



Technical specification of:

Soli Bumper Cars and tracks



this image is an example

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Cars models:

- Junior
 - Mid-Size
- Adult
- Maxxi

Building and Floor:

- Floor Pick-up System (FPU)
- Over Head System (OHS)



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Size & Models

Bumper cars are available in four different size and more different **models**:

1. Junior

Proxima junior
 Animals
 Moto go (motorbike)
 Xixa junior
 Mini Classic
 Sport 1

- Sphera

2. Mid-Size

Hypnos - Charlie
 Sport 1 - Sphera
 VM5 - NK-Midsize

3. Adult

Proxima Adv
Xixa 2000
French taxi
Grand prix
Charlie
Proxima
Buggy
The tiger
Sport 1

- NK.01

4. Maxxi

Maxxi

There are two different kind of floor:

1. Miniscooter: for junior and mid-size cars

2. Autoscooter: for adult cars and maxi cars

And two power supply system:

1. Floor Pick-up System (FPU)

2. Over Head System (OHS)

Note: junior and mid-size cars can work together adult and maxxi cars can work together

Drifting system:

Optional



This system can be easily installed on the adult bumper cars (all models) For the mid-size bumper car it must be required at time of order

Blue Lights under the car:



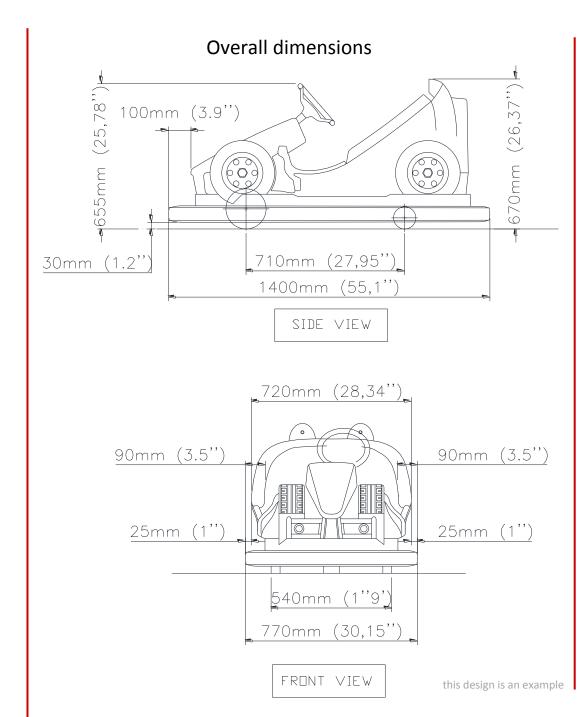
This system can be easily installed on the adult bumper cars (all models)

Lights on the bumper cars floor:



It is possible choose RGB lights or white lights





Junior Car

TECHNICAL DATA

Weight	120 kg / 1,18 kN
Capacity	2 children
Size requirements	Minimum 5 sq m / 53.8 sq ft
	Recommended 7.5 sq m / 80.7 sq ft
Shipping Volume	29 cars in 1x20' box

ELECTRICAL SPECIFICATION

Motor power	0.5 kW
Work's tension	40 - 60 V dc

POWER SUPPLIED SYSTEM

floor pick-up (FPU)
over head (OHS)

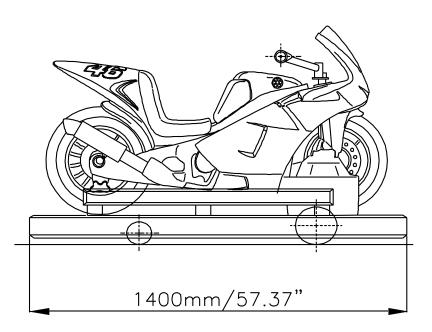
SPECIAL FEATURES

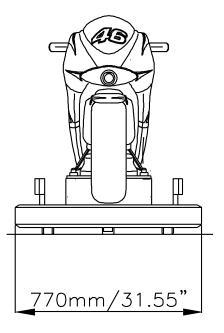
steel chassis painted with epoxidy powders
reinforced fiberglass body
standard bumper tyre
Safety belts
teeth protector

