

PolinAttractions

EXPERIENCE **THE ADRENALINE**





EXPERIENCE **THE ADRENALINE**

POLIN ATTRACTIONS HAS THE ABILITY TO COMPLETE A WIDE RANGE OF ATTRACTION PROJECTS TO FIT AMUSEMENT PARK NEEDS ALL OVER THE WORLD.

Using our advanced engineering skills and lots of creativity, we offer the industry's most innovative, intense and dynamic products, wet and dry, large or small, for every member of the family. From small rides to major amusement park projects, with our team approach, we ensure every project is completed on time. We use a multi-disciplinary method, which makes it possible to offer flexible solutions. Our experienced team designs the most sophisticated ride types, works carefully with the unique characteristics of each project, maximizes the site potential, finds the most optimal solutions for issues and ensures the success of every project.

- 4** SPLASH COURSE
- 8** RIDE'N SPLASH
- 11** BOAT RIDE

Polin Attractions is a **Polin Group** Company

SPLASH COURSE



As is known, the most efficient and permanent method of learning is learning by doing and experience. Rope **Courses** are playground areas suitable for everyone of all ages, where people experience excitement, **adrenaline** and sense of achievement at the utmost level in a challenging and fun environment. Rope Courses which offer physical, intellectual and psychological challenges allow participants to improve their skills such as strategy-setting, courage, communication, self-trust, ability to overcome difficulties, hand skills, resilience, problem-solving, finding about their own limits, competitiveness, ability to assume risks, ability to work under high stress and focusing, and helps them to overcome acrophobia, while fostering an environment of friendliness and cooperation.



Rope courses: refer to adventure and entertainment parks, which are also called amusement parks and which have been evolving fast recently. These playgrounds involve one or more than one game event, support system, and safety and security system. Offering various levels of height and various levels of difficulty and appealing to individuals of all ages, rope courses are different than the known playground equipment as their access is limited and they require supervision.

Total user capacity: 32 people including 20 people on Platform (balcony) **Number of Elements:** 12 **Security Area:** 15m*21m

THEMING OPTIONS

Jungle Theme



THEMING OPTIONS

Pirates Theme



RIDE'N SPLASH



Polin's new attraction has been expertly designed with every aspect of easy installation in mind. But the ride also offers park operators multiple opportunities to personalize it to fit within their park's specific theming and infrastructure. From colors to branding, a park operator can match the ride to their facility's exact atmosphere.

Polin's engineering team developed the ride's meticulous design as six sections that fit together to deliver a figure-8 of fantastic fun:

- A boarding/disembarkation station
- A concrete water-flow channel
- A lift conveyor
- An elevated trough
- A down ramp
- A run-out section.



The Ride'n Splash comes supplied with specially designed fiberglass boats that perfectly match the attraction's unique configuration.

AN AUTOMATED, SELF-REGULATING YET CAREFULLY SAFEGUARDED EXPERIENCE

Each ride begins at the station where guests both board and disembark from the boats. From there, the boats automatically are dispatched into the concrete water-flow channel and propelled by pump-powered water to the lift conveyor. The conveyor raises the boats and then releases them into the elevated trough before moving them to the down ramp.

Once boats begin their journey downward, they accelerate via gravity before splashing down into the run-out, where they decelerate and proceed to the station. The boats automatically are guided onto the station's conveyor via the concrete water-flow channel, and the process is repeated.

During the attraction's automated-mode operations, a ride-control system (RCS) actively monitors all boats and ride locations. The system may be stopped manually or automatically, as needed, in three sections: station, lift and elevated trough. At the station, operators can start and stop all movement to allow guest loading and unloading. In the lift and elevated-trough sections, operators — or the automated system — may start and stop the ride to ensure that only one boat is traveling from the down ramp to the run-out exit section.

The lift conveyor is also equipped with a safety mechanism — an anti-roll back (ARB) system — to prevent boats from slipping backward in the event of a belt failure.

