh dari chutes atau silo ke belt conveyor. Sangat sesuai untuk rubber skirting, rubber scrapper.
- Memiliki kekuatan mekanik dan kelenturan yang tinggi. Tahan gesekan terutama di area basah. Mampu menahan kekuatan dinamis seperti kejutan dan getaran, serta suara. Baik digunakan pada suhu rendah.
- Memiliki daya tahan yang kuat terhadap gesekan kering dan benturan. Baik untuk menahan tekanan yang sangat tinggi dan cuaca akibat hujan dan angin.

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5 MM - 50 MM	1000 MM - 2000 MM	10.000 MM - 20.000 MM



EPDM

Product Description

- A Terpolymer consisting of ethylene propylene and diene

Recommended Applications

- Dominant in roof membrane linings and extruded channels for windows. The excellent electrical resistance is use in medium and high voltage cable covers. Very good resistance to water absorb on such as pond liners.
- Good in auto-motives applications such as radiator, heater hoses, weather strips. In gas industry such as gasketing of pipe contacts with hot steam. In making expansion joint for high steam gas.

Characteristics

- The main proper es of EPDM are its outstanding heat, ozone and weather resistance. The resistance to polar substances and steam are also good.
- It has excellent electrical insulating properties.
- Resistance to a number of concentrated mineral acids and bases is significantly.

Physical Property

- TEMPERATURE 150°C MAXIMUM

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM



PT. MORGAN POWERINDO AMERTA

**NBR**

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM

Product Description

- Nitrile rubber is a synthetic rubber copolymer of butadiene and acrylonitrile.

Recommended Applications

- Excellent for lining or making components that contact with oil, alkaline or acid in high temperature such as pipes, tank grade oil, chemical transport tank, seal, gasket, pulley drum, carry roller, return roller.

Characteristics

- In addition to its resistance to petroleum oils and aromatic hydrocarbons, NBR is highly resistant to vegetable oils, caustics and mineral oils, many acids. It also has good elongation properties as well as adequate resilience, tensile and compression set.

Physical Property

- Temperature 120°C Maximum

**Neoprene**

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM

**Product Description**

- A neoprene sheet is made up of synthetic rubber that is produced when chloroprene is polymerized.

Recommended Applications

- Excellent for lining or making components that contact with oil, alkaline or acid in high temperature such as pipes, tank grade oil, chemical transport tank, seal, gasket, pulley drum, carry roller, return roller.
- Cotton-Cloth reinforced is ideal for stress applications such as gasketing and diaphragms. Fabric inserted Neoprene rubber is well suited for applications requiring an extreme amount of tear strength, resilient rubber for outdoor and mechanical environments. Fabric insert rubber is also used for conveyor belting and trailer / truck mud flaps.

Characteristics

- Neoprene rubber resists degradation from sun, ozone and weather and performs well in contact with oils and chemicals. Neoprene rubber maintains its strength, flexing, twisting and elongation very well over a wide temperature range while having outstanding physical toughness.

Physical Property

- TEMPERATURE 120°C MAXIMUM





Universal Synthetics



SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM

Product Description

- A rubber sheet product that made from synthetis combining material and has many advantages for that application.
- Available in many colors (Green, Black, White)
- Special resistance to pressure and high impact, that Increased protection of pulley shell from wear leading

Recommended Applications

- For medium extreme packing or gasket flange to flange
- Good resistance pressure and impact for pad and math
- For protect and lining material from medium abrasion

Physical Property

- Temperature 110°C Maximum



Silicone Rubber

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM



Product Description

- Silicone rubber sheet made from high quality silicone rubber on Rotocure vulcanizing machine. Transparent silicone is chemically inert with no odor or out gassing perties in its solid state. It maintains good tensile strength for material. This material is semi-clear but not optically clear.
- Shelf life is greater than natural or synthetic rubbers. It stays soft and flexible when stressed or exposed to weathering for long periods of time.

Characteristics

- High quality silicone rubber with good performance of anti-aging, ozone resistance, heat-resistant, electric Insulation, oil resistance, solvent resistance, corrosion resistant, nonpoisonous and tasteless, pollution-free. Working in air, water, oil and other medium at the temperature maximum 200°C with the high stability, reliability and surface inactive without sticky.
- Commonly used in medical and electrical applications, Silicone o-ring, packing, gaskets, membrane switch.
- Available color : Clear, Red, Gray, White

Physical Property

- TEMPERATURE 200°C MAXIMUM





Viton Rubber



SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM

Product Description

- Viton has an exceptional resistance to light, heat, oxygen, ozone and natural weathering, solvents and aggressive chemicals (hydrocarbons, acids, alkalis and even oxidants). Poor performance against ethers, ketones bases. It has good high temperature compression-set resistance (up to 320°C) and low temperature flexibility.

