

MAURER S-Car Coaster



Maurer S-Car – pure riding enjoyment

Spinning Car

The spinning cars seat four persons and travel through the track as independent units. A pivot bearing between the passenger car and the undercarriage converts the centrifugal forces generated in curves into rotational movement. The four passengers sit back to back, separated by a bucket seat which prevents exposure to uncomfortable levels of stress during the turns. Looking outward from the centre of rotation over the front panel of the car gives passengers that extra kick – you won't find a more direct or intense coaster experience anywhere!

Diversity on every ride

Each ride is entirely different from the one before: The movements of the cars always depend on the distribution of passenger weight and the course of the track, making every ride a whole new adventure. The ride configurations are determined by the random movement of the car forward, backward or even sideways, guaranteeing an ever-changing adventure no matter how many times a passenger takes a ride. The unrivalled centrifugal brake assures that the run remains safe and the rotational speed pleasant.

Pure dynamic motion in a 360° carousel. The car's high-quality undercarriage is designed for maximum twisting and bending.



Versatile and reliable

Theming

The coaster is ideally suited for adaptation to a theme. In addition to the many opportunities for integrating the ride in the specific theme of a park area, the roller coaster cars also offer a wide variety of possibilities for theme-based customizing. We turn your ideas into reality and will be happy to implement your special wishes.

High quality

The design, structural calculations and manufacture of the S-Car are subject to the strict German DIN norms and have undergone rigid safety inspection from the German technical inspectorate TÜV Süddeutschland. The outstanding safety technology offers optimum damage prevention. We regard the use of a multiple redundant safety system as matter of course. The product's exceptionally high development and production standards have merged to yield an outstanding design that will fulfill the quality requirements of any park. The resulting reliability assures economic operation.

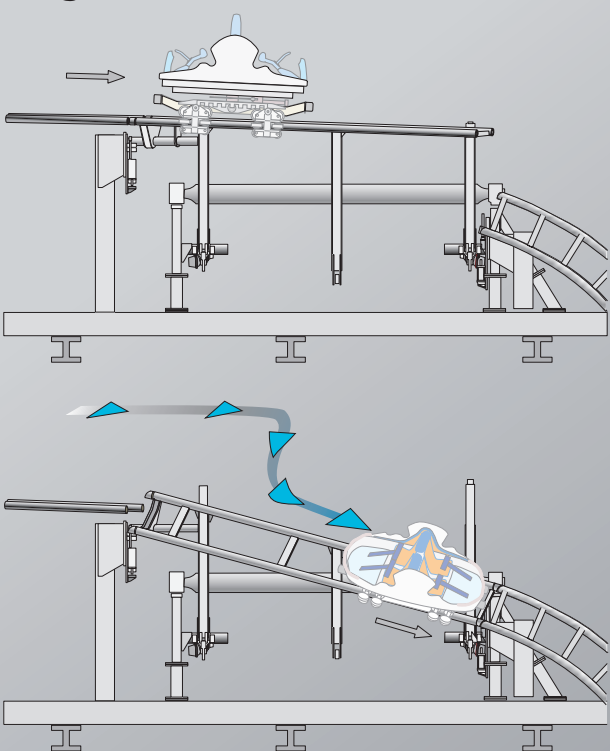


Maurer S-Car – special effects

Add some extra thrill...

