

ORIENTAL

CONVEY | ALL | THE | WAY



FROM **HEAVY METAL**
TO HARD ROCK

MAXX ROCK[®]

High Impact & High Tear Resistant Belts

Product Feature:

In every conveyor installation there are certain applications where the normal expected belt life significantly deteriorates due to continuous abuse resulting in premature failure caused by rip, tear and carcass fracture. These belts normally convey large sized lumps and are considered critical in most cases. In heavy duty mining applications, failures are catastrophic and impose heavy financial losses due to stoppage of production and downtime.

For such applications demanding the highest impact, rip and tear resistance, Oriental recommends the **MAXX ROCK®** belts to convey **HEAVY METAL TO HARD ROCK**

MAXX ROCK® belts are manufactured using a specially designed fabric having high tenacity, straight warp threads and dense weft yarn construction. These belts are offered in single or two ply constructions and in strength rating from 180 to 1800 PIW i.e. 315 to 3150 kN/m.

The unique construction of the belt and the special cushion and cover rubber ensure superior impact resistance, higher longitudinal flexibility of the belt, yet guaranteeing a very low elongation at working load compared to conventional EP/NN fabric belts.

In several applications, **MAXX ROCK®** belts are a preferred alternative to steel cord belts as they provide an inherent protection against rip and tear and at the same time offer excellent impact resistance and low elongation in service.

Benefits of MAXX ROCK®:

- Endures most rigorous applications with extreme impact resistance
- Low elongation at working load results in trouble free operation
- Highest Tear resistance-upto 5 times greater than conventional multi-ply belts
- Light weight compared to ST belts, thereby reducing installation and operating costs
- Excellent Load support and troughability
- Very good longitudinal flexibility - works on smaller pulleys
- Excellent suitability to mechanical splicing
- Energy saving due to lower weight

Product Characteristics:

Common Widths	: 500 mm to 2100 mm (20" to 84")
Carcass Variety Available	: MAXX ROCK® , Polyester Nylon
Common Belt Rating	: In 1 Ply Construction: MR315/1, 400/1, 500/1, 630/1, 800/1, 1000/1, 1250/1, 1400/1, 1600/1 kN/m 180, 220, 285, 360, 450, 570, 700, 800, 900 PIW In 2 Ply Construction: MR630/2, 800/2, 1000/2, 1250/2, 1600/2, 1800/2, 2000/2, 2500/2, 3150/2 kN/m 360, 450, 570, 700, 900, 1000, 1100, 1450, 1800 PIW
No. of Plies	: 1 or 2 Ply
Rubber Cover Compounds	: Oriental recommends HAR or SAR. Other grades are also available on request
Rubber Cover Thickness	: For 1 Ply Belt 2:1 Cover Ratio (Min 3 mm bottom cover) For 2 Ply Belt 3:1 Cover Ratio (Min 3 mm bottom cover)
Edge	: Cut/Moulded Edge
Splicing Method	: Hot (O-Splice) / Mechanical
Packing Available in	: Single Roll
Belt Identification	: Unique Product Identification Number (PIN) at every 10 Mtr (33')



**REDUCE
BREAK
DOWNS,
get
PEACE OF MIND**

Product Application:

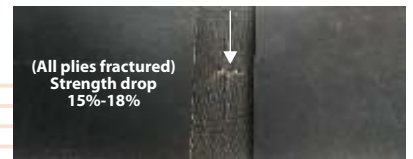
The **MAXX ROCK**® Belt is ideally suited for the following applications:

- Heavy impact applications e.g. primary crushers
- Material fall height exceeding 2 m (6.5')
- Lump size more than 250 mm
- Long haul applications
- Conveyors susceptible to presence of tramp material
- Scrap recycling plants, log decks.

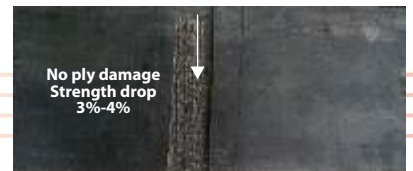
Impact Tester



Impact Energy
50% rated belt
strength in joule



EP Belt



MAXX ROCK®

Comparative Tear Strength

Belt Type	Belt Rating kN/m	Tear Strength N
MAXX TUFF™	EP 1000/4	2000
MAXX ROCK®	MR 1000/2	4000

Belt Cross-section



MAXX ROCK® Belt Selection Chart (Imperial System) Mono Ply

Belt Rating (PIW)	Nominal Carcass Thickness (Inch)	Nominal Carcass Weight (lb/in)/ft	Minimum Pulley Diameter (Inch) (60 to 100% belt rated tension)			Minimum Belt Width (Inch) For Troughing			Load Support-Maximum Belt Width (Inch)			
			Drive	Snub	Bend	20° idlers	35° idlers	45° idlers	35° idlers			
									0-40 lbs/ft ³	40-80 lbs/ft ³	80-120 lbs/ft ³	>120 lbs/ft ³
MR 220/1	0.10	0.03	12	10	8	18	24	30	72	60	56	52
MR 285/1	0.11	0.04	12	10	8	18	24	30	72	60	56	52
MR 330/1	0.12	0.04	16	12	10	18	24	30	72	64	60	56
MR 440/1	0.15	0.06	20	16	12	24	30	36	80	72	64	60
MR 600/1	0.17	0.06	20	16	12	24	30	36	80	72	64	60
MR 660/1	0.18	0.07	20	16	12	24	30	36	80	72	64	60
MR 800/1	0.20	0.08	24	20	16	24	30	36	80	72	64	60
MR 850/1	0.22	0.08	24	20	16	24	30	36	80	72	64	60

MAXX ROCK® Belt Selection Chart (Imperial System) Dual Ply

Belt Rating (PIW)	Nominal Carcass Thickness (Inch)	Nominal Carcass Weight (lb/in)/ft	Minimum Pulley Diameter (Inch) (60 to 100% belt rated tension)			Minimum Belt Width (Inch) For Troughing			Load Support-Maximum Belt Width (Inch)			
			Drive	Snub	Bend	20° idlers	35° idlers	45° idlers	35° idlers			
									0-40 lbs/ft ³	40-80 lbs/ft ³	80-120 lbs/ft ³	>120 lbs/ft ³
MR 330/2	0.24	0.09	32	24	20	24	30	36	84	80	72	64
MR 440/2	0.24	0.10	32	24	20	30	36	42	90	84	84	76
MR 600/2	0.23	0.10	32	24	20	30	36	42	90	84	84	80
MR 660/2	0.24	0.10	32	24	20	36	42	48	96	90	90	80
MR 800/2	0.26	0.11	32	24	20	36	42	48	96	90	90	84
MR 850/2	0.28	0.12	32	24	20	36	42	48	96	90	90	84
MR 1000/2	0.31	0.13	40	32	24	42	48	58	100	100	96	92
MR 1150/2	0.33	0.14	40	32	24	42	48	58	100	100	96	92
MR 1400/2	0.37	0.16	52	40	32	42	48	58	100	100	96	92
MR 1800/2	0.48	0.19	56	52	40	42	48	58	100	100	96	92

1. Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used.
2. When in doubt, please contact your ORIENTAL representative for selection guidance.
3. Add the cover gauge to carcass gauge to obtain the nominal belt thickness.
4. For Calculation of Belt weight, consider weight of 1.0 mm thick rubber = 1.10 kg/m² for M grade and for FR grade 1.26 kg/m².
5. Oriental reserves the right to change these values without notice, in tune with technical development .



Wear Resistant



Heat Resistant



Fire Resistant



Oil Resistant



Energy Saving

MAXX ROCK®
High Impact & High Tear Resistant Belts