	Mini	Midi	Maxi
Length	100-150 meters (328.08 – 492.13 ft)	150-250 meters (492.13 – 820.21 ft)	250-500 meters (820.21 – 1640.42 ft)
Approximate ride duration	200 seconds	350 seconds	650 seconds
Riders per boat (adults)	2-3*	2-6	2-18
Number of boats	6	6-8	6-10
Maximum water velocity	0.90 meters/sec (2.95 fps)	0.90 m/s (2.95 fps)	0.90 m/s (2.95 fps)
Total energy consumption	40 kW	60 kW	100 kW
Down ramp quantity	1	1-2	1-3
Down ramp height	4-6 meters (13.12 – 19.69 ft)	4-8 meters (13.12 – 26.25 ft)	4-10 meters (13.12 – 32.81 ft)

SPECIFICS FOR RIDE'N SPLASH SECTIONS

Station:

At the station, passengers board and disembark the boats. The station consists of a continuously running, variable-speed, chain conveyor with a concrete platform on each side. The speed of the station conveyor is adjustable to allow guests to disembark to the unloading platform and new guests to board from the loading platform.

Channels:

Boats are propelled via flowing water in the concrete water-flow channel with guides at the lift-conveyor entry to ensure they efficiently begin their upward path.

Lift conveyor:

The lift-conveyor section of the Ride'n Splash is a continuous belt-type conveyor that raises each boat to a 25-degree incline and releases it into the elevated trough. The lift section is equipped with a motor brake and anti-rollback arms to prevent boats from slipping backwards.

Safety features:

A small chain conveyor or an electric motor-driven wheel-drive system acts as the ride's brake, holding and releasing the boats onto the lift conveyor as needed. A photo eye and float sensors, which are installed in strategic spots throughout the ride, can be used to monitor and activate the brake systems during normal operation.

Elevated trough:

The elevated trough consists of a raised, galvanized-steel channel that spans the lift conveyor and the top of the down ramp. Boats are propelled down through the elevated trough by gravity.

Down ramp:

The down ramp is manufactured from galvanized-steel, wide-flange beams, with drip pans and side skirts. These devices provide the rails and guide for the boats as they roll down. "Show water" cascades over diffusers on the down ramp to create the illusion of a waterfall. The down ramp has a slope of 35 degrees with a drop of app.

Run-out-rail assembly:

The system's run-outs consist of galvanized-steel guide rails bolted to the floor of the trough. The running surfaces of the rails are partially submerged and set to allow the boat to gradually slow and re-float at the end of the run-out. Side-wall guides are attached to the running rails to guide the boat through the run-out.

Boats:

Ride'n Splash boats are fiberglass amphibious vehicles. When a boat is in one of the trough sections, it is afloat. The boat then uses "road wheels" to travel through the elevated trough, down the ramp and into the run-out. The guide wheels of the boat remain active throughout the course of the ride.

The boat rests on its bottom — covered with a replaceable section of conveyor belting — when it is on a conveyor or lift. The front and rear of each boat is protected by bumpers, while its sides are protected by wear strips. Steel ratchet bars on the sides engage the anti-rollback arms on the conveyors as needed.

Ride-control system:

Position sensors installed in several places along the system monitor the position of the boats at all times. The ride's water level is also monitored continuously via the use of float sensors. The system's ride-control system manages the system's brakes and pumps with signals via sensors but can also be easily manipulated via operator consoles.



**VR
Version
Available**



BOAT RIDE

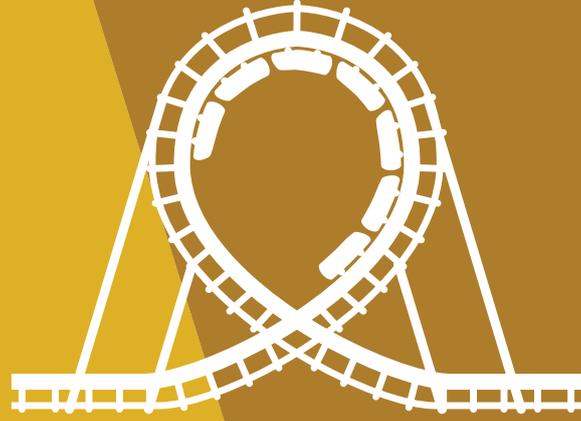


System	
System Size	41 m x 30 m
Path Length	149 m
Conveyor Length	12
Capacity	24 riders/hour

Boats	
Diameter	2210 mm
Height	838 mm
Material	Fiberglass Reinforced
Numbers of Boats	8
Number of Users	Max. 4 for each boat
Weight Capacity	Total 360 kg for each boat



**VR
Version
Available**



PolinAttractions



T +90 262 656 64 67 F +90 262 656 64 75 M +90 543 686 58 92 Gebkim OSB Refik Baydur Cad. No:6 41480 Dilovasi / Kocaeli, TURKEY

polin.com.tr      polinwaterparks

polin@polin.com.tr

Polin Attractions is a **Polin Group** Company