



abc rides  
switzerland



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OVERVIEW**  
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**WATER  
RIDES**

**THRILL  
RIDES**

**TRACK  
RIDES**

**TOWER  
RIDES**

**FAMILY  
RIDES**

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## BOAT RIDES

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## BOAT RIDES

TOW BOAT RIDE

### TECHNICAL SPECIFICATION

Ground space	*
Chanel length	*
Speed	0.7 m/s
Number of boats	*
Passengers per boat	2 - 12
Dispatch	35 sec.
Theoretical capacity	900 pph (9 p)
Size restrictions	>125cm (alone), >90cm (accomp. by a resp. adult)



(\*) According to customer layout or dimensions, but within technical limits and safety regulations. All data are approximate and subject to adjustments during the final engineering.

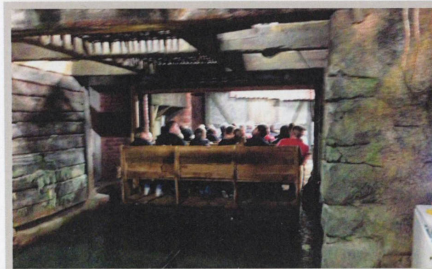
## BOAT RIDES

INTERACTIVE BOAT RIDE

### TECHNICAL SPECIFICATION

Ground space *	50 x 55 m
Chanel length *	180 m
Speed	1 m/s
Number of boats	8
Passengers per boat	4
Number of water guns	3 per boat
Ride time	140 sec.
Theoretical capacity	576 pph
Size restrictions	>125cm (alone), >90cm (accomp. by a resp. adult)

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## BOAT RIDES

### INTERACTIVE ROUNDBOAT RIDE

#### TECHNICAL SPECIFICATION

Ground space *	32 x 58
Length *	210 m
Lift height	3.2 m
Down chute height	3.2 m
Number of boats	6
Passenger per boat	4
Ride time	180 sec.
Dispatch interval	45 sec.
Theoretical capacity	320 pph
Size restrictions	>135cm (alone), >105cm (accomp. by a resp. adult)

## BOAT RIDES

### RAFT RIDE

#### TECHNICAL SPECIFICATION

Ground space *	customer layout
Raft length *	12 m
Deflection pulleys	2
Number of rafts	1
Passengers per raft	6 x 6
Speed of raft	0.2 m / sec.
Ride time	180 sec.
Dispatch interval	300 sec
Theoretical capacity	450 pph
Size restrictions	>125cm (alone), >90cm (accomp. by a resp. adult)

## RAFTING RIDES





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## RAPIDS RIDES

### Canyon Rafting / Straight Station

#### TECHNICAL SPECIFICATION

Ground space *	customer layout
Length *	470 m
Height of lift	3,5 m
Type of station	1 straight station (in 3 sections)
Number of boats	12
Passengers per boat	6 persons
Ride time	210 sec.
Dispatch time	20 sec.
Theoretical capacity	1080 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)

## RAPIDS RIDES

### Canyon Rafting / Turntable

#### TECHNICAL SPECIFICATION

Ground space *	customer layout
Length *	414 m
Height of lift	3,5 m
Type of station	1 turntable
Number of boats	15
Passengers per boat	6-9 persons
Ride time	210 sec.
Dispatch time	22 sec.
Theoretical capacity	935-1400 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)



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## RAPIDS RIDES

### River Splash / Vertical Lift

#### TECHNICAL SPECIFICATION

Ground space *	33 x 56 m
Total length *	218 m
Steel channel length	150 m
Total height	17 m
Lift height	13.5 m
Type of station	1 straight station
Number of boats	4
Passengers per boat	9 persons
Ride time	120 sec.
Dispatch time	48 sec.
Theoretical capacity	675 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)

## RAPIDS RIDES

### River Splash / Inclined Lift

#### TECHNICAL SPECIFICATION

Ground space *	50 x 101 m
Total length *	502 m
Steel channel length	210 m
Total height	20 m
Lift height	18 m
Type of station	1 straight station
Number of boats	8
Passengers per boat	8 persons
Ride time	200 sec.
Dispatch time	33 sec.
Theoretical capacity	864 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)

