



since 1988

Commercial offer

Giant Wheels

41m

55m

61m

71m

81m

91m

101m

with certification
according to
ISO 17842

April 2021

Panoramic wheel 128m in Ulsan, South Korea





Dear Sirs!

In recent years, the demand for giant Ferris wheels height from 150 m has significantly increased. But their cost is more than 100 million euros and this increases the payback period. We offer new technological wheels for an attractive price, which makes giant wheels very affordable and payback period 2-5 years!

Having experience in construction of 20 Ferris wheels, including 90m in Italy and 128 m in South Korea, we have developed a fundamentally new design of Ferris wheels with large cabins for various usage.

We are ready to sell these wheels, but it is more profitable for us to promote them in partnership with land owners in tourist zones around the world.

- We were established in 1988 and have been successfully operating in the world market since 1993. **We have created 108 modern amusement rides since 1988, including the largest Wheels for its time:** the largest in Europe 70 m Wheel in Moscow at the VDNH Expo, the largest in Europe 90 m Wheel in the park "Mirabilandia", Italy; the highest in Asia 128 m Wheel on the roof of a trade building in Ulsan, South Korea; the highest in Russia 80.2 m Wheel in Lazarevskoye Sochi, and 16 other Ferris wheels.
- In addition to our business, we manage international standardization and create for the market at our own expense safety standards of attractions ISO 17842 and GOST 33807.
- Our attractions work without breakage for decades, because we use high-quality steel and welding, European: transmissions, electrical equipment, fastening products, welding and painting materials!
- From 2016 to 2018 we have designed, patented and now offer you the new designs of light and rigid Panoramic Wheels – "Crystal" and "Wheel of the World". The wheels are characterized by a new modern design, high safety construction, resistance to III-V wind areas, **twice bigger size of air-conditioned cabins for various group events.** We do not use rubber tires that slip in the rain and frost - **we use a steel gear to engage with the fingers of the drive arc.**



Since 2017, our production base is Krasnogorsk plant JSC "Betsema"- Russian-Dutch joint venture. We invite customers to visit it at any convenient time.

Our new Wheels are two times lighter and more technological than that of competitors, so we can offer the **best quality for the best price on the market! mob. +7 903 7902872**

Sincerely yours, dr. **Vladimir Gnezdilov**, honored designer of the Russian Federation,
President of the Russian Association of amusement Parks and attractions, chairman of Technical Committee № 254 ISO,
([biography](#))

Giant panoramic wheels 101m-41m



Leisure Technical Consultants Ltd.

TYPE 'A' REGISTERED INSPECTION BODY

73 Crescent Road, Dukinfield, Cheshire, SK16 4EU Tel: 0161 351 9526;

e-mail: ltdi@ltdi.co.uk; www.ltdi.co.uk

To whom it may concern

23rd June 2017

Leisure technical Consultants, are a bon fide inspection company with offices in Manchester UK and United Arab Emirates, and have worked with Pax Company for a project in Dubai aiming to build a panoramic wheel of 170m in height. As a result of our working relationship with them, we were able to look into the calculations of the wheel design.

With this, we are optimistic that using the same technology, Pax Company is capable to design, manufacture and install a 255m wheel for the Middle East region in accordance with the requirements of ISO 17842 "Safety of Amusement Rides" standard.

We have known of the existence of Pax Company and its manufacturing ability as a legitimate company in the amusements rides industry and the international market. Also, we have worked with them in the creation of the new international standard on Safety of Amusement Rides.

For that reason, we would be please to take part as the 3rd party inspection body in the construction installation of the world's highest panoramic wheel in Kuwait.

