



TRELLEBORG

MONARCH

TECHNICAL SOLUTION



MONARCH M²

A new generation of Monarch solid tires for the next generation of material handling equipment. Designed using the latest technology and state-of-the-art laboratory analysis, the M² combines the strength of the Mono-Matic® tire with the ride of the HP® and the power of the E-Class®.

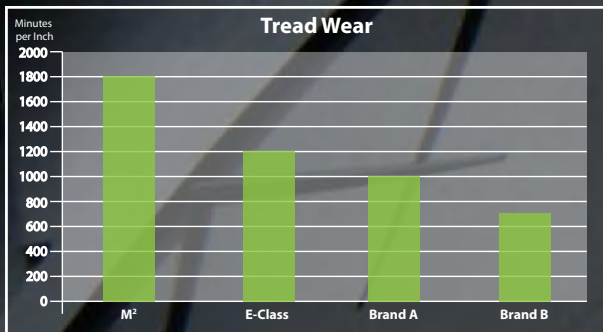
This three-stage tire with steel wires in the heel is a distinct change to the previous Monarch solid tire. The new tread design and new compound help make a clear break from the past tire technology. These changes combine to produce a longer-lasting solid tire.

Over 40 Years of Excellence

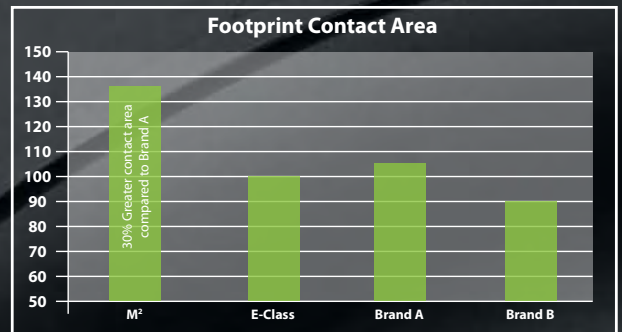


OUTLASTING THE COMPETITION

Advance compounding, innovative tread design and improved heat defense makes the M² an excellent choice for your material handling equipment.



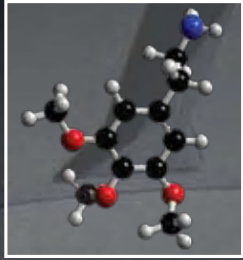
In rigorous testing the M² outlasts traditional solid tires. The compounding and tread allow for a longer tire life.



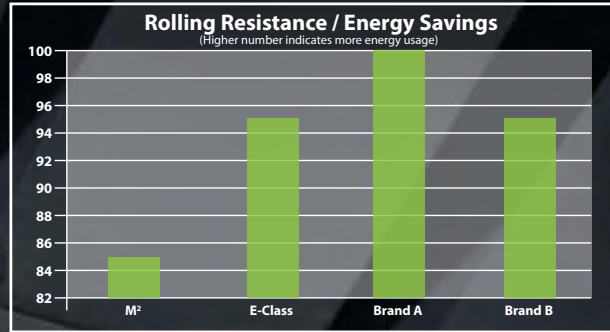
Higher footprint contact area allows for maximum wear while preventing stress on the tire. Lower footprint contact area can lead to uneven wear and premature failure.

COMPOUNDING

A new, longer wearing compound also offers additional chip and chunk resistance to help extend the life of the tire.



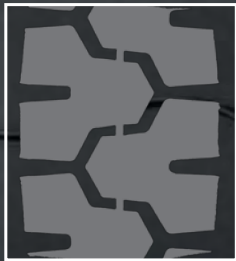
Strong molecular bond offers outstanding resistance to chipping and chunking, enabling the M2 to perform in the most demanding applications.



Through advanced compounding and stable tread pattern the M2 is optimized to provide outstanding rolling resistance which reduces the amount of energy required to keep this tire rolling.

INNOVATIVE TREAD DESIGN

Innovative tread design and flatter profile were developed to offer improved traction and stability.



Flat profile footprint offers long, even wear while distributing the load evenly across the tread surface.



