



OFF-THE-ROAD RADIAL OTR DATABOOK

2024V1.0



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@Techking Tires



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ABOUT TECHKING



VISION

Become a leading mining and construction tire brand

VALUE

**Customer-oriented,
Cooperate with Synergy,
Improve with Consistency,
Do with Responsibility,
Behave with Integrity**

RECOGNITION FROM OE & BIG USERS



Established in 2007, Techking Tires Limited is dedicated to mining and construction tires, focusing on specific application, integrated product R&D, quality control, and brand operation. Our goal is to become a leading mining and construction tire brand.

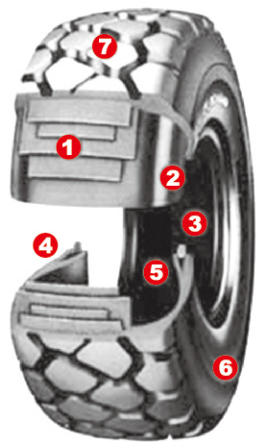
Techking focuses on both domestic and overseas markets throughout development. Currently, it works with mining and construction companies in more than 100 countries and supports world-renowned mining enterprises and equipment manufacturers with quality service. By now, Techking is the only Chinese tire brand to simultaneously render all terrain crane tire services to China's top 3 crane manufacturers XCMG, SANY, and ZOOMLION. In the overseas markets, Techking renders tire services to more than 40 internationally recognized machinery manufacturers such as Liebherr, Tadano Demag, and JCB. It also gains the recognition of global leading mining companies including Rio Tinto, Glencore, BHP, and Vale.

Focusing on customer value, Techking is developing a Three-lever core competitiveness that covers a localized marketing system, an integrated product development system, and a specialized service system. With the continuous support of technical talents and technological innovation, the company will deeply cultivate mining and construction industries, and provide our customers with application-specific products and professional services.

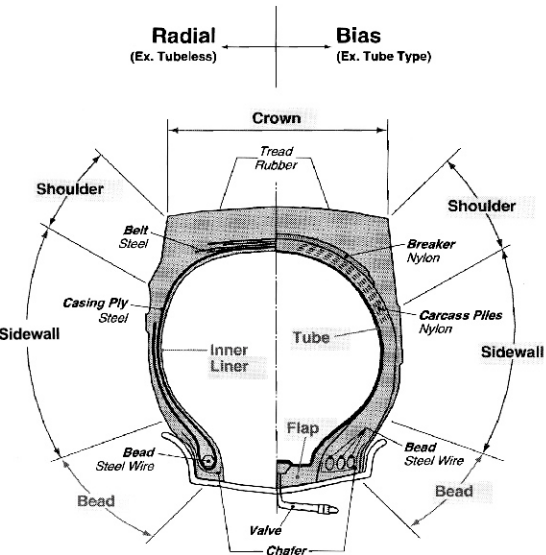
CONTENTS

TRA CLASSIFICATION OFF-THE-ROAD TIRES	05
LOAD INDEX & MAXIMUM LOAD	06
COMPOUND	07
CONVERSION TABLE	08
IDENTIFICATION OF OTR TIRES	09
EXAMPLES OF MARKINGS	10
TECHKING RADIAL TIRES	11
TECHKING APPLICATION RECOMMENDATION	13
EARTHMOVER SERVICE	15
INDUSTRIAL SERVICE	21
LOADER & DOZER SERVICE	23
UNDERGROUND SERVICE	27
GRADER SERVICE	31
MINING TRUCK SERVICE	33
HIGHWAY SERVICE	35
SPECIAL SERVICE	37
LOGGING TRUCK	37
TKPH/TMPH DEFINITIONS	38
LOAD & CARRY OPERATIONS FOR LOADERS	42
O-RING DEFINITION & SPECIFICATIONS	42
RIM & VALVE	44
CONVERSION TABLES: UNIT	46

CONSTRUCTION AND COMPONENT PARTS



- ①Belt ②Carcass ③Inner Liner
- ④Bead Wire ⑤Chafer ⑥Sidewall
- ⑦Tread

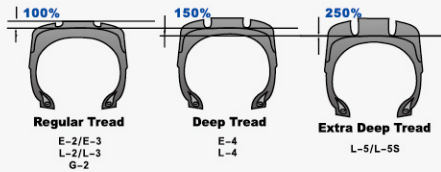


APPLICATION VEHICLE MATCHING CHART

Application	Vehicle
Earthmover Service	Dump Trucks, Motor Scrapers, Articulated Dump Trucks, Coal Haulers, Logging Trucks, Other Mining Trucks, etc
Grader Service	Motor Graders
Loader & Dozer Service	Shovels, Front-End Loaders, Back-hoe Loaders, Skid Steer Loaders, Dozers, Shuttle Trucks, Load-Haul-Dumps, etc
High-Speed Service	All-Terrain Cranes, High-speed Vehicles, etc
Industrial Service	Straddle Carriers, Aircraft Towing Tractors, Container Stackers, Counter-balanced Lift Trucks, Mobile Crushers, Log Stacker, etc
Logging Service	Log-Skidders
Compactor Service	Compactors, Road Rollers
Sand Service	Sand Service Trucks

TRA CLASSIFICATION OFF-THE-ROAD TIRES

TRA CODE	TREAD TYPE	PATTERN	SPEED	ONE-WAY DISTANCE
E-EARTHMOVER (HAULAGE SERVICE)				
E-2	Traction Regular	SNOWKING, ETSNOW, MATE SNOW, ETAT, MATE SNOW E	50KM/H	4KM
		SNOWKING L, ETCRANE, ETCRANE2, ETGC, ETCRANE L	70KM/H	/
E-3	Rock Regular	ETSD, ET618, ETOK, ETOH, ET919, ET668, ET688, SUPER ETOT, PROADT, ETADT, MATE E3L3, ET919+, ETTN, ET609, ETCRANE	50KM/H	4KM
E-4	Rock Deep Tread	ET304, ET355, ET358, SUPER ROCK, SUPER TRAC, SUPER RDT, ETD, FORT RDT, ETUL+, ETRT, ETRT9, ETRTV, ETD2, ETST, ETUM, ETNT, SUPER ADT, ETADT, FORT ADT, ET359, ET303+, ET405, SUPER H	50KM/H	4KM
E-7	Flotation	DK20, DK22	80KM/H	/
		ETSA, ETMT	90KM/H	
L-LOADER AND DOZER (SLOW SPEED SERVICE)				
L-2	Traction Regular	SNOWKING, ETSNOW, MATE SNOW, ETGRADER, ETGRADER2, MATE SNOW E	10KM/H(5mph)	76M(250ft)
L-3	Rock Regular	PROADT, ETADT, MATE L3, MATE E3L3, MATE-S L3	10KM/H(5mph)	76M(250ft)
L-4	Rock Deep Tread	ETNT, ETUM, ETST	10KM/H(5mph)	76M(250ft)
L-5	Rock Extra Deep Tread	ETDL5, ETDL5S, ETD2, ETD2S, MATE D2S	10KM/H(5mph)	76M(250ft)
L-5S	Smooth Extra Deep Regular	PROLHD, ETSM, TKUM II	10KM/H(5mph)	76M(250ft)
G-GRADER				
G-2	Traction Regular	ETGRADER2, ETGRADER, MATE G2, ETSNOW	40KM/H(25mph)	UNLIMITED
IND-INDUSTRIAL				
IND-4	Deep Tread	ETPORTM, ETPORTM+, TKPORTH, TKPORTH II	/	/



Mining Application



Construction Application

LOAD INDEX & MAXIMUM LOAD

LI	maximum load	
	kg	lb
120	1400	3090
121	1450	3200
122	1500	3310
123	1550	3420
124	1600	3530
125	1650	3640
126	1700	3750
127	1750	3860
128	1800	3970
129	1850	4080

130	1900	4190
131	1950	4300
132	2000	4410
133	2060	4540
134	2120	4670
135	2180	4810
136	2240	4940
137	2300	5070
138	2360	5200
139	2430	5360

140	2500	5510
141	2575	5680
142	2650	5840
143	2725	6010
144	2800	6170
145	2900	6390
146	3000	6610
147	3075	6780
148	3150	6950
149	3250	7170

150	3350	7390
151	3450	7610
152	3550	7830
153	3650	8050
154	3750	8270
155	3875	8540
156	4000	8820
157	4125	9090
158	4250	9370
159	4375	9650

LI	maximum load	
	kg	lb
160	4500	9920
161	4625	10200
162	4750	10470
163	4875	10750
164	5000	11020
165	5150	11350
166	5300	11690
167	5450	12020
168	5600	12350
169	5800	12790

170	6000	13230
171	6150	13560
172	6300	13890
173	6500	14330
174	6700	14770
175	6900	15210
176	7100	15650
177	7300	16090
178	7500	16530
179	7750	17090

180	8000	17640
181	8250	18190
182	8500	18740
183	8750	19290
184	9000	19840
185	9250	20390
186	9500	20940
187	9750	21500
188	10000	22050
189	10300	22710

190	10600	23370
191	10900	24030
192	11200	24690
193	11500	25360
194	11800	26020
195	12150	26790
196	12500	27560
197	12850	28330
198	13200	29100
199	13600	29990

LI	maximum load	
	kg	lb
200	14000	30870
201	14500	31970
202	15000	33070
203	15500	34180
204	16000	35280
205	16500	36380
206	17000	37480
207	17500	38590
208	18000	39690
209	18500	40790

210	19000	41890
211	19500	43000
212	20000	44100
213	20600	45420
214	21200	46750
215	21800	48070
216	22400	49390
217	23000	50700
218	23600	52040
219	24300	53580

220	25000	55120
221	25750	56780
222	26500	58430
223	27250	60070
224	28000	61740
225	29000	63940
226	30000	66150
227	30750	67790
228	31500	69460
229	32500	71660

230	33500	73870
231	34500	76070
232	35500	78280
233	36500	80480
234	37500	82690
235	38750	85430
236	40000	88200
237	41250	90940
238	42500	93710
239	43750	96470

LI	maximum load	
	kg	lb
240	45000	99210
241	46250	101960
242	47500	104720
243	48750	107470
244	50000	110250
245	51500	113540
246	53000	117950
247	54500	120150
248	56000	123480
249	58000	127890

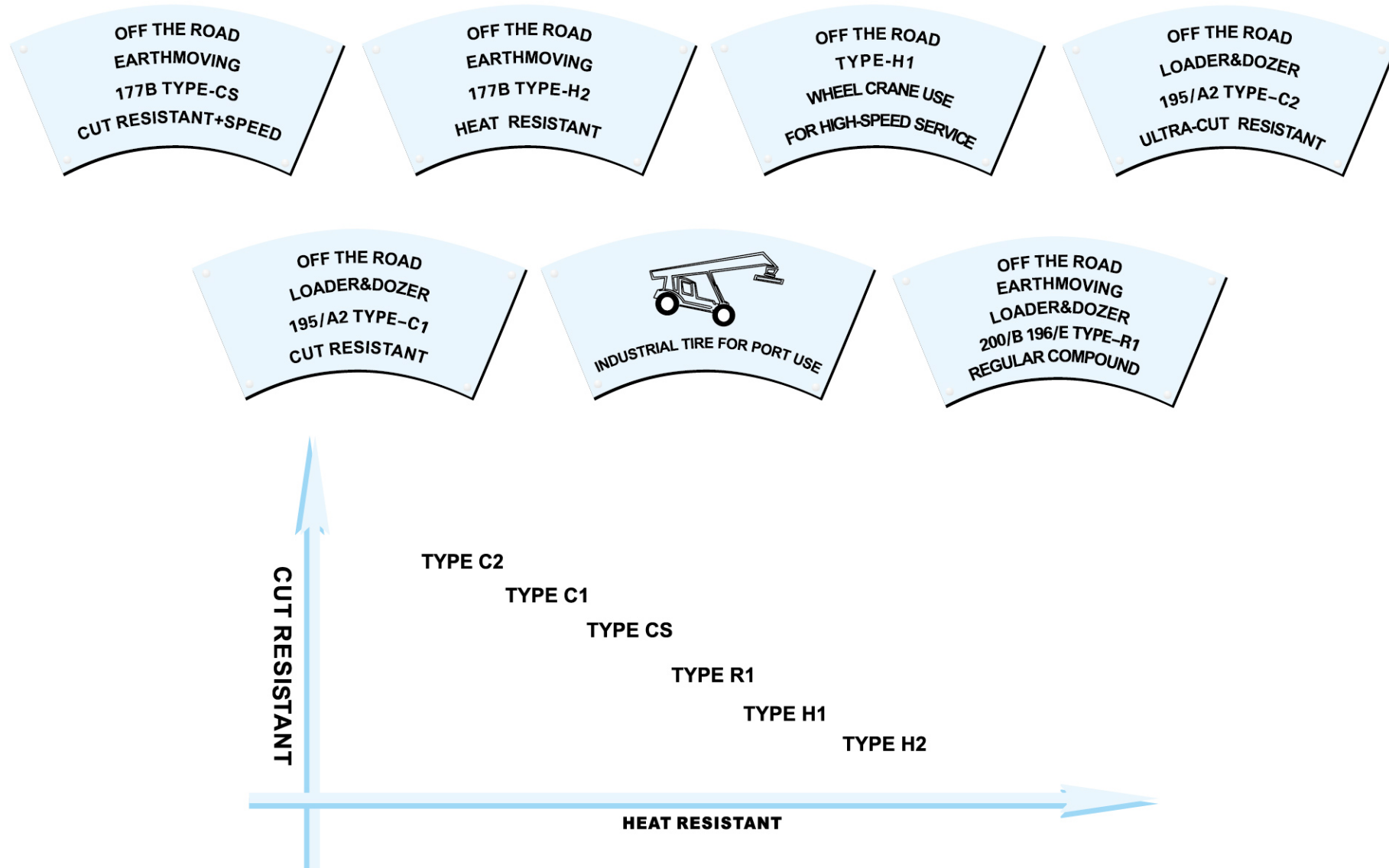
250	60000	132300
251	61500	135580
252	63000	138890
253	65000	143300
254	67000	147710
255	69000	152120
256	71000	156530
257	73000	160930
258	75000	165340
259	77500	170660

260	80000	176400
261	82500	181880
262	85000	187390
263	87500	192900
264	90000	198450
265	92500	203920
266	95000	209440
267	97500	214950
268	100000	220500
269	103000	227370

SPEED SYMBOLS

Symbol	A2	A6	A8	B	C	D	E	F	G
speed(km/h)	10	30	40	50	60	65	70	80	90
speed(mph)	5	20	25	30	35	40	45	50	55

