

## SPT 40 - SCAD Sky Park Tower

This is a permanent tower truss structure, designed as *multi-use structure*, that has the stability to accommodate not only the SCAD Dive, but other rides like slides, rotors and swings, as well as a *panoramic platform*. It has the highest hourly rider capacity and operates the SCAD independently inside and is accessed by an externally lifted cabin. It is particularly designed as an expandable tower ride attraction for medium size amusement businesses and offers the thrill of height, as well as the fascination of a beautiful view for visitors. As a spectacular eye catcher it pinpoints its position for miles around.

It consists of four major truss columns, horizontally supported only in the upper and lower segments to leave free visibility in the centre, which offers a spectacular view for spectators. Outside the tower there is an 8 passenger cabin, that travels independently between the ground and the panoramic platform, hosted by an electric winch at the top. The SCAD ride inside the tower is suspended by a spring system and hoisted by a 4 cable winch located on the ground.

Riders who wish to experience more than the view, are fitted with the easy to dress free fall seat harness CFF on the ground, before entering the cabin to travel to the panoramic platform. Here the first rider hooks onto the release system. Upon a countdown, the rider experiences free fall at it is best - unattached and pure, but controlled by the CFF harness.

After a 100 ft free fall the rider lands in a 300 square foot airbag supported SCAD double net. The feeling is like landing in a cloud without any impact. After landing the SCAD is lowered to ground in 15 seconds, the rider can walk out and the SCAD is hoisted up again to catch the next rider. The free fall feeling is more intense, than any othersimulation or free fall drop ride, due to the avoidance of disturbing attachments. As the rider is seated comfortably the ride is even smoother than known rides.

The cabin and ride are powered by a high capacity motor multi cable winch system, certified for personal transportation. The entire tower is also equipped with floodlights for night operation. A music sound system is optionally recommended. All parts of the tower are manufactured to the highest quality according to DIN 4112, the stringent official German standard for amusement rides. The SCAD system is type approved by the German technical control board TUV and complies with the US ASTM standards. The decoration and features can be customized to meet customer-specific requirements.

### Technical data:

Ride capacity:	80 riders / h
Footprint:	17 x 17 m / 55' x 55' ft
Rec. ride price:	\$ 20 p. person
Total tower height:	166 ft / 53 m
Power Europe:	460 V / 16,5 Kw / 70 Amp
Power US:	208 V / 16,5 kW / 140 Amp
Capacity of cabin:	8 passengers
Staff:	2
Free fall distance:	22 m / 73 ft
Weight / Ground load:	45 tons / 300 kN/m <sup>2</sup>
Suspension type:	mechanical spring system
Time for cabin lifting:	50 sec.
Capacity panoramic platform:	25
Total time per ride:	45 sec.
Foundations:	13 x 13 x 5 ft / 4 x 4 x 1,6 m
Reg. replacements:	springs every 6000 rides (3500 US\$), top net every 3 - 4000 rides (950 US\$)

**Additional features:** **Mega Splash Pool**, Structure illumination, Theming, Sound and Video System