Recommended Applications

- Food Industries, Industrial maintenance (oils and high temperature), Sealing

Physical Property

- Temperature 260°C Maximum



Silicone Coated Polyester Fabric Glass

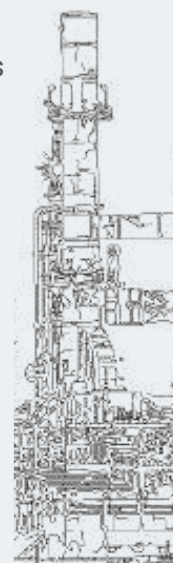
SIZE	THICKNESS	FABRIC FIBERGLASS	WIDTH	LENGTH / ROLL
	1,5 MM - 6MM	1ply - 5 ply	1000MM - 1800MM	30.000MM



- Polyester is the synthetic fiber that detains the first place in terms of global production. It is a linear polymer whose mass comprises predominantly (at least 80%) of the ester functions and terephthalate acid. The polyester yarn is lightweight and flexible. Resistant to ultraviolet radiation. Low flammability. It softens at 245°C and melts eps a good shape memory and can therefore be used into coated fabrics. Furthermore, a suitable weaving also allows good heat dissipation.
- Silicone Rubbers are ideal for high and low temperature applications. electrical properties are excellent and resistance to weathering and ozone attack is out standing it is not resistant to super-heated steam.
- Physical properties are generally low but at least retained at higher temperatures. Gas permeability is very poor as is resistance to petroleum based fluids. Silicone rubbers are expensive in comparison to most other rubbers.
- Food quality compliant grades are available for use in the food and pharmaceutical industries

Recommended Applications

- Expansion joint fabric multi layer
- Rubber Chute
- Belt conveyor heat resistant
- Hose heat resistant





Electrical Insulation Matting

Colour	: Grey Black, Dark blue
Thickness	: 2mm, 3mm, 5mm, 6mm, 8 mm, 10 mm
Hardness	: 75+Shore a
Tensile strength	: 50kg/cm ²
Elonga on at break	: 200%
Compress set at 27°C/24 hrs	: 20%
Temp. Range	: 30°C to 130°C
Standard width	: 1000mm
Standard length	: 20.000mm
Polymer type	: Vinyl copolymer of ethylene and propylene standard breakdown voltage +5kVA/mm thickness



- Electrical insulation matting is an essential product in workplace when employees work in close proximity to Conductors.
- This electrical safety matting is specifically design to protect people from hazardous electrical shock, Making it the perfect choice around high-voltage switchboard electrically-changed equipment such as transformers, Generators and electrical work benches.
- This electrical safety matting uses a high quality rubber compound that make it robust and provides a higher Degree of electrical insulation.
- This electrical safety matting has an impression finish along the under side that Provides a firm grip on the floor

SIZE	THICKNESS	WIDTH	LENGTH / ROLL
	0,5MM - 50MM	1.000MM - 2.000MM	10.000MM - 20.000MM



Customize Filter

Our Wintrust Filter Factory Workshop have a great capacity to produce many types of filter with many kinds of material and dimension.

With good facility and good experiences manpower we can fulfill your requirement.



Filter Dryer Compressor
1 μ m dan 0.01 μ m



Suction Air Filter Blower



Diesel Engine Suction Air
Filter



Jacking Oil Filter



Diesel Engine Filter (Oil Filter,
Fuel Filter, Fuel Water
Separator, Hydraulic Filter, dll)



Oil Purifier Filter



Filter Vokes Oil & Fuel



Dust Bag Filter
(Polyester, PPS, Nomex,
Teflon, etc)



Gas Turbine Compressor
Inlet Filter



Compressor Oil
Separator



Bucket Strainer



HEPA Filter

How to Order:

- Please send the detail drawing to process,, or
- Send us the sample filter (used), so we can do dismantling to retrieve the data.