## FLUME RIDES

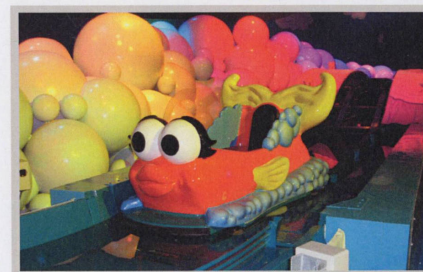
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## FLUME RIDES

BABY FLUME



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### TECHNICAL SPECIFICATION

Ground space *	17 x 30 m
Length *	89 m
Number of boats	8
Passengers per boat (with Baby seat)	2 kids or 1 Baby + 1 kid)
Speed	0.5 m/sec.
Ride Time	180 sec.
Dispatch	25 sec.
Theoretical capacity	288 pph
Size restrictions	<140cm max. 35kg

## FLUME RIDES

MINI FLUME

### TECHNICAL SPECIFICATION

Ground space *	16 x 28 m
Length *	105 m
Lift height	3.8 m
High section length	8.8 m
Down chute height	3.4 m
Number of boats	4 - 7
Passengers per boat	3 kids or (1 adult + 1 kid)
Ride time	130 sec.
Theoretical capacity	240 - 490 pph
Size restrictions	>125cm (alone), >90cm (accomp. by a resp. adult)

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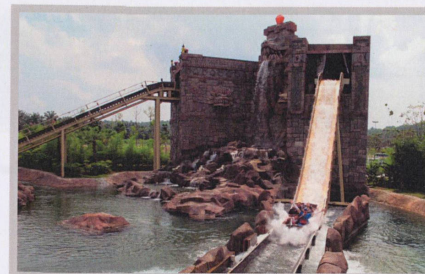
## SPLASH RIDES



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## SPLASH RIDES

Flume Ride

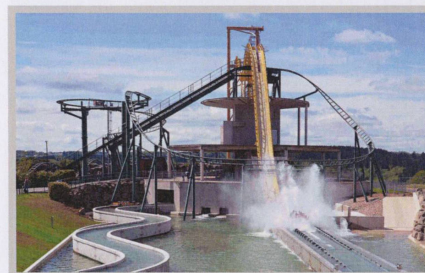


### TECHNICAL SPECIFICATION

Ground space *	15 x 45 m
Length *	220 m
Lift height	11 m
Down chute	40°
Number of boats	9
Passengers per boat	5
Ride time	150 sec.
Dispatch	19 sec.
Theoretical capacity	910 pph
Size restrictions	>135cm (alone), >110cm (accomp. by a resp. adult)

## SPLASH RIDES

Big Splash



### TECHNICAL SPECIFICATION

Ground space *	110 x 40 m
Length *	240 m
Total height	35 m
Vertical lift height	24 m
Down chute	56°
Speed	max. 75 km/h
Number of boats	4
Passengers per boat	6
Ride time	220 sec.
Theoretical capacity	400 pph
Size restrictions	>135cm (alone), >110cm (accomp. by a resp. adult)

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## SPLASH RIDES

Grand Flume with back chute

TECHNICAL SPECIFICATION	
Ground space	*
Length	*
Lift height	*
Lift type	*
Down chute	*
Turntable	* (Ø 3.5 m each)
Number of boats	*
Passengers per boat	8
Theoretical speed in channel	*
Ride Time / Dispatch	*
Theoretical capacity	*
Size restrictions	>135cm (alone), >110cm (accomp. by a resp. adult)

## SPLASH RIDES

Compact Splash

TECHNICAL SPECIFICATION	
Ground space	*
Length	*
Lift height	*
Lift type	*
Down chute	*
Number of boats	*
Passengers per boat	5
Theoretical speed in channel	*
Ride Time	*
Dispatch	*
Theoretical capacity	*
Size restrictions	>135cm (alone), >110cm (accomp. by a resp. adult)

