



# ORIGINAL TRANSPORTER

**MAXX TUFF™**  
General Purpose Belts

### Product Feature:

**MAXX TUFF™** belts are designed to suit a wide range of applications for bulk material handling. The cover rubber grades are specially designed with enhanced cut, gouge & wear properties. These belts are normally used for transporting crushed rock, limestone, coal, iron ore, sand, cement, wood chips, furnace slag, aggregate etc.

Since **MAXX TUFF™** belts are used for general purpose applications that constitute the largest user segment, Oriental believes that due attention must be given to the special needs even in this area. We have been offering unique types of covers which excel in their respective application.

Therefore, whether it's for conveying lumps or fines, select **MAXX TUFF™** as your **ORIGINAL TRANSPORTER**

With our understanding of material characteristics and the conveying conditions, our compounds have been engineered to protect the belt not only from wear and tear but as importantly the ageing and flex properties, which actually determine the longevity of the belt. Our **MAXX TUFF™** belt carcasses are distinguishable from the competition by their high adhesion, lower elongation and field performance.

Our high quality infrastructure and proprietary processes have given us a reputation as a high quality, consistent producer of belts with a silk smooth finish. We always recommend our customers to contact us with their specific queries so that our technical service representatives can assist with an optimal solution to improve belt performance and life.

### Benefits of MAXX TUFF™ Belts:

- Designed tough to work tough
- Made on world class manufacturing equipment
- Exceptionally high adhesion levels provide an enduring bond between covers and plies
- Compounds developed to perform in tough and rigorous applications providing high wear resistance to abrasive materials
- Exceptional Cut and Gouge resistance to negotiate heavy impact of large size lumps and sharp material
- Special cover compounds for conveying fines and high speed conveying
- Selection of the finest quality raw materials - we do not use any regenerated process oils
- Carcass quality and design maintains belt troughability and longitudinal flexibility
- Easy to splice using standard materials

### Product Application:

Oriental's **MAXX TUFF™** Conveyor belts are extensively used in mining and mining related industries, including steel, non ferrous metal plants, cement plants, thermal power plants, quarrying and aggregate processing and several industrial and agricultural applications.

### Product Characteristics:

Common Widths	: 500 mm to 2600 mm (20" to 102")
Carcass Variety Available	: EP / NN
Common Belt Rating	: 200 to 3150 kN/m (110 to 1800 PIW)
No. of Plies	: 2 ply to 7 ply
Rubber Cover Compounds	: Refer table for detailed properties
Rubber Cover Thickness	: 1.5 mm to 25 mm (1/16" to 1")
Edge	: Cut/Moulded Edge
Splicing Method	: Hot/ Cold/ Mechanical
Belt Identification	: Unique Product Identification Number (PIN) at every 10 Mtr (33')

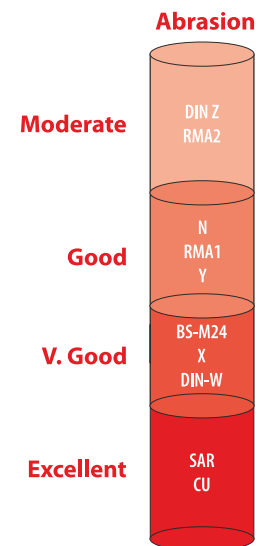


**Maxx Tuff  
hard fact !  
5% price  
increase =  
30% life  
improvement !!**



### MAXX TUFF™ Cover Grade Selection Chart

Cover Grade	Minimum Tensile Strength (MPa)	Minimum Elongation at Break (%)	Maximum Abrasion Loss (mm <sup>3</sup> )	Application Characteristics	Reference Material
DIN Z	15	350	250	Suitable for conveying moderately abrasive material	sand, current, slaked lime, wood chips, pulp (dry)
RMA2	14	400	200		
AS-N	17	400	200		
IS-N	17	400	200		
JIS-S	18	450	200		
ARPM RMA2	14	400	175		
RMA1	17	400	150	Suitable for conveying large lumps, sharp edged rugged materials	iron ore, coal, lignite, copper, limestone, blast furnace slag, stone, rock etc.
BS-N17	17	400	150		
SANS-N	17	400	150		
SANS-C	20	400	150		
DIN Y	20	400	150		
BS-M24	24	450	150		
IS-M24	24	450	150		
ARPM RMA1	17	400	125		
AS-M	24	450	125		
SANS-M	24	450	120		
DIN-X	25	450	120	High cut & gouge property	sharp big lumps
DIN-W	18	400	90		
HAR	18	400	90	high cut & gouge property with super abrasion resistance	abrasive materials & fine
AS-A	17	400	70		
SAR	17	400	70		
SAR-N	20	450	70	High cut & gouge property with super acid resistance	sharp big lumps with abrasive fine & granular materials. Suitable for high abrasive copper ore handling
CU	17	450	40		