ENTRUST TO US YOUR FILTER NEEDS



Customize PP Filter/Sedimen Filter

Filter Data Sheet

Melt Blown Thermal Bond Fiber Filter Cartridges

- Available in a wide variety of lengths from 10 to 50 inches and micron ratings 1 – 10 μ m
- Media to fit all applications : FDA Compliant polypropylene
- Core materials include: FDA Compliant polypropylene
- Performance-enhancing end-configurations available to fit every process requirement

Maximum recommended Operating Conditions

Differential pressure 35 PSI
Temperature 80°C

Dimensions (Nominal)

Length 10 to 20 inches
Outside Diameter 2.4 inches (6.1 cm)
Inside Diameter 1.1 inch (2.8 cm)

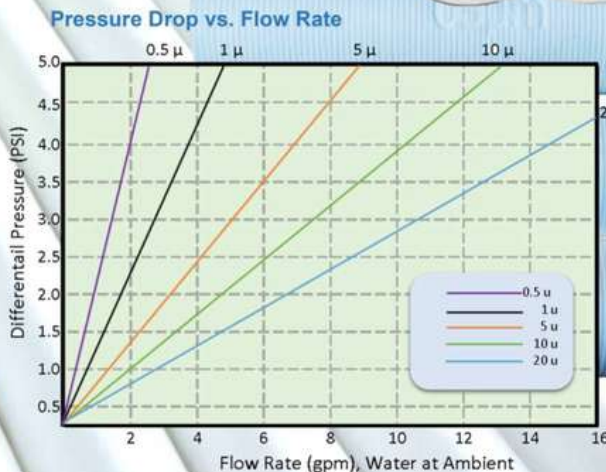
Construction Materials

Filtration Media Polypropylene 100%

Typical Applications

Chemicals	Pharmaceutical
Consumer Products	Photographic
Food and Beverage	Plating Solutions
Oils	Vegetable Oils
Paints	Water
Inks	Waste
Treatment	
Petro Chemicals	

Material	Polypropylene Melt blown thermal bond fiber
Suhu maksimal	60°C
Panjang	10" ; 20" ; 30" ; 40"
Diameter luar	6,3 cm (2,5 inchi)
Diameter dalam	2,8 cm (1,1 inchi)
Kerapatan	0,5 – 50 micron
Debit	0,45 – 1,92 m ³ /jam



FILTERTECH

Available for Custom Size



END CAP TYPE



DOUBLE OPEN
TYPE



Ruller Surface



Orange Surface



Dot Surface

How to Order:
Send Us : ID x OD x Length

ENTRUST TO US YOUR FILTER NEEDS

KELMER OIL FILTRATION MACHINE



KELMER
Portable Oil Purifier

- Remove water down to 150 ppm in multiple circulation
- Remove particle down to ISO 15/14/12

Technology : **Centrifugal Flow Separation with Coalescer**

- Circulation Flow rate : 1500 LPH (25 LPM)
- Power Supply : 1.5 KW
- Pressure : 1-8 Bar
- Heater Capacity : 24 KW
- Suction Strainer : 100 Micron
- Pre-filter01 : 2.5 Micron
- Pre-filter02 : 0.5 Micron
- Final Filter : Centrifugal Flow Separation + Coalescer
- Frame : Stainless Steel 304
- Fitting & Connection : Stainless Steel 304
- Mobile Unit : wheel 6 In

Optional Filter Mesh Size:
25 micron, 12 micron, 10 micron, 7 micron, 5 micron, 0.25 micron, 0.9 micron, 0.5 micron, 0.25 micron

You need to do filtration with your new Oil Drum since your oil vendor might not understand "Oil Drum can be breath". Water content or rust by oxidation might be occur. Particle contaminants in new drum of lubricating oil and hydraulic fluid result in excess machine wear, production downtime, and repair costs. Filtering lubricants when do filling or topping up can prevent contamination-related problems.

KELMER Drum Filter Cart (DFC)

- Decontaminating systems - Flushing new or repaired systems
- Dispensing oil - Pre-filtering new oil - Evacuating used oil
- Topping reservoirs - Kidney loop filtration

Remove particle contaminants down to ISO 4406: 15/14/12
or NAS 5 in multiple circulations.
Flow Rate Series : 20 lpm - 74 lpm



LIFTING TOOL

We Sell good quality with branded lifting tools



Chain Block



Lever Block



Snatch Block/ Katrol



Plain Trolley



Gear Trolley



Webbing Sling



Shackle



Eye Bolt



Wire Rope Clip



Turnbuckle



Wire Rope



FIBRE CORE (F.C.)