MAIN OPTIONS

WAIN OF HONS
colours at request
head protection pad (OHS only)
token mechanism
Rotating brush (OHS only)
PASSENGERS RESTRICTIONS:
Age: minimum 4 year old not accompanied by an adult
Height: minimum 105 cm not accompanied by an adult
Height: maximum 140 cm







this design is an example

Mini Moto

TECHNICAL DATA

Weight 102 kg / 1 kN	
Capacity	1 child
Size requirements	Minimum 5 sq m / 53.8 sq ft
	Recommended 7.5 sq m / 80.7 sq ft
Shipping Volume	20 cars in 1x20'box
Noise	< 80 db

ELECTRICAL SPECIFICATION

Motor power	0.5 kW
Work's tension	40 – 60 V dc

POWER SUPPLIED SYSTEM

floor pick-up (FPU) over head (OHS)

SPECIAL FEATURES

steel chassis painted with epoxidy powders
reinforced fiberglass body
standard bumper tyre
Safety belts

MAIN OPTIONS

colours at request
head protection pad (OHS only)
token mechanism

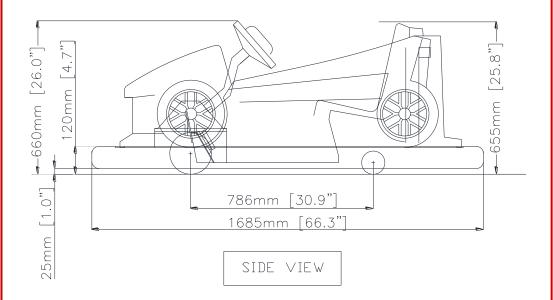
PASSENGERS RESTRICTIONS:

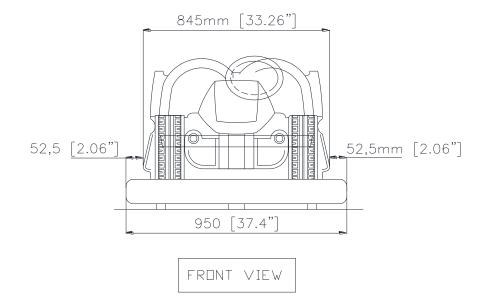
Age: minimum 5 year old

Height: minimum 110 cm - maximum 140 cm

Bumper Cars since 1929

Overall dimensions





this design is an example

Mid-Size Car

TECHNICAL

DATA	
Weight	138 kg / 1.35 kN
Capacity	1 adult and 1 children / or 2 children
Size requirements	Minimum 7.5 sq m / 80.7 sq ft
	Recommended 9.5 sq m / 102.25 sq ft
Shipping volume	12 cars in 1x20'box
Noise	< 80 db

ELECTRICAL SPE	CIFICATION	POWER SUPPLIED SYSTEM
Motor power	0.5 kW	floor pick-up (FPU)
Work's	40 - 60 V	over head (OHS)
tension		
SPECIAL FEATU	RES	MAIN OPTIONS
steel chassis gal	vanized and nainted	colours at request

SPECIAL FEATURES	MAIN OPTIONS
steel chassis galvanized and painted	colours at request
with epoxidy powders	
reinforced fiberglass body	revolving brush (OHS only)
mid-size tyre	head p\rotection pad (OHS only)
Safety belts	token mechanism
Rubber carpet	interactive laser gun system
teeth protector	Drifting frame

PASSENGERS RESTRICTIONS:

Age: minimum 6 years Height: minimum120 cm

Not Accompanied by an adult

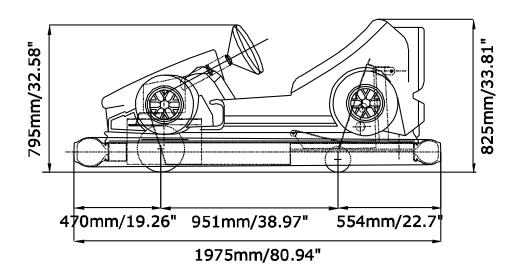
Maximum height 170 cm suggested

Children high over 90 Cm (2 years old) as a passengers and accompanied by an adult only if speed selector is set at first allowable speed (≤40V First gear in the control unit).

