

Infinity[®] Mining Tyres and Wheels



TyreX International LTD

Infinity[®]
TYREX TYRES LTD, RT 8088, Q, L TD
Address: 218 Building A, Shoupi Plaza, Shoupi Road,
Fuzhou, 350000, China
Phone: 86-592-88811287 Fax: 86-592-88812846
E-mail: tyrex@tyrex.com Website: www.tyrex.com
Head Office: Fuzhou, P.R.C.
Tel: +86111 88338811 Fax: +86111 88338811
Website: www.tyrex.com

TYREX[®]
INTERNATIONAL LTD

TyreX International Ltd

TyreX International Rubber Co., Ltd is a branch of Al Dibson Group, The Al Dibson Group was established in 1976 to address the needs of a growing tyre management and service industry in the Middle East. Today we have grown to become a leading global player in the tyre management and service industry, providing solutions to their problems across five continents.

TyreX International Rubber Co., Ltd has been a leading provider of tyre management and service solutions to the mining industry. Our products and services are designed to provide technical support to the mining industry, ensuring that the tyre management solutions provided by TyreX are used in the maintenance of the leading mining tyre.

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Infinity[®]
Global Sales

The Al Dibson Group was formed in 1976 to address the needs of a growing tyre management and service industry in the Middle East.

Today we have grown to become a leading global player in the industry providing clients with superior services and unique solutions to their problems across five continents.



Infinity Mining Tyres

◆ Underground Mining Products

- Long Wall transport
- Haulage
- Roof support
- Personnel transport
- Hard rock

◆ OTR – Surface (Open Pit) Mining Products.



Infinity Mining Wheels

- ◆ Two piece wheels
- ◆ Three piece wheels
- ◆ Five piece wheels



Infinity Flatproofing (Foam Fill)

Specially Designed for the Underground Equipment

(Including haulage and the long wall transport)

- ◎ Sidewall protection design
- ◎ Deep tread patterns
- ◎ Special rubber compounds
- ◎ Infinity high quality foam fill material
- ◎ Heavy ply design
- ◎ Five pieces heavy duty wheels
- ◎ Approved for underground use by many O.E.M

Advantage:

- ◆ Long tire life
- ◆ Reuse the wheels
- ◆ Reduce downtime with Infinity tires

Long Wall Transport Mining Tyre

Description

Whether you want to carry 25 tons and 70 tons, TyreX has an appropriate Infinity Tyre and Wheel. Move your long wall quickly with Infinity products.



Tyre Size: 57 × 25.00–27

Equipment Example



Specification

Tyre Size	Ply Rating	Pattern Design	Rim	Max.load 10KPH (kg)	Inflation Pressure (Psi/bar)	Dimension Unloaded		Static L.Radius (mm)	Tread Depth (mm)	Product Number
						S.W.	O.D.			
						(mm)				
48X25–25.1	50	L-4	22	27990	150/10.3	635	1224	569	32	INF-52300–20
1425X450–25	24	L-5	14	11800	120/8.5	495	1397	635	67.5	INF-52400–20
1425X450–34	32	L-5	14	13430	110/7.6	483	1397	635	67.5	INF-52410–20
57X25.00–27	50	L-5	22	26200	150/10.3	635	1453	676	79.4	INF-52420–20
57X28.00–27	50	L-5	25	28350	150/10.3	711	1453	678	79.4	INF-52430–20

Haulage Mining Tyre

Description

Whether you use shutter cars, coal haulers, LHDs, or scoops, TyreX has the right Infinity tyre for the application. From loads of 3 tons up to 40 tons, there is an Infinity tire for your equipment. There are many load ratings, tread patterns, etc.