Tread wear indicator quickly shows remaining tire life.



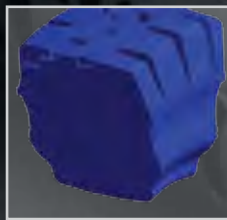
Robust tread shoulder area promotes increased stability.

IMPROVED HEAT DEFENSE

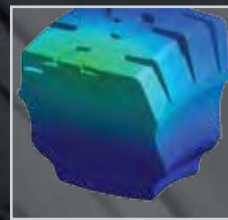
This tire construction and new compound combine to create a tire that is optimized for deformation control to reduce heat buildup in the tire. Operating at lower temperatures reduces the risk of premature failures.



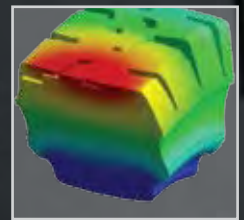
Control Deformation Matrix Technology used to optimize internal tire construction which minimizes heat buildup and potential stress points while the tire is in service.



An undeformed shape of the tire.



Tire deformed by 50% load.



Fully deformed tire.

The above images represent how loads are distributed through the M².

AVAILABLE SIZES

Size	Profile	Rim Width	Tire O.D. (in)	Max Width (in)	Tread Width (in)	Load Capacity		Shipping Weight (Lbs)
						6 Mph	10 Mph	
10.5 x 4-6	RIB	3.25	10.5	4.0	3.1	1,140	1,040	9.0
4.00 x 8	RIB	2.50	16.0	4.1	3.5	1,940	1,405	24.5
4.00 x 8	RIB	3.00	16.0	4.1	3.5	2,320	1,685	24.7
4.00 x 8	RIB	3.56	16.1	4.9	4.3	2,610	1,890	24.9
4.00 x 8	RIB	3.75	16.1	4.9	4.3	2,900	2,105	24.9
4.00 x 8	M2	3.75	16.1	4.9	4.3	2,900	2,105	25.4
5.00 x 8	M2	3.00	18.0	4.8	4.2	2,670	1,935	38.8
5.00 x 8	M2	3.75	18.0	6.0	5.4	3,340	2,420	47.5
5.00 x 8	RIB	3.75	18.0	6.0	5.4	3,340	2,420	48.0
15 x 4.5-8	RIB	3.00	14.8	4.6	4.3	2,000	1,450	21.8
16 x 6-8	RIB	4.33	16.2	6.0	5.4	3,170	2,300	35.9
18 x 7-8	M2	4.33	18.0	6.2	5.3	3,750	2,700	47.4
6.00 x 9	RIB	4.00	20.7	5.5	4.9	4,230	3,065	58.2
6.00 x 9	M2	4.00	20.7	5.5	4.9	4,230	3,065	58.9
21 x 8-9	M2	6.00	20.4	7.3	6.3	6,190	4,480	73.6
6.50 x 10	M2	5.00	22.7	6.3	5.4	5,810	4,210	78.5
6.50 x 10	M2	5.50	22.7	6.3	5.4	6,390	4,630	80.0
23 x 9-10	M2	6.50	23.0	7.9	7.1	7,520	4,550	105.8
200/50-10	M2	6.50	18.0	7.5	7.1	5,200	3,770	54.9
7.00 x 12	M2	5.00	25.6	6.8	5.9	6,640	4,810	104.3
7.00 x 12	PLAIN	5.00	25.6	6.8	5.9	6,640	4,810	104.3
23 x 10-12	M2	8.00	23.1	9.4	8.4	8,820	6,385	112.7
27 x 10-12	M2	8.00	26.7	9.4	8.6	8,820	6,385	166.7
7.00 x 15	M2	5.50	28.7	7.1	6.4	7,900	5,725	131.0
7.50 x 15	M2	5.50	29.4	7.6	6.5	7,900	5,725	144.8
7.50 x 15	M2	6.50	29.4	7.6	6.5	9,600	6,900	146.8
8.15 x 15	M2	7.00	27.3	8.8	7.8	9,000	6,520	137.2
8.25 x 15	M2	6.50	31.8	8.2	7.2	9,200	6,665	208.8
28 x 12.5-15	M2	9.75	28.0	11.2	10.3	12,760	9,250	193.4
32 x 12.5-15	M2	9.75	31.8	11.5		15,410	11,165	279.8
250 x 15	M2	7.00	28.0	8.8	7.6	9,610	6,960	149.5
250 x 15	M2	7.50	28.0	8.8	7.7	10,300	7,460	149.5
300 x 15	M2	8.00	32.0	10.1	8.7	13,190	9,550	241.0
7.50 x 16	M2	5.50	31.8	8.2	7.2	8,610	6,420	150.4
9.00 x 20	M2	6.50	38.3	8.7	7.6	13,200	9,650	280.4
10.00 x 20	M2	6.50	39.8	9.8	8.6	13,820	10,010	344.6
10.00 x 20	M2	8.00	39.8	9.8	8.6	17,015	12,320	353.8
12.00 x 20	M2	8.00	43.0	10.2	9.0	18,605	13,475	459.0
12.00 x 20	PLAIN	8.00	43.0	10.2	9.0	18,605	13,475	459.0
12.00 x 20	M2	8.50	43.0	10.2	9.0	19,700	14,310	457.9
12.00 x 20	M2	10.00	42.9	12.3	11.1	23,255	16,840	554.5
12.00 x 20	PLAIN	10.00	42.9	12.3	11.1	23,255	16,840	552.3
355/50-20	PLAIN	10.00	32.8	12.2	11.4	14,530	10,520	254.4