**Note:** For any specific cover grade requirement outside the chart, kindly contact Oriental's Technical service division

## MAXX TUFF™ Belt Selection Chart (Metric System)

Belt Rating	*RMBT, N/mm	Nominal Carcass Thickness (mm)	Nominal Carcass Weight (kg/m <sup>2</sup> )	Minimum Pulley Diameter (mm) (60 to 100% belt rated tension)			Minimum Belt Width (mm) For Troughing		
				Drive	Snub	Bend	20° idlers	35° idlers	45° idlers
EP200/2	20	1.6	2	200	160	125	400	500	600
EP250/2	25	2.0	2.25	250	200	160	350	450	600
EP315/2	32	2.2	2.35	250	200	160	450	500	700
EP315/3	32	2.8	3.60	315	250	200	500	600	750
EP400/2	40	2.6	2.70	315	250	200	500	600	750
EP400/3	40	3.4	4.05	400	315	250	600	750	900
EP400/4	40	3.9	5.25	500	400	315	600	750	900
EP500/2	50	2.9	2.95	315	250	200	600	750	900
EP500/3	50	3.7	4.20	400	315	250	600	750	900
EP500/4	50	4.7	5.80	630	500	400	750	750	900
EP500/5	50	5.1	6.70	630	500	400	900	1050	1200
EP630/3	63	4.3	4.70	500	400	315	700	750	900
EP630/4	63	5.1	6.00	630	500	400	750	900	1050
EP800/3	80	4.7	5.10	630	500	400	750	900	1050
EP800/4	80	5.9	6.70	800	630	500	750	900	1050
EP1000/3	100	5.3	5.50	630	500	400	900	1050	1200
EP1000/4	100	6.8	7.60	800	630	500	900	1050	1200
EP1000/5	100	7.6	8.80	1000	800	630	900	1050	1200
EP1000/6	100	7.7	9.70	1000	800	630	1050	1200	1400
EP1250/3	125	6.8	6.70	800	630	500	900	1050	1200
EP1250/4	125	7.3	7.80	800	630	500	900	1050	1200
EP1250/5	125	8.3	9.30	1000	800	630	1050	1200	1400
EP1400/4	140	8.4	9.20	1000	800	630	1050	1200	1400
EP1500/4	150	8.8	9.50	1000	800	630	1050	1200	1400
EP1500/6	150	10.6	12.05	1250	1000	800	1200	1400	1600
EP1600/4	160	8.6	9.00	1000	800	630	1050	1200	1400
EP1600/5	160	9.7	10.50	1250	1000	800	1050	1200	1400
EP1800/3	180	9.9	11.2	1250	1000	800	1050	1200	1400
EP1800/4	180	9.4	9.80	1250	1000	800	1200	1400	1600
EP2000/4	200	10.0	10.30	1250	1000	800	1200	1400	1500
EP2000/5	200	11.0	11.50	1250	1000	800	1400	1600	1800
EP2400/3	240	12.0	11.25	1400	1250	1000	1050	1200	1400
EP2500/4	250	13.0	13.70	1600	1250	1000	1200	1400	1600
EP2500/5	200	13.2	13.75	1600	1250	1000	1400	1600	1800
EP3150/4	315	16.5	16.75	1800	1400	1250	1200	1400	1600
EP3150/5	315	17.0	17.55	2000	1600	1250	1400	1600	1800

\*RMBT: Recommended Maximum Belt Tension

- RMBT reflects a minimum 10:1 safety factor. With the appropriate fastener selection and installation, joint strength will be 4 times the belt tension.
- When in doubt, please contact your ORIENTAL representative for selection guidance.
- Add the cover gauge to carcass gauge to obtain the nominal belt thickness.
- For Calculation of Belt weight, consider weight of 1.0 mm thick rubber = 1.10 kg/m<sup>2</sup> for M grade and for FR grade 1.26 kg/m<sup>2</sup>.
- Oriental reserves the right to change these values without notice, in tune with technical development.

