



TALON

SUN TYRE AND WHEEL SYSTEMS

Industrial tyres that carry the full weight of your trust from SUN-TWS

The world's newest and most modern industrial tyre plant with state-of-the-art manufacturing technology, an Engineering Design Centre that can offer complete industrial tyre solutions, the iLASTIC production control system that ensures a perfect cure, every time and a "can do" attitude towards its customers - all combine to make SUN-TWS a preferred source of customers world wide.

Presenting The Talon platform of solid industrial resilient tyres - lean and mean - created to take your expectations head on and never let you down.

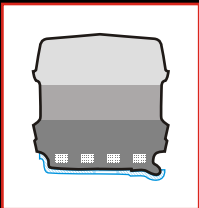
The ultimate grip, even on less than perfect surfaces.

- ▲ Toughness that is puncture proof.
- ▲ Freedom from maintenance.
- ▲ Better absorption of shock to make driving easier.
- ▲ Low heat buildup to withstand extreme wear and tear.
- ▲ High load carrying capacity.
- ▲ Less rolling resistance.
- ▲ Absolute stability
- ▲ More up time.
- ▲ High economic operations.



The comfort of 'fitting the tyres and forgetting' about them!

Our tyres are designed to offer consistent and reliable operation. Every tyre is subjected to demanding physical and chemical examinations. The stringent pre-production raw material control system, in-process step by step quality control system and 100% final inspection ensures that you can simply fit our tyres and rest easy!



The design of the tyres tell their story

In the design of the tyres, our Engineering Design Centre has integrated layers of specially formulated compounds of varying hardness and physical properties to meet the performance standards of each end product. Compounds and designs are carefully selected to meet the diverse application requirements under exacting work conditions.



Tread

The wear - resistant compound combined with the unique tread design ensures improved stability, traction and braking in both dry/wet conditions.

Centre

The resilient center compound is a softer compound which is designed to reduce heat build up and increase the life of a tyre. The elastic property of the Centre area absorbs shock from being transmitted to the equipment, resulting in driving comfort, absolute safety and increased truck life through reduced vibration. In addition, this layer helps in reducing the rolling resistance of the tyre.

Hard Base

The Hard Base area uses high durometer compounds with steel creel beads or hoop rings or with a matrix of nylon tyre cord fabric/rubber compound to provide adequate interference in the tyre rim fitment ensuring firm grip in the rim seating area and thus eliminating any spinning problems.

The *i*LASTIC advantage

The entire process is computer controlled and driven - from the building of the green tyre to the finished product. Every operating parameter is monitored, and the process is continually adjusted through complex algorithms for variations in temperature, pressure, cure characteristics of each layer, heat transfer/inch....all to give the perfect cure, every time!

All this from the SUN-TWS proprietary Intelligent Elastic Production Control System -*i*LASTIC



TALON

TYRE CONSTRUCTION AND OPTIONS

CATEGORY		TYPE E		TYPE M							
		E 2	M0	M1	M1S	M2N	M2NS	M3	M3S	M4N	M4NS
Ride		2-stage Friction LHB tread	3-stage Friction M0 tread	3-stage Friction NR tread	3-stage Friction NR tread	3-stage Friction NM tread	3-stage Friction NM tread	3-stage NR Base NR tread	3-stage NR Base NR tread	3-stage NR Base NM tread	3-stage NR Base NM tread
	Operating Conditions	Firm	Normal	Normal	Softride	Normal	Softride	Normal	Softride	Normal	Softride
		Light duty, short haul	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use	Normal, continuous use
1	No beads	E21X	M01X	M11X	M1S1X	M2N1X	M2NS1X				
2	Hoop rings	E22X	M02X	M12X	M1S2X	M2N2X	M2NS2X	M32X	M3S2X	M4N2X	M4NS2X
3	Creel beads			M13X	M1S3X	M2N3X	M2NS3X	M33X	M3S3X	M4N3X	M4NS3X
4	Clip	E214	M014	M114	M1S14	M2N14	M2NS14				
		E224	M024	M124	M1S24	M2N24	M2NS24	M324	M3S24	M4N24	M4NS24
				M134	M1S34	M2N34	M2NS34	M334	M3S34	M4N34	M4NS34

CATEGORY		TYPE P				TYPE S			
		P1	P1S	P2	P2S	S1	S1S	S2	S2S
Ride		3-stage NR Base NR/Syn tread	3-stage NR Base NR/Syn tread	3-stage NR Base HT tread	3-stage NR Base HT tread	3-stage NR Base CR tread	3-stage NR Base CR tread	3-stage NR Base Antistatic tread	3-stage NR Base Antistatic tread
	Operating Conditions	Normal	Softride	Normal	Softride	Normal	Softride	Normal	Softride
		Normal, continuous use	Normal, continuous use	High ambient use	High ambient use	Harsh operating environment	Harsh operating environment	Indoor, oil-free environment	Indoor, oil-free environment
1	No beads								
2	Hoop rings								
3	Creel beads	P13X	P1S3X	P23X	P2S3X	S13X	S1S3X	S23X	S2S3X
4	Clip								
		P134	P1S34	P234	P2S34	S134	S1S34	S234	S2S34

Notes:

1. Operating life is on the basis of normal operating conditions and operations should follow ETRTO norms for tyre usage.
2. Service life depends on severity of operating conditions.
3. Normal ride indicates a low-rolling resistance configuration.
4. Softride indicates an extra-soft center compound for drive comfort.
5. Vehicles fitted with Non-Marking tyres must be properly earthed.