## TOURBILLON

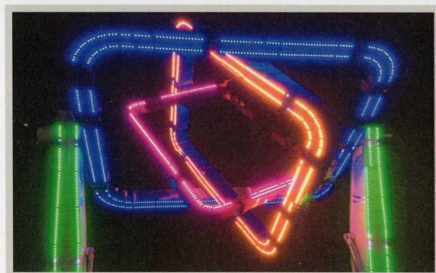
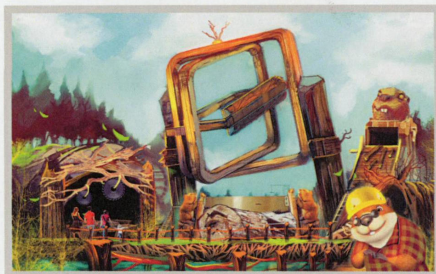
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## TOURBILLON

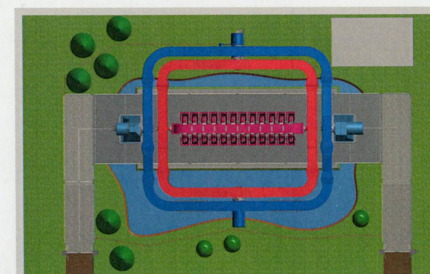
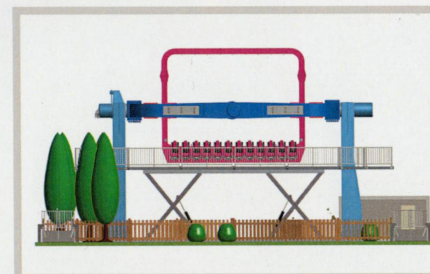
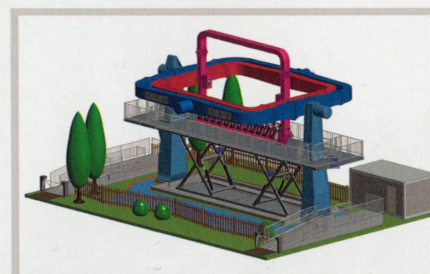
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### TECHNICAL SPECIFICATION

Ground space	20m x 16m
Total ride height (in motion)	20.5m
Number of vehicle/gondola	1
Number of seats	24 (2 x 12)
Rotation speed between	4 to 12 rpm
G-Forces	max. 3.5 G
Load / Unload time	45 sec.
Ride time *	P1: 50 sec. P2: 75 sec.
Total cycle time	according to ride P time
Size restrictions	1.35m - 1.95m
Theoretical capacity	P1: 910 pph P2: 720 pph

(\*) Programmable speed and rotation within technical limits and safety regulations

All data are approximate and subject to adjustments during the final engineering



## TOURBILLON - light

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### TECHNICAL SPECIFICATION

Ground space	22m x 16m
Height (load/unload)	11m
Total ride height (in motion)	14m
Number of vehicle/gondola	1
Number of seats	24 (2 x 12)
Rotation speed between	4 to 12 rpm
G-Forces	max. 3.5 G
Platform lift up	5 sec.
Load / Unload time	50 sec.
Ride time *	60 sec.
Platform descend	5 sec.
Total cycle time	120 sec.
Theoretical capacity	720 pph
Size restrictions	1.35m - 1.95m
Power requirement	3x400V; 50Hz; 250kVA; 200kW; 400 A

(\*) Programmable speed and rotation within technical limits and safety regulations

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## TRACTOR RIDE

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## TRACTOR RIDE

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### TECHNICAL SPECIFICATION

Ground space *	81 x 33 m
Ride length *	218 + 37 m
Inclination / Slope	max. 4% / 6%.
Speed (gas pedal)	max. 8 km/h
Number of tractors	8
Passengers per tractor	2 children + 2 adults
Dispatch interval	25 sec.
Ride time	150 sec.
Theoretical capacity	576 pph
Power requirement	14 kW / 35 A
Motor per tractor	2,2 kW / 48 V
Size restrictions	>110cm (alone), <110cm (accomp. by a resp. adult)