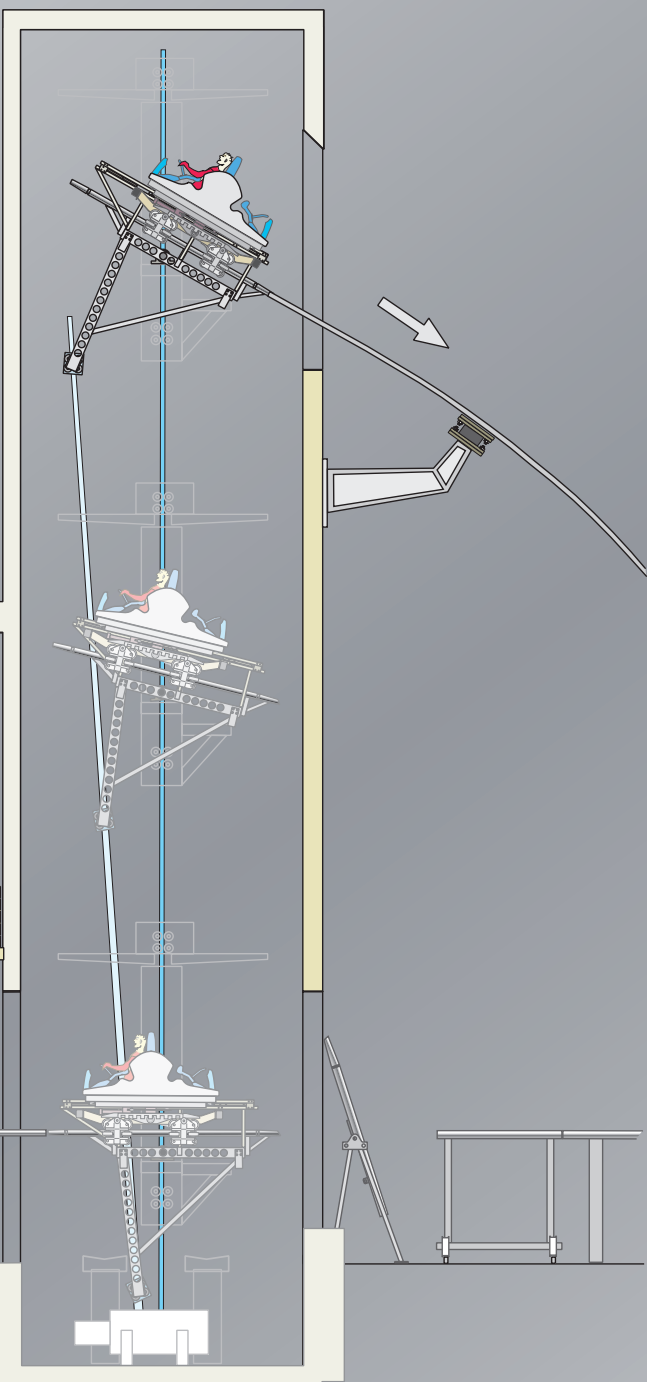
Maurer features unique mechanical special effects that take the passengers totally by surprise: The car stops suddenly and seconds later unexpectedly moves on to a new position, from where the ride continues in a different direction, barely giving passengers time to realize what is happening. For the Phantasialand amusement park in Germany different movements in the cars longitudinal and transverse axles were integrated in the theming of the ride.