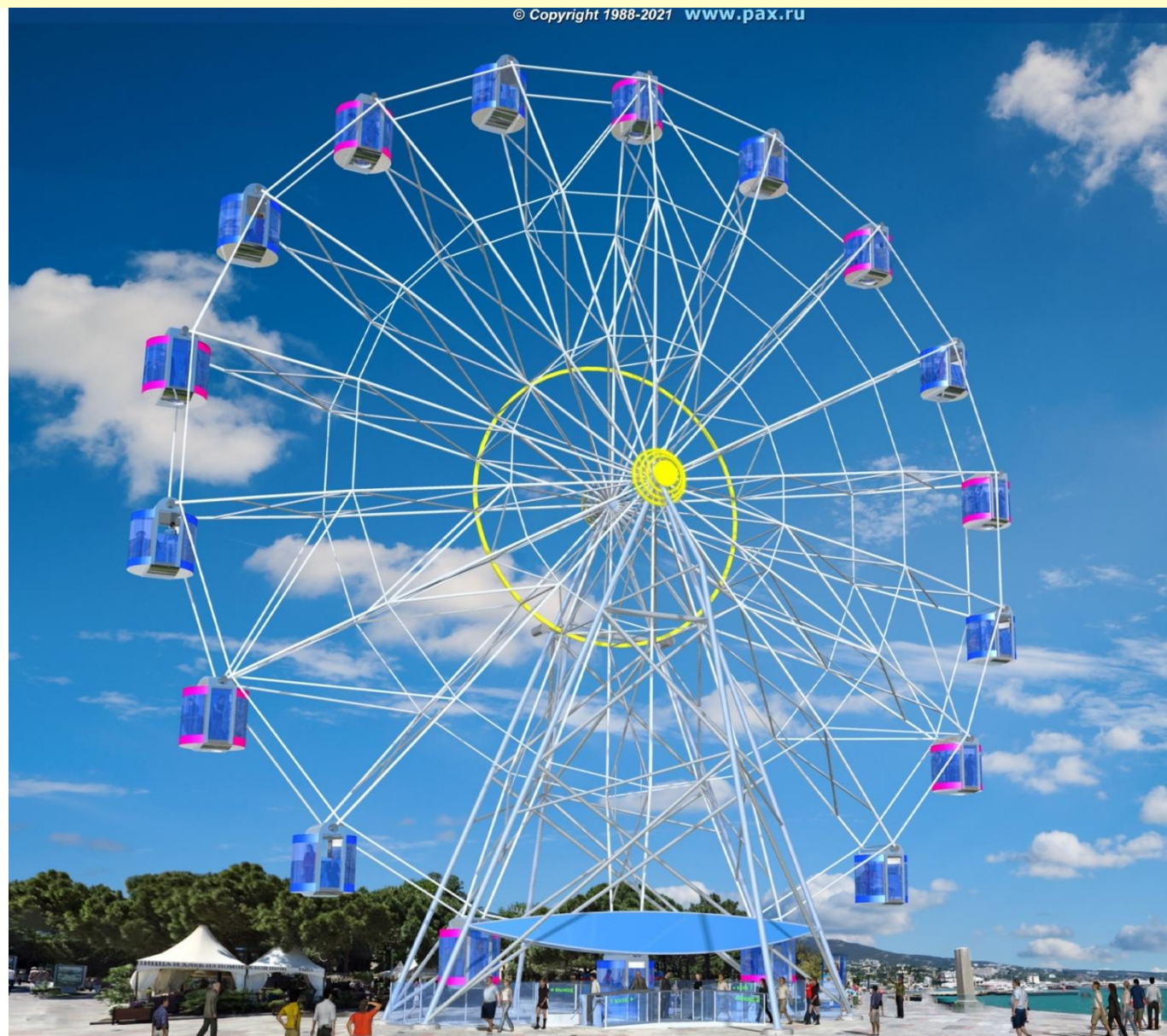
Best Regards

Robert F Nicholls

Managing/Technical Director of LTC Ltd



Giant panoramic wheels 101m-41m



Wheel 41m



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Wheel 55m



Wheel 61m



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Wheel 71m



Wheel 81m



Wheel 91m



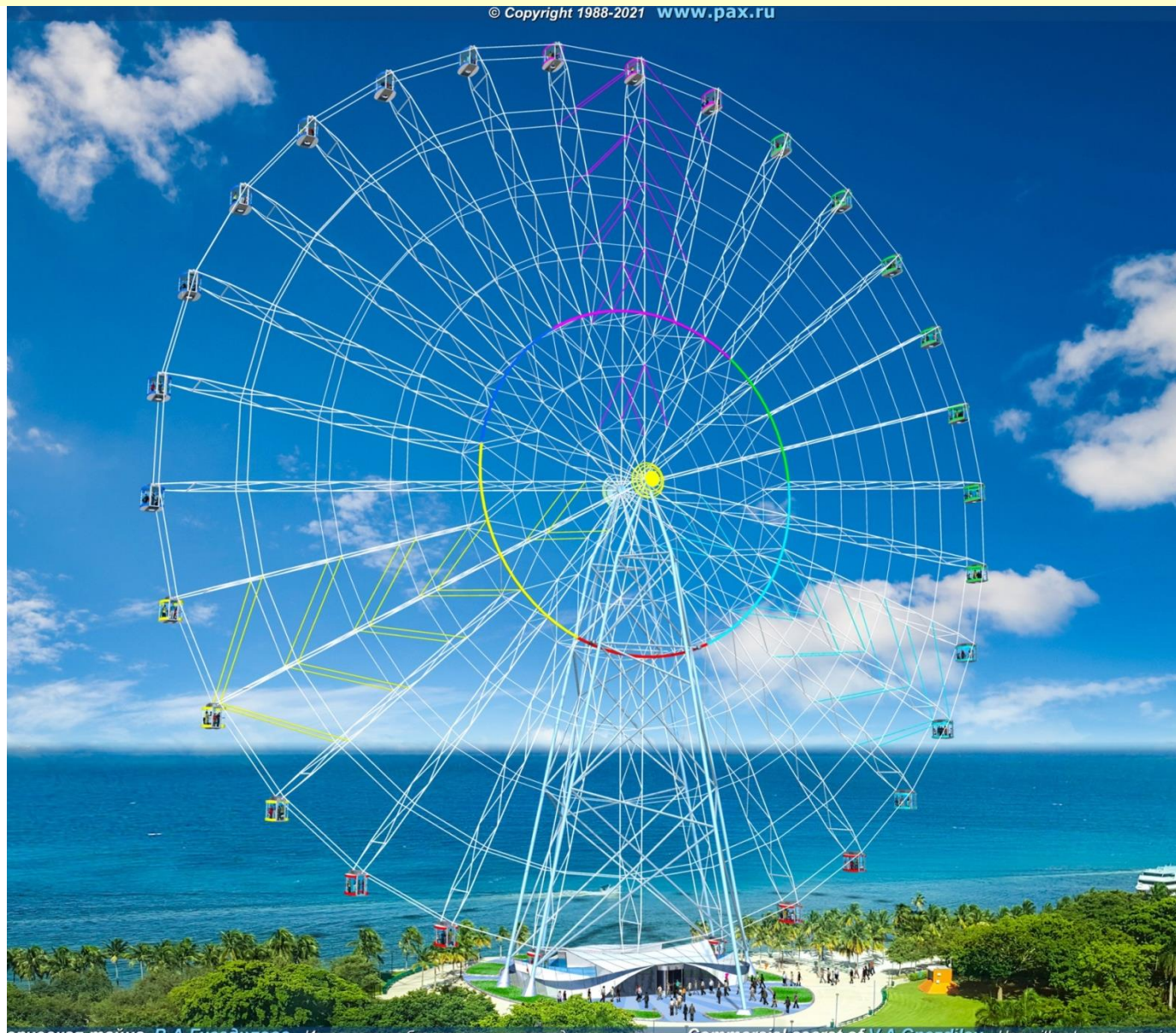
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Wheel 101m