STEEL CORE (I.W.R.C.)



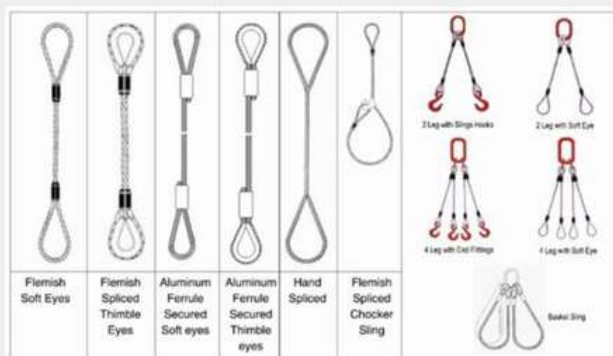
STRAND CORE (W.S.)



Manila Rope



Nylon Rope



Wire Rope Sling



Plastic Rope



PVC Coated Wire Rope



Polypropylene Rope



Drum Lifter Clamp



Chain Sling



Beam Clamp



Stainless Steel Chain



Load Chain/
Rantai Baja



Galvanized Chain



Plastic Chain



Wire Rope Puller/Trifort





Schuh Technology dan Garuda

Schuh Technology merupakan perusahaan Instrument Jerman yang memproduksi produk instrumentnya di Indonesia dengan merk GARUDA bersertifikasi ISO9001:2015 dan TKDN (Tingkat Komponen Dalam Negeri).

Mechanical Pressure Gauge



SLX series



SLS series



SF500 series



SXT500 series



EC series

Temperature Instruments & Thermowells



TM series



TXE series



TS series



Van Stone



Socket Weld



Weld-in



Sanitary

Thermocouples & RTD



TC10 series



TC20 series



TC40 series



TC50 series

Diaphragm Seals



DCS 209



DCS104



DCM110



DCS850



DCS 401

Digital Instruments



HD080



DPPS300



HD050



SPT301



TPT100

Rubber Coupling & Cable Drag Chain



T-Type Rubber Coupling

GR-Type Rubber Coupling



L-Type Rubber Coupling
Polyurethane

Specification Spesifikasi	Outside Luar	Inside Dalam	Wings Sayap
T - 40	40	18	6
T - 45	45	20	6
T - 50	50	18	6
T - 55	50		6
T - 60	60		6
T - 56	56	27	6
T - 62	62	30	6
T - 65	65	30	6
T - 75	75	36	6
T - 80	80	36	6
T - 85	85	40	6
T - 90	90	40	6
T - 95	95	45	6
T - 100	100	53	6
T - 105	105	55	6
T - 108	108	55	6
T - 110	110	55	6
T - 115	115	55	6
T - 120	120	60	6
T - 125	125	65	6
T - 130	130	65	6
T - 135	135	65	6
T - 140	140	70	6
T - 145	145	70	6
T - 150	150	75	6
T - 154	154	79	6
T - 160	160	82	6
T - 165	165	82	6
T - 170	170	80	6
T - 175	175	85	6
T - 180	180	90	6
T - 200	200	100	6

Model Type	Outside Luar (A)	Inside Dalam (D)	Thickness Ketebalan (F)	Thickness Ketebalan (G)	Wings Sayap
GR-12	25	8	12	10	4
GR-14	30	11	12	10	4
GR-19	40	18	14.5	12	6
GR-24	54	26	15.2	14	8
GR-28	65	30	19	15	8
GR-38	80	38	22	18	8
GR-42	95	46	24	20	8
GR-48	104	51	25.5	20.5	8
GR-55	120	60	27	22	8
GR-65	135	68	32	26	8
GR-75	161	81	37	30	10
GR-90	199	100	42	34	10
GR-100	224	111	42	38	10
GR-110	255	121	42	38	10
GR-125	293	150	42	46.5	10

MT-Type Rubber Coupling



Model Type	Specification Spesifikasi	Outside Luar	Inside Dalam	Ketebalan Tickness	Wings Sayap
MT-1	48*19	48	19	12	4
MT-2	68*28	68	28	18	6
MT-3	82*34	82	34	18	6
MT-4	100*42	100	42	20	6
MT-5	122*52	122	52	25	6
MT-6	140*65	140	65	30	6
MT-7	166*90	166	90	30	8
MT-8	196*100	196	100	35	8
MT-9	225*115	225	115	35	10
MT-10-1	255*140	255	140	45	10
MT-10-2	255*150	255	150	45	10
MT-11	295*170	295	170	50	10
MT-11/160					
MT-11/170					
MT-12	366*215	366	215	55	12
MT-13	391*250	391	250	55	12