Hinged Track

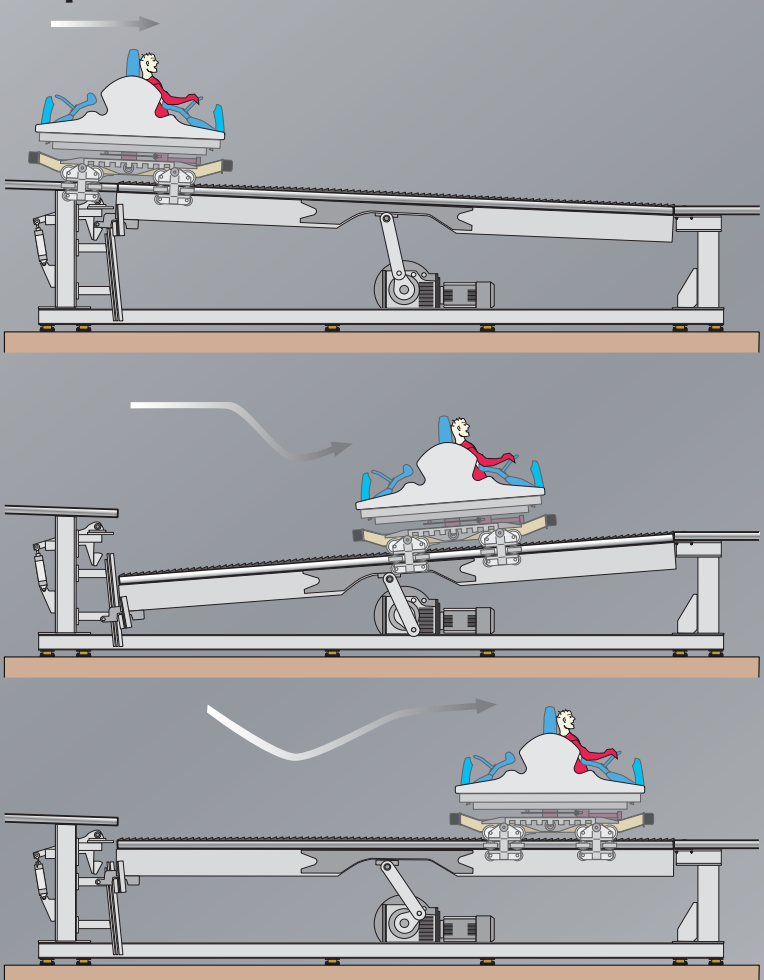


Vertical Express Lift

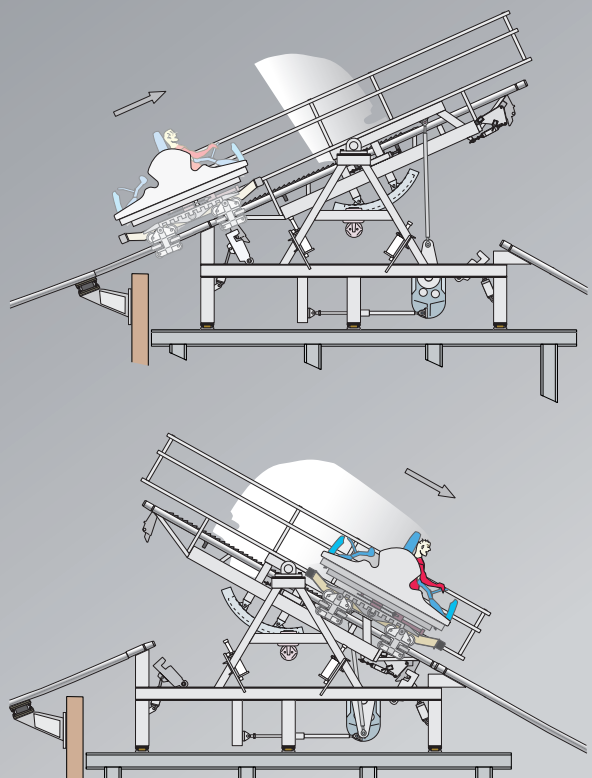
Starting at a shared loading platform, the four-person coasters are being catapulted more than 17 m (56 ft) upwards in a matter of seconds by a vertical express lift. Once at the top, there's no time for the passengers to catch their breath: Instead, their cars are sharply tilted downwards and the first drop suddenly appears.



Drop Track



Seesaw



Tracks – standard

Standard SC 1000 / 2000 / 2200

The 3 standard track layouts all feature Maurer’s astonishing S-Car and meet different requirements in size and capacity. Despite their compact construction, the SC 1000, 2000 and 2200 offer an unforgettable experience usually found only on significantly larger coasters. Another benefit: These high-banked turns, carousels and many special effects can all be installed without foundations.

Spinning Coaster SC 2000 “Spider”, Lagoon/USA



Technical Data **SC 1000**

Track length	240 m (787 ft.)
Height	9 m (30 ft.)
Number of cars	4
Capacity	600 pph
Base area	20 x 33 m (66 x 108 ft.)
vmax	43 km/h (27 mph)

Technical Data **SC 2000**

Track length	430 m (1410 ft.)
Height	15,5 m (51 ft)
Number of cars	8
Capacity	900 pph
Base area	23 x 45 m (76 x 148 ft.)
vmax	60 km/h (38 mph)

Technical Data **SC 2200**

Track length	450 m (1476 ft.)
Height	17 m (56 ft.)
Number of cars	8
Capacity	900 pph
Base area	55 x 62 m (180 x 203 ft.)

SC 3000 – the custom coaster

The SC 3000 takes spinning coasters on to the next level – custom-designed layouts allow us to create coasters that are optimally adapted to the requirements and needs of any amusement park, thus building ultra-dynamic and attractive tracks full of surprising new features.

Example: Spinning Coaster SC 3000 "Tarantula", Parque de Atracciones/Spain



Data (Example) **SC 3000**

Track length	630 m (2066 ft.)
Height	25.5 m (84 ft.)
Number of cars	8
Capacity	870 pph
Base area	92 x 58 m (302 x 190 ft.)

Tracks – custom built indoor

SC 3000 – indoor

“Crush’s Coaster” at the Disneyland Resort Paris gives a glimpse of the possibilities offered by SC 3000: With a maximum speed of 60 km/h (37 mph), up to 1000 passengers per hour pass through this 545 m long track with a 20 m elevation. But even these figures can merely describe the astonishing experience generated by the full interaction of theme and roller coaster.



Features

- Full integration in themes possible
- Great entertainment even in smaller areas
- High capacities feasible
- Nearly endless configuration possibilities
- Reliability

S-Car

- Matchless riding enjoyment thanks to sensational coaster dynamics
- Entertainment for the whole family and all age groups
- Intense speed sensation with fantastic views
- Extremely compact layouts possible
- Mobile and easy to relocate thanks to base construction
- Endless theming possibilities
- Quiet ride due to noiseless anti-rollback dog
- TÜV-tested safety concept with multiple redundant safety system
- Exceptionally high-quality standards
- Highly attractive cost-effectiveness



Technical Data **S-Car**

Maximum acceleration

Vertical positive	3.6 g
Vertical negative	0.0 g
Lateral	1.8 g
Longitudinal	-1.5 g

Top speed 80 km/h (50 mph)

Min. body height for children 120 cm (47")
under parents' attendance 107 cm (42")

Certification

TÜV Süddeutschland
 (technical inspectorate, southern Germany)



S-Car is a trademark of Maurer Söhne; photos: Maurer Söhne, coastersandmore



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