Night View Wheel 91m



Station of a wheel 101m

Experience of Pax Group of Companies



520 facilities designed and built in Europe, Asia, and America for **30** years, since **1988**

- Over 108 major rides around the world.
- 212 telecommunications and TV towers up to 84 meters in height.
- “Moscow – 850” Panoramic Wheel 70m high- the highest in Europe in 1995.
- Panoramic Wheel 90 m in height for Mirabilandia park, Italy – the highest in Europe in 1998.
- Roller Coasters for Saudi Arabia, France (Parc Saint-Paul); Austria (Erlebnispark).
- Mobile Gantry for pre-launch preparation of "Soyuz-CT" launchers for Guiana Space Center, France in 2011. Up to 2014 there were 8 successful launches of Soyuz rockets.
- Set of containers for "Soyuz-CT" launchers transportation from Russia to Guiana Space Center.
- In 2012-13, ISO TC 254, which is headed by Vladimir Gnezdilov created 3 new world standards "Safety of amusement rides and amusement devices“.
- 2013 - the Russian and International Union of Scientific and Engineering Public Associations has awarded the specialists of Pax Design with the Golden Medal named after V.G. Shukhov for the creation of the Mobile Gantry for SOYUZ space vehicles in Guiana Space Center (GSC), Kourou, French Guiana
- Since 2017 Pax Group is in the head of committee 427 of Rosstandart.
- Now we make a draft design of the equipment of the launch complex for the heavy of the rocket launcher for Roskosmos.



Mobile Gantry in GSC



Cobra, Dammam



Wheel 90 m, Italy



Wheel 80 m. Sochi, Russia

Giant panoramic wheels 101m-41m



Safety of amusement rides

Pax Group of Companies pays serious attention to safety of amusement rides under design and production. Back to 1989-90 we conducted centrifuge tests in Gagarin's Center for test subjects of different ages from 6 to 78 years old with different health problems to establish safety requirements for amusement rides, the test results and data are used by us to develop International standard ISO 17842 Safety of amusement rides.

System of design and manufacture of amusement rides of Pax Group of Companies is certified by the leading world expert TUV SUD (Germany). We have the license by Roscosmos for manufacture of space equipment. There were no incidents with our products.

The leader of Pax Group of Companies, Vladimir Gnezdilov, is the head of aerospace structure stress analysis department of the Moscow Aviation Institute (University), Chairman of TC 254 «Safety of amusement rides» ISO – International Organization for Standardization