COMPOUND



CONVERSION TABLE: STAR RATING TO PLY RATING

Service	Tire Size	Star Rating	Corresponding Ply Rating
Earthmover	13.00R25	★★★★	up to 28
	14.00R24	★★★★	up to 32
	14.00R25	★★★★	up to 32
	16.00R25	★★★★	up to 36
	18.00R25	★★/★★★★	up to 36
	18.00R33	★★/★★★★	up to 40
	21.00R33	★★	up to 36
	21.00R35	★★	up to 44
	24.00R35	★★	up to 48
	27.00R49	★★	up to 54
	30.00R51	★★	up to 58
	33.00R51	★★	up to 64
	36.00R51	★★	up to 66
	40.00R57	★★	up to 74
	15.5R25	★★	up to 20
	17.5R25	★★	up to 20
	20.5R25	★★	up to 28
	23.5R25	★★	up to 32
	26.5R25	★★	up to 32
	29.5R25	★★	up to 34
Grader	29.5R29	★★	up to 40
	13.00R24	★	up to 16
	14.00R24	★★	up to 20
Loader	16.00R24	★★	up to 20
	20.5R25	★★	up to 28
	23.5R25	★★	up to 32
	26.5R25	★★	up to 36
	29.5R25	★★	up to 34
	35/65R33	★★	up to 48
Port	12.00R20	★★	20 PR
	12.00R24	★★	20 PR
	14.00R24	★★★★	28 PR
	16.00R25	★★	32 PR
	16.00R25	★★★★	36 PR
	18.00R25	★★★★	40 PR
	18.00R33	★★★★	40 PR

CONVERSION TABLE

325/95R24	12.00R24
385/95R24	14.00R24
385/95R25	14.00R25
445/95R25	16.00R25
445/80R25	17.5R25
505/95R25	18.00R25
525/80R25	20.5R25
750/65R25	30/65R25

IDENTIFICATION OF OTR TIRES

Regular

24.00 R 35 ☆☆

- Star Rating
- Rim Diameter (inches)
- Radial Structure
- Section Width (inches)

Super Wide Base

35 /65 R 33 ☆☆

- Star Rating
- Rim Diameter (inches)
- Aspect Ratio 65 Series
- Section Width (inches)

★ Tire Aspect Ratio

SH
SW = 0.95

SH
SW = 0.80

SH
SW = 0.65

Wide Base

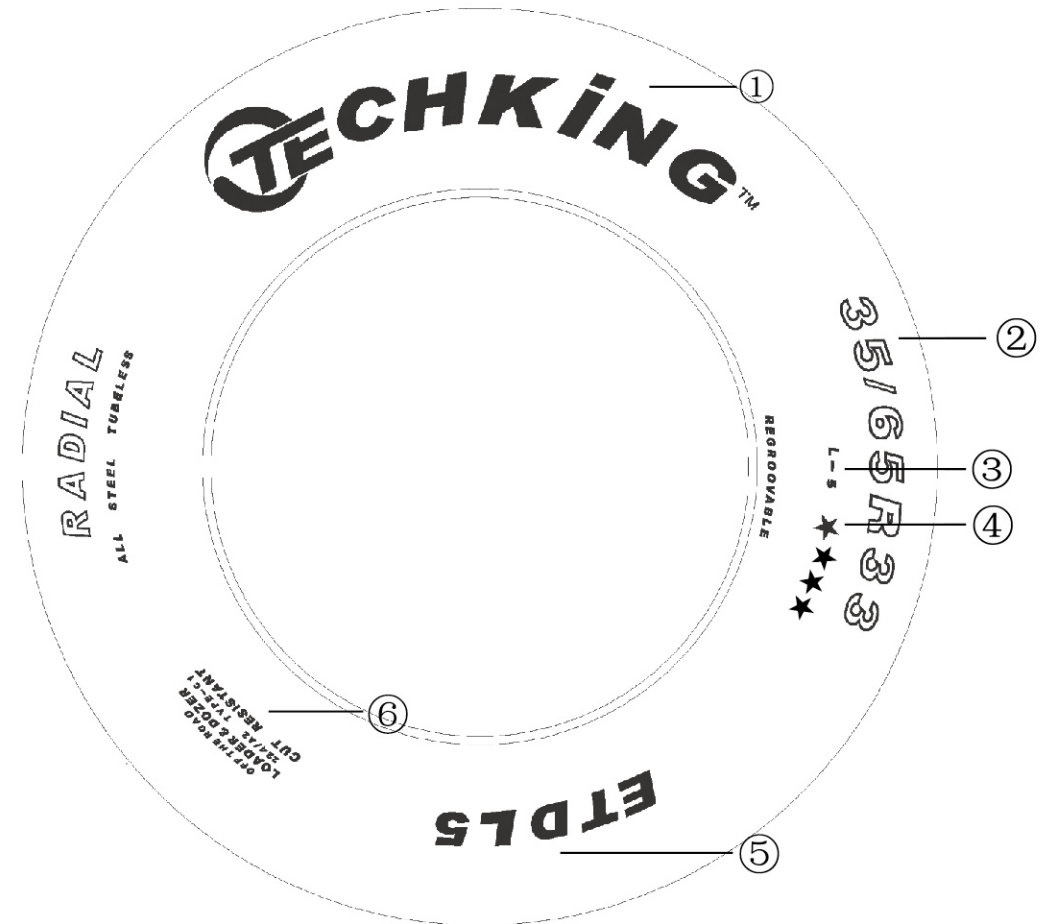
29.5 R 25 ☆☆

- Star Rating
- Rim Diameter (inches)
- Radial Structure
- Section Width (inches)

385/95 R 24 170 F

- Speed Symbol
- Load Index
- Rim Diameter (inches)
- Radial Structure
- Aspect Ratio 95 Series
- Section Width (mm)

EXAMPLE OF MARKINGS



35/65R33 L5 TL 229A2

- ① TECHKING : BRAND NAME
- ② 35/65R33: TIRE SIZE
- ③ L-5: TRA CODE
- ④ ★★★★★: STAR RATING
- ⑤ ETDL5: TREAD PATTERN
- ⑥ Specifications Code

TECHKING RADIAL TIRES

E-EARTHMOVER (HAULAGE SERVICE)



L-LOADER AND DOZER (SLOW SPEED SERVICE)



G-GRADER



IND-INDUSTRIAL



TECHKING APPLICATION RECOMMENDATION

LOADER & DOZER SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
14.00R24	ETGRADER2	G2/L2	★★	TL
	ETSNOW	G2/L2	★	TL
15.5R25	ETSNOW	L2	★★	TL
	MATE E3L3	G3/L3	★★	TL
17.5R25	SNOWKING	E2/L2	★★	TL
	ETDL5	L5	★★	TL
	MATE L3	G3/L3	★★	TL
	MATE-S L3	E3/L3	★★	TL
	MATE SNOW E	E2/L2	★★	TL
	MATE SNOW	E2/L2	★★	TL
20.5R25	SNOWKING	E2/L2	★★	TL
	ETDL5S	L5	★★	TL
	ETDL5	L5	★★	TL
	ETD2S	L5	★★	TL
	MATE E3L3	E3/L3	★★	TL
	MATE SNOW	E2/L2	★★	TL
	MATE-S L3	E3/L3	★★	TL
	MATE SNOW E	E2/L2	★★	TL
	MATE D2S	L5	★★	TL
23.5R25	SNOWKING	E2/L2	★★	TL
	PROADT	E3/L3	★★	TL
	ETDL5	L5	★★	TL
	ETDL5S	L5	★★	TL
	ETD2S	L5	★★	TL
	MATE E3L3	E3/L3	★★	TL
	MATE SNOW	E2/L2	★★	TL
	MATE-S L3	E3/L3	★★	TL
	MATE SNOW E	E2/L2	★★	TL
	MATE D2S	L5	★★	TL

INDUSTRIAL SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
12.00R20	ETPORTM	IND4	★★	TT
12.00R24	ETPORTM	IND4	★★	TT/TL
14.00R24	ETPORTM+	IND4	★★★	TL

LOADER & DOZER SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
600/65R25	ETADT	E3/L3	★★	TL
650/65R25	ETADT	E3/L3	★★	TL
750/65R25	ETADT	E3/L3	★★	TL
26.5R25	ETSNOW	E2/L2	★★	TL
	FORT ADT	E4/L4	★★	TL
	ETDL5	L5	★★	TL
	ETD2S	L5	★★	TL
	ETDL5S	L5	★★	TL
	MATE E3L3	E3/L3	★★	TL
	MATE D2S	L5	★★	TL
	MATE-S L3	E3/L3	★★	TL
	PROADT	E3/L3	★★	TL
	PROADT	E3/L3	★★	TL
29.5R25	ETSNOW	E2/L2	★★	TL
	PROADT	E3/L3	★★	TL
	SUPER ADT	E4/L4	★★	TL
	FORT ADT	E4/L4	★★	TL
	ETDL5	L5	★★	TL
	ETDL5S	L5	★★	TL
	ETD2S	L5	★★	TL
	MATE D2S	L5	★★	TL
	ETD2	L5	★★	TL
	ETD2	L5	★★	TL
29.5R29	ETDL5	L5	★★	TL
875/65R29	ETADT	E3/L3	★★	TL
35/65R33	ETDL5	L5	★★★★	TL
	ETNT	E4/L4	★★★★	TL

SPECIAL SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
14.00R20	ETSA™	—	18	TT
		—	20	TT
24R20.5	DK22™	E7	16	TL
24R20.5	DK20™	E7	16	TL
14.00R20	ETMT™	—	20	TT
24R21		E7	16	TL
385/95R25	SNOWKING L	E2	★★★	TL

EARTHMOVER SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
14.00R24	ETAT	E2	★★★★	TT
	ETSNOW	E2	★★★★	TT
14.00R25	ETSNOW	E2	★★★★	TL
15.5R25	ETSNOW	E2	★★	TL
16.00R25	ETSDT	E4	★★	TL
	ETSD	E3	★★	TL
	ETSNOW	E2	★★★★	TL
	ETD2S	L5	★★	TL
17.5R25	SNOWKING	E2/L2	★★	TL
18.00R25	ETRT	E4	★★	TL
20.5R25	SNOWKING	E2/L2	★★	TL
	SNOWKING	E2/L2	★★	TL
23.5R25	PROADT	E3/L3	★★	TL
	ETADT	E4	★★	TL
600/65R25	ETADT	E3/L3	★★	TL
650/65R25	ETADT	E3/L3	★★	TL
750/65R25	ETADT	E3/L3	★★	TL
26.5R25	ETSNOW	E2/L2	★★	TL
	ETADT	E4	★★	TL
	PROADT	E3/L3	★★	TL
	FORT ADT	E4	★★	TL
29.5R25	ETSNOW	E2/L2	★★	TL
	PROADT	E3/L3	★★	TL
	ETADT	E4	★★	TL
	SUPER ADT	E4	★★	TL
	FORT ADT	E4	★★	TL
	ETADT	E4	★★	TL
29.5R29	ETADT	E4	★★	TL
33.25R29	SUPER ADT	E4	★★	TL
875/65R29	ETADT	E3/L3	★★	TL
18.00R33	ETDT	E4	★★	TL
	ETDT2	E4	★★	TL
	SUPER RDT	E4	★★	TL
21.00R33	ETUL+	E4	★★	TL
24.00R35	ETDT	E4	★★	TL
	ETDT2	E4	★★	TL
	SUPER RDT	E4	★★	TL
	FORT RDT	E4	★★	TL
	SUPER TRAC	E4	★★	TL

EARTHMOVER SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
27.00R49	ET304	E4	★★	TL
	ET355	E4	★★	TL
	SUPER ROCK	E4	★★	TL
	SUPER TRAC	E4	★★	TL
	ETDT	E4	★★	TL
	ET303+	E4	★★	TL
	ET405	E4	★★	TL
30.00R51	ET355	E4	★★	TL
33.00R51	ET304	E4	★★	TL
	ET355	E4	★★	TL
	SUPER TRAC	E4	★★	TL
	ET355	E4	★★	TL
36.00R51	ET355	E4	★★	TL
37.00R57	ET304	E4	★★	TL
40.00R57	ET304	E4	★★	TL
	ET358	E4	★★	TL
46/90R57	ET304	E4	★★	TL
	ET358	E4	★★	TL
50/80R57	SUPER H	E4	★★	TL
	ET304	E4	★★	TL
	ET359	E4	★★	TL

HIGHWAY SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
385/95R24 (14.00R24)	ETCRANE	E2	★★★★	TT
385/95R25 (14.00R25)	ETCRANE	E2	★★★★	TL
	ETCRANE2	E2	★★★★	TL
	ETCRANE	E2	★★★★	TL
445/95R25 (16.00R25)	CRANE80	E2	★★★★	TL
	ETCRANE	E2	★★★★	TL
445/95R25 (16.00R25)	ETCRANE *	E2	★★★★	TL
	ETCRANE	E2	★★★★	TL
505/95R25 (18.00R25)	ETGC	E2	★★★★	TL
445/80R25 (17.5R25)	ETCRANE	E2	★★★★	TL
525/80R25 (20.5R25)	ETGC	E2	★★★★	TL
	ETCRANE L	E	★★★★	TL

UNDERGROUND SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
10.00R20	ETSM	L4S	★★	TT/TL
12.00R20	ETSM	L5S	★★	TT
12.00R24	PROLHD	L5S	★★	TT
14.00R24	ETST	E4/L4	★★★★	TT
	PROLHD	L5S	★★	TT
16.00R25	ETUM	E4/L4	★★	TT/TL
17.5R25	ETDL5	L5	★★★★	TL
	ETSM	L5S	★★	TT/TL
	PROLHD	L5S	★★	TT/TL
	PROLHD	L5S	★★	TL
18.00R25	ETSM	L5S	★★	TL
	ETST	E4	★★	TL
	ETD2S	L5	★★	TL
26.5R25	ETDL5	L5	★★	TL
	ETSM	L5S	★★	TL
	PROLHD	L5S	★★	TL
	ETNT	E4	★★	TL
	ETD2	L5	★★	TL
29.5R25	ETDL5	L5	★★	TL
	ETSM	L5S	★★	TL
	ETNT	E4	★★	TL
	ETD2	L5	★★	TL
	ETDL5	L5	★★	TL
29.5R29	ETSM	L5S	★★	TL
	PROLHD	L5S	★★	TL
	ETNT	E4	★★	TL
	ETD2	L5	★★	TL
35/65R33	ETNT	E4/L4	★★★★	TL
35/65R33	ETDL5	L5	★★★★	TL
	ETSM	L5S	★★	TL

GRADER SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
13.00R24	ETGRADER	G2	★	TL
14.00R24	ETGRADER2	G2/L2	★★	TL
	ETSNOW	G2/L2	★	TL
16.00R24	MATE G2	G2	★★	TL
	ETGRADER	G2	★★	TL
17.5R25	SNOWKING	E2/L2	★★	TL
	MATE L3	G3/L3	★★	TL
20.5R25	SNOWKING	E2/L2	★★	TL
	ETDL5	L5	★★	TL
23.5R25	ETD2S	L5	★★	TL
	SNOWKING	E2/L2	★★	TL
26.5R25	ETSNOW	E2/L2	★★	TL
	ETD2S	L5	★★	TL
29.5R25	ETSNOW	E2/L2	★★	TL
	ETD2	L5	★★	TL
29.5R29	ETD2	L5	★★	TL