HRC-Type Rubber Coupling
Black Rubber



Name of Goods Nama Barang	Inside Dalam	Outside Luar	Height Tinggi
HRC 70	29.6	58.3	11.9
HRC 90	31.2	72.4	15.4
HRC 110	43.7	95.8	19.4
HRC 130	49.4	115.3	22
HRC 150	62	133	28
HRC 180	76	160	32.3
HRC 230	97	201	42.3
HRC 280	119.4	252	50.4

NM-Type Rubber Coupling



Specification Spesifikasi	Specification Spesifikasi
NM-50	NM-112
NM-67	NM-128
NM-82-1	NM-148
NM-82-2(vuông)	NM-168
NM-97-1	NM-194
NM-97-2(vuông)	NM-214

Cable Drag Chain



Specification Spesifikasi	Specification Spesifikasi
CABLE DRAG CHAIN 7*7	CABLE DRAG CHAIN 35*175
CABLE DRAG CHAIN 10*10	CABLE DRAG CHAIN 35*200
CABLE DRAG CHAIN 10*15	CABLE DRAG CHAIN 45*50
CABLE DRAG CHAIN 10*20	CABLE DRAG CHAIN 45*60
CABLE DRAG CHAIN 15*15	CABLE DRAG CHAIN 45*75
CABLE DRAG CHAIN 15*20	CABLE DRAG CHAIN 45*100
CABLE DRAG CHAIN 15*30	CABLE DRAG CHAIN 45*125
CABLE DRAG CHAIN 15*40	CABLE DRAG CHAIN 45*150
CABLE DRAG CHAIN 18*25	CABLE DRAG CHAIN 45*175
CABLE DRAG CHAIN 18*37	CABLE DRAG CHAIN 45*200
CABLE DRAG CHAIN 18*50	CABLE DRAG CHAIN 55*100
CABLE DRAG CHAIN 25*25	CABLE DRAG CHAIN 55*125
CABLE DRAG CHAIN 25*38	CABLE DRAG CHAIN 55*150
CABLE DRAG CHAIN 25*50	CABLE DRAG CHAIN 55*175
CABLE DRAG CHAIN 25*57	CABLE DRAG CHAIN 55*200
CABLE DRAG CHAIN 25*60	CABLE DRAG CHAIN 55*250
CABLE DRAG CHAIN 25*75	CABLE DRAG CHAIN 55*300
CABLE DRAG CHAIN 25*77	CABLE DRAG CHAIN 65*100
CABLE DRAG CHAIN 25*100	CABLE DRAG CHAIN 65*125
CABLE DRAG CHAIN 30*38	CABLE DRAG CHAIN 65*150
CABLE DRAG CHAIN 30*50	CABLE DRAG CHAIN 65*175
CABLE DRAG CHAIN 30*57	CABLE DRAG CHAIN 65*200
CABLE DRAG CHAIN 30*60	CABLE DRAG CHAIN 65*250
CABLE DRAG CHAIN 30*75	CABLE DRAG CHAIN 80*100
CABLE DRAG CHAIN 30*77	CABLE DRAG CHAIN 80*125
CABLE DRAG CHAIN 30*100	CABLE DRAG CHAIN 80*150
CABLE DRAG CHAIN 35*50	CABLE DRAG CHAIN 80*175
CABLE DRAG CHAIN 35*60	CABLE DRAG CHAIN 80*200
CABLE DRAG CHAIN 35*75	CABLE DRAG CHAIN 80*250
CABLE DRAG CHAIN 35*100	CABLE DRAG CHAIN 80*300
CABLE DRAG CHAIN 35*125	CABLE DRAG CHAIN 80*350
CABLE DRAG CHAIN 35*150	



Others Mechanical Electrical Product

BEARING



REVERSE OSMOSIS PART



Power Transmission (V-Belt)



OIL SEAL



PNEUMATIC/HYDRAULIC PART



ELECTRICAL PART



AUTOMATIC GREASE FEEDER



MOTOR / GEAR MOTOR / GEARBOX



FIRE ALARM & PROTECTION