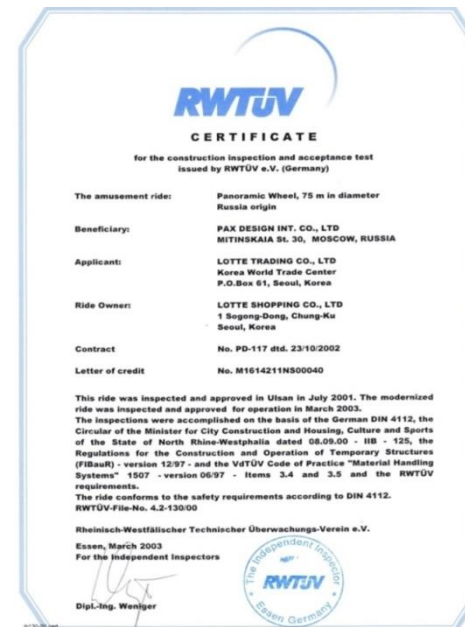
Space work license



Certificate of TUV SUD for quality assurance system of Pax Group of companies



Certificate of TUV NORD (Germany) for panoramic wheel Ulsan, Korea



Certificate by TUV SUD (Germany) For Mobile Gantry in Guiana Space Center



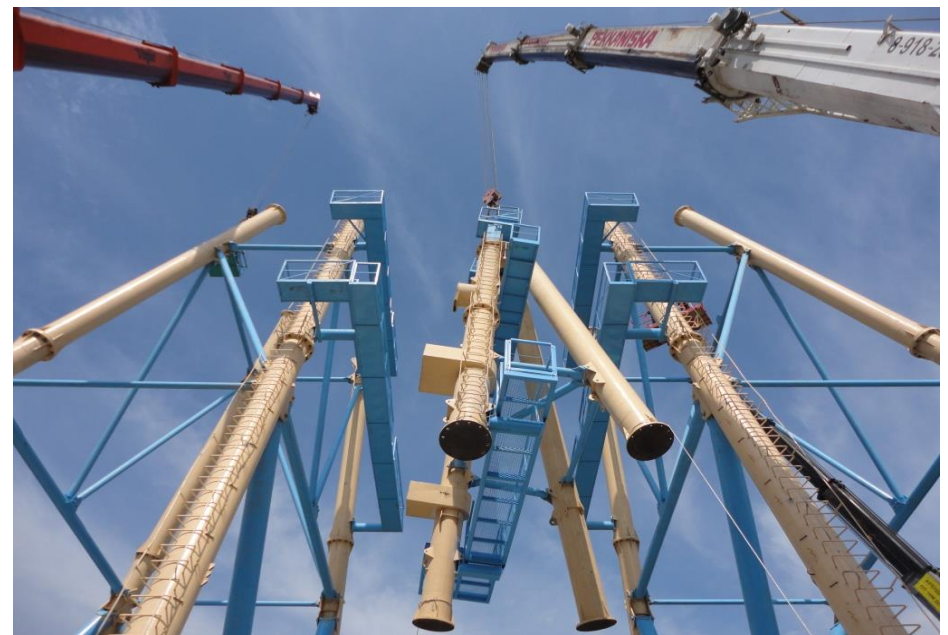
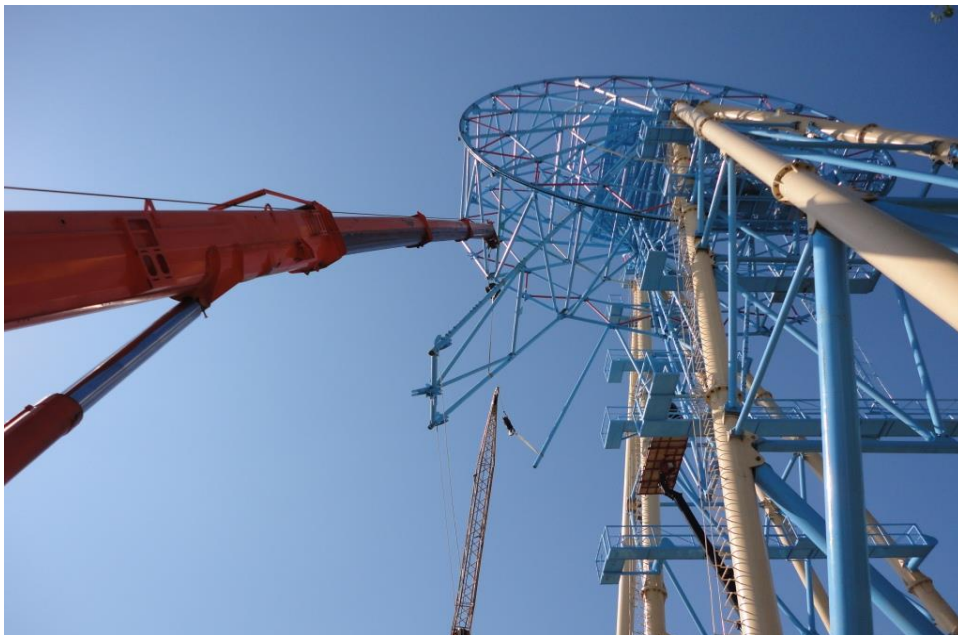
Giant panoramic wheels 101m-41m