## MAXX TUFF™ Belt Selection Chart (Metric System)

Belt Rating	Load Support - Maximum Belt Width (mm)											
	20° idlers				35° idlers				45° idlers			
	0-0.64 t/m <sup>3</sup>	0.65-1.28 t/m <sup>3</sup>	1.29-1.92 t/m <sup>3</sup>	>1.92 t/m <sup>3</sup>	0-0.64 t/m <sup>3</sup>	0.65-1.28 t/m <sup>3</sup>	1.29-1.92 t/m <sup>3</sup>	>1.92 t/m <sup>3</sup>	0-0.64 t/m <sup>3</sup>	0.65-1.28 t/m <sup>3</sup>	1.29-1.92 t/m <sup>3</sup>	>1.92 t/m <sup>3</sup>
EP200/2	1200	1200	1050	900	1050	900	900	750	900	900	750	NA
EP250/2	1400	1200	1050	900	1200	1050	1050	750	1200	900	750	NA
EP315/2	1500	1400	1200	1050	1400	1200	1050	900	1200	1050	900	750
EP315/3	1500	1500	1400	1200	1400	1200	1200	1050	1200	1050	1050	900
EP400/2	1500	1400	1200	1050	1400	1200	1200	900	1400	1050	1050	750
EP400/3	1800	1500	1400	1200	1500	1500	1400	1050	1500	1400	1200	900
EP400/4	1800	1600	1500	1400	1500	1500	1400	1200	1400	1200	1200	1050
EP500/2	1800	1700	1500	1400	1700	1500	1400	1200	1500	1400	1200	1050
EP500/3	1800	1500	1400	1200	1500	1500	1400	1050	1500	1200	1200	900
EP500/4	1900	1800	1800	1500	1800	1500	1500	1400	1800	1400	1400	1200
EP500/5	1800	1800	1700	1500	1800	1800	1500	1400	1800	1700	1400	1200
EP630/3	2150	1800	1800	1500	1800	1500	1500	1400	1800	1400	1400	1200
EP630/4	2150	2150	1800	1700	2150	1800	1700	1400	1800	1700	1500	1400
EP800/3	2150	1800	1800	1500	1800	1500	1500	1400	1800	1400	1400	1200
EP800/4	2450	2450	2150	1800	2150	1800	1800	1500	2150	1800	1500	1400
EP1000/3	2450	2450	2150	1800	2150	2150	1800	1500	1800	1500	1400	1200
EP1000/4	2450	2150	2150	1800	2150	1800	1800	1500	2150	1800	1500	1400
EP1000/5	2750	2450	2450	2150	2450	2150	2150	1800	2450	2150	1800	1800
EP1000/6	2950	2750	2450	2450	2750	2450	2450	2150	2750	2450	2150	2150
EP1250/3	2450	2150	2150	1800	2150	2150	1800	1800	2150	1800	1700	1700
EP1250/4	2450	2450	2150	1800	2450	2150	1800	1700	2150	1800	1700	1700
EP1250/5	2950	2750	2750	2450	2750	2450	2450	2150	2750	2450	2150	2000
EP1400/4	2450	2450	2150	1800	2450	2150	1800	1700	2150	2150	1800	1700
EP1500/4	2750	2750	2450	2150	2750	2450	2150	2150	2450	2150	2150	1800
EP1500/6	2950	2950	2750	2450	2950	2750	2450	2150	2750	2750	2450	2150
EP1600/4	2450	2450	2150	2150	2450	2150	1800	1800	2150	2150	1800	1800
EP1600/5	2950	2950	2750	2450	2750	2750	2450	2150	2450	2150	2150	1800
EP1800/3	2450	2450	2150	2150	2450	2150	1800	1800	2150	2150	1800	1800
EP1800/4	2750	2750	2450	2150	2750	2450	2150	2150	2450	2150	2150	1800
EP2000/4	2450	2450	2150	2150	2450	2450	2150	2150	2450	2450	2150	1800
EP2000/5	2750	2750	2450	2450	2750	2750	2450	2450	2150	2750	2450	2150
EP2400/3	2450	2450	2150	2150	2450	2150	2150	1800	2150	2150	1800	1700
EP2500/4	2750	2750	2450	2150	2750	2450	2150	2150	2450	2150	2150	1800
EP2500/5	2950	2750	2750	2450	2950	2750	2450	2150	2750	2450	2150	2150
EP3150/4	2750	2750	2450	2150	2750	2450	2150	2150	2450	2150	2150	1800
EP3150/5	2950	2950	2750	2750	2950	2750	2750	2450	2750	2450	2150	2150

1. Troughability and Load Support values can be influenced by certain cover gauge and compound combinations used.
2. Oriental reserves the right to change these values without notice, in tune with technical development.

When the Going Gets Tough, the Tuff Gets Moving



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Wear Resistant



Oil Resistant



Fire Resistant

**MAXX TUFF™**  
General Purpose Belts