MINING TRUCK SERVICE

Size	Pattern	TRA Code	Star Rating	TT/TL
12.00R24	ETOT	/	20	TT
	ETOT	/	24	TT
	ETOT II	/	★★★★	TT
14.00R25	ET618	E3	★★★★	TT/TL
	ETOK	E3	★★★★	TT/TL
	ETOH	E3	★★★★	TT/TL
	ET919	E3	★★★★	TT/TL
	ETRT9	E4	★★★★	TT/TL
	ET609	E3	★★★★	TT/TL
16.00R25	ET919	E3	★★★★	TT/TL
	ET668	E3	★★★★	TT/TL
	SUPER ETOT	E3	★★★★	TT/TL
	ETRTV	E4	★★★★	TT/TL
	ET688	E3	★★★★	TT/TL
	ET919+	E3	★★★★	TT/TL
	ETTN	E3	★★★★	TT/TL
460/95R25	ET688	E3	★★★★	TT/TL
	ET919+	E3	★★★★	TT/TL
	ET668	E3	★★★★	TT/TL
18.00R25	ETOH	E3	★★★★	TT/TL
480/95R29	ETRT	E4	★★★★	TL
	ETOH	E3	★★★★	TT/TL
505/95R29	ETOH	E3	★★★★	TT/TL
18.00R33	ETDT2	E4	★★★★	TL
	ETDT	E4	★★★★	TL

EARTHMOVER SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
24"													
14.00R24	ETAT	E2	★★★	10.00W	26	20.5	14.92	379	53.23	1352	170 E	0.71	TT
	ETSNOW	E2	★★★	10.00W	28	22	14.49	368	53.23	1352	170 E	0.71	TT
25"													
14.00R25	ETSNOW	E2	★★★	10.00-1.5	28	22	14.49	368	53.23	1352	170 E	0.67	TL
15.5R25	ETSNOW	E2	★★	12.00-1.3	30	24	15.51	394	50.28	1277	160 B	0.64	TL
16.00R25	ETSDT	E4	★★	11.25-2.0	57	45	17.01	432	60.94	1548	177 B	1.04	TL
	ETSD	E3	★★	11.25-2.0	42	33	17.64	448	60.04	1525	177 B	1.04	TL
	ETSNOW	E2	★★★	11.25-2.0	33	26.5	17.01	432	58.78	1493	177 E	0.96	TL
17.5R25	SNOWKING	E2/L2	★★	14.00-1.5	35	28	18.27	464	52.95	1345	167 B/182 A2	0.84	TL
18.00R25	ETRT	E4	★★	13.00-2.5	57	45.5	19.61	498	65.87	1673	185 B	1.39	TL
20.5R25	SNOWKING	E2/L2	★★	17.00-2.0	39	31	20.83	529	58.74	1492	177 B/193 A2	1.18	TL
23.5R25	SNOWKING	E2/L2	★★	19.50-2.5	43	34	24.17	614	62.87	1597	185 B/201 A2	1.57	TL
	PROADT	E3/L3	★★	19.50-2.5	46	36.5	23.50	597	63.66	1617	185 B/201 A2	1.56	TL
	ETADT	E4	★★	19.50-2.5	59	47	23.50	597	65.87	1673	185 B	1.67	TL
600/65R25	ETADT	E3/L3	★★	19.50-2.5	43	34.5	23.86	606	55.71	1415	178 B/187 A2	1.21	TL
650/65R25	ETADT	E3/L3	★★	19.50-2.5	47	37	25.20	640	58.27	1480	180 B/193 A2	1.40	TL
750/65R25	ETADT	E3/L3	★★	24.00-3.0	54	43	29.06	738	62.95	1599	190 B/202 A2	1.89	TL

Pattern	Application Max Speed km/h mph	Tire Load Limits at Various Cold Inflation Pressure																																							
		kPa	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900													
		psi	40	44	47	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102	105	109	112	116	120	124	127	130													
24"																																									
ETSNOW	E/M 70 42	★																											3★												
		kg																											4000	4125	4375	4500	4625	4750	5000	5150	5300	5450	5600	5840	6000
		lbs																											8826	9102	9653	9929	10205	10481	11033	11363	11694	12025	12356	12886	13239
25"																																									
ETSNOW	E/M 70 42	★																											3★												
		kg																											4000	4125	4375	4500	4625	4750	5000	5150	5300	5450	5600	5840	6000
		lbs																											8826	9102	9653	9929	10205	10481	11033	11363	11694	12025	12356	12886	13239
ETSNOW	E/M 50 30	★													2★																										
		kg							3650	3875	4000	4250	4375	4500																											
		lbs							8054	8550	8826	9378	9653	9929																											
ETSDT ETSD	E/M 50 30	★																			2★																				
		kg											5450	5670	5900	6150	6400	6625	6850	7075	7300																				
		lbs											12025	12511	13018	13570	14122	14618	15115	15611	16107																				
ETSNOW	E/M 70 42	★																											3★												
		kg																											5450	5670	5900	6150	6400	6625	6850	7075	7300				
		lbs																											12025	12511	13018	13570	14122	14618	15115	15611	16107				
SNOWKING	E/M 50 30	★						1★								2★																									
		kg	3350	3550	3750	4000	4125	4375	4625	4750	5000	5150	5450																												
		lbs	7392	7833	8274	8826	9102	9653	10205	10481	11033	11363	12025																												
ETRT	E/M 50 30	★													1★																										
		kg									6700	7100	7300	7500	7750	8000	8250	8500	8750	9000	9250																				
		lbs									14784	15666	16107	16549	17100	17652	18204	18755	19307	19859	20410																				
SNOWKING	E/M 50 30	★						1★								2★																									
		kg	4375	4750	5000	5300	5600	5800	6150	6500	6700	6900	7300																												
		lbs	9653	10481	11033	11694	12356	12798	13570	14342	14784	15225	16107																												
SNOWKING PROADT ETADT	E/M 50 30	★						1★								2★																									
		kg	5600	6000	6500	6700	7100	7500	7750	8250	8500	9000	9250																												
		lbs	12356	13239	14342	14784	15666	16549	17100	18204	18755	19859	20410																												
ETADT	E/M 50 30	★													2★																										
		kg							4650	5050	5500	6000	6500	7000	7500																										
		lbs							10260	11143	12136	13239	14342	15446	16549																										
ETADT	E/M 50 30	★													2★																										
		kg							5150	5550	6000	6500	7000	7500	8000																										
		lbs							11363	12246	13239	14342	15446	16549	17652																										
ETADT	E/M 50 30	★													2★																										
		kg							7750	8250	8750	9250	9750	10300	10600																										
		lbs							17100	18204	19307	20410	21513	22727	23389																										



Pattern	Application		Tire Load Limits at Various Cold Inflation Pressure																										
	Max.Speed	kPa	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	
	km/h mph	psi	40	44	47	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102	105	109	112	116	120	124	127	130	
25"																													
ETSNOW ETADT PROADT FORT ADT	E/M 50 30	★						1★						2★															
		kg	7100	7500	8000	8500	9000	9500	9750	10300	10600	11200	11500																
		lbs	15666	16549	17652	18755	19859	20962	21513	22727	23389	24713	25375																
ETSNOW PROADT ETADT SUPER ADT FORT ADT	E/M 50 30	★						1★						2★															
		kg	8500	9250	9750	10300	10900	11500	11800	12500	12850	13600	14000																
		lbs	18755	20410	21513	22727	24051	25375	26037	27581	28354	30008	30891																
29"																													
ETADT	E/M 50 30	★						1★						2★															
		kg	9250	9750	10300	10900	11500	12150	12500	13200	13600	14500	15000																
		lbs	20410	21513	22727	24051	25375	26809	27581	29126	30008	31994	33098																
SUPER ADT	E/M 50 30	★						1★						2★															
		kg	11200	12150	12850	13600	14000	15000	15500	16500	17000	17500	18500																
		lbs	24713	26809	28354	30008	30891	33098	34201	36407	37511	38614	40820																
ETADT	E/M 50 30	★											2★																
		kg	10000	10900	11500	12150	12850	13600	14000	14500	15500																		
		lbs	22065	24051	25375	26809	28354	30008	30891	31994	34201																		
33"																													
ETDT ETDT2 SUPER RDT	E/M 50 30	★																		2★									
		kg											7750	8000	8500	8750	9000	9250	9750	10000	10300	10600	10900						
		lbs											17100	17652	18755	19307	19859	20410	21513	22065	22727	23389	24051						
ETUL+	E/M 50 30	★																		2★									
		kg											10000	10300	10900	11200	11500	11800	12500	12850	13200	13600	14000						
		lbs											22065	22727	24051	24713	25375	26037	27581	28354	29126	30008	30891						
35"																													
ETDT ETDT2 SUPER RDT FORT RDT SUPER TRAC	E/M 50 30	★																		2★									
		kg											13200	13600	14000	14500	15500	16000	16500	17000	17500	18000	18500						
		lbs											29126	30008	30891	31994	34201	35304	36407	37511	38614	39717	40820						

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
49"													
27.00R49	ET304	E4	★★	19.50-4.0	103	82	29.13	740	105.91	2690	223 B	5.35	TL
	ET355	E4	★★	19.50-4.0	89	71	29.06	738	105.31	2675	223 B	5.28	TL
	SUPER ROCK	E4	★★	19.50-4.0	103	82	30.39	772	105.87	2689	223 B	5.58	TL
	SUPER TRAC	E4	★★	19.50-4.0	93	74	28.82	732	105.87	2689	223 B	5.29	TL
	ETDT	E4	★★	19.50-4.0	93	74	28.90	734	105.91	2690	223 B	5.31	TL
	ET303+	E4	★★	19.50-4.0	86	68	27.95	710	105.83	2688	223 B	5.13	TL
	ET405	E4	★★	19.50-4.0	96	76	29.13	740	106.46	2704	223 B	5.41	TL
51"													
30.00R51	ET355	E4	★★	22.00-4.5	98	78	32.48	825	113.66	2887	230 B	6.88	TL
33.00R51	ET304	E4	★★	24.00-5.0	120	95	36.22	920	119.29	3030	235 B	8.45	TL
	ET355	E4	★★	24.00-5.0	115	91	36.73	933	119.09	3025	235 B	8.54	TL
	SUPER TRAC	E4	★★	24.00-5.0	116	92	36.30	922	120.04	3049	235 B	8.57	TL
	ETLB	E4	★★	24.00-5.0	98	78	35.31	897	120.43	3059	235 B	8.39	TL
36.00R51	ET355	E4	★★	26.00-5.0	108	86	38.90	988	127.28	3233	241 B	10.33	TL
57"													
37.00R57	ET304	E4	★★	27.00-6.0	125	99	41.34	1050	135.43	3440	246 B	12.43	TL
40.00R57	ET304	E4	★★	29.00-6.0	125	99	44.49	1130	140.16	3560	250 B	14.32	TL
	ET358	E4	★★	29.00-6.0	125	99	44.49	1130	140.16	3560	250 B	14.32	TL

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																											
	Max.Speed	kPa	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875		
	km/h mph	psi	40	44	47	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102	105	109	112	116	120	124	127		
49"																													
ET304 ET355 SUPER ROCK SUPER TRAC ETDT ET303+ ET405	E/M 10 5	★																									2★		
		kg											32500	33500	34500	35500	37500	38750	38750	40000	41250	42500	43750	45000	45000				
		lbs											71500	74000	76000	78500	82500	85500	85500	88000	91000	93500	96500	99000	99000				
	E/M 50 30	★																			2★								
		kg									19500	20000	20600	21800	22400	23000	23600	25000	25750	26500	27250								
		lbs									43000	44100	45400	48100	49400	50700	52000	55100	56800	58400	60000								
51"																													
ET355	E/M 10 5	★																									2★		
		kg													42500	45000	46250	47500	48750	50000	51500	53000	54500	54500	56000				
		lbs													93500	99000	102000	104500	107500	110000	113500	117000	120000	120000	123500				
	E/M 50 30	★																			2★								
		kg									25750	26500	28000	29000	30000	30750	31500	32500	33500										
		lbs									56800	58400	61500	64000	66000	68000	69500	71500	74000										
ET304 ET355 SUPER TRAC ETLB	E/M 10 5	★																									2★		
		kg											46250	48750	50000	51500	53000	54500	56000	58000	60000	60000	63000	63000	65000				
		lbs											102000	107500	110000	113500	117000	120000	123500	128000	132500	132500	139000	139000	143500				
	E/M 50 30	★																			2★								
		kg									27250	29000	30000	30750	32500	33500	34500	35500	36500	37500	38750								
		lbs									60000	64000	66000	68000	71500	74000	76000	78500	80500	82500	85500								
ET355	E/M 10 5	★																									2★		
		kg											56000	58000	60000	63000	65000	67000	69000	71000	73000	75000	75000	77500	80000				
		lbs											123500	128000	132500	139000	143500	147500	152000	156500	161000	165500	165500	171000	176500				
	E/M 50 30	★																			2★								
		kg									33500	35500	36500	37500	38750	40000	41250	42500	43750	45000	46250								
		lbs									74000	78500	80500	82500	85500	88000	91000	93500	96500	99000	102000								
57"																													
ET304	E/M 10 5	★																									2★		
		kg											60000	61500	63000	65000	67000	69000	71000	73000	75000	77500	80000	80000	82500				
		lbs											132500	135500	139000	143500	147500	152000	156500	161000	165500	171000	176500	176500	182000				
	E/M 50 30	★																			2★								
		kg									37500	38750	40000	41250	43750	45000	46250	47500	48750	50000	51500								
		lbs									82500	85500	88000	91000	96500	99000	102000	104500	107500	110000	113500								
ET304 ET358	E/M 10 5	★																									2★		
		kg											73000	75000	77500	80000	82500	85000	87500	90000	92500	95000	97500	100000	100000				
		lbs											161000	165500	171000	176500	182000	187500	193000	198500	204000	209400	215000	220500	220500				
	E/M 50 30	★																			2★								
		kg									42500	45000	46250	48750	50000	51500	53000	54500	56000	58000	60000								
		lbs									93500	99000	102000	107500	110000	113500	117000	120000	123500	128000	132500								

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
							Section Width		Overall Diameter				
					32nds	mm	in	mm	in	mm			
46/90R57	ET304	E4	★★	29.00-6.0 32.00-6.0	125	99	46.46	1180	140.16	3560	252 B	14.95	TL
	ET358	E4	★★	29.00-6.0 32.00-6.0	125	99	46.46	1180	140.16	3560	252 B	14.95	TL
	SUPER H	E4	★★	29.00-6.0 32.00-6.0	122	97	46.93	1192	139.84	3552	252 B	15.04	TL
50/80R57	ET304	E4	★★	32.00-6.0	120	95	49.84	1266	142.52	3620	257 B	16.59	TL
				34.00-5.0									
	ET359	E4	★★	32.00-6.0	120	95	48.03	1220	142.52	3620	257 B	15.99	TL
				34.00-5.0									