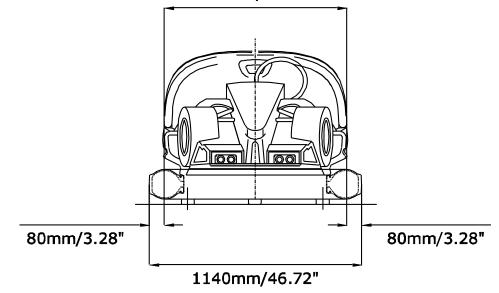
Minimum passenger age 5 year and 110 cm without any speed limits accompanied by an adult.



Overall dimensions



980mm/40.16"



this design is an example

Adult Car

TECHNICAL DATA	TE	CH	N	ICAL	DA ₁	ГА
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Weight	265 kg / 2.59 kN
Capacity	2 adults
Size requirements	Minimum 9 sqm/ 96.84 sq ft
	Recommended 12.5 sq m / 134.5 sq ft
Shipping volume	8 cars in 1x20'box
Noise	< 80 db

ELECTRICAL SPECIFICATION

Motor power	max 1 kW
Work's tension FPU	40 - 60 V dc
Work's tension OHS	70 – 120 V

POWER SUPPLIED SYSTEM	MAIN OPTIONS
floor pick-up (FPU)	colours at request
over head (OHS)	revolving brush (OHS only)
	head protection pad (OHS only)
SPECIAL FEATURES	token mechanism
steel chassis galvanized and painted	interactive laser gun system
with epoxidy powders	
reinforced fiberglass body	Drifting axle
Special tyre	Blue lights under the cars
Safety belts	Drifting frame
teeth protector	
rubber carpet	

PASSENGERS RESTRICTIONS:

Age: minimum 8 year old Height: minimum 130 cm

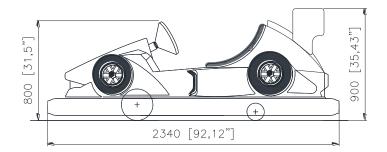
Not Accompanied by an adult

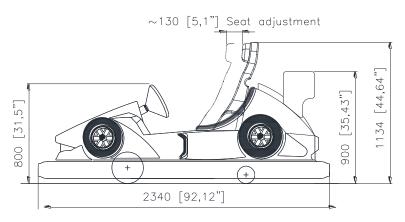
Minimum 4 years and 105 cm if accompanied only if the track is works at 1 (first) speed (<44V). Only as passengers.

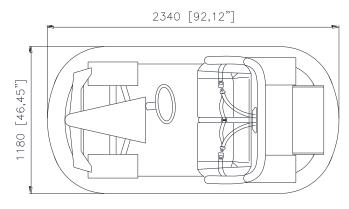
Minimum 6 years and 120 cm if accompanied only if the track is works at 3 (third) speed (\leq 51V).



Overall dimensions







this design is an example

Maxxi Car

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weight	300 kg / 2.94 kN
capacity	2 adults
size requirements	Minimum 9 sq m / 96.84 sq ft
	Recommended 12.5 sq m / 134.5 sq ft
Shipping volume	8 cars in 1x20'box
Noise	< 80 db

ELECTRICAL SPECIFICATION

motor power	max 1 kW
work's tension FPU	40 - 60 V dc
work's tension OHS	70 – 120 V

POWER SUPPLIED SYSTEM

floor pick-up (FPU) over head (OHS)