AVAILABLE COMPOUNDS



LONG DISTANCE® NON-MARKING – Offers excellent wear and a good resistance to chipping and chunking while offering a good ride, in a compound that does not mark floors.



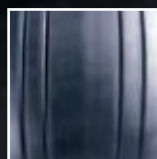
MAN-TOTER™ – A softer version of the M², designed for personnel carriers and in-plant utility vehicles.

SPECIAL COMPOUNDS - Available upon request.

AVAILABLE TREAD



M²



Rib



Plain



Tread wear indicator quickly allows operator to check the wear on the tire. This indicator represents 25% worn, 50% worn, 75% worn and 100% worn.

Solid, square tread shoulder area for enhanced stability.

Flat footprint and wide tread surface promotes long and even tread wear.

CDM Technology was used while creating the M². The use of this technology helps prevent the tire from early failure.

AMERICAN SALES OFFICES

OHIO 61 STATE ROUTE 43 NORTH HARTVILLE OH 44632 TEL: 330 877 1211 FAX: 330 877 2346	GEORGIA 107 FOREST PARKWAY, SUITE 900 FOREST PARK, GA 30297 TEL: 404 361 7060 FAX: 404 361 1977	CALIFORNIA 2438 PECK ROAD CITY OF INDUSTRY, CA 90601 TEL: 562 695 5686 FAX: 562 695 9040	NEW YORK 89 LEUNING AVENUE SOUTH HACKENSACK, NJ 07606 TEL: 201 488 2215 FAX: 201 488 0577	TEXAS 9239 KING ARTHUR DRIVE DALLAS, TX 75247 TEL: 214 630 1530 FAX: 214 630 1557
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EUROPEAN SALES OFFICE