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## TUBE COASTER



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## TUBE COASTER



### TECHNICAL SPECIFICATION

Ground space *	49 x 78 m
Ride length *	310 m
Start height	14 m
Number of trains *	3
Number of vehicles	2 double bobs / train
Passengers per bob.	3 children (or 1 adult and 1 child)
Speed	max. 50 km/h
Ride time	50 sec.
Dispatch	35 sec.
Theoretical capacity	600 pph
Size restrictions	>130cm (alone), >110cm (accomp. by a resp. adult)

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## DYNAMIC SWING GLIDER

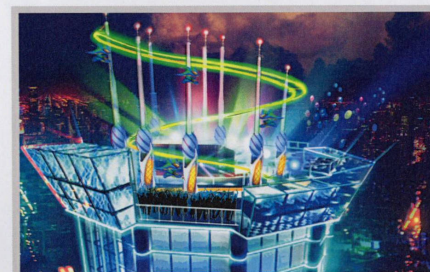
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## DYNAMIC SWING GLIDER

INDOOR & OUTDOOR



### TECHNICAL SPECIFICATION

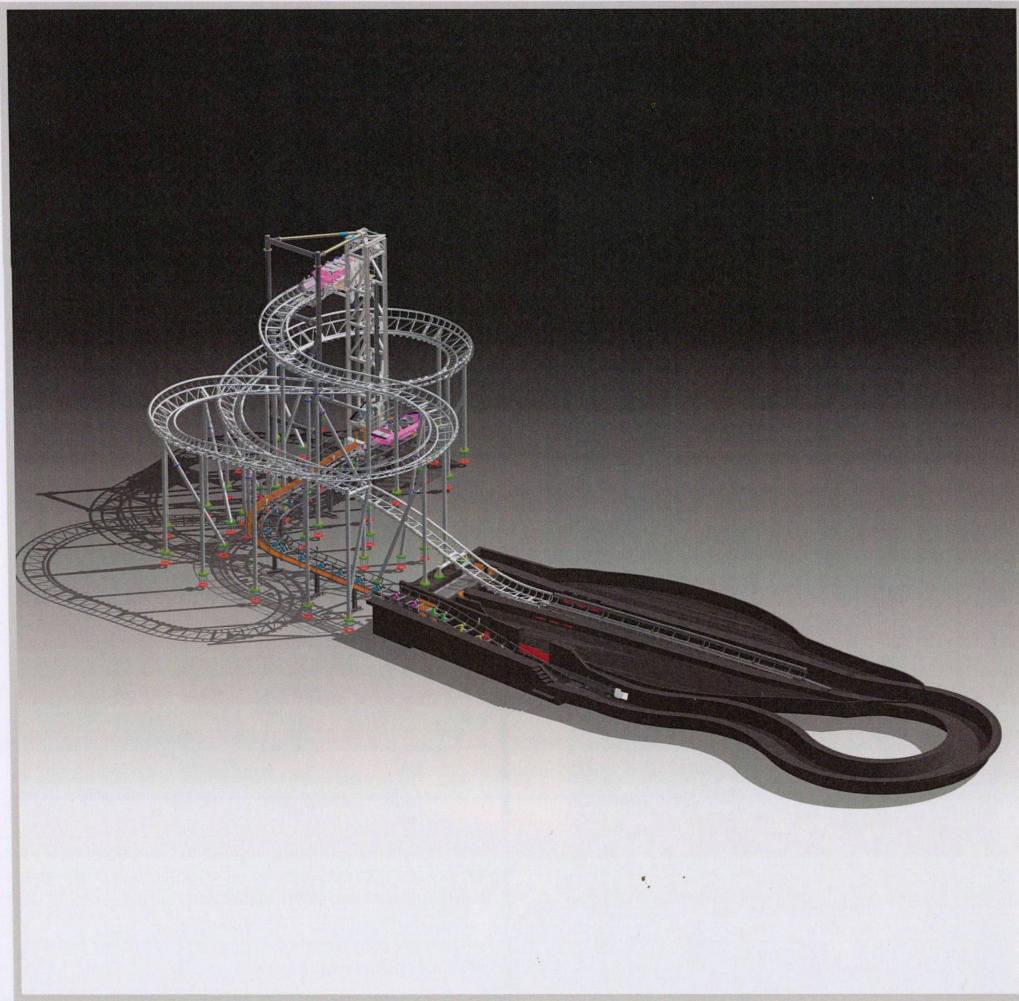
Ground space	*
Length of ride	*
Minimal curve size	8m (Rmin)
Slope	max. 8°
Impulsion	on board friction wheels
Number of gliders	*
Passenger per glider	4
Travel speed of glider	max. 45 km/h
Dispatch time	*
Ride time	*
Theoretical capacity	*
Size restrictions	>130cm (alone), >105cm (accomp. by a resp. adult)