INDUSTRIAL SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
20"													
12.00R20	ETPORTM	IND 4	★★	8.5	50	40	12.76	324	44.72	1136	176 A5	0.42	TT
24"													
12.00R24	ETPORTM	IND 4	★★	8.5	50	40	12.40	315	49.09	1247	178 A5	0.49	TT/TL
14.00R24	ETPORTM+	IND 4	★★★	10.00W	79	62.5	15.35	390	54.92	1395	196 A5	0.76	TL

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressure																											
	Max.Speed	kPa	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900		
	km/h mph	psi	40	44	47	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102	105	109	112	116	120	124	127	130		
ET304 ET358 SUPER H	E/M 10 5	★																									2★			
		kg											75000	77500	80000	82500	85000	87500	90000	92500	95000	97500	100000	100000	103000					
		lbs											165500	171000	176500	182000	187500	193000	198500	204000	209400	215000	220500	220500	227000					
	E/M 50 30	★																			2★									
		kg											45000	47500	48750	51500	53000	54500	56000	58000	60000	61500	63000							
		lbs											99000	104500	107500	113500	117000	120000	123500	128000	132500	135500	139000							
	ET304 (RIM: 32.00-6.0) ET359	E/M 50 30	★															2★												
kg													54500	56000	58000	60000	63000	65000	67000											
lbs													120000	123500	128000	132500	139000	143300	139000											
ET304 (RIM: 34.00-6.0) ET359	E/M 50 30	★															2★													
		kg											58000	60000	63000	65000	67000	71000	73000											
		lbs											128000	132500	139000	143300	147710	156500	161000											

Pattern	Pressure		Tire Load Limits at Various Speeds							
	kPa		0 km/h	1 km/h	5 km/h	10 km/h	15 km/h	20 km/h	25 km/h	30 km/h
	psi		Static	Creep	3 mph	5 mph	10 mph	12 mph	15 mph	18 mph
20"										
ETPORTM	1000	kg	10650	10150	9350	9250	8700	8050	7100	
	145	lbs	23499	22396	20631	20410	19197	17762	15666	
24"										
ETPORTM	1000	kg	10800	9600	8700	8100	7800	7620	7500	—
	145	lbs	23830	21182	19197	17873	17211	16814	16549	—
ETPORTM +	1000	kg	18000	16000	14500	13500	13000	12700	12500	12400
	145	lbs	39717	35304	31994	29788	28685	28023	27581	27361



LOADER & DOZER SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
							in	mm	in	mm			
24"													
14.00R24	ETGRADER2	G2/L2	★★	8.00-1.4	31	25	14.25	362	53.07	1348	177 A2	0.66	TL
	ETSNOW	G2/L2	★	8.00TG	28	22	14.49	368	53.23	1352	175 A2	0.67	TL
25"													
15.5R25	ETSNOW	L2	★★	12.00-1.3	30	24	15.51	394	50.28	1277	176 A2	0.64	TL
	MATE E3L3	G3/L3	★★	12.00-1.3	33	26	15.16	385	50.00	1270	161 A8/176 A2	0.62	TL
17.5R25	SNOWKING	E2/L2	★★	14.00-1.5	35	28	17.52	445	53.07	1348	167 B/182 A2	0.81	TL
	ETDL5	L5	★★	14.00-1.5	83	65.5	17.52	445	55.08	1399	182 A2	0.87	TL
	MATE L3	G3/L3	★★	14.00-1.5	33	26.0	17.52	445	53.15	1350	162 A8/182 A2	0.81	TL
	MATE-S L3	E3/L3	★★	14.00-1.5	34	27	17.52	445	53.15	1350	167 B/182 A2	0.81	TL
	MATE SNOW E	E2/L2	★★	14.00-1.5	31	25	16.69	424	52.36	1330	167 B/182 A2	0.75	TL
	MATE SNOW	E2/L2	★★	14.00-1.5	35	28	17.52	445	53.07	1348	167 B/182 A2	0.81	TL
20.5R25	SNOWKING	E2/L2	★★	17.00-2.0	39	31	20.51	521	58.66	1490	177 B/193 A2	1.16	TL
	ETDL5S	L5	★★	17.00-2.0	86	68.5	20.51	521	60.94	1548	193 A2	1.25	TL
	ETDL5	L5	★★	17.00-2.0	96	76	20.51	521	60.94	1548	193 A2	1.25	TL
	ETD2S	L5	★★	17.00-2.0	88	70	20.51	521	60.94	1548	193 A2	1.25	TL
	MATE E3L3	E3/L3	★★	17.00-2.0	40	32	20.47	520	58.66	1490	177 B/193 A2	1.15	TL
	MATE SNOW	E2/L2	★★	17.00-2.0	39	31	20.51	521	58.66	1490	177 B/193 A2	1.16	TL
	MATE-S L3	E3/L3	★★	17.00-2.0	37	29	20.47	520	58.66	1490	177 B/193 A2	1.15	TL
	MATE SNOW E	E2/L2	★★	17.00-2.0	35	28	19.53	496	58.27	1480	177 B/193 A2	1.09	TL
23.5R25	MATE D2S	L5	★★	17.00-2.0	87	69	20.87	530	60.12	1527	193 A2	1.24	TL
	SNOWKING	E2/L2	★★	19.50-2.5	43	34	23.50	597	63.66	1617	185 B/201 A2	1.56	TL
	PROADT	E3/L3	★★	19.50-2.5	46	36.5	23.50	597	63.66	1617	185 B/201 A2	1.56	TL
	ETDL5	L5	★★	19.50-2.5	106	84.5	23.50	597	65.87	1673	201 A2	1.67	TL
	ETDL5S	L5	★★	19.50-2.5	94	75	23.50	597	65.87	1673	201 A2	1.67	TL
	ETD2S	L5	★★	19.50-2.5	94	75	23.50	597	65.87	1673	201 A2	1.67	TL
	MATE E3L3	E3/L3	★★	19.50-2.5	44	35	23.43	595	63.58	1615	185 B/201 A2	1.55	TL
	MATE SNOW	E2/L2	★★	19.50-2.5	43	34	23.50	597	63.66	1617	185 B/201 A2	1.56	TL
	MATE-S L3	E3/L3	★★	19.50-2.5	42	33	23.19	589	63.27	1607	185 B/201 A2	1.52	TL
600/65R25	MATE SNOW E	E2/L2	★★	19.50-2.5	39	31	22.60	574	62.99	1600	185 B/201 A2	1.47	TL
	MATE D2S	L5	★★	19.50-2.5	89	71	23.43	595	65.94	1675	201 A2	1.67	TL
600/65R25	ETADT	E3/L3	★★	19.50-2.5	43	34.5	23.86	606	55.71	1415	178 B/187 A2	1.21	TL
650/65R25	ETADT	E3/L3	★★	19.50-2.5	47	37	25.20	640	58.27	1480	180 B/193 A2	1.40	TL
750/65R25	ETADT	E3/L3	★★	24.00-3.0	54	43	29.06	738	62.95	1599	190 B/202 A2	1.89	TL

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																														
	Max.Speed km/h mph	kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 116	825 120							
24"																																
ETGRADER2 ETSNOW	Loader 10 5	★																						1★		2★						
		kg																						6700		6900	7300					
		lbs																						14784		15225	16107					
25"																																
ETSNOW MATE E3L3	Loader 10 5	★																2★														
		kg																6150		6300	6500	6700	6900	7100								
		lbs																13570		13901	14342	14784	15225	15666								
SNOWKING ETDL5 MATE L3 MATE-S L3 MATE SNOW MATE SNOW E	Loader 10 5	★																2★														
		kg																7300		7500	7750	8000	8250	8500								
		lbs																16107		16549	17100	17652	18204	18755								
SNOWKING ETDL5S ETDL5 ETD2S MATE E3L3 MATE SNOW MATE-S L3 MATE SNOW E MATE D2S	Loader 10 5	★											1★										2★									
		kg											8000		8250	8750	9000	9500	9750	10000	10300	10900	11200	11500								
		lbs											17652		18204	19307	19859	20962	21513	22065	22727	24051	24713	25375								
SNOWKING PROADT ETDL5 ETDL5S ETD2S MATE E3L3 MATE SNOW MATE-S L3 MATE SNOW E MATE D2S	Loader 10 5	★											1★										2★									
		kg											10300		10600	11200	11500	12150	12500	12850	13200	13600	14000	14500								
		lbs											22727		23389	24713	25375	26809	27581	28354	29126	30008	30891	31994								
ETADT	Loader 10 5	★											2★																			
		kg											8500		9000	9250	9750															
		lbs											18755		19859	20410	21513															
ETADT	Loader 10 5	★																2★														
		kg											10000		10600	10900	11500															
		lbs											22065		23389	24051	25375															
ETADT	Loader 10 5	★											2★																			
		kg											13200		13600	14500	15000															
		lbs											29126		30008	31994	33098															

Size	Pattern	TRA Code	Star Rating	Rim Width &Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
							Section Width		Overall Diameter				
					32nds	mm	in	mm	in	mm			
26.5R25	ETSNOW	E2/L2	★★	22.00-3.0	45	35.5	26.50	673	68.90	1750	209 A2	2.06	TL
	FORT ADT	E4/L4	★★	22.00-3.0	67	53.5	26.97	685	70.39	1788	193 B/209 A2	2.19	TL
	ETDL5	L5	★★	22.00-3.0	118	93.5	26.50	673	70.79	1798	209 A2	2.18	TL
	ETD2S	L5	★★	22.00-3.0	106	84.5	26.50	673	70.79	1798	209 A2	2.18	TL
	ETDL5S	L5	★★	22.00-3.0	106	84.5	26.50	673	70.79	1798	209 A2	2.18	TL
	MATE E3L3	E3/L3	★★	22.00-3.0	45	36	26.50	673	68.90	1750	193 B/209 A2	2.06	TL
	MATE D2S	L5	★★	22.00-3.0	101	80	26.57	675	70.87	1800	209 A2	2.19	TL
	MATE-S L3	E3/L3	★★	22.00-3.0	44	35	27.28	693	68.46	1739	193 B/209 A2	2.10	TL
29.5R25	PROADT	E3/L3	★★	22.00-3.0	53	42	26.69	678	68.50	1740	193 B/209 A2	2.05	TL
	ETSNOW	E2/L2	★★	25.00-3.5	53	42	29.49	749	73.74	1873	216 A2	2.63	TL
	PROADT	E3/L3	★★	25.00-3.5	54	43	29.49	749	73.74	1873	200 B/216 A2	2.63	TL
	SUPER ADT	E4/L4	★★	25.00-3.5	82	65	30.16	766	74.41	1890	200 B/209 A2	2.74	TL
	FORT ADT	E4/L4	★★	25.00-3.5	70	55.5	29.92	760	75.04	1906	200 B/209 A2	2.76	TL
	ETDL5	L5	★★	25.00-3.5	127	101	29.49	749	75.63	1921	216 A2	2.76	TL
	ETDL5S	L5	★★	25.00-3.5	117	92.5	29.49	749	75.63	1921	216 A2	2.76	TL
	ETD2S	L5	★★	25.00-3.5	116	92	29.49	749	75.63	1921	216 A2	2.76	TL
29"													
29.5R29	ET6A	E3/L3	★★	25.00-3.5	52	41.5	29.49	749	77.76	1975	218 A2	2.92	TL
	ETD2	L5	★★	25.00-3.5	116	92	30.24	768	79.02	2007	218 A2	3.09	TL
	ETDL5	L5	★★	25.00-3.5	127	101	29.49	749	79.65	2023	218 A2	3.07	TL
875/65R29	ETADT	E3/L3	★★	28.00-3.5	64	51	34.76	883	74.06	1881	203 B/214 A2	3.12	TL
33"													
35/65R33	ETDL5	L5	★★★★	28.00-3.5	120	95	34.65	880	81.69	2075	225 A8/229 A2	3.79	TL
	ETNT	E4/L4	★★★★	28.00-3.5	76	60.5	34.80	884	80.47	2044	229 A2	3.69	TL

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																										
	Max.Speed km/h mph	kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 116	825 120			
ETSNOW FORT ADT ETDL5 ETD2S ETDL5S MATE E3L3 MATE D2S MATE-S L3 PROADT	Loader 10 5	★											1★											2★				
		kg							12850	13200	14000	14500	15000	15500	16000	16500	17000	18000	18500									
		lbs							28354	29126	30891	31994	33098	34201	35304	36407	37511	39717	40820									
ETSNOW PROADT SUPER ADT FORT ADT ETDL5 ETDL5S ETD2S MATE D2S ETD2	Loader 10 5	★											1★											2★				
		kg							15500	16000	16500	17000	18000	19000	19500	20000	20600	21200	22400									
		lbs							34201	35304	36407	37511	39717	41924	43027	44130	45454	46778	49426									
29"																												
ET6A ETD2 ETDL5	Loader 10 5	★											1★											2★				
		kg							16500	17000	18000	18500	19500	20000	20600	21200	22400	23000	23600									
		lbs							36407	37511	39717	40820	43027	44130	45454	46778	49426	50750	52073									
ETADT	Loader 10 5	★											2★															
		kg							18500	19500	20600	21200																
		lbs							40820	43027	45454	46778																
33"																												
ETDL5 ETNT	Loader 10 5	★											1★											2★				
		kg							19500	20600	21200	22400	23000	23600	25000	25750	26500	27250	28000	28550	30000	30550	31500	32000	32500			
		lbs							43027	45454	46778	49426	50750	52073	55163	56817	58472	60127	61782	62996	66195	67409	69505	70608	71711			

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																													
	Max.dist./hour km/h mph	kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 116	825 120	850 138					
20"																															
ETSM	Loader 10 5	★																										2★			
		kg																			4940					5890		6890			
		lbs																			10893					12987		15192			
ETSM	Loader 10 5	★																										2★			
		kg													4375	4500	4625	4875	5000	5150	5300	5450	5600	5800	6000	6150					
		lbs													9653	9929	10205	10757	11033	11363	11694	12025	12356	12798	13239	13570					
24"																															
PROLHD	Loader 10 5	★																										2★			
		kg													4875	5150	5300	5450	5600	5800	6000	6150	6300	6500	6700	6900					
		lbs													10757	11363	11694	12025	12356	12798	13239	13570	13901	14342	14784	15225					
ETST	Underground truck 20 12	★																										3★			
		kg													4625	4750	5000	5150	5300	5450	5600	5800	6050	6400	6750	7100					
		lbs													10205	10481	11033	11363	11694	12025	12356	12798	13349	14122	14894	15666					
PROLHD	Loader 10 5	★																										2★			
		kg											6450	6700	6950	7200	7450	7700	7950	8200	8450	8700	8950	9200	9500						
		lbs											14232	14784	15335	15887	16438	16990	17542	18093	18645	19197	19748	20300	20962						
25"																															
ETUM	Underground truck 20 12	★																										2★			
		kg																8000	8250	8500	8750	9000	9250	9500							
		lbs																17652	18204	18755	19307	19859	20410	20962							
	Loader 10 5	★																										2★			
		kg													9250	9750	10000	10300	10600	10900	11200	11500	11800	12150							
lbs														20410	21513	22065	22727	23389	24051	24713	25375	26037	26809								
ETDL5 ETSM PROLHD	Loader 10 5	★																2★													
		kg											7300	7500	7750	8000	8250	8500													
		lbs											16107	16549	17100	17652	18204	18755													
PROLHD ETSM	Loader 10 5	★											1★														2★				
		kg											11200	11800	12150	12500	12850	13200	13600	14000	14500	15000	15500	16000							
		lbs											24713	26037	26809	27581	28354	29126	30008	30891	31994	33098	34201	35304							
ETST	Underground truck 20 12	★																										2★			
		kg																11020	11400	11770	12150	12500	12890	13270	13600						
		lbs																24316	25154	25971	26809	27581	28442	29280	30008						