Tyre Size: 1200 × 20

Equipment Example



Specification

Tyre Size	Ply Rating	Pattern Design	Rim	Max.load 10KPH (kg)	Inflation Pressure (Psi/bar)	Dimension Unloaded		Static L.Radius (mm)	Tread Depth (mm)	Product Number
						S.W. (mm)	O.D. (mm)			
1000X20	28	L-3	7.5/8.0	7800	150/10.3	278	1073	483	32	INF-51110-20
1200X20	28	L-3	8.0/8.5	8618	150/10.3	315	1146	514	32	INF-51130-20
1000X15	32	L-5	7.5	6580	140/9.6	278	36	412	55.6	INF-53060-20
1200X20	36	L-5	8.0/8.5	10980	150/10.3	315	915	528	59	INF-53100-20
44X18-20	32	L-4	15T	11158	150/10.3	513	1118	521	32	INF-52200-20
1320X355-23	36	L-5	10	12620	120/8.25	410	1316	612	67.5	INF-53200-20
1200X24	32	L-5S	8.5	8165	150/10.3	315	1275	592	59.5	INF-55100-20
20.5X25	32	L-5	17	13065	110/7.5	528	1542	716	67.5	INF-53300-20
23.5X25	24	L-5	19.5	12520	69/4.7	597	1674	777	73	INF-53310-20
26.5X25	36	L-5	22	17530	85/5.75	673	1799	823	89	INF-53320-20
1425X450-25	24	L-5	14	11800	120/8.5	495	1397	635	67.5	INF-52400-20
1425X450-34	32	L-5	14	13430	110/7.6	483	1397	635	67.5	INF-52410-20

Personnel Transport Mining Tyre

Description

Most important to TyreX is safe transport of all workers. TyreX has Infinity tyres for all types of transport vehicle. From worker's transport (up to 40 workers) , there is an Infinity mining tyre specially designed to give maximum traction, soft ride and provide safe transport into and out of the mines.

Equipment Example



Tyre Size: 14.50 × 15

Specification

Tyre Size	Ply Rating	Pattern Design	Rim	Max.load 10KPH (kg)	Inflation Pressure (Psi/bar)	Dimension Unloaded		Static L.Radius (mm)	Tread Depth (mm)	Product Number
						S.W.	O.D.			
						(mm)				
10X16-5	14	L-5	8.25	2750	110/ 7.25	264	773	350	41.3	INF-70000-20
12X16-5	14	L-5	9.75	3250	100/ 6.7	307	831	374	43	INF-70010-20
1000X20	28	L-3	7.5/ 8.0	7800	150/ 10.3	278	1073	483	32	INF-51110-20
1200X20	28	L 3	8.0/ 8.5	8618	150/ 10.3	315	1146	516	32	INF-51130-20
1200X20	36	L 5	8.0/ 8.5	10980	150/ 10.3	315	1173	528	58.7	INF-53100-20
14-5X15	36	L-3	11	7620	150/ 10.3	369	899	414	54	INF-51060-20

Roof Support Mining Tyre

Description

TyreX can provide the right tyre for your roof support equipment.
Most important in this application is stability.
Infinity wide based tyres provide maximum stability.

Equipment Example



Tyre Size: 10.00 × 15

Specification

Tyre Size	Ply Rating	Pattern Design	Rim	Max.load 10KPH (kg)	Inflation Pressure (Psi/bar)	Dimension Unloaded		Static L.Radius (mm)	Tread Depth (mm)	Product Number
						S.W.	O.D.			
						(mm)				
1000X20	28	L-3	7. 5/ 8. 0	7800	150/ 10. 3	278	1073	483	32	INF-51110-20
1200X20	28	L-3	8. 0/ 8. 5	8618	150/ 10. 3	315	1146	516	32	INF-51130-20
1000X15	32	L-5	7. 5	6580	140/ 9. 6	278	915	411	55. 6	INF-53060-20
14. 5X15	36	L-3	11	7620	150/ 10. 3	369	899	414	28. 5	INF-51060-20

Hard Rock Mining Tyre

Description

The Infinity Mining Tyres are designed to provide the lowest cost per hour or lowest cost per ton in Hard Rock Applications. This has been achieved by designing the carcass or cord body with strong, heavy plies, and the use of Infinity's special rubber compounds.

Tyres in Hard Rock Mining applications are subject to cuts and punctures and the Infinity Hard Rock line of tyres have been designed with this in mind. Rubber compounds which resist cutting and are able to carry heavy loads without excessive heat build up are used in Infinity's Hard Rock tyres.