SPECIAL FEATURES

steel chassis galvanized and painted with epoxidy powders

reinforced fiberglass body

Adjustable seats

Special tyre

Safety belts

teeth protector

MAIN OPTIONS

colours at request

revolving brush

rubber carpet

head safer

token mechanism

interactive laser gun system

Drifting system

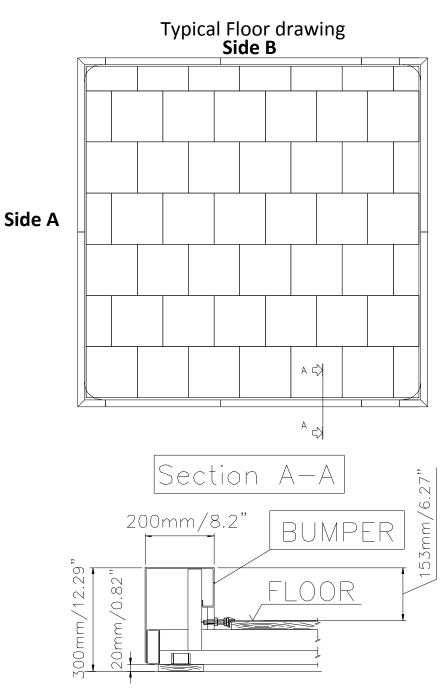
Blue lights under the cars

PASSENGERS RESTRICTIONS:

Age: minimum 10 year old

Height: minimum 140 cm





Scooter FPU (Floor Pick-up System)

MAIN FEATURES

Low-voltage power supply protection system Max 60V DC Standard plate floor

- 1.5 x 1.5 m / 4.92 x 4.92 ft
- 1.5 x 0.75 m / 4.92 x 2.46 ft

Plate floor thickness

- 18mm (mini-scooter)
 - 24mm (auto-scooter)

Plate floor are made from laser-cut steel plate and mounted on multiply wood panels (S235JR).

OPTIONS

Token unit

Stainless-steel floor of three types (AISI430 - AISI304 - AISI316)

Cold or Hot galvanized base

Platform with illuminated edge

Light integrated in the bumper rail

Special interactive devices

"Countdown" automatic system for controlling and managing without operator

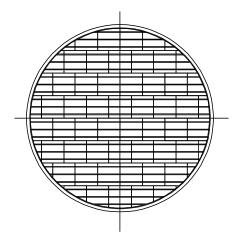
Power Transformer (Rectifier)

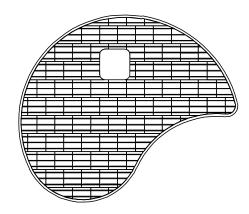
Cabin for operator

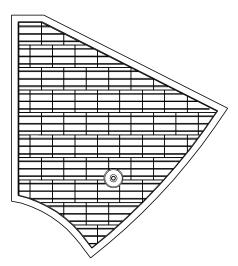
Motorized rotary brush with vacuum cleaner (for maintenance)

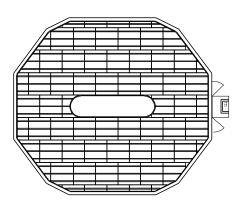
Custom dimension with not-standard plates











Example of custom made models

SPECIAL MODELS (example)

Shape	Outside dimension		Driving area Sq			Car's cap	acity	
	(A x B) mt	(A x B) ft	mt	Sq ft	Junior	Medium	Adult	Maxxi
Round	Diam 10,6	Diam 34,8	82	882	11	9	8	5
Oval	17 x 7,4	55,8x24,3	116	1248	16	12	12	7
Oval	10,5x13,8	34,4x45,3	135	1453	18	14	14	8
Octagonal	13,2x11,7	43,3x38,4	144	1549	20	15	14	9
Oval	12,5 x 16	41 x 52,5	146	1571	20	15	15	9
Oval	21 x 10	68,9x32,8	198	2130	27	21	20	12
Drop	18,3x15,6	60 x 51,2	260	2798	36	27	26	16