BELGIUM TRELLEBORG WHEEL SYSTEMS BELGIUM NV HEAD QUARTERS BUSINESS UNIT EUROPE BRUGSE STEENWEG 7 9940 EVERGEM TEL: +32 92 572 211 FAX: +32 92 572 230 Email: twsb.sales@trelleborg.com	GERMANY TRELLEBORG WHEEL SYSTEMS GMBH KLEBERSTRASSE 2 D-40822 METTMANN POB 10 01 52 . D-40805 METTMANN TEL: +49 2104 217 282 FAX: +49 2104 217 291	ESPAÑA TRELLEBORG WHEEL SYSTEMS ESPAÑA, S.A. VALENCIA, 333, 20, 1A 08009 BARCELONA TEL: +34 93 208 14 80 FAX: +34 93 458 84 74	GREAT BRITAIN TRELLEBORG WHEEL SYSTEMS RESOLUTION ROAD FLAGSTAFF 42 ASHBY DE LA ZOUCH LEICESTERSHIRE LE65 1DW TEL: +44 1530 565 656 FAX: +44 1530 565 600	SWEDEN TRELLEBORG WHEEL SYSTEMS HENRY DUNKERS GATA 1 SE-231 81 TRELLEBORG TEL: +46 410 510 00 FAX: +46 410 139 96
FRANCE TRELLEBORG WHEEL SYSTEMS FRANCE PNEUS INDUSTRIELS 1 RUE LANGEVIN ZL DES GARENNES 78130 LES MUREAUX TEL: +33 13 0223 850 FAX: +33 13 4743 686	RUSSIA TRELLEBORG INDUSTRI O.O.O. (LTD) ROSCHINSKIY PROEZZD 8, 2-nd RU-115419 MOSCOW TEL: +7 495 232 5579 FAX: +7 495 232 2264 Email: moscow@trelleborg.com	CZECH REPUBLIC TRELLEBORG INDUSTRIES CS S.R.O. TOUŽIMSKÁ 720 CZ-199 00 PRAHA 9 - LETNANY TEL: +42 028 384 2600 FAX: +42 028 384 1699	POLAND TRELLEBORG INDUSTRIES POLSKA SP. Z.O.O. UL. SZPARAGOWA 6/8 PL 91-211 LODZ TEL: +48 42 613 6314 FAX: +48 42 652 5181 Email: tws.poland@trelleborg.com	

OVERSEAS SALES OFFICES

AUSTRALIA TRELLEBORG WHEEL SYSTEMS AUSTRALIA PTY LTD. (TWSA) 150-152 WILLIAM ROAD DANDENONG SOUTH VICTORIA 3175 AUSTRALIA TEL: +61 (03) 9794 9041 FAX: +61 (03) 9794 5044	BRAZIL TRELLEBORG DO BRASIL AVENIDA LAZARO BRIGIDO DUTRA, 700 LAGO DA PRATA LENCOIS PAULISTA - SP BR-CEP 18682-050 TEL: +55 14 3269 3600 FAX: +55 14 3269 3613	INDONESIA PT TRELLEBORG INDONESIA WISMA KORINDO, 4TH FLOOR JALAN MT HARYONO KAV. 62 JAKARTA 12780 TEL: +62 217 976 211 FAX: +62 217 976 213	MALAYSIA TRELLEBORG MALAYSIA SDN BHD No. 22 JALAN 30B/146 TAMAN DESA TASIK, SUNGAI BESI 57000 KUALA LUMPUR TEL: +60 (020) 390 596 388 FAX: +60 (020) 390 593 169	THAILAND TRELLEBORG THAILAND LTD 3539 NEW RAMA 9 ROAD (SOI 53) SUANLUANG 10250 BANGKOK TEL: +66 273 228 61 FAX: +66 273 228 64
SINGAPORE TRELLEBORG S.E. ASIA PTE LTD 4 JALAN PESAWAT SINGAPORE 619362 TEL: +65 62 622 112 FAX: +65 62 622 002	SOUTH AFRICA TRELLEBORG SOUTH AFRICA (PTY) LTD NEDERVEEN HIGHWAY AND PHILLIPS ROAD ROODEKOP PO BOX 12459, ELSPARK 1418 TEL: +27 11 865 3110 FAX: +27 11 865 2965			

FACTORIES AND DISTRIBUTION

USA TRELLEBORG WHEEL SYSTEMS AMERICAS INC. 61 STATE ROUTE 43 NORTH HARTVILLE, OH 44632-0430 TEL: +1 330 877 1211 FAX: +1 330 877 2346	SRI LANKA TRELLEBORG LANKA (PVT) LTD. LEVIN DRIVE, SAPUGASKANDA MAKOLA TEL: +94 11 2400338 FAX: +94 11 4816803
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