Tyre Size: 17.50 × 25

Equipment Example



Specification

Tyre Size	Ply Rating	Pattern Design	Rim	Max.load 10KPH (kg)	Inflation Pressure (Psi/bar)	Dimension Unloaded		Static L.Radius (mm)	Tread Depth (mm)	Product Number
						S.W. (mm)	O.D. (mm)			
1200X24	32	L-5S	8.5	8165	150/ 10.3	315	1275	592	59.5	INF-55100-20
1400X24	32	L-5S	10	8936	150/ 10.3	375	1417	660	62	INF-55110-20
1600X25	28	L-5S	11	12380	123/ 8.5	432	1542	719	52	INF-55120-20
1800X25	32	L-5S	13	15014	109/ 7.5	498	1673	777	79.4	INF-55130-20
17.5X25	32	L-5S	14	11790	120/ 8.25	495	1397	635	67.5	INF-55200-20
20.5X25	28	L-5S	17	12880	120/ 8.25	528	1541	719	67.5	INF-55210-20
26.5X25	36	L-5S	22	17530	85/ 5.75	673	1798	823	89	INF-55300-20
26.5X25	40	L-5S	22	18070	90/ 6.10	673	1798	823	89	INF-53330-20

● **Tyrex can flat proof ANY tyre ,eliminating the possibility of the tyre ever going flat.**

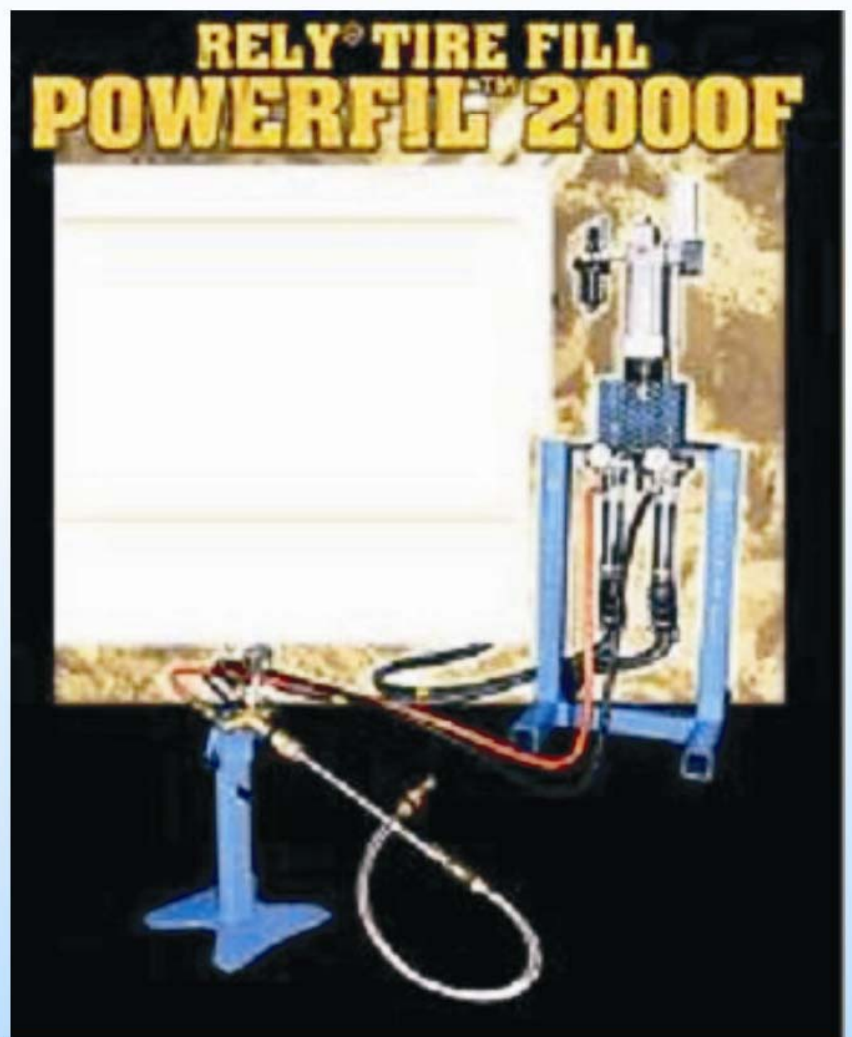
● **Infinity flat proofing also provides:**

◎ Tires filled with Infinity Tire Core are nail-proof, glass-proof, spike-proof, slug-proof, you-name-it-proof. They roll right over the toughest hazards and won't slow you down.

Tires filled with Infinity Tire Core are warranted for service up to 55mph for 8 hours in a 24-hour period. They can be driven continuously at speeds up to 35mph.

◎ Constant pressure for the life of the tyre. No more slow leaks which shorten the life of the tyre.