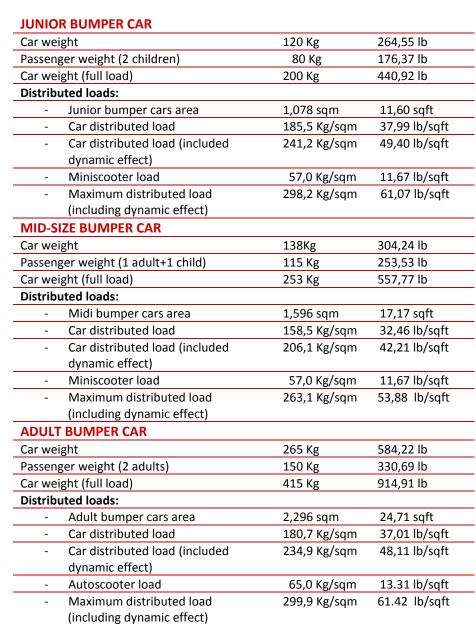
FPU dimensions and capacities

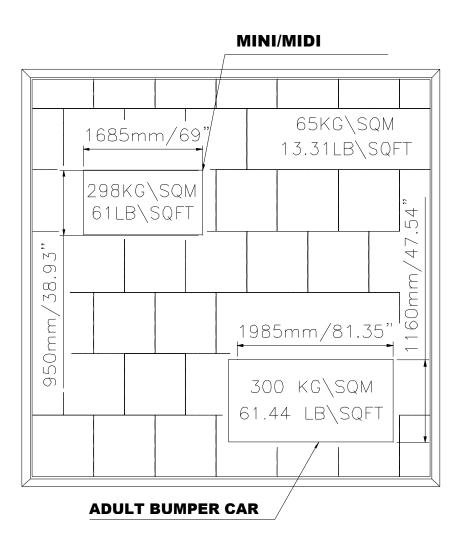
STANDARD MODELS

Outside (Outside dimension		Driving area		Car's capacity		
		Sq					
(A x B) mt	(A x B) ft	mt	Sq ft	Junior	Medium	Adult	Maxxi
4,7 x 7,9	15,4 x 25,9	31	336	4	3		
6,5 x 6,5	21,3 x 21,3	36	393	5	4		
6,2 x 9,4	20,3 x 30,8	52	560	7	5		
6,5 x 9,4	21,3 x 30,8	55	586	7	6		
7,2 x 9,7	23,6 x 31,8	61	656	8	6		
5,4 x 13,1	17,7 x 43	64	684	9	7	6	4
6,5 x 11,6	21,3 x 38	68	732	9	7	7	4
7,2 x 10,9	23,6 x 35,8	71	762	10	7	7	4
7,7 x 10,9	25,3 x 35,8	76	818	10	8	8	5
7,2 x 12,4	23,6 x 40,7	81	872	11	9	8	5
7,9 x 11,7	25,9 x 38,4	85	910	12	9	8	5
7,9 x 12,4	25,9 x 40,7	90	970	12	9	9	6
10,2 x 10,2	33,5 x 33,5	95	1022	13	10	10	6
11,1 x 9,7	36,4 x 31,8	100	1076	14	11	10	6
7,6 x 15,8	24,9 x 51,8	104	1123	14	11	10	7
10,9 x 10,9	35,8 x 35,8	110	1184	15	12	11	7
9,4 x 13,1	30,8 x 43	115	1234	16	12	11	7
10,1 x 12,4	33,1 x 40,7	117	1255	16	12	12	7
9,4 x 13,9	30,8 x 45,6	121	1302	17	13	12	8
10,9 x 12,4	35,8 x 40,7	126	1354	17	13	13	8
9,4 x 14,6	30,8 x 47,9	128	1377	18	13	13	8
15,4 x 9,4	50,5 x 30,8	135	1453	18	14	14	8
10,4 x 14,6	34,1 x 47,9	143	1539	20	15	14	9
16,1 x 10,1	52,8 x 33,1	153	1646	21	16	15	10
10,9x15,4	35,8 x 50,5	158	1695	22	17	16	10
10,1x18,3	33,1 x 60	175	1878			17	11
12,4x15,4	40,7 x 50,5	179	1929			18	11
12x20,2	39,4 x 66,3	218	2342			22	14
13x21,9	42,6 x 71,8	271	2911			27	17
18,2x18,2	59,7 x 59,7	295	3174			30	18