TYRE SIZES AND SPECIFICATIONS

TYRE SIZE	TYRE SIZE (Metric)	RIM	Tyre dimensions in mm			Tyre load capacity on fork lifts, kg at 25kmph	
			Outer Diameter	Sidewall width	Tread width	Load wheel	Steer wheel
3.00 - 4		2.10	250	85	79	260	195
3.50 - 4		2.10	250	89	83	260	195
4.00 - 4		2.50	300	92	84	535	412
3.50 - 5		3.00	320	92	84	900	690
4.00 - 8		2.75, 3.00	402	103	86	950	730
15X4½ - 8	125/75 - 8	3.00	368	105	90	1,040	800
16X6 - 8	150/75 - 8	4.33	406	140	125	1,270	975
500 - 8		3.00	450	120	110	1,415	1,090
18X7 - 8	180/70 - 8	4.33	450	157	142	2,145	1,650
	140/55 - 9	4.00	376	125	110	1,170	900
6.00 - 9		4.00	520	138	120	1,885	1,450
21X8 - 9	200/75 - 9	6.00	517	188	157	2,755	2,120
	200/50 - 10	6.50	454	190	160	2,470	1,900
6.50 - 10		5.00	566	160	140	2,340	1,800
23X9 - 10	225/75 - 10	6.50	580	194	178	3,160	2,430
7.00 - 12		5.00	646	172	150	2,920	2,240
23X10 - 12		8.00	580	232	200	3,770	2,900
27X10 - 12	250/75 - 12	8.00	672	240	200	3,900	3,000
23X5 - 13		3.75	605	122	102	1,495	1,150
7.00 - 15		5.50	705	180	158	3,545	2,725
7.50 - 15		5.50, 6.00, 6.50	736	193	168	3,900	3,000
8.15 - 15 (28X9 - 15)	225/75 - 15	7.00	678	221	190	3,445	2,650
825 - 15		6.50	808	192	173	4,750	3,650
250 - 15	250/70 - 15	7.00, 7.50	706	220	190	4,745	3,650
300 - 15	315/70 - 15	8.00	806	242	223	5,850	4,500
28X12.5 - 15	345/45 - 15	9.75	705	275	255	5,525	4,250
	355/65 - 15	9.75	810	285	265	7,000	5,450
	400/60 - 15	11.00	810	318	298	8,970	6,900
750 - 16		5.50, 6.00	736	193	168	3,900	3,000
7.50 - 20		6.00	870	200	175	3,900	3,250
9.00 - 20		6.50, 7.00	972	226	191	5,400	4,500
10.00 - 20		7.50, 8.00	1,004	250	203	6,000	5,000
12.00 - 20		8.00, 8.50	1,080	255	232	7,560	6,300
12.00 - 24		8.50	1,165	265	230	8,040	6,700
12.00 - 24		10.00	1,165	285	245	8,280	6,900
14.00 - 24		10.00	1,275	308	270	11,100	9,250

All Dimensions are nominal and we reserve the right to make changes at any time without notice

TALON'S ADVANTAGES

The Talon platform of solid industrial tyres has been designed to give you the very best in technical performance that meets your budget - Value for Money! These solid tyres have been designed from the ground up with a hard wearing tread and wide footprint and have several important features:

- a. All tyres conform rigidly to ETRTO (European Tyre and Rim Technical Organization) and US-TRA (US Tyre and Rim Association) specifications. Dimensions & load carrying capacities are given in the Technical Specification Sheet.
- b. Talon tyres are offered in a wide range of constructions and compounds to cater to an amazing range of material handling applications.
- c. The size range is comprehensive, from the smallest to the largest with several options for rim widths. Moreover, our Engineering Design Centre (EDC) is ready to provide solutions for customer problems, from designing special constructions to new sizes.

- d. The square shoulder tread design provides better contact area/wider foot print and the tread edges are curved to prevent damage due to impact load. The tread has an optimum skid depth for longer life. A range of tread compounds are available for those exacting applications.



- e. A lesser side wall angle provides more tread width and better stability in operation.
- f. Customers are offered a choice of normal ride centre compound for low rolling resistance or softride centre compound for extra driver comfort.

- g. The tyres are available with the options of steel creel beads, hoop rings or a matrix of nylon tyre cord fabric and hard rubber base compound to ensure a firm fit with the rim.
- h. Markings on the tyres conform to international specifications. Further, customers seeking private label contract manufacture of solid tyres will be pleased with the options available for their own proprietary markings, including:
 - i. Brand
 - ii. Sidewall marking
 - iii. Barcode sticker for inventory control
- i. Total traceability of the product from start to finish, identified by type mark, embossed stencil number and barcode sticker.
- j. A comprehensive physical and chemical testing laboratory to ensure that the tyres are manufactured to a consistent high quality standard.

SUN-TWS LOGISTICS

Need timely and local area delivery? Our Group has warehouses around the world and we can structure a program specially for those times when you need immediate supply - so no more stock outs!



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