◎ Superior ride and less shock transfer (reducing equipment damage) than other flat proofing methods or materials and is much better than the very hard solid rubber tyres being offered by some-competitors. Plus all tyres flat proofed with Infinity Flat Proofing material can be removed from the wheel and the wheel can be reused. This is never possible when solid rubber tyres are used and sometimes not possible when other flat proof materials are used.



Open Pit Mining Tyre

Tyrex provides the widely used Radial OTR tires and also nylon Bias tires in these applications.



Tyre Size: 23.5-25

Equipment Example



Specification

E-3/L-3 Tread Pattern							
Tyre Size	Ply Rating	Rim	Max.load 10KPH (Kg)	Inflation Pressure (Kpa)	Dimension Unloaded		Tread Depth (mm)
					S.W.	O.D.	
					(mm)		
29.5-25	28	25.00/3.5	17500	425	750	1875	40
26.5-25	28	22.00/3.0	15500	475	675	1750	40
23.5-25	20	19.50/2.5	10900	375	595	1615	31.5
23.5-25	16	19.50/2.5	9500	300	595	1615	31.5
20.5-25	20	17.00/2.0	9500	450	520	1490	28.5
20.5-26	16	17.00/2.1	8250	450	520	1490	28.5
18.00-25	32	13.00/2.5	8750	575	495	1615	30
18.00-25	40	13.00/2.6	8750	575	495	1615	30
17.5-25	12	14.00/1.5	6150	350	445	1350	25.5
17.5-26	14	14.00/1.6	6650	420	445	1350	25.5
17.5-27	16	14.00/1.7	7300	475	445	1350	25.5
16.00-25	28	11.25/2.0	6700	575	430	1490	28.5
15.5-25	12	12.00	5600	400	395	1275	25
14.00-24	16	10.00	4000	375	375	1370	26
14.00-24	24	10.00	5150	575	375	1370	26