Patented wheel transmission



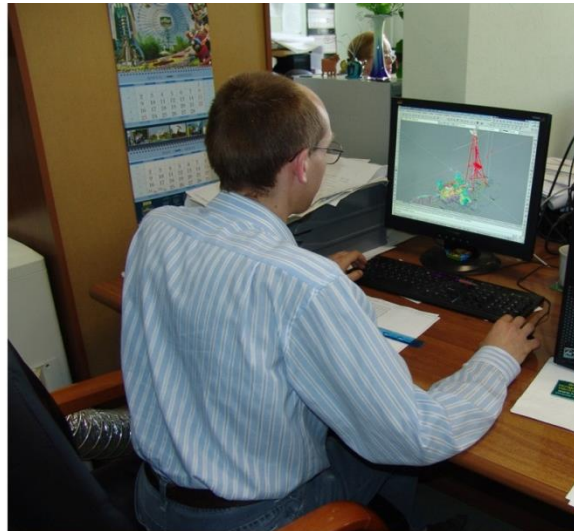
Giant panoramic wheels 101m-41m

Wheel assembly



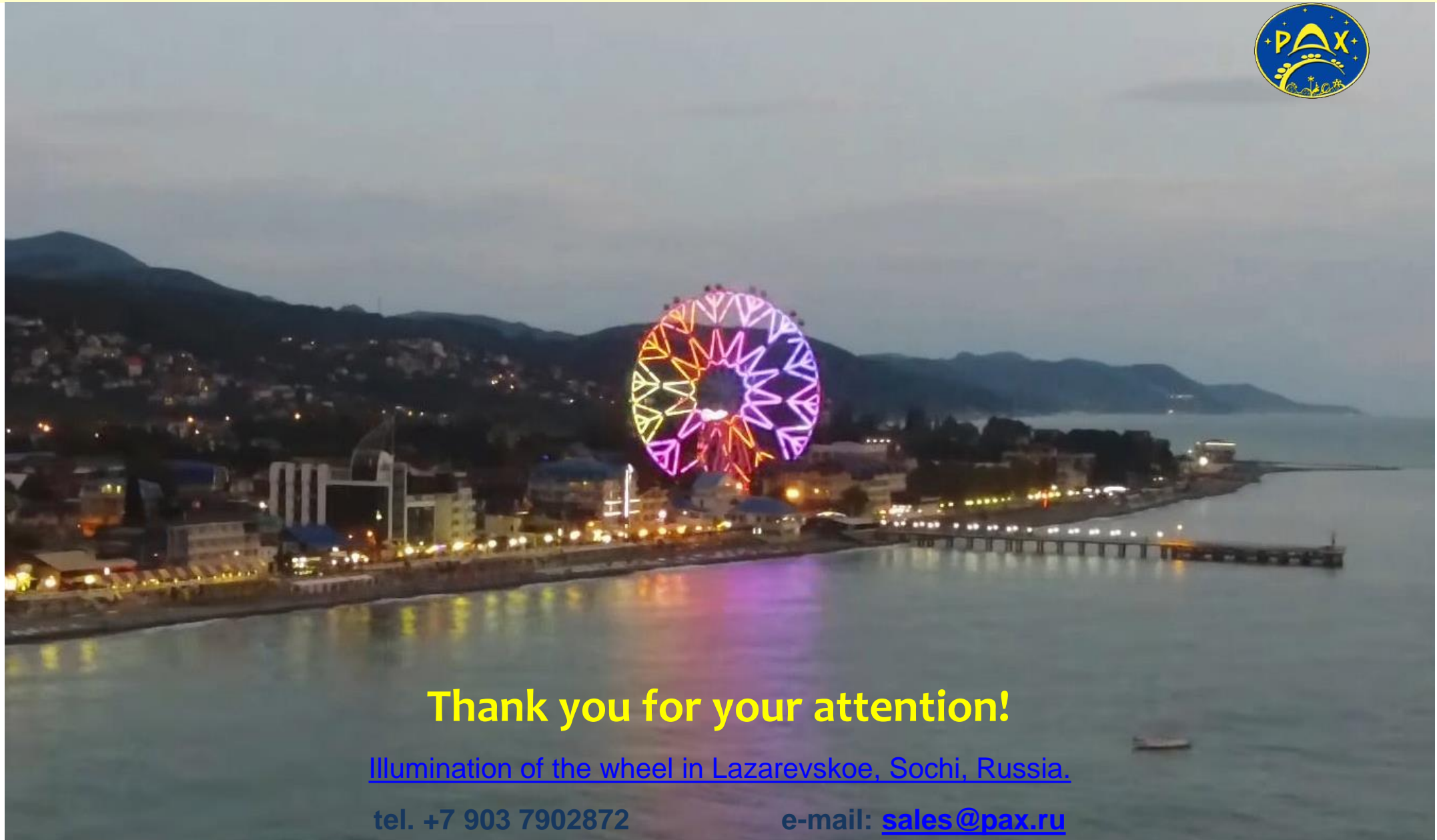
Giant panoramic wheels 101m-41m

Manufacture processes



Giant panoramic wheels 101m-41m

Our wheel in Lazarevskoe, Sochi



Thank you for your attention!

[Illumination of the wheel in Lazarevskoe, Sochi, Russia.](#)

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Amusement rides produced from 1989 to 2000

