

Quality Statement

SG Revolution is the leading professional brand of wheels, rims and cushion tyres for rubber tyre machines working in hazardous operations. Offering a unique and innovative design and - with a pedigree that dates back to 1964 - the SG Revolution super cushion solid tyre enables machines to work in the most arduous environments with the lowest tyre costs.

Manufactured by Shun Gin Technology of Thailand, who has a programme of continuous research and development, the tyres are recognised globally as the solution to problems experienced with tyre fill products, which can crush under weight and are known to return to liquid form upon overheating.

As with all tyres the SG Revolution super cushion solid tyre requires a degree of maintenance:

- Check temperature on long hauls. 130 °C is the point at which a tyre could fail.
- Maximum usage of 16 hours per day ensures the full working life of the tyre on standard compound. A range of highly specialised compounds is available for very demanding applications, details of which are available on request from International Tyre & Wheel Solutions.
- Each operator is recommended to carry a Raytek MT Series laser temperature gauge to ensure maximum tyre life.



Range	-18 to 275°C
Accuracy	-1°C to 275°C ±2% or ± 2°C whichever is greater
Repeatability	-18°C to 1-°C ±3°C
Response time	500 mSec, 95% response
Spectral response	7-18 µm
Emissivity	pre-set 0.95
Ambient operating range	0 to 50°C
Relative humidity	10-95% RH no condensing
Storage temperature	-20°C to 65°C without battery
Weight/Dimensions	227g; 152x101x38mm
Power	9V Alkaline or NiCd battery (included)
Battery life (Alkaline)	12hrs
Laser Class II	Yes
Typical distance to target	Up to 1.5m
Distance to spot (D:S)	8:1
Additional Options:	Nylon holster

The Technology



1. Tread

The special rubber compound used in the manufacture of the tyres is wear and tear resistant, supports high torque turning direction and is constructed to the optimum density to suit all working and road conditions. The special wear resistance gives up to 50% more life than general cushion tyres.

2. Side Wall

A highly elastic compound is combined with selective materials to prolong the life of the side wall and prevent the edges from being damaged. The ultra durable side walls are resistant to wear and tears from loose obstacles, sharp objects and general debris found in tough working environments.

3. Soft Zone

A soft zone layer ensures machine stability, absorbs vibration and reinforces the maximum load capability ensuring that the cushion tyre will not deform under heavy loads. It also contributes to a comfy drive for the machine operator.

4. Nylon cord and bead

A layer of nylon cord and bead enhances the controllability of the tyres and supplies support for high torque operation. It avoids dry running between the cushion tyre and rim.

5. Non-slip base

Constructed from special nylon fibres and extra hard rubber, the non-slip base increases the friction resistance of the axle and rim.

SG Revolution super cushion solid tyres have become globally renowned for their performance and productivity and is one of the most widely sold brands. They are available in a wide range of sizes and tread patterns to suit many machines and site conditions.

The range suits the following machines:

- Skid steer loaders
- Wheeled loaders
- Fork lift trucks
- Container handlers
- Wheeled excavators
- Dock terminal trucks
- Telescopic handlers
- Airport vehicles

And can be used in a range of work environments:

- Waste handling
- Metals recycling
- Scrap yards
- Mining deep and surface
- Drilling
- Slag steel mill
- Foundries
- Glass works
- Defence operations

An intense research and development programme has led to the introduction of tyres to suit the underground mining industry.

Advantages of SG Revolution super cushion solid tyres

- No machine downtime due to blow outs, flat tyres or punctures
- Extends up to 50% more life than other industrial solid tyres
- Reliable and maintenance free
- Tight adhesion to rims eliminates rim spin
- Lighter in weight for less stress on the machine axles and for possible fuel savings
- Ease of steering and increased stability
- Absorbs shock from bumpy ground conditions
- Can work where standard tyres cannot
- Lower cost of ownership over the life of the tyre