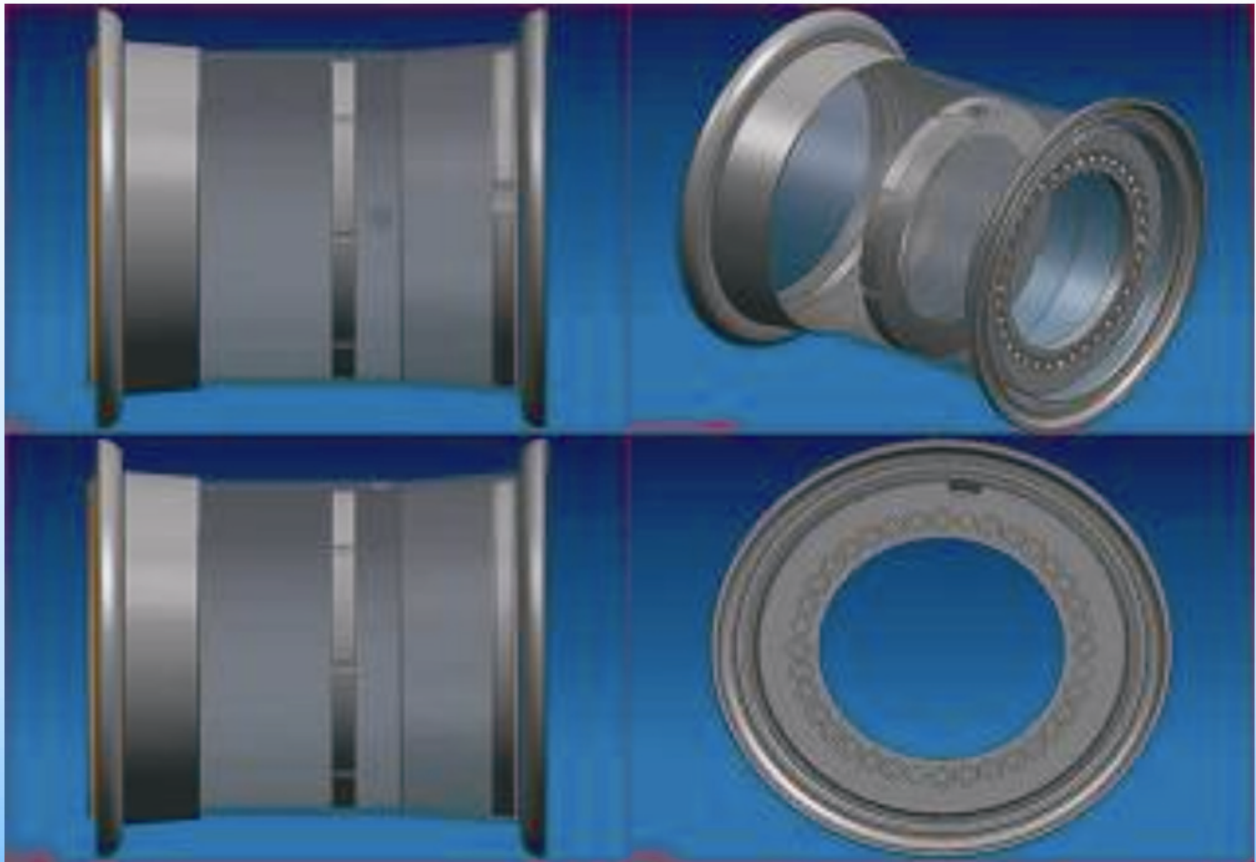
Specification

E-2/L-2 Tread Pattern							
Tyre Size	Ply Rating	Rim	Max.load 10KPH (Kg)	Inflation Pressure (Kpa)	Dimension Unloaded		Tread Depth (mm)
					S.W	O.D	
					(mm)		
15.5-25	12	12.00	5600	400	368	1260	24
17.5-25	12	14.00/1.5	6250	350	400	1320	25.5
17.5-25	14	14.00/1.5	6700	400	400	1320	25.5
20.5-25	12	17.00/2.0	6700	250	490	1457	30
20.5-25	16	17.00/2.0	8250	350	490	1457	30
20.5-25	20	17.00/2.0	9500	450	490	1457	30
23.5-25	12	19.50/2.5	8000	225	580	1630	31.5
23.5-25	16	19.50/2.5	9500	300	580	1630	31.5
23.5-25	20	19.50/2.5	10900	375	580	1630	31.5
16/70-20	10	13.00	2400	250	410	1075	20
E-4 Tread Pattern							
Tyre Size	Ply Rating	Rim	Max.load 10KPH (Kg)	Inflation Pressure (Kpa)	Dimension Unloaded		Tread Depth (mm)
					S.W	O.D	
					(mm)		
18.00-25	32	13.00/2.5	33100	750	495	1615	40/50.5
18.00-25	40	13.00/2.5	37500	950	495	1615	40/50.5
21.00-33	32	15.00/3.0	10300	500	575	1940	42
21.00-35	32	15.00/3.0	12100	650	575	2005	42
21.00-35	36	15.00/3.0	12800	750	575	2005	42
21.00-35	40	15.00/3.0	14000	625	575	2005	42
24.00-35	42	17.00/35	17000	575	650	2175	58
24.00-49	42	17.00/35	20600	575	650	2530	58
24.00-49	48	17.00/35	21800	650	650	2530	58
27.00-49	42	19.50/4.0	23000	500	735	2705	65
27.00-49	48	19.50/4.0	25000	575	735	2705	65
33.00-51	58	24.00/5.0	35500	575	895	2995	75
36.00-51	58	26.00/5.0	41250	625	990	3165	82
40.00-57	68	29.00/6.0	54500	725	1095	3580	91
9.00-20	14	13.00	4375	725	256	1002	
G-2 Tread Pattern							
Tyre Size	Ply Rating	Rim	Max.load 10KPH (Kg)	Inflation Pressure (Kpa)	Dimension Unloaded		Tread Depth (mm)
					S.W	O.D	
					(mm)		
13.00-24	12	8.00TG	2575	300	310	1265	23
14.00-24	12	8.00TG	3075	250	326	1339	24

Safety Comes First!

Infinity Mining Wheels must be safe and reusable. Even when the tyre life is gone; the Infinity wheel can be reused. The Infinity Mining Wheels are designed to be reused.

Tyrex can provide a wheel range from 15inch to 57inch with Infinity brand, you can choose the width that best fit your application.



Two Piece Wheels

This kind of wheel can be separated into two pieces. It is mainly used in personnel transport mining equipment and light haulage mining equipment.



Three Piece Wheels

This kind of wheel can be separated into three pieces. It is the most common wheels used in underground mining, especially for roof support mining equipment, underground haulage equipment and some of the long wall transport equipment.



Five Piece Wheels

This kind of wheel can be separated into five pieces. It is mainly used in long wall transport equipment.



All Infinity wheels are reusable!