Size	Pattern	TRA Code	Star Rating	Rim Width &Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
26.5R25	ETDL5	L5	★★	22.00-3.0	118	93.5	26.50	673	70.79	1798	209 A2	2.18	TL
	ETSM	L5S	★★	22.00-3.0	111	88.5	27.32	694	71.10	1806	209 A2	2.26	TL
	PROLHD	L5S	★★	22.00-3.0	122	97	27.17	690	71.06	1805	209 A2	2.25	TL
	ETNT	E4	★★	22.00-3.0	69	55	26.50	673	68.90	1750	193 B	2.06	TL
	ETD2S	L5	★★	22.00-3.0	106	84.5	26.50	673	70.79	1798	209 A2	2.18	TL
29.5R25	ETDL5	L5	★★	25.00-3.5	127	101	29.49	749	75.63	1921	216 A2	2.76	TL
	ETSM	L5S	★★	25.00-3.5	124	98.5	29.49	749	75.63	1921	216 A2	2.76	TL
	ETNT	E4	★★	25.00-3.5	69	55	29.49	749	75.63	1921	200 B	2.76	TL
	ETD2	L5	★★	25.00-3.5	115	92	29.49	749	75.63	1921	216 A2	2.76	TL
29"													
29.5R29	ETDL5	L5	★★	25.00-3.5	127	101	29.49	749	79.65	2023	218 A2	3.07	TL
	ETSM	L5S	★★	25.00-3.5	124	98.5	29.49	749	79.13	2010	218 A2	3.03	TL
	PROLHD	L5S	★★	25.00-3.5	132	105	29.61	752	79.13	2010	218 A2	3.04	TL
	ETNT	E4	★★	25.00-3.5	73	58	29.49	749	79.65	2023	202 B	3.07	TL
	ETD2	L5	★★	25.00-3.5	115	92	30.24	768	79.02	2007	218 A2	3.09	TL
33"													
35/65R33	ETNT	E4/L4	★★★★	28.00-3.5	76	60.5	34.80	884	80.47	2044	225 A8/229 A2	3.69	TL
35/65R33	ETDL5	L5	★★★★	28.00-3.5	120	95	34.65	880	81.69	2075	225 A8/229 A2	3.79	TL
	ETSM	L5S	★★	28.00-3.5	121	96	34.76	883	80.94	2056	224 A2	3.73	TL

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																												
	Max.dist./hour km	kPa	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825					
	km/h mph	psi	40	44	47	51	54	58	62	65	69	73	76	80	83	87	91	94	98	102	105	109	112	116	120					
ETDL5 ETSM PROLHD	Loader 10 5	★											1★						2★											
		kg											15000	15500	16000	16500	17000	18000	18500											
		lbs											33098	34201	35304	36407	37511	39717	40820											
ETNT ETD2S	Underground truck 20 12	★																	2★											
		kg											9500	9750	10300	10600	11200	11500												
		lbs											20962	21513	22727	23389	24713	25375												
ETDL5 ETSM	Loader 10 5	★											1★						2★											
		kg											18000	19000	19500	20000	20600	21200	22400											
		lbs											39717	41924	43027	44130	45454	46778	49426											
ETNT ETD2	Underground truck 50 30	★											2★																	
		kg											13600	14000																
		lbs											30008	30891																
29"																														
ETSM PROLHD ETDL5	Loader 10 5	★											1★						2★											
		kg											19500	20000	20600	21200	22400	23000	23600											
		lbs											43027	44130	45454	46778	49426	50750	52073											
ETNT ETD2	Underground truck 50 30	★											2★																	
		kg											14500	15000																
		lbs											31994	33098																
33"																														
ETNT	Loader 10 5	Techking-Use (kg-lbs) Loader load per tire <=28t																												
		★																	2★											
		kg											23000	23600	25000	25750	26500	27250	28000											
		lbs											50750	52073	55163	56817	58472	60127	61782											
		Techking-Use (kg-lbs) Loader load per tire >28t																												
		★																					3★							
	Underground truck 40 25	kg																	28550	30000	30550	31500	32000	32500						
		lbs																	62996	66195	67409	69505	70608	71711						
		Techking-Use (kg-lbs) Underground truck																												
		★																	2★								4★			
		kg											20000	20500	21200	21700	23000	23500	24300	24750	25750	26200	27250	27700	29000					
		lbs											44100	45233	46746	47881	50715	51853	53582	54611	56779	57810	60086	61120	63945					
ETDL5 ETSM	Loader 10 5	★											2★																	
		kg											23000	23600	25000	25750	26500	27250	28000											
		lbs											50700	52000	55100	56800	58400	60000	61500											

GRADER SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension			Load Index/Speed Symbol	Volume m³	TT/TL	
					32nds	mm	Section Width in	mm	Overall Diameter in				mm
24"													
13.00R24	ETGRADER	G2	★	8.00-1.4	31	25	13.11	333	50.31	1278	146 A8	0.54	TL
14.00R24	ETGRADER2	G2/L2	★★	8.00-1.4	31	25	13.94	354	52.99	1346	155 A8	0.64	TL
	ETSNOW	G2/L2	★	8.00TG	28	22	14.49	368	53.23	1352	153 A8	0.67	TL
	MATE G2	G2	★★	8.00-1.4	31	25	14.25	362	53.07	1348	155 A8	0.66	TL
16.00R24	ETGRADER	G2	★★	10.00-1.7	33	26	16.81	427	57.44	1459	163 A8	0.91	TL
25"													
17.5R25	SNOWKING	E2/L2	★★	14.00-1.5	35	28	17.52	445	53.07	1348	167 B/182 A2	0.81	TL
	MATE L3	G3/L3	★★	14.00-1.5	33	26.0	17.52	445	53.15	1350	162 A8/182 A2	0.81	TL
20.5R25	SNOWKING	E2/L2	★★	17.00-2.0	39	31	20.51	521	58.66	1490	177 B/193 A2	1.16	TL
	ETDL5	L5	★★	17.00-2.0	96	76	20.51	521	60.94	1548	193 A2	1.25	TL
23.5R25	ETD2S	L5	★★	19.50-2.5	94	75	23.50	597	65.87	1673	193 A2	1.67	TL
	SNOWKING	E2/L2	★★	19.50-2.5	43	34	23.50	597	63.66	1617	185 B/201 A2	1.56	TL
26.5R25	ETSNOW	E2/L2	★★	22.00-3.0	45	35.5	26.50	673	68.90	1750	209 A2	2.06	TL
	ETD2S	L5	★★	22.00-3.0	106	85	26.50	673	70.79	1798	209 A2	2.18	TL
29.5R25	ETSNOW	E2/L2	★★	25.00-3.5	53	42	29.49	749	73.74	1873	200 B/216 A2	2.63	TL
	ETD2	L5	★★	25.00-3.5	116	92	29.49	749	75.63	1921	216 A2	2.76	TL
29"													
29.5R29	ETD2	L5	★★	25.00-3.5	116	92	29.49	749	79.65	2023	218A2	3.07	TL

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressure																									
	Max.Speed km/h mph	kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 116	825 120			
24"																												
ETGRADER	Grader 40 25	★									1★																	
		kg					2360	2500	2650	2800	3000																	
		lbs					5207	5516	5847	6178	6620																	
ETGRADER2 ETSNOW MATE G2	Grader 40 25	★						1★		2★																		
		kg		2800	3000	3250	3350	3650	3750	3875																		
		lbs		6178	6620	7171	7392	8054	8274	8550																		
ETGRADER	Grader 40 25	★									2★																	
		kg		3550	3750	4000	4125	4375	4625	4875																		
		lbs		7833	8274	8826	9102	9653	10205	10757																		
25"																												
SNOWKING MATE L3	Grader 40 25	★									2★																	
		kg	3350	3550	3750	4000	4125	4375	4625	4750																		
		lbs	7392	7833	8274	8826	9102	9653	10205	10481																		
SNOWKING ETDL5	Grader 40 25	★									2★																	
		kg	4375	4750	5000	5300	5600	5800	6150	6500																		
		lbs	9653	10481	11033	11694	12356	12798	13570	14342																		
ETD2S SNOWKING	Grader 40 25	★									2★																	
		kg	5600	6000	6500	6700	7100	7500	7750	8250																		
		lbs	12356	13239	14342	14784	15666	16549	17100	18204																		
ETSNOW ETD2S	Grader 40 25	★									2★																	
		kg	7100	7500	8000	8500	9000	9500	9750	10300																		
		lbs	15666	16549	17652	18755	19859	20962	21513	22727																		
ETSNOW ETD2S	Grader 40 25	★									2★																	
		kg	8500	9250	9750	10300	10900	11500	11800	12500																		
		lbs	18755	20410	21513	22727	24051	25375	26037	27581																		
29"																												
ETD2	Grader 40 25	★									2★																	
		kg	9250	9750	10300	10900	11500	12150	12500	13200																		
		lbs	20410	21513	22727	24051	25375	26809	27581	29126																		



MINING TRUCK SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol Single/Dual	Volume m³	TT/TL
					32nds	mm	Section Width		Overall Diameter				
24"													
12.00R24	ETOT	-	20	8.5	40	32	12.40	315	49.09	1247	160 B/156 B	0.49	TT
	ETOT	-	24	8.5	40	32	12.40	315	49.09	1247	164 B/161 B	0.49	TT
	ETOT II	-	★★★	8.5	40	32	12.40	315	49.09	1247	164 B/161 B	0.49	TT
25"													
14.00R25	ET618	E3	★★★	10.00-2.0	33	26	14.41	366	53.03	1347	169 B/184 A6	0.66	TT/TL
	ETOH	E3	★★★	10.00-2.0	34	27	15.00	381	53.78	1366	169 B/184 A6	0.71	TT/TL
	ET919	E3	★★★	10.00-2.0	31	25	15.00	381	53.70	1364	169 B/184 A6	0.71	TT/TL
	ETRT9	E4	★★★	10.00-2.0	47	37.5	14.96	380	54.21	1377	169 B/184 A6	0.72	TT/TL
	ET609	E3	★★★	10.00-2.0	33	26	14.17	360	58.54	1360	169 B/184 A6	0.67	TT/TL
16.00R25	ET919	E3	★★★	11.25-2.0	31	25	17.24	438	58.39	1483	180 B/193 A6	0.96	TT/TL
	ET668	E3	★★★	11.25-2.0	34	27	17.40	442	58.50	1486	180 B/193 A6	0.98	TT/TL
	SUPER ETOT	E3	★★★	11.25-2.0	40	32	18.19	462	59.49	1511	180 B/193 A6	1.05	TT/TL
	ETRTV	E4	★★★	11.25-2.0	53	42	18.19	462	60.04	1525	180 B/193 A6	1.07	TT/TL
	ET688	E3	★★★	11.25-2.0	40	32	17.83	453	58.98	1498	180 B/193 A6	1.02	TT/TL
	ET919+	E3	★★★	11.25-2.0	31	25	17.24	438	58.39	1483	180 B/193 A6	0.96	TT/TL
	ETTN	E3	★★★	11.25-2.0	39	31	17.40	442	58.50	1486	180 B/193 A6	0.98	TT/TL

Pattern	Application		Tire Load Limits at Various Cold Inflation Pressure																																
	Max.Speed km/h mph	kPa psi	275 40	300 44	325 47	350 51	375 54	400 58	425 62	450 65	475 69	500 73	525 76	550 80	575 83	600 87	625 91	650 94	675 98	700 102	725 105	750 109	775 112	800 116	825 120	850 124	875 127	900 130	925 134	950 138	975 141	1000 145			
24"																																			
ETOT	E/M 50 30	PR																									20PR								
		kg																									4500								
		lbs																									9929								
ETOT ETOT II	E/M 50 30	★/PR																									3★/24PR								
		kg																									5000								
		lbs																									11033								
25"																																			
ET618	E/M 50 30	★																					3★												
		kg																					5800												
		lbs																					12798												
ETOH	E/M 50 30	★																					3★												
		kg																					5800												
		lbs																					12798												
ET919	E/M 50 30	★																					3★												
		kg																					5800												
		lbs																					12798												
ETRT9	E/M 50 30	★																					3★												
		kg																					5800												
		lbs																					12798												
ET609	E/M 50 30	★																					3★												
		kg																					5800												
		lbs																					12798												
ET919	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
ET668	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
SUPER ETOT	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
ETRTV	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
ET688	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
ET919+	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												
ETTN	E/M 50 30	★																					3★												
		kg																					8000												
		lbs																					17652												

Pattern	Application	Tire Load Limits at Various Cold Inflation Pressure																																										
	Max.Speed km/h mph	kPa psi	275	300	325	350	375	400	425	450	475	500	525	550	575	600	625	650	675	700	725	750	775	800	825	850	875	900	925	950	975	1000												
ET688	E/M 50 30	★											0	0	0	0	0	0	0	0	0	0	0	0	3★																			
		kg											0	0	0	0	0	0	0	0	0	0	0	0																				
		lbs											0	0	0	0	0	0	0	0	0	0	0	0																				
ET919+	E/M 50 30	★											0	0	0	0	0	0	0	0	0	0	0	0	3★																			
		kg											0	0	0	0	0	0	0	0	0	0	0	0																				
		lbs											0	0	0	0	0	0	0	0	0	0	0	0																				
ET668	E/M 50 30	★											0	0	0	0	0	0	0	0	0	0	0	0	3★																			
		kg											0	0	0	0	0	0	0	0	0	0	0	0																				
		lbs											0	0	0	0	0	0	0	0	0	0	0	0																				
ETOH	E/M 50 30	★											0	0	0	0	0	0	0	0	0	0	0	0	3★																			
		kg											0	0	0	0	0	0	0	0	0	0	0	0																				
		lbs											0	0	0	0	0	0	0	0	0	0	0	0																				
ETRT	E/M 50 30	★									6700 7100 7300 7500 7750 8000 8250 8500 8750 9000 9250				3★																													
		kg													14784 15666 16107 16549 17100 17652 18204 18755 19307 19859 20410																													
		lbs																																										
29"																																												
ETOH	E/M 50 30	★																					3★																					
		kg																					0											0	0	0	0	0	0	0	0	0	0	0
		lbs																					0											0	0	0	0	0	0	0	0	0	0	0
ETOH	E/M 50 30	★																					3★																					
		kg																					0											0	0	0	0	0	0	0	0	0	0	0
		lbs																					0											0	0	0	0	0	0	0	0	0	0	0
33"																																												
ETDT2	E/M 50 30	★									7750 8000 8500 8750 9000 9250 9750 10000 10300 10600 10900								3★																									
		kg																	17100 17652 18755 19307 19859 20410 21513 22065 22727 23389 24051																									
		lbs																																										
ETDT	E/M 50 30	★									7750 8000 8500 8750 9000 9250 9750 10000 10300 10600 10900								3★																									
		kg																	17100 17652 18755 19307 19859 20410 21513 22065 22727 23389 24051																									
		lbs																																										

