



## Completeness, characteristics, and cost of 81 m wheel.

**Advantages:** European quality; spacious cabins;  
uneven load up to 50% without wheel slippage;  
**Session :** one rotation per 15min. **Service - up to 770 pers./hour**

### **COMPLETENESS OF A FERRIS WHEEL 81 M HIGH**

1. **Cabins:** 32 spacious panoramic cabins, each sized 2,4x2,6 m., and designed for **6 pers** . The total area of 4 m<sup>2</sup> and total capacity of 32x6=192 pers. The Ferris wheel is supplied with mechanical locks and acrylic glass of 5 mm thick.
2. **Transmission:** gear drives supplied with a gear (pinion) engagement to a wheel arc, **the system eliminates slipping of the drive with a drive arc** in the rain and uneven loading up to 50%.
3. **Metal structures:** Two pyramidal supports supplied with access ladders; 32 trusses of the rotating part; bearing units; loading platform under a roof; galvanized fasteners marked according to GOST or ISO.
4. **Electrical equipment:** Control boxes; operator consoles; cable set, sensors - in accordance with the section of the standard "Low-voltage equipment" GOST 33807 or EN 13814. Pavilion for control panel and operator.
5. **Coat-painting** of metal structures: a 3-layer paint system, marine climate.
6. **Supervision of installation, adjustment, testing, putting into operation, instructing the staff** of the Ferris wheel.
7. **Operational documentation** in accordance with GOST 33807 or EN 13814 requirements;
8. **A set of spare parts and tools** for the first year of operation of the Ferris wheel; spare parts supply and technical support for at least 10 years.

### **MAIN TECHNICAL CHARACTERISTICS (APPROXIMATE)**

1. **Dimensions:** height - 81 m, diameter – 78 m, weight – 190 tn, site for supports - 25x34m;  
**Cabin's speed at the station: 0m/s-0,27m/s; resource – 35 000 hours (3 500 days)**  
Electrical equipment (all data are preliminary): - gear drives: while fully loaded - not more than 20 kW and 15 kW, average per hour – 7 kW, the drive power source - V/phase /Hz/A 380/3/50/100A; conditioning – up to 1,5 kW/cab.; cabin power source - V/phase/Hz/A 220/1/50(60)/8 per cable; dynamic illumination - up to 50kW, power supply V/phase/Hz/A 220/1/50/250.
2. Back up electricity supply for evacuation of passengers: is produced by the 20 kW power generator (to be purchased by buyer), which is required in case of power outage.
3. **Effects: VII wind area; earthquake - up to 8,3 magnitude of the Richter scale.**
4. Temperature - from 10 up to +45 Celsius degree, humidity – up to 99%.
5. Number of 40-foot containers for transporting a wheel – 20 vehicles.

### **Price, including installation – by request**

#### **FERRIS WHEEL options by request:**

1. **Extreme cabin - € 10 000.**
2. **Glass in the floor – € 3 000**
3. **Lift and cabin for the disabled – €12 000**
4. **Additional entrance – € 10 000**
5. **Container for cooling/heating and protection of electrical equipment – € 8 000**
6. **Cost of the dynamic illumination - from €37,5 to €62,5 per meter.**
7. **Certificate of conformity EN 13814 upon request.**

**Buyer's duties:** transportation, storage (4%), foundations and site (3%), electric power supply, ticket sales systems, security system, service rooms, permissions.

**Payment:** 15% prepayment, 80% - proportionally to containers sent, 5% - after start of operation.

**Average production time – 11 months (reduction to be discussed), mounting – 40 days.**