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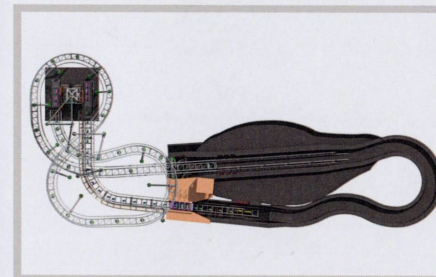
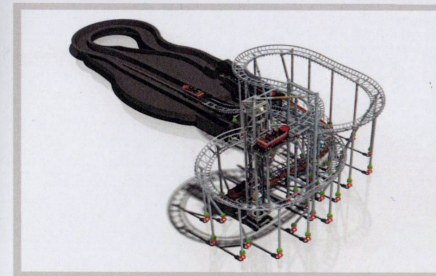
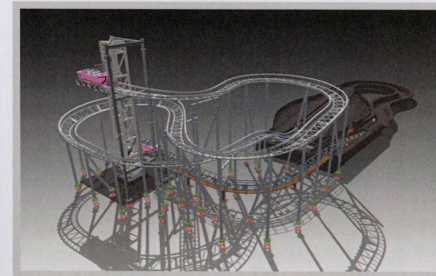
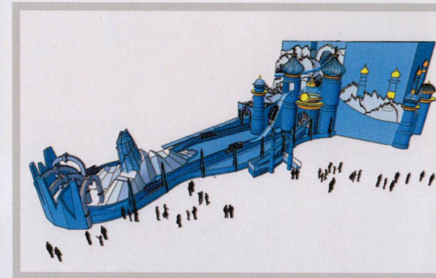
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## WATER COASTER



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## WATER COASTER



### TECHNICAL SPECIFICATION

Ground space *	70 x 31 m
Ride length *	255 m
Lift height *	17 m
Number of vehicles	7
Passengers per vehicle	6
Speed - concrete channel	1 - 2 m/s
Speed - coaster track	max. 12.5 m/s
Speed - Lift	0.5 m/s
Ride time (without un-/loading time)	150 sec.
Dispatch	40 sec.
Theoretical capacity	790 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)

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## TOWER RIDES

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## TOWER RIDES

IRT-16 (Interactive Rotating Tower)



### TECHNICAL SPECIFICATION

Ground space	Ø 12 m
Clearance in operation	Ø 17.5 m
Total height *	20 m
Lift height	11 m
Lift speed	0.5 m/sec
Number of gondolas	8
Number of passengers	2 per gondola
Un-/Loading time	30 sec
Ride time	60 - 90 sec
Theoretical capacity	480 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)

## TOWER RIDES

MultiMotion Tower



### TECHNICAL SPECIFICATION

Ground space	min. 6.5 x 6.5 m
Total height *	max. 14 m
Lift height	max. 11 m
Lift speed	3 m/sec - freefall
Number of gondolas	1
Number of passengers	8/10 per gondola
Un-/Loading time	30 sec
Ride time	60 - 90 sec
Theoretical capacity	320 - 360 pph
Size restrictions	>125cm (alone), >110cm (accomp. by a resp. adult)

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## TOWER RIDES

Freefall / Dark Tower

### TECHNICAL SPECIFICATION

Ground space	min. 7 x 8 m
Total height *	8 m
Lift height	7 m
Lift speed	1 m/sec
Number of gondolas	2 (back to back)
Number of passengers	10 per gondola
Un-/Loading time	30 sec
Dispatch	90 sec
Ride time	60 - 90 sec
Theoretical capacity	800 pph
Size restrictions	>130cm (alone), >110cm (accomp. by a resp. adult)