HIGHWAY SERVICE

Size	Pattern	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
							Section Width		Overall Diameter				
					32nds	mm	in	mm	in	mm			
385/95R24 (14.00R24)	ETCRANE	E2	★★★	10.00W	22 28	384 15.12	1358 53.46	384	53.46	1358	170 F	0.71	TT
385/95R25 (14.00R25)	ETCRANE	E2	★★★	10.00-1.5	28	22	15.12	384	53.46	1358	170F	0.71	TL
	ETCRANE2	E2	★★★	10.00-1.5	28	22	15.12	384	53.46	1358	170F	0.71	TL
	ETCRANE	E2	★★★	10.00-1.5	28	22	15.12	384	53.46	1358	170G	0.71	TL
	CRANE80	E2	★★★	10.00-1.5	25	20	15.04	382	53.35	1355	170G	0.70	TL
445/95R25 (16.00R25)	ETCRANE	E2	★★★	11.25-2.0	31	25	17.64	448	58.11	1476	174F	0.98	TL
505/95R25 (18.00R25)	ETGC	E2	★★★	13.00-2.5	34	27	19.88	505	63.39	1610	186E	1.31	TL
445/80R25 (17.5R25)	ETCRANE	E2	★★★	14.00-1.5	31	25	17.91	455	52.64	1337	170F	0.81	TL
525/80R25 (20.5R25)	ETGC	E2	★★★	17.00-2.0	38	30	20.51	521	58.66	1490	177F	1.16	TL
	ETCRANE L	E2	★★★	17.00-2.0	35	28	20.94	532	58.43	1484	177F	1.17	TL

Pattern	Recommended Inflation Pressure		Tire Load Limits at Various Speeds											
	kPa	psi	km/h mph	0 Static	5	10	20	30	40	50	60	70	80	90
ETCRANE	900	131	kg lbs	17700 39021	12700 27998	11000 24250	9000 19841	7500 16534	6900 15211	6720 14815	6600 14550	6300 13889	6000 13227	/
ETCRANE ETCRANE2 (170F)	1000	145	kg lbs	17700 39021	12700 27998	11000 24250	9000 19841	7500 16534	6900 15211	6720 14815	6600 14550	6300 13889	6000 13227	/
ETCRANE CRAN80 (170G)	1000	145	kg lbs	17700 39021	12700 27998	11000 24250	9000 19841	7500 16534	6900 15211	6720 14815	6600 14550	6420 14153	6240 13756	6000 13227
ETCRANE	900	131	kg lbs	21500 47399	15500 34171	13500 29762	10050 22156	8400 18518	7700 16975	7500 16534	7350 16203	7050 15542	6700 14770	/
ETGC	900	131	kg lbs	28000 61729	20000 44092	18500 40785	13900 30644	12400 27337	11800 26014	11200 24691	10600 23369	9500 20943	/	/
ETCRANE	700	102	kg lbs	17700 39021	12700 27998	11000 24250	9000 19841	7500 16534	6900 15211	6720 14815	6600 14550	6300 13889	6000 13227	/
ETGC ETCRANE L	700	102	kg lbs	21500 47399	15500 34171	13500 29762	10950 24140	9100 20062	8400 18518	8200 18077	8100 17857	7700 16975	7300 16093	/

SPECIAL SERVICE

Size	TRA Code	Star Rating	Rim Width & Flange	Tread Depth		Tire Inflated Dimension				Load Index	Speed Symbol	TT/TL
						Section Width		Overall Diameter				
				32nds	mm	in	mm	in	mm			
ETSA™												
14.00R20	/	18	10.00	22	17.5	14.76	375	48.82	1240	161/158	J	TT
	/	20	10.00	24	19	15.75	400	48.82	1240	164/161	J	TT
DK22™												
24R20.5	E7	16	18	26	21	23.62	600	53.94	1370	176	F	TL
DK20™												
24R20.5	E7	16	18	24	19	23.62	600	53.94	1370	176	F	TL
ETMT™												
14.00R20	—	20	10.00	25	19.5	14.76	375	48.82	1240	164/161	J	TT
24R21	E7	16	18	29	23	23.23	590	54.7	1390	176	G	TL

LOGGING TRUCK

Size	Pattern	TRA Code	Star Rating	Rim Width &Flange	Tread Depth		Tire Inflated Dimension				Load Index/ Speed Symbol	Volume m³	TT/TL
							Section Width		Overall Diameter				
					32nds	mm	in	mm	in	mm			
25"													
385/95R25	SNOWKING L	E2	★★★	10.00-1.5	29	23	15.16	385	53.74	1365	170 E	0.71	TT

TKPH/TMPH DEFINITIONS

1. TIRE TKPH OR TIRE TMPH

A tire's TKPH (TMPH) depends on its design and varies according to size and type. TKPH is a function of load and the number of kilometers (miles) covered per hour at an ambient temperature of 38 °C or 100 °F. The formula to convert a TKPH rating to a TMPH rating is: TMPH=TKPH X 0.685
TMPH calculation is based on the "short ton" which corresponds to 2000 lbs or 907 kg

2.BASIC SITE TKPH OR TMPH

This value reflects the specific requirements of a site and can be obtained by using the following formula:
Basic site TKPH (basic site TMPH) = Qm × Vm where Qm = average load per tire
Vm = average cycle speed, in km (or miles) per hour

a) Average load per tire (Qm)
Average load per tire (Qm): **Qm = (Qc + Qv) / 2**
where Qc = the load per tire in ton (TKPH), or in short ton (TMPH), on a laden vehicle.
Qv = the load per tire in ton (TKPH), or in short ton (TMPH), on an unladen vehicle.
The Qm calculation should theoretically be made for each tire. However, in practice, specific tire loads are not normally available and therefore this leads to the assumption that each tire on the same axle carries an equal load. When calculating the average load per tire on the front and the rear axles, the greatest value of Qm shall be used in TKPH (TMPH) calculation.
In most cases, on two-axle dump trucks, the distribution of the total load of the loaded vehicle (unladen weight + payload) corresponds to 33.3% on the front axle (single tires) and 66.7% on the rear axle (twinned tires).
When unladen, the front axle is almost always the heaviest.
Thus, the maximum Qm, will nearly always be on the front axle.
Caution: ensure that load distribution Front/Rear is even.
Of course, the analysis of the site (or at least, the collected information), weighings and machine characteristics, will provide the information to define and check the load per tire.
b) The number of km (or number of miles) covered on the reference cycle:
This is obtained by using the relationship: Vm = L / H
where L = the cycle length in kilometers (TKPH), or in miles (TMPH).
The reference cycle must be the one with the highest average speed.
H = the duration of cycle in hour.

3.REAL SITE TKPH OR REAL SITE TMPH

The Qm × Vm formula is used to calculate the basic site TKPH (or TMPH).

To obtain the real site TKPH (or TMPH), two more factors must be taken into account:
- the length of cycles exceeding 5 kilometers (or 3 miles)
- the ambient temperature.

a) Cycle length – K1 coefficient
For cycle lengths exceeding 5 kilometers (or 3 miles) apply to the basic site TKPH (or basic site TMPH) the K1 coefficient, the values of which are given on page 110.
b) Site ambient temperature (TA) – K2 coefficient
The standard ambient temperature is 38 °C (100°F). For a given speed, a site temperature higher than 38 °C increases the real site TKPH (or TMPH). Conversely, a temperature lower than 38 °C decreases the real site TKPH (or TMPH).
The K2 coefficient to apply to the basic site TKPH (basic site TMPH) comes from:
K2 = {Vm + [0.25* × (TA – TR)]} / Vm where Vm is the reference cycle average speed
TA is the ambient temperature
TR is the reference temperature (38 °C or 100°F)
(*: use 0.086 instead of 0.25 when calculating basic site TMPH)

The ambient temperature of the site (TA) to be taken into account is "the maximum temperature in the shade" during the hottest period.
For temperature TA greater than 15 °C (59°F), use the K2 coefficient shown on page 32.
For temperature TA lower than 15 °C (59°F), use the K2 coefficient shown in the shaded area of the table on page 32.
To sum up, for the real site TKPH (TMPH) calculation, proceed as follows:
- calculate the basic site TKPH (TMPH).
- calculate the correct for cycle length exceeding 5 kilometers (3 miles) by applying the K1 coefficient.
- calculate the correct for ambient temperatures not equal to 38 °C (100 °F) by applying the K2 coefficient.
Real site TKPH (or TMPH) = Basic site TKPH (or basic site TMPH) × K1 × K2.



MAIN FACTORS TO BE CONSIDERED WHEN CALCULATE THE TKPH(TMPH)

K1 Coefficients														
L(km)	L(mi)	K1	L(km)	L(mi)	K1	L(km)	L(mi)	K1	L(km)	L(mi)	K1	L(km)	L(mi)	K1
			11	6.8	1.13	21	13	1.19	31	19.3	1.21	41	25.5	1.23
			12	7.4	1.14	22	13.7	1.19	32	19.9	1.21	42	26.1	1.23
			13	8.0	1.15	23	14.3	1.20	33	20.5	1.22	43	26.7	1.23
			14	8.7	1.16	24	14.9	1.20	34	21.1	1.22	44	27.3	1.23
5	3.1	1.00	15	9.3	1.16	25	15.5	1.20	35	21.7	1.22	45	28	1.23
6	3.7	1.04	16	9.9	1.17	26	16.2	1.20	36	22.4	1.22	46	28.6	1.23
7	4.3	1.06	17	10.6	1.17	27	16.8	1.21	37	23.0	1.22	47	29.2	1.23
8	5	1.09	18	11.2	1.18	28	17.4	1.21	38	23.6	1.22	48	29.8	1.23
9	5.6	1.10	19	11.8	1.18	29	18.0	1.21	39	24.2	1.22	49	30.4	1.23
10	6.2	1.12	20	12.4	1.19	30	18.6	1.21	40	25.0	1.22	50	31.0	1.23
L= Cycle length in kilometers and in miles.														

K2 Coefficients														
Vm Km (miles)	Ambient Temperature													
	<15°C	15°C	17.5°C	20°C	22.5°C	25°C	27.5°C	30°C	32.5°C	35°C	37.5°C	40°C	42.5°C	45°C
	<59°F	59°F	63.5 °F	68 °F	72.5 °F	77°F	81.5 °F	86 °F	90.5 °F	95 °F	99.5 °F	104 °F	108.5 °F	113 °F
10 (6)	0.400	0.425	0.488	0.550	0.613	0.675	0.738	0.800	0.863	0.925	0.988	1.050	1.113	1.175
12 (7)	0.500	0.521	0.573	0.625	0.677	0.729	0.781	0.833	0.885	0.938	0.990	1.042	1.094	1.148
14 (9)	0.571	0.589	0.634	0.679	0.723	0.766	0.813	0.857	0.902	0.946	0.991	1.036	1.080	1.125
16 (10)	0.625	0.641	0.680	0.719	0.758	0.797	0.836	0.875	0.914	0.953	0.992	1.031	1.070	1.109
18 (11)	0.666	0.681	0.715	0.750	0.785	0.819	0.854	0.889	0.924	0.958	0.993	1.028	1.063	1.097
20 (12.5)	0.700	0.713	0.744	0.775	0.806	0.838	0.869	0.900	0.931	0.963	0.994	1.025	1.056	1.088
22 (14)	0.727	0.739	0.767	0.795	0.824	0.852	0.881	0.909	0.938	0.966	0.994	1.023	1.051	1.080
24 (15)	0.750	0.760	0.786	0.813	0.839	0.865	0.891	0.917	0.943	0.969	0.995	1.021	1.047	1.073
26 (16)	0.769	0.779	0.803	0.827	0.851	0.875	0.899	0.923	0.947	0.971	0.995	1.019	1.043	1.067
28 (17)	0.785	0.795	0.817	0.839	0.862	0.884	0.906	0.929	0.951	0.973	0.996	1.018	1.040	1.063
30 (19)	0.800	0.808	0.829	0.850	0.871	0.892	0.913	0.933	0.954	0.975	0.996	1.017	1.038	1.058
32 (20)	0.812	0.820	0.840	0.859	0.879	0.898	0.918	0.938	0.957	0.977	0.996	1.016	1.035	1.055
34 (21)	0.823	0.831	0.849	0.868	0.886	0.904	0.923	0.941	0.960	0.978	0.996	1.015	1.033	1.051
36 (22)	0.833	0.840	0.858	0.875	0.892	0.910	0.927	0.944	0.962	0.979	0.997	1.014	1.031	1.049
38 (24)	0.842	0.849	0.865	0.882	0.898	0.914	0.931	0.947	0.964	0.980	0.997	1.013	1.030	1.046
40 (25)	0.850	0.856	0.872	0.888	0.903	0.919	0.934	0.950	0.966	0.981	0.997	1.013	1.028	1.044
42 (26)	0.857	0.863	0.878	0.893	0.908	0.923	0.938	0.952	0.967	0.982	0.997	1.012	1.027	1.042
44 (27)	0.864	0.869	0.884	0.898	0.912	0.926	0.940	0.955	0.969	0.983	0.997	1.011	1.026	1.040
46 (28)	0.869	0.875	0.889	0.902	0.916	0.929	0.943	0.957	0.970	0.984	0.997	1.011	1.024	1.038
48 (29)	0.875	0.880	0.893	0.906	0.919	0.932	0.945	0.958	0.971	0.984	0.997	1.010	1.023	1.036
50 (31)	0.880	0.885	0.898	0.910	0.923	0.935	0.948	0.960	0.973	0.985	0.998	1.010	1.023	1.035
Vm = number of km (miles) covered per hour.														