№	Description	Designation	Date of manufacture	Factory №	Owner (location)
1	"Moscow roller coaster"	A.01.1.000	1989	001	city of Dushanbe
2	"Moscow roller coaster" (Izmaylovskaya)		09.1990	002	city of Novosibirsk, JSC "Virazh"
3	"Moscow roller coaster"	A.01.0.000	11.1991	001	Moscow, JSC "Moscow attractions" and JSC "Pax" VVTs; after refurbishing - Perm
4	Roller coaster "Magic Steed"	A.04.0.000	27.06.1992	002	Moscow, JSC "Pax", Central Park of Culture and Leisure (CPCL)
5	Roller Coaster "Magic Steed" (Podolsk)		12.1991	001	city of Ust-Kamenogorsk, GOKUKSTSK
6	Roller coaster "Magic Steed"	008.A.08.1.000	30.10.1993	008	Costa Rica
7	"Pioneer"	B.01.1.000	24.06.1992r.	001	city of Izhevsk
8	"Pioneer"	009.A.09.1.000	04.94.(04.08.94)	009	city of Komsomolsk-on-Amur, KAAOO named after Gagarin
9	Roller coaster "Astro-Pax-18"	007.A.07.0.000	01.07.1995	007	Moscow, JSC "Pax" VVTs - since 01.07.95
10	Giant swings "UFO"	001.K.01.000	15.07.94, 95	001	Moscow, JSC "Pax" CPCL; VVTs; city of Mineralnye Vody - since 04.10.97
11	Panoramic wheel "Moscow-850"	011.C.02.1.000	16.07.1995	011	Moscow, JSC "Pax" VVTs - since 15.07.96
12	Bumper car facility (refurb.)	012.EA.1.000.	27.06.1994	012 (1-01)	Moscow, JSC "Pax" CPCL
13	"Orbit-420" (refurb.)	013.KKT.2.165.2.000	22.05.1994.	13(unnumb	Moscow, JSC "Pax" CPCL - since 23.05.94
14	Vortex	KKT2.111.000	03.08.1992	299	Moscow, JSC "Pax" CPCL - since 03.08.92
15	Carrousel "Comet"	024.C.04.0.000	20.04.1996	24	Moscow, JSC "Pax" VVTs - since 20.04.96
16	Bumper car facility	023.C.03.0.000	06.11.1995	23	Moscow, JSC "Pax" VVTs - 06.11.95
17	Carnival	KKT 2.100.002	07.93 /10.96	227	Moscow, JSC "Pax" CPCL, VVTs, Kaliningrad
18	Roller coaster "Tsar coaster"	038.A.12.0.000	07.08.1996	38	Moscow, JSC "Pax" VVTs, Krasnodar
19	"Polar lights"				Moscow, JSC "Pax" VVTs, Kaliningrad
20	"Polar lights"		23.07.1995	92020131	Moscow, JSC "Pax" CPCL, VVTs - since 04.02
21	"Polar lights"		14.08.1993	91120120	Moscow, CPCL, Costa Rica
22	Orbit	KKT 2.165.000	23.07.1993	407	Moscow, CPCL, Costa Rica
23	Roller coaster "Cobra"	047.A.14.1.000	1998		Saudi Arabia, Dammam, in operation since 21.02.98
24	"Comet"	061.C.15.1.000	12.1998		Vietnam
25	Panoramic wheel Ø 84	062.C.18.1.000	04.1999		Italy, Ravenna, "Mirabilandia" - since 1998
26	Roller coaster "Crazy train"	052.A.15.1.000	12.1998	052-1	Ukraine, Dnepropetrovsk; Yalta - since 21.01.99
27	Roller coaster "Crazy train-2"	091.A.16.1.000	04.1999	7	Moscow, VVTs; Kogalym, Tumen region - since 03.06.00
28	Roller coaster "Crazy train-3"	092.A.17.1.000	05.1999	092-3	city of Yaroslavl
29	"Giant swings"	074.K.02.1.000	05.1999	074-1	city of Yaroslavl - since 28.05.99
30	"Giant swings-2"	097.K.03.1.000	15.07.1999	097-2	Moscow, VVTs, refurb. to "MARS-360" - 23.08.00r; Novouralsk - since 25.09.01
31	Roller coaster "Crazy train-4"	092.A.17.1.000	08.1999	092-4	Moscow, CPCL; Kazakhstan, Astana - since 03.06.00
32	"Giant swings-3"	100.K.04.1.000	08.1999	100-3	Moscow, CPCL - since 08.99; VVTs - since 18.08.01, Chelyabinsk MU CPCL named after Yu.A. Gagarin - since 06.05.02
33	Roller coaster "Rodeo"	113.A.21.1.000	12.1999	113-1	Kazakhstan, Atyrau, in operation since 26.04.00
34	Roller coaster "Puss in Boots"	107.A.20.1.000	12.1999	107-1	Moscow, VVTs, Yaroslavl CPCL, in operation since 22.05.2000
35	"Giant swings-4"	102.K.05.1.000	01.2000	102-4	France, Paris; Moscow - since 19.04.00; Alma-Ata - since 26.04.01; Moscow, RVA VVTs; Gelendzhik - since 06.07.02, Orenburg - since 05.2007



