



# 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')

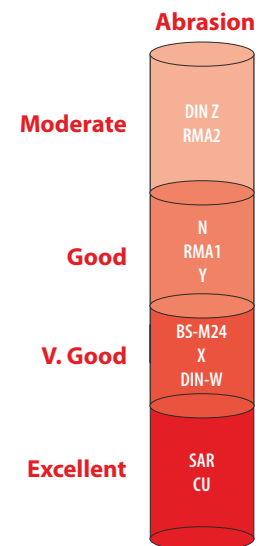


**Maxx Tuff  
hard fact !  
5% price  
increase =  
30% life  
improvement !!**



### MAXX TUFF™ Cover Grade Selection Chart

Cover Grade	Minimum Tensile Strength (PSI)	Minimum Elongation at Break (%)	Maximum Abrasion Loss (mm <sup>3</sup> )	Application Characteristics	Reference Material
DIN Z	2200	350	250	Suitable for conveying moderately abrasive material	sand, current, slaked lime, wood chips, pulp (dry)
RMA2	2000	400	200		
AS-N	2500	400	200		
IS-N	2500	400	200		
JIS-S	2600	450	200		
ARPM RMA2	2000	400	175		
RMA1	2500	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	2500	400	150		
SANS-N	2500	400	150		
SANS-C	2900	400	150		
DINY	2900	400	150		
BS-M24	3500	450	150		
IS-M24	3500	450	150		
ARPM RMA1	2500	400	125		
AS-M	3500	450	125		
SANS-M	3500	450	120		
DIN-X	3600	450	120	High cut & gouge property	sharp big lumps
DIN-W	2600	400	90		
HAR	2600	400	90	high cut & gouge property with super abrasion resistance	abrasive materials & fine
AS-A	2500	400	70		
SAR	2500	400	70		
SAR-N	2900	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	2500	450	40		



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

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

Belt Rating	Nominal Carcass Thickness (inch)	Nominal Carcass Weight (lb/in)/ft	Minimum Pulley Diameter (inch) (60 to 100% belt rated tension)			Minimum Belt Width For Troughing (inch)		
			Drive	Snub	Bend	20° idlers	35° idlers	45° idlers
180/2	0.09	0.04	10	8	6	18	20	28
180/3	0.11	0.06	12	10	8	20	24	30
220/2	0.10	0.05	12	10	8	20	24	30
220/3	0.13	0.07	16	12	10	24	30	36
220/4	0.15	0.09	20	16	12	24	30	36
285/2	0.11	0.05	12	10	8	24	30	36
285/3	0.14	0.07	16	12	10	24	30	36
285/4	0.18	0.10	24	20	16	30	30	36
285/5	0.20	0.12	24	20	16	36	40	48
330/3	0.17	0.08	20	16	12	28	30	36
330/4	0.20	0.10	24	20	16	30	36	40
440/3	0.18	0.09	24	20	16	30	36	40
440/4	0.23	0.11	32	24	20	30	36	40
600/3	0.21	0.09	24	20	16	36	40	48
600/4	0.27	0.13	32	24	20	36	40	48
600/5	0.30	0.15	40	32	24	36	40	48
600/6	0.30	0.17	40	32	24	40	48	56
660/3	0.27	0.11	32	24	20	36	40	48
660/4	0.29	0.13	32	24	20	36	40	48
660/5	0.33	0.16	40	32	24	40	48	56
800/4	0.33	0.16	40	32	24	40	48	56
850/4	0.34	0.15	40	32	24	40	48	56
850/5	0.38	0.18	50	40	32	40	48	56
1000/3	0.39	0.19	50	40	32	40	48	56
1000/4	0.37	0.17	50	40	32	48	56	64
1150/4	0.40	0.18	50	40	32	48	56	60
1150/5	0.43	0.20	50	40	32	56	64	72
1400/4	0.51	0.23	64	50	40	48	56	64
1400/5	0.53	0.23	64	50	40	56	64	72
1800/4	0.65	0.28	72	56	50	56	56	64
1800/5	0.67	0.30	80	64	50	56	64	72

1. When in doubt, please contact your ORIENTAL representative for selection guidance.
2. Add the appropriate cover gauge to this carcass gauge to obtain the approximate overall belt thickness.
3. Add the appropriate cover weight to this carcass weight to obtain the appropriate overall belt weight.

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

Belt Rating	Load Support - Maximum Belt Width (inch)											
	20° idlers				35° idlers				45° idlers			
	0-40 lb/ft <sup>3</sup>	40-80 lb/ft <sup>3</sup>	80-120 lb/ft <sup>3</sup>	>120 lb/ft <sup>3</sup>	0-40 lb/ft <sup>3</sup>	40-80 lb/ft <sup>3</sup>	80-120 lb/ft <sup>3</sup>	>120 lb/ft <sup>3</sup>	0-40 lb/ft <sup>3</sup>	40-80 lb/ft <sup>3</sup>	80-120 lb/ft <sup>3</sup>	>120 lb/ft <sup>3</sup>
180/2	60	56	48	40	56	48	40	36	48	40	36	32
180/3	60	60	56	48	56	48	48	40	48	40	40	36
220/2	60	56	48	40	56	48	48	36	56	40	40	30
220/3	72	60	56	48	60	60	56	40	60	56	48	36
220/4	72	64	60	56	60	60	56	48	56	48	48	40
285/2	72	67	60	56	67	60	56	48	60	56	48	40
285/3	72	60	56	48	60	60	56	40	60	48	48	36
285/4	74	72	72	60	72	60	56	56	72	56	56	48
285/5	72	72	67	60	72	72	60	56	72	67	56	48
330/3	84	72	72	60	72	60	60	56	72	56	56	48
330/4	84	85	72	67	85	72	67	56	72	67	60	56
440/3	84	72	72	60	72	60	60	56	72	56	56	48
440/4	96	96	85	72	85	72	72	60	85	72	60	56
600/3	96	96	85	72	85	85	72	60	72	60	56	48
600/4	96	85	85	72	85	72	72	60	85	72	60	56
600/5	108	96	96	84	96	85	85	72	96	85	72	72
600/6	116	108	96	96	108	96	96	85	108	96	85	85
660/3	96	84	85	72	85	85	72	72	85	72	67	67
660/4	96	96	85	72	96	85	72	67	85	72	67	67
660/5	116	108	108	96	108	96	96	85	108	96	85	80
800/4	96	96	85	72	96	85	72	67	85	85	72	67
850/4	96	96	85	84	96	85	72	72	85	85	72	72
850/5	116	116	108	96	108	108	96	85	96	85	85	72
1000/3	96	96	85	84	96	85	72	72	85	85	72	72
1000/4	108	108	96	84	108	96	85	85	96	85	85	72
1150/4	96	96	85	84	96	96	85	85	96	96	85	72
1150/5	108	108	96	96	108	108	96	96	85	108	96	85
1400/4	108	108	96	84	108	96	85	85	96	85	85	72
1400/5	116	108	108	96	116	108	96	85	108	96	85	85
1800/4	108	108	96	84	108	96	85	85	96	85	85	72
1800/5	116	116	108	108	116	108	108	96	108	96	85	85

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

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