TKPH (TON-KM-PER-HOUR) RATING TABLE AT 38°C AMBIENT TEMPERATURE

Tires for Earthmover Service (Max. speed limited to 50 km/h)

Size	Pattern	TRA Code	Compound	Max dis/hr (km)	TKPH	Size	Pattern	TRA Code	Compound	Max dis/hr (km)	TKPH	Size	Pattern	TRA Code	Compound	Max dis/hr (km)	TKPH	
14.00R24	ETRT	E4	CS	/	120	21.00R35	ETDT2	E4	CS	24	284	23.5R25	PROADT	E3	CS	28	256	
	ETOT	E3	CS	/	130				C1	22	195							
14.00R25	ETRT	E4	CS	/	120		ETDT	E4	C1	18	213		ETADT	E4	CS	22	195	
	H2	/	130	CS	23				264									
	ET919	E3	CS	/	210	ETDT2	E4	CS	22	326	26.5R25	ETADT	E4	CS	22	252		
	ETOH	E3	CS	/	190			H2	25	370				PROADT	E3	C1	16	215
	ET618	E3	C1	/	175	ETDT	E4	CS	19	281		CS	28			295		
	ET609	E3	C1	/	180			H2	22	326		ETNT	E4	C1	14	165		
	ETRT9	E4	C1	/	120	SUPER TRAC	E4	C1	17	246	29.5R25	PROADT	E3	CS	28	315		
	ETSD	E3	CS	/	128			CS	20	289		ETNT	E4	C1	14	220		
16.00R25	ETSD	E3	H2	/	153	SUPER RDT	E4	H2	23	336		ETADT	E4	C1	20	253		
			ETUM	E4	CS			/	92	C1				15	222	CS	24	312
	ET919	E3	CS	/	210	SUPER RDT	E4	CS	17	252	SUPER ADT	E4	C1	16	190			
			C1	/	185			H2	20	292			CS	20	266			
	ET668	E3	CS	/	180	FORT RDT	E4	C1	16	237	29.5R29	ETADT	E4	CS	14	232		
			C1	/	160			CS	18	266				H2	22	306		
	SUPER ETOT	E3	C1	/	140	385/95R25 (14.00R25)	ETCRANE	E2	H1	/	220	33.25R29	SUPER ADT	E4	C2	/	230	
	ETRTV	E3	C1	/	140		ETCRANE2	E2	H1	/	210				CS	/	285	
	ET688	E3	CS	/	175	385/95R24 (14.00R24)	ETCRANE	E2	H1	/	220	36/65R33	ETNT	E4	C1	14	240	
			C1	/	155	445/95R25 (16.00R25)	ETCRANE	E2	H1	/	280							
	ET919+	E3	CS	/	205	505/95R25 (18.00R25)	ETGC	E2	H1	/	346							
			C1	/	180	445/80R25 (17.5R25)					280							
				H2	29	253	525/80R25 (20.5R25)					306						
	21.00R33	ETUL+	E4	C1	23	200												
				CS	31	266												
				C1	18	157												
CS				22	192													
			CS	19	216													
			H2	24	268													

Size	Pattern	TRA Code	Compound	Max dis/hr (km)	TKPH
27.00R49	ET304	E4	C1	21	465
			R1	23	500
			H2	25	535
	ET355	E4	C1	16	350
			R1	20	440
			H2	25	550
	SUPER ROCK	E4	C1	19	413
			R1	22	480
			H2	24	530
	SUPER TRAC	E4	C1	18	392
			CS	22	472
			H2	25	549
	ETDT	E4	C1	16	350
			CS	21	460
			H2	22	490
	ET303+	E4	C1	18	390
			CS	22	480
			H2	28	610
	ET405	E4	C1	18	400
			CS	23	500
			H2	28	620
30.00R51	ET355	E4	C1	12	329
			CS	16	428
			H2	20	540
33.00R51	ET304	E4	C1	16	496
			R1	18	565
			H2	20	634
	ET355	E4	C1	12	378
			R1	15	474
			H2	20	621
	SUPER TRAC	E4	C1	15	474
			R1	18	556
			H2	21	642

Size	Pattern	TRA Code	Compound	Max dis/hr (km)	TKPH
36.00R51	ET355	E4	C1	16	585
			R1	20	729
			H2	24	882
37.00R57	ET304	E4	C1	18	750
			R1	20	825
			H2	22	900
40.00R57	ET304	E4	C1	17	800
			R1	18	880
			H2	20	960
	ET358	E4	C1	18	860
			CS	20	940
			H2	21	1020
46/90R57	ET304	E4	C1	16	810
			R1	18	898
			H2	20	986
	SUPER H	E4	C1	19	965
			CS	21	1040
			H2	22	1116
	ET358	E4	C1	18	890
			CS	19	970
			H2	21	1040
	ET304	E4	C1	17	980
			R1	19	1110
			H2	23	1320
50/80R57	ET359	E4	C1	18	1055
			R1	22	1267
			H2	25	1480

Note:

- If the ambient temperture is over 38℃, or the max speed exceeds 50 km/h (or 30 mph), or the haul length exceeds 6 km one way, please consult a Techking Representative.
- Techking Tire Compound Symbol
 - C1 = Cut Resistant. Resistant to cut, tread tearing and abrasion on rough surface. (mainly for mining, quarry area, loader, dozer and truck application)
 - CS = Cut and Speed compound. The cut resistance compound which also considers speed requirement, for rigid dump truck application at most scenario.
 - R1 = Standard Compound. Compromise solution between abrasion resistance and average speed on well maintained road. (mainly for articulated dump truck, loader & dozer application in constrution area)
 - H2 = Heat Resistant. For running on long cycles at high speed on well maintained road. (mainly for rigid dump truck application)
 - HS = Heat and Speed Compound. Designed for high ambient temperature, good road condition and high speed requirement.
 - H1 = High Speed Compound. Very high heating resistance at high speed on long cycles run on well maintained road. (mainly for mobile crane applicaiton)"

LOAD & CARRY OPERATIONS FOR LOADERS

Service condition of a loader is defined as “picking up material and relocating a short distance away, a maximum of 76m(250 feet), one way, with a maximum speed of 10km/h(5mph)”. However, a loader can pick up a load and tranport such load to another location and return unloaded for a longer distance. This type of service is called Load-and-Carry operations.

Tranportation usually occurs at low speeds, up to 25km/h(15mph) with limited distance.

The tires when in Load-and-Carry operations may encounter heat problems especially on the front axle tires. To avoid such problems, Techking recommends the following operating conditons.

For tires over 33” inch rim deameter careful study is required to maximize tire life while considering TKPH. Please consult a Techking representative for more information.

If you need to use the tire beyond this recommendation, please consult a Techking representativ.

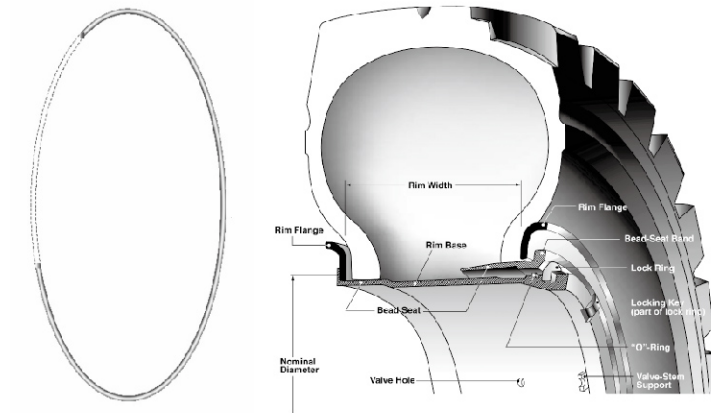
TRA Code	Inflation pressure			Maximum round Distance(m)	Allowed average speed(km/h)
	Rim Diameter				
	29 inch and below		33 inch and below		
	Conventional Size (95 series)	Wide base size (80,65 series)	Wide base size (65 series)		
L2,L3	★ ★★ 550kpa 825kpa (80psi) (120psi)	★ ★★ 500kpa 625kpa (73psi) (94psi)	★ ★★ 600kpa 750kpa (87psi) (109psi)	1800	16
L4				14	
L5				6	
L5S				5	



Shovels, Loaders, Bulldozers

O-RING DEFINITION & SPECIFICATIONS

O-Ring:An O-shaped rubber ring used in earthmover tubeless tire mountings to seal air between the loose taper seat and the rim base.



O-RING SPECIFICATIONS

O-Ring Size	Tire Size	Diameter(mm)	Inner Perimeter(mm)
P-24A	13.00R24 14.00R24	6.6	1768
	16.00R24 16.9-24		
	18.4-24 22/70R24		
P-25A	13.00R25 14.00R25*	6.8	1779
	15.5R25 17.5R25		
	385/95R25 445/80R25		
	445/95R25		
P-25B	14.00R25** 16.00R25	9.8	1779
	17.5R25 18.00R25		
	20.5R25 21.00R25		
	23.5R25 26.5R25		
	29.5R25 750/65R25		
	385/95R25 445/80R25		
	445/95R25 505/95R25		
	525/80R25 550/65R25		
	650/65R25 750/65R25		
	29.5R29 33.25R29		
	875/65R29		
P-29B	18.00R33 21.00R33	9.8	2382
P-33B	35/65R33		
P-35B	21.00R35 24.00R35	9.8	2572

Notes:

* For Rim Size 10.00-25

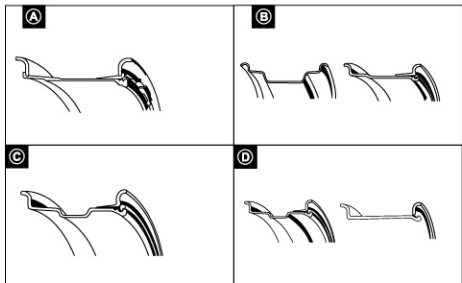
** For Rim Size 11.25-25

RIM AND VALVE

Full Tapered Bead Seat Rims (5 pieces)			Full Tapered Bead Seat Rims (5 pieces)			Drop Center Rims Full Tapered Bead Seat Rims (DC)			Semi Drop Center Rims (SDC)		Semi Drop Center Rims 5 Flat Base Rims (SDC) Flat Base Rims				
Tire size Designation	Rim Contours	Flange Height	Tire size Designation	Rim Contours	Flange Height	Tire size Designation	Rim Contours	Flange Height	Tire size Designation	Rim Contours	Tire size Designation	Rim Contours			
16.00X 25	11.25	2.0	33.25X 29	27.00	3.5	14.00X 25	10.00	2.0	335/80R20	11 X 20	8.25X 20NHS	6.5, 6.50T			
445/95R25			33.25X 35			385/95R25			365/80R20	11 X 20		7.0, 7.00T			
18.00X 25	13.00	2.5	33.5X 33	28.00	4.0	15.5X 25	12.00	1.3	405/70R20	13 X 20	9.00X 20NHS	7.0, 7.00T			
505/95R25			33.5X 39						13.00DC (12PR max one-star max)	13.00-24TG		8.00TG (14PR Max) 9.00DC (12PR Max) 10.00VA	10.00X 20NHS	7.5, 7.50V	
18.00X 33			37.25X 35												31.00
21.00X 25	15.00	3.0	37.5X 33	32.00	4.5	17.5X 25	14.00DC (12PR max one-star max)	1.5	14.00-24TG	8.00TG (14PR Max) 9.00DC (12PR Max) 10.00VA	10.00X 20NHS	7.5, 7.50V			
21.00X 33			37.5X 39						32.00	4.5					
21.00X 35			25/65X 25						20.00	2.0					
24.00X 25	17.00	3.5	650/65R25	19.50	2.5	445/80R25	14.00	1.5	16.00-24TG	10.00VA	11.00X 20NHS	8.0, 8.00V			
24.00X 35			30/65X 25						24.00	3.0					
24.00X 49			750/65R25						25.00	3.5					
27.00X 49	19.50	4.0	775/65R29	(24.00)	3.5	20.5X 25	17.00	2.0	13.00X24TG	9.00DC (one-star max) 10.00VA	12.00X 20NHS	8.5, 8.50V			
31/90R49	19.50	4.0	875/65R29	27.00					3.5	17.00AL (14PR max one-star max)		1.7	14.00 X24TG	9.00DC (one-star max) 10.00VA	9.00V
30.00X 51	22.00	4.5	35/65X 33	28.00					3.5	525/80R25		17.00	2.0	16.00 X24TG	10.00VA 9.00DC (one-star max)
33.00X 51	24.00	5.0	40/65X 39	32.00	4.0	13.00X 24NHS	9.00V								
36.00X 51	26.00	5.0	40.5/75 X 39	32.00	4.5			14.00X 24NHS	10.00W						
37.00X 57	27.00	6.0	41.25/70 X 39	32.00	4.5					14.00X 24NHS	10.00W				
40.00X 57	29.00	6.0	45/65R39	32.00	4.5	14.00X 24NHS	10.00W								
46/90R57	29.00	6.0	45/65X 45	36.00	4.5			14.00X 24NHS	10.00W						
50/90R57	34.00	6.5	50/65X 51	40.00	4.5					14.00X 24NHS	10.00W				
53/80R63	36.00	5.0	67.5/60 X 51	46.00	5.5	14.00X 24NHS	10.00W								
55/80R63	41.00	5.0	65/65-57	52.00	6.0			14.00X 24NHS	10.00W						
59/80R63	44.00	5.0	55.5/80 X 57	44.00	6.0					14.00X 24NHS	10.00W				
23.5X 25	19.50	2.5				14.00X 24NHS	10.00W								
26.5X 25	22.00	3.0						14.00X 24NHS	10.00W						
26.5X 29												14.00X 24NHS	10.00W		
29.5X 25	25.00	3.5				14.00X 24NHS	10.00W								
29.5X 29										14.00X 24NHS	10.00W				
29.5X 35												14.00X 24NHS	10.00W		

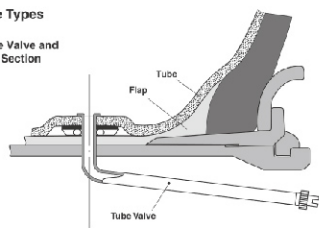
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Note:Tire size designation(X) includes "R"(Radial Ply)or"-"(Bias Ply).



Valve Types

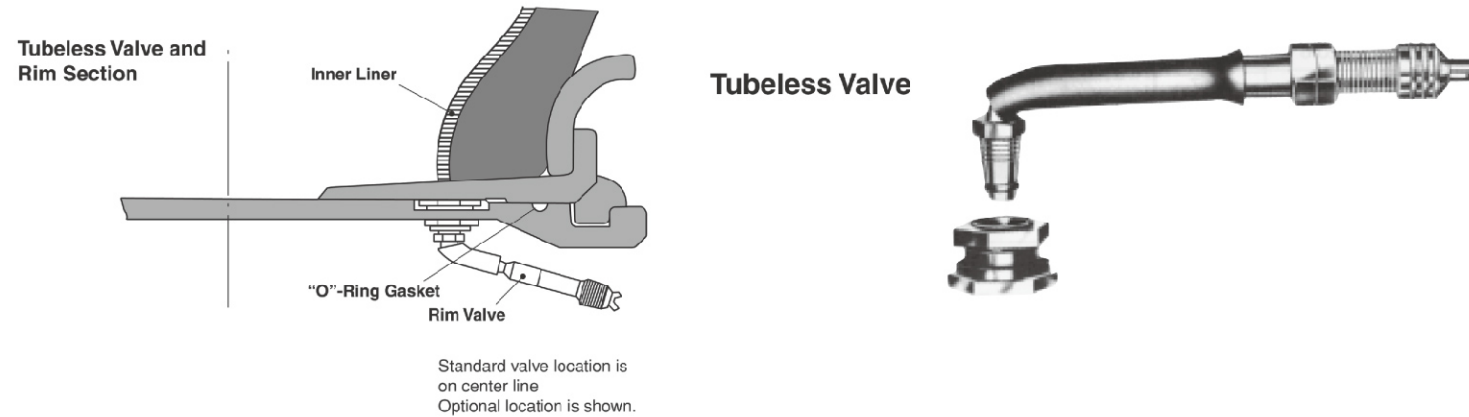
Tube Valve and Rim Section



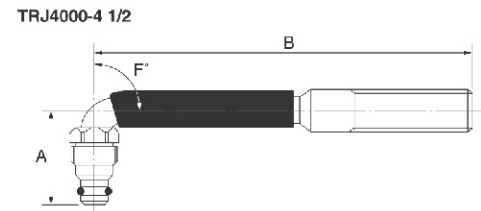
Tube Valve



RIM AND VALVE



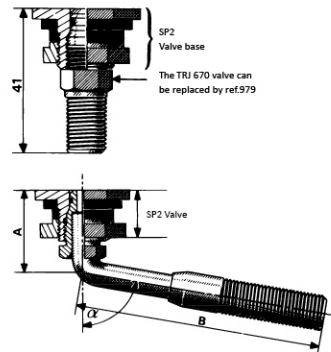
Interchangeable Swivel Valves For Tubeless Or Tube Type Tires



Valve No.	Dimensions (mm)		
	A	B	F
TRJ650	27.5	79.5	80
TRJ4000-4 1/2	31	114.0	90
TRJ4000-8	31	203.0	90
TRJ4000-7 1/2	31	190.5	90

This type of VALVE consists of a com-bination of the rubber base SP-4000 or SP-2.