## TOWER RIDES

Dynamic Tilt Tower

### TECHNICAL SPECIFICATION

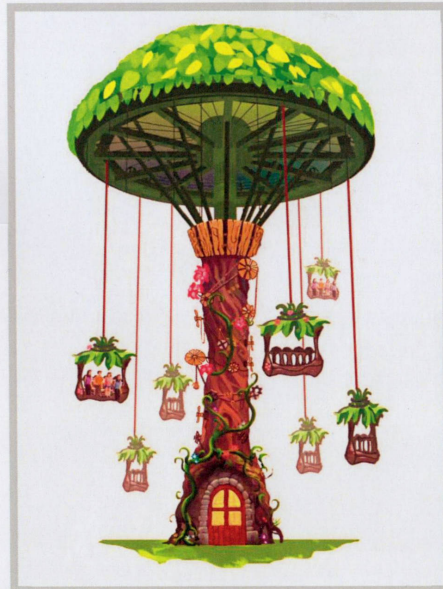
Ground space	min. 6.5 x 6.5 m
Total height *	max. 14 m
Lift height	max.11 m
Lift speed	3 m/sec - freefall
Number of gondolas	1
Number of passengers	8/10 per gondola
Un-/Loading time	30 sec
Ride time	60 - 90 sec
Theoretical capacity	320 - 360 pph
Size restrictions	>125cm (alone), >105cm (accomp. by a resp. adult)

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## INTERACTIVE ROTATING TOWER



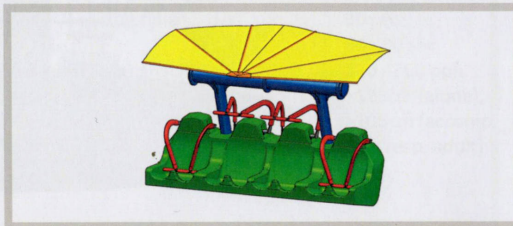


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## IRT-48 (INTERACTIVE ROTATING TOWER)

### TECHNICAL SPECIFICATION

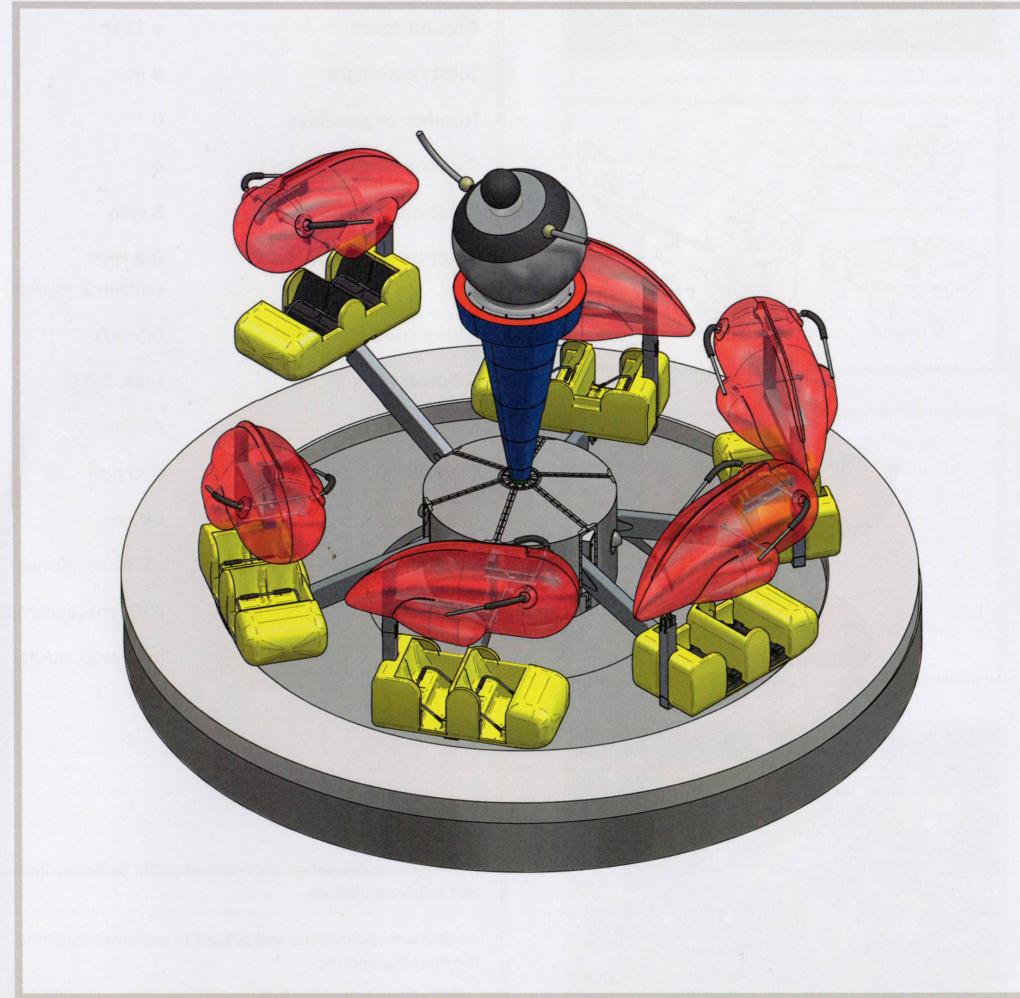
Ground space *	Ø 34 m
Overall height of the attraction *	25 m
Travelling height of gondola	16.2 m
Number of gondolas	12
Passengers per gondola	4
Rotation speed Carousel Mode	1,5–4,5 rpm
Rotation speed Interactive Mode	1,5–3,8 rpm
Max. raising speed (upwards)	1.2 m/sec
Max. lowering speed (downw.)	1.2 m/sec
Max. creeping speed	0.5 m/sec
Ride time automated	50 sec.
Ride time self-controlled	40 – 100 sec.
Theoretical capacity	960 - 1152 pph
Size restrictions	>140cm (alone), >120cm (accomp. by a resp. adult)