Amusement rides produced from 200 to 2002

36	Roller coaster "Wild train-15"	116.A.23.1.000	04.2000	116-1	France, Saint Paul - since 01.05.00
37	"Panoramic wheel -15m"	119.C.40.1.000	05.2000	119-1	Yaroslavl, CPCL - since 06.06.00
38	"Panoramic wheel -15m"	119.C.40.1.000	05.2000	119-2	Yaroslavl, VSTs "Spartakovets" - since 02.06.00
39	Giant swings "Little sailor"	120.K.06.1.000	05.2000	120-1	Yaroslavl, CPCL - since 26.05.00
40	Giant swings "Little sailor"	120.K.06.1.000	05.2000	120-2	Yaroslavl, VSTs "Spartakovets" - since 02.06.00
41	Roller coaster "Rodeo-2"	115.A.22.1.000	04.2000	115-1	Moscow, park "Lianozovo", VVTs - since 19.05.00; Yeysk, CPCL - since 09.06.01
42	Giant swings "Little sailor"	120.K.06.1.000	06.2000	120-3	Anapa;Moscow, VVTs - since 07.09.00, Gelendzhik, park "Admiral" - since 10.07.01
43	Roller coaster "Puss in Boots"	118.A.25.1.000	06.2000	118-1	Anapa;Moscow, VVTs - since 07.09.00, Gelendzhik - since 10.07.01; Chelyabinsk, park named after Yu.A. Gagarin - since 05.06.02
44	Giant swings "Wasp"	121.K.07.1.000	07.2000	121-1	city of Kogalym, Tumen - c 23.07.00.
45	Panoramic wheel -15 m	121.K.07.1.000	07.2000	125-1	Moscow, RVA VVTs; Gelendzhik, park "Admiral" - since 11.07.01
46	Roller coaster "Rodeo -3"	122.A.26.1.000	07.2000	122-1	Moscow CPCL; Krasnoyarsk - since 14.05.2001
47	Giant swings "Wasp"	121.K.07.1.000	09.2000	121-2	Moscow, RVA VVTs; Gelendzhik, Park "Admiral" - since 06.07.02; Mariupol, Ukraine - since 18.07.03
48	Roller coaster "Wild train"	117.П.24.1.000	10.2000	117-1	France, Saint Paul - since 10.00
49	Giant wheel -12 m	123.C.43.1.000	04.2001	123-1	Moscow,KMK-Nord, Association "Samolyot" - since 27.04.01
50	Panoramic wheel "LOTTE"-75 m	124.C.44.1.000	03.2001	124-1	South Korea, Ulsan - since 19.08.2001
51	Roller coaster "Puss in Boots"	118.A.25.1.000	05.2001	118-2	Blagoveshchensk , Amur region – since 20.06.01, Yuzhno-Sakhalinsk – since 24.08.03
52	Roller coaster "Wild train – 8"	130.A.11.1.000	30.05.2001	130-1	city of Ufa, Park "Magic World" - since 23.06.01
53	Roller coaster "Wild train – 8"	130.A.11.1.000	13.06.2001	130-2	Moscow,RVA VVTs - since 28.06.01;
54	Roller coaster "Wild train – 8"	130.A.11.1.000	8.01.2003	130-7	Ukraine, Kiev - since 06.05.03.
55	Roller coaster "Cobra"	129.A.10.1.000	26.07.2001	129-1	Kazakhstan, Alma-Ata - since 04.09.01
56	Panoramic wheel -31m	132.C.47.1.000	30.08.2001	132-1	city of Surgut, delivery 10.2001
57	Roller coaster (Bahrain)	098.A.19.1.000	01.2002	098-1	Bahrain - since 18.07.02
58	Roller coaster "Wild train – 8"	130.A.11.1.000	01.2002	130-3	city of Kemerovo, LLC "Park of culture" - since 03.05.02
59	Roller coaster "Wild train – 8"	130.A.11.1.000	02.2002	130-4	city of Chelyabinsk, MU CPCL named after Yu.A. Gagarin - since 06.05.02
60	Giant swings "Wasp"	121.K.07.1.000	10.2001	121-3	city of Komsomolsk-on-Amur, MUP "Blagoustroystvo" - since 07.05.02
61	Panoramic wheel-31m	132.C.47.1.000	10.2001	132-2	Kazakhstan, Astana - since 09.06.02
62	Roller coaster (Al Mojel Projects)	133.A.13.1.000	03.2002	133-1	Saudi Arabia, Riyadh, park Al Marsa - since 16.08.02
63	Giant swings "Wasp"	121.K.07.1.000	06.2002	121-4	city of Sovetskiy, Tumen region
64	Roller coaster "Puss in Boots"	118.A.25.1.000	02.04.2002	118-3	city of Komsomolsk-on-Amur, MUP "Blagoustroystvo" - since 30.04.02
65	Roller coaster "Wild train – 8"	130.A.11.1.000	06.2002	130-5	city of Gelendzhik, park "Admiral" - since 06.07.02
66	Roller coaster "Wild train – 8"	130.A.11.1.000	12.2002.	130-6	Ukraine, Mariupol - since 18.07.03
67	Free fall tower - 24m	134.B.03.1.000	05.2002	134-1	Moscow, RVA VVTs; Yaroslavl PCL - since 24.05.02
68	Roller coaster "Cobra"	150.A.31.1.000	06.06.2002	150-1	Gelendzhik, park "Admiral"; Moscow, VVTs- since 2009
69	Panoramic wheel-31m	132.C.47.1.000	29.08.2002	132-3	city of Sovetskiy, Tumen region
70	Free fall tower - 12m	154.B.07.1.000	02.11.2002	154-1	USA, Miami; Moscow, RVA VVTs - since 05.09.03
71	Giant swings "MARS-120"	140.K.08.1.000	12.2002	140-1	Moscow,RVA VVTs 05.01.03-12.01.03, Yalta, Private company "Adonis" - since 03.03