EARTHMOVER TUBELESS VALVE (AMERICAN, TRA STANDARD)



Techking code	TRA code	ETRTO designation	A		B		α°
			mm	inches	mm	inches	
R 1837	TRJ 650	V5-04-1	27	1.08	79	3.12	100°
	TRJ 651	V5-04-2	32	1.27	119	4.69	90°
	TRJ 652		27	1.08	140	5.5	94°
	TRJ 653		27	1.08	63	2.5	100°
	TRJ 654		27	1.08	79	3.12	120°
	TRJ 655		27	1.08	79	3.12	106°
	TRJ 656		67	2.62	94	3.69	90°
	TRJ 657		27	1.08	102	4	100°
	TRJ 658		27	1.08	140	5.5	100°
	TRJ 659		48	1.89	89	3.5	90°
	TRJ 660		48	1.89	222	8.75	90°
	TRJ 669		27	1.08	64	2.5	90°
R 979	TRJ 670		41	1.63	-	-	-

Valves used on an American valve base SP2 [20.5 mm (0.8 inch) diameter hole] and also on AM tubes.

CONVERSION TABLES: UNIT

INFLATION PRESSURE

kg/cm ²	lb/in ²	kpa	bar	kg/cm ²	lb/in ²	kpa	bar
0.1	1	10	0.1	2.6	37	250	2.5
0.2	3	20	0.2	2.7	38	260	2.6
0.3	4	30	0.3	2.8	40	270	2.7
0.4	6	40	0.4	2.9	41	280	2.8
0.5	7	50	0.5	3.0	43	290	2.9
0.6	9	60	0.6	3.1	44	300	3.0
0.7	10	70	0.7	3.2	45	310	3.1
0.8	11	80	0.8	3.3	47	320	3.2
0.9	13	90	0.9	3.4	48	330	3.3
1.0	14	100	1.0	3.5	50	340	3.4
1.1	16	110	1.1	3.6	51	350	3.5
1.2	17	120	1.2	3.7	53	360	3.6
1.3	18	130	1.3	3.8	54	370	3.7
1.4	20	140	1.4	3.9	55	380	3.8
1.5	21	150	1.5	4.0	57	390	3.9
1.6	23	160	1.6	4.1	58	400	4.0
1.7	24	170	1.7	4.2	60	410	4.1
1.8	26	180	1.8	4.3	61	420	4.2
1.9	27	190	1.9	4.4	62	430	4.3
2.0	28	200	2.0	4.5	64	440	4.4
2.1	30	210	2.1	4.6	65	450	4.5
2.2	31	220	2.2	4.7	67	460	4.6
2.3	33	230	2.3	4.8	68	470	4.7
2.4	34	240	2.4	4.9	70	480	4.8
2.5	36	250	2.5	5.0	71	490	4.9

INFLATION PRESSURE

kg/cm ²	lb/in ²	kpa	bar	kg/cm ²	lb/in ²	kpa	bar
5.1	72	490	4.9	7.6	108	740	7.4
5.2	74	500	5.0	7.7	109	750	7.5
5.3	75	510	5.1	7.8	111	760	7.6
5.4	77	520	5.2	7.9	112	770	7.7
5.5	78	530	5.3	8.0	114	780	7.8
5.6	80	540	5.4	8.1	115	790	7.9
5.7	81	550	5.5	8.2	116	800	8.0
5.8	82	560	5.6	8.3	118	810	8.1
5.9	84	570	5.7	8.4	119	820	8.2
6.0	85	580	5.8	8.5	121	830	8.3
6.1	87	590	5.9	8.6	122	840	8.4
6.2	88	600	6.0	8.7	124	850	8.5
6.3	89	610	6.1	8.8	125	860	8.6
6.4	91	620	6.2	8.9	126	870	8.7
6.5	92	630	6.3	9.0	128	880	8.8
6.6	94	640	6.4	9.1	129	890	8.9
6.7	95	650	6.5	9.2	131	900	9.0
6.8	97	660	6.6	9.3	132	910	9.1
6.9	98	670	6.7	9.4	133	920	9.2
7.0	99	680	6.8	9.5	135	930	9.3
7.1	101	690	6.9	9.6	136	940	9.4
7.2	102	700	7.0	9.7	138	950	9.5
7.3	104	710	7.1	9.8	139	960	9.6
7.4	105	720	7.2	9.9	141	970	9.7
7.5	107	730	7.3	10.0	142	980	9.8

WEIGHT

lb	kg	lb	kg	lb	kg	lb	kg
1	0.5	260	117.9	1200	544.3	5000	2268.0
10	4.5	280	120.0	1300	589.7	5200	2358.7
20	9.1	300	136.1	1400	635.0	5400	2449.4
30	13.6	320	145.2	1500	680.4	5600	2540.2
40	18.1	340	154.2	1600	725.8	5800	2630.9
50	22.7	360	163.3	1700	771.1	6000	2721.6
60	27.2	380	172.4	1800	816.5	7000	3175.2
70	31.8	400	181.4	1900	861.8	8000	3628.8
80	36.3	420	190.5	2000	907.2	9000	4082.4
90	40.8	440	199.6	2200	997.9	10000	4536.0
100	45.4	460	208.7	2400	1088.6	11000	4989.6
110	49.9	480	217.7	2600	1179.4	12000	5443.2
120	54.4	500	226.8	2800	1270.1	13000	5896.8
130	59.0	520	235.9	3000	1360.8	14000	6350.4
140	63.5	540	244.9	3200	1451.5	15000	6804.0
150	68.0	560	254.0	3400	1542.2	16000	7257.6
160	72.6	580	263.1	3600	1633.0	17000	7711.2
170	77.1	600	272.2	3800	1723.7	18000	8164.8
180	81.6	700	317.5	4000	1814.4	19000	8618.4
190	86.2	800	362.9	4200	1905.1	20000	9072.0
200	90.7	900	408.2	4400	1995.8		
220	99.8	1000	453.6	4600	2086.6		
240	108.9	1100	499.0	4800	2177.3		

WEIGHT

lb	kg	lb	kg	lb	kg	lb	kg
1	2.2	130	286.6	600	1322.8	2500	5511.5
5	11.0	140	308.6	650	1433.0	2600	5732.0
10	22.0	150	330.7	700	1543.2	2700	5952.4
15	33.1	160	352.7	750	1653.5	2800	6173.0
20	44.1	170	374.8	800	1763.7	2900	6393.3
25	55.1	180	396.8	850	1873.9	3000	6613.8
30	66.1	19	418.9	900	1984.1	3500	7716.1
35	77.2	200	440.9	950	2094.4	4000	8818.4
40	88.2	210	463.0	1000	2204.6	4500	9920.7
45	99.2	220	485.0	1100	2425.1	5000	11023.0
50	110.2	230	507.1	1200	2645.5	5500	12125.3
55	121.3	240	529.1	1300	2866.0	6000	13227.6
60	132.3	250	551.2	1400	3086.4	6500	14329.9
65	143.3	260	573.2	1500	3306.9	7000	15432.2
70	154.3	270	595.2	1600	3527.4	7500	16534.5
75	165.3	280	617.3	1700	3747.8	8000	17636.8
80	176.4	290	639.3	1800	3968.3	8500	18739.1
85	187.4	300	661.4	1900	4188.7	9000	19841.4
90	198.4	350	771.6	2000	4409.2	9500	20943.7
95	209.4	400	881.8	2100	4629.7	10000	22046.0
100	220.5	450	992.1	2200	4850.1		
110	242.5	500	1102.3	2300	5070.6		
120	264.6	550	1212.5	2400	5291.0		

CONVERSION TABLES: UNIT

TEMPERATURE

(CENTIGRADE/FAHRENHEIT)

C	F	C	F	C	F	C	F	C	F	C	F
-19	-2.2	+11	+51.8	+41	+105.8	+71	+159.8	+101	+213.8	+131	+267.8
-18	0.4	12	53.6	42	107.6	72	161.6	102	215.6	132	269.6
-17	+1.4	13	55.4	43	109.4	73	163.4	103	217.4	133	271.4
-16	3.2	14	57.2	44	111.2	74	165.2	104	219.2	134	273.2
-15	5.0	15	59.0	45	113.0	75	167.0	105	221.0	135	275.0
-14	6.8	16	60.8	46	114.8	76	168.8	106	222.8	136	276.8
-13	8.6	17	62.6	47	116.6	77	170.6	107	224.6	137	278.8
-12	10.4	18	64.4	48	118.4	78	172.4	108	226.4	138	280.4
-11	12.2	19	66.2	49	120.2	79	174.2	109	228.2	139	282.2
-10	14.0	20	68.0	50	122.0	80	176.0	110	230.0	140	284.0
-9	15.8	21	69.8	51	123.8	81	177.8	111	231.8	141	285.8
-8	17.6	22	71.6	52	125.6	82	179.6	112	233.6	142	287.6
-7	19.4	23	73.4	53	127.4	83	181.4	113	235.4	143	289.4
-6	21.2	24	75.2	54	129.2	84	183.2	114	237.2	144	291.2
-5	23.0	25	77.0	55	131.0	85	185.0	115	239.0	145	293.0
-4	24.8	26	78.8	56	132.8	86	186.8	116	240.8	146	294.8
-3	26.6	27	80.6	57	134.6	87	188.6	117	242.6	147	296.6
-2	28.4	28	82.4	58	136.4	88	190.4	118	244.4	148	298.4
-1	30.2	29	84.2	59	138.2	89	192.2	119	246.2	149	300.2
0	32.0	30	86.0	60	140.0	90	194.0	120	248.0	150	302.0
+1	33.8	31	87.8	61	141.8	91	195.8	121	249.8	160	320.0
2	35.6	32	89.6	62	143.6	92	197.6	122	251.6	170	338.0
3	37.4	33	91.4	63	145.4	93	199.4	123	253.4	180	356.0
4	39.2	34	93.2	64	147.2	94	201.2	124	255.2	190	374.0
5	41.0	35	95.0	65	149.0	95	203.0	125	257.0	200	392.0
6	42.8	36	96.8	66	150.8	96	204.8	126	258.8		
7	44.6	37	98.6	67	152.6	97	206.6	127	260.6		
8	46.4	38	100.4	68	154.4	98	208.4	128	262.4		
9	48.2	39	102.2	69	156.2	99	210.2	129	264.2		
10	50.0	40	104.0	70	158.0	100	212.0	130	266.0		

Note: F=(C*9/5)+32

PRESSURE

kg/cm ²	k · Pa	bar	psi
1	98.08	0.9808	14.22
0.0120	1	0.01	0.1450
1.020	100	1	14.503
0.0703	6.895	0.06895	1

	m.meter	c.meter	meter	k.meter	inch	foot	yard	mile
m.meter	1	0.1000	0.00100	-	0.03937	0.00328	0.00109	-
c.meter	10.0000	1	0.01000	0.00001	0.39371	0.03281	0.01094	-
meter	1000.00	100.00	1	0.00100	39.3707	3.28089	1.09363	0.00062
K.meter	-	100000	1000.00	1	39370.7	3280.89	1093.63	0.62138
inch	25.3995	2.53995	0.02540	0.00003	1	0.08333	0.02778	0.00002
foot	304.794	30.4794	0.30479	0.0030	12.0000	1	0.33333	0.00019
yard	914.383	91.4383	0.91438	0.00091	36.0000	3.00000	1	0.00057
mile	-	160931	1609.31	1.60931	63360.0	5280.00	1760.00	1

	Meter ²	are	hectare	k.meter ²	foot ²	yard ²	acre	mile ²
meter2	1	0.010000	0.000100	0.000001	10.7639	1.19600	0.000247	0.000000
are	100.000	1	0.010000	0.000100	1076.39	119.600	0.024710	0.000039
hectare	10000.0	100.000	1	0.10000	107639.0	11960.0	2.47105	0.003861
K.meter2	-	10000.0	100.000	1	-	-	247.105	0.386098
foot2	0.092903	0.000929	0.000009	0.000000	1	0.111111	0.000023	0.000000
yard2	0.836130	0.008361	0.000094	0.000000	9.00000	1	0.000207	0.00000
acre	4046.87	40.4687	0.404687	0.004047	43560.2	4840.00	1	0.001562
mile2	-	25900.2	259.002	2.59002	-	-	640.000	-

	gram	k.gram	ton	s.ton	l.ton	ounce	pound
gram	1	0.00100	-	-	-	0.03527	0.00220
k.gram	1000.00	1	0.00100	0.00110	0.00098	35.2739	2.20462
ton	-	10000.00	1	1.10230	0.98421	35273.9	2204.62
s.ton	907185	907.185	0.90719	1	0.89286	32000.0	2000.00
l.ton	-	1016.04	1.01604	1012000	1	35840.0	2240.00
ounce	28.3495	0.02835	0.00003	0.00003	0.00003	1	0.06250
pound	453.592	0.45359	0.00045	0.00050	0.00045	16.0000	1

CAPACITY		cub.meter	liter	cub.inch	cub.foot	cub.yard	U.S.gallon	U.K.gallon
	cub.meter	1	1000.00	61027.1	35.3147	1.30802	264.186	220.216
	liter	0.00100	1	61.0271	0.03532	0.00131	0.26419	0.22022
	cub.inch	0.00002	0.01639	1	0.00058	0.00002	0.00433	0.00361
	cub.foot	0.02832	28.3167	1728.00	1	0.03704	7.48051	6.23549
	cub.yard	0.76455	764.554	46656.0	27.0000	1	201.974	168.358
	U.S.gallon	0.00379	3.78543	231.000	0.13368	0.00495	1	0.83270
	U.K.gallon	0.00455	4.54596	277.413	0.16037	0.00594	1.20091	1

TORQUE

kilogram meter kgmx9.81=Nm (Newton meter)

POWER(horse power)

powerHPx0.7457=kW (kilowatt)