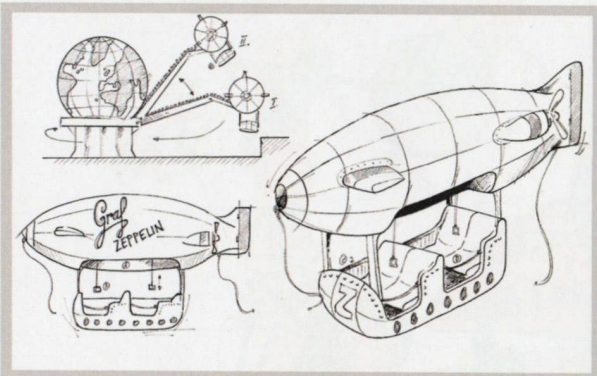
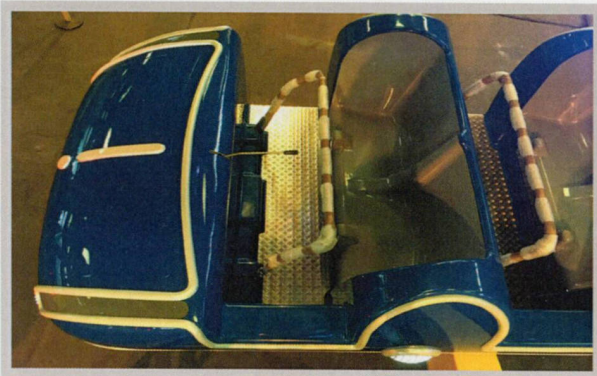
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## INTERACTIVE ROUND RIDE

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## IRR - 24

### INTERACTIVE ROUND RIDE

#### TECHNICAL SPECIFICATION

Ground space	Ø 11 m
Total ride height	9 m
Number of gondolas	6
Passengers per gondola	4
Rotation speed	8 rpm
Rotation acceleration	0-8 rpm (within 2 rounds)
Lifting speed	0.5 m/s
G-Forces	max. 1.5 G
Dispatch	45 sec.
Theoretical capacity	640 pph
Ride time *	90 sec.
Size restrictions	>120cm (alone), >105cm (accomp. by a resp. adult)

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