Amusement rides produced from 2002 to 2021

72	Free fall tower	153.B.06.1.000	12.2002	153-1	Ukraine
73	Free fall tower - 12m	155.B.08.1.000	12.02.2003	155-1	Moscow, VVTs; Gelendzhik, park "Admiral" - since 26.05.03
74	Panoramic wheel -31m	132.C.47.1.000	02.04.2003	132-4	Ukraine, Kiev - since 03.05.03
75	Panoramic wheel-54m	156.C.55.1.000	20.05.2003	156-1	Belorussia, Minsk - since 26.06.03
76	Roller coaster "Wild train – 8"	130.A.11.1.000	06.2003	130-7	Belorussia, Minsk - since 26.06.03
77	Panoramic wheel -31m	132.C.47.1.000	06.2003	132-5	Ukraine, Mariupol - since 18.07.03
78	Giant swings "Wasp"	121.K.07.1.000	07.2003	121-5	Ukraine, Mariupol - since 18.07.03
79	Free fall tower - 24m	157.B.09.1.000	07.2003	157-1	Ukraine, Mariupol - since 24.07.03
80	Giant swings "Wasp"	121.K.07.1.000	07.2003	121-6	city of Langeepas, Tument region - since 31.07.03
81	Panoramic wheel-31m	132.C.47.1.000	01.09.2003	132-6	city of Krasnoyarsk, "PIKRA" - since 16.09.03
82	Roller coaster "Wild train – 12"	141.A.29.1.000	15.09.2003	141-1	Spain (near Seville), Matreus Del Allor - since 03.12.03
83	Roller coaster "Wild train – 12"	141.A.29.1.000	26.01.2004	141-2	Moscow, VVTs
84	Free fall tower - 38m	152.B.05.1.000	2004	152-1	France, Saint Paul
85	Panoramic wheel -75 m	145.C.53.1.000	2004	145-1	city of Gelendzhik, park "Admiral"
86	Panoramic wheel -75m	149.C.54.1.000		149-1	South Korea, Taegu
87	Roller coaster "Asteroid"	138.A.28.1.000		138-1	Spain
88	Giant swings "MARS-120"	146.K.09.1.000	05.2004	146-1	Brest
89	Water slide "Khara-kiri"		July2004	139-1	Ukraine, Mariupol
90	Roller coaster "Wild train – 14"	165.A.34.1.000	Aug2004	165-1	Austria
91	Roller coaster "Formula Pax"	160A.33.1.000	06.2005.	160-1	France
92	Panoramic wheel -31m	132.C.47.1.000	07.2005.	132-8	city of Uray
93	Panoramic wheel -31m	132.C.47.1.000	09. 2005.	132-7	city of Krasnoyarsk
94	Free fall tower 17m	176.B.11.1.000	09. 2005.	176-1	city of Almet'yevsk
95	Giant swings "MARS-360"	170.K.10.1.000	09. 2005.	170-1	Krasnoyarsk;Moscow, VVTs - since 2009
96	Panoramic wheel-31m	132.C.47.1.000	05. 2006.	132-9	city of Orenburg – 05.2006
97	Giant swings "MARS-360"	170.K.10.1.000	06. 2006.	170-2	city of Yekaterinburg - since 05.2007
98	Free fall tower 24 m	157.B.09.1.000	06. 2006.	157-1	Ukraine, Dnepropetrovsk
99	Roller coaster "Wild train – 15"	175.A.36.1.000	07. 2006.	175-1	Moscow, VVTs, Krasnodar LLC "AVM"
100	Free fall tower BSP-50m	185.B.12.1.000	11. 2006.	185-1	city of Yekaterinburg - since 05.2007
101	Giant swings "MARS-360"	170.K.10.1.000	12. 2006.	170- 2	Moscow,VVTs; Kirovograd (Ukraine) -since 04.2007
102	Roller coaster "Cobra"	187.A.38.1.000	2010.	187-1	Switzerland
103	Roller coaster "Formula-Mir"	193.A.39.1.000	06. 2011.	193-1	Moscow, VVTs
104	Roller Coaster "Golden Arrow"	178.A.37.1.000	08.2013.	178-1	city of Yaroslavl - since 08.2013, since 2014 - Pax
105	Giant swings "MARS-360"	170 K.10.1.000	06.2014	170-4	city of Yaroslavl - since 08.2013, since 2014 - Pax
106	Roller coaster "Formula-Mir"	193.A.39.1.000	05.2016	193-2	city of Kaliningrad
107	Roller Coaster "Lighting"	178.A.38.1.000	05.2017	194-1	city of Moscow, park Krylatskoe
110	Project for "Angara5P"		2018		Roskosmos
111	Project for "Enisey"		2019-2020		Roskosmos
112	Panoramic wheel - 41m		may 2021		Dagestan