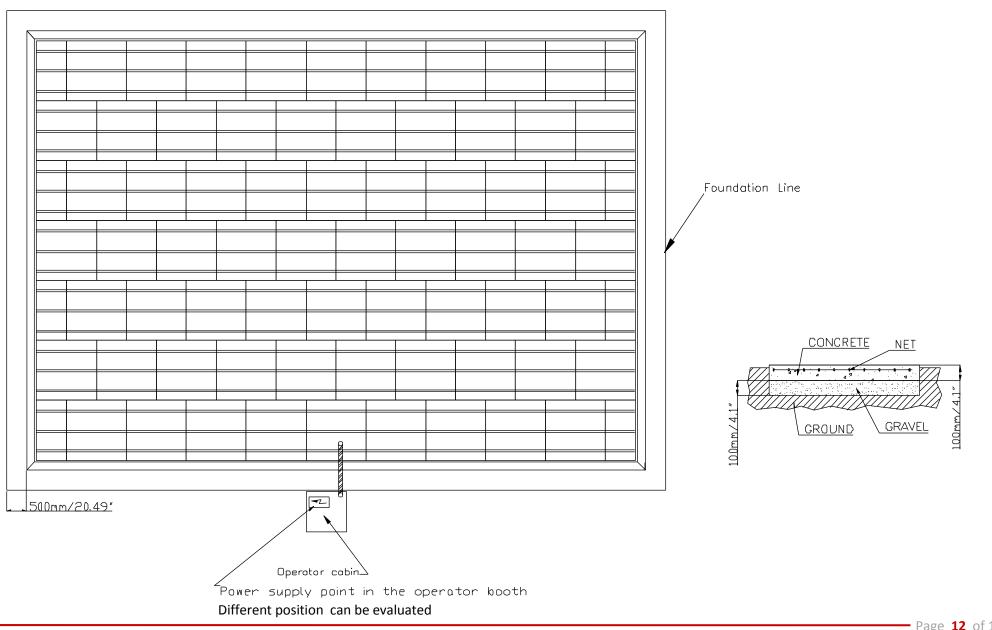
Weights & Loads





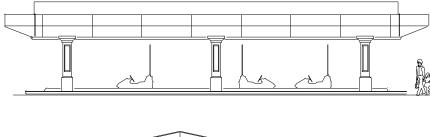


Foundations



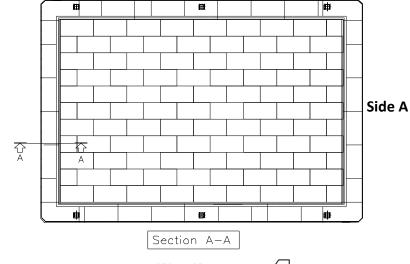








Floor drawing Side B



Scooter OHS (Over Head System)

MAIN FEATURES

Low-voltage power supply protection system	Max 120V DC
The floor is always connected to the negative pole	

Standard plate floor

- 1 x 2 m / 3.3 x 6.6 ft
- 1 x 1 m / 3.3 x 3.3 ft

Plate floor thickness

- 30mm (mini-scooter)
- 35mm (auto-scooter)

Plate floor are made from laser-cut steel plate and mounted on multiply wood panels

OPTIONS

Token unit

Stainless-steel floor

Hot galvanized base and roof structures

Surround platform with aluminum or rubber edge

Fronts with decorations and special lights

Columns with decorations and special lights

"Countdown" automatic system for controlling and managing without operator

Power Transformer (Rectifier)

Cabin for operator

Motorized rotary brush with vacuum cleaner

Special interactive devices



