Completeness, characteristics, and cost of 91 m wheel.

Advantages : European quality; spacious cabins;
uneven loading of cabins up to 50% does not cause wheel slippage;
Session: 1 rotation per 20 minutes . Service - up to 960 pers./hour.

BASIC COMPLETENESS OF A WHEEL

1. **Cabins:** 32 spacious panoramic semi-open cabins **2,4x2,6** m., designed for 10 pers., each cabin 4 m^2, and the total capacity of 320 pers., supplied with mechanical locks and 3 mm thick polycarbonate glass.
2. **Transmission :** gear drives supplied with a gear (pinion) engagement to a wheel arc, the system **eliminates slipping of the gear drive with a drive arc** in the rain and uneven loading up to 50%.
3. **Metal structures :** Two pyramidal supports supplied with access ladders and sites; 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 and operator consoles; cable set, sensors - in accordance with the "Low voltage equipment" section of GOST 33807 or EN 13814. Pavilion for a control panel and an operator.
5. **Coat-painting** of metal structures – 2-layer painting system.
6. **Installation supervision,** adjustment, tests, putting into operation, instructing the staff of the wheel.
7. **Operational documentation** in accordance with requirements of GOST 33807;
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 - 91m, diameter – 88 m, weight – 262 tn,**
   site for supports - 28x35m; volume of foundations ~ 250 m^3.
   Speed of cabins at the station: 0 m/c-0,23 m/s; resource – 35 000 hours (3 500 days)
2. Electrical equipment (all data are preliminary): - gear drives: while fully loaded - not more than 2x20 kW , average per hour –10 kW, drive power source - V/phase /Hz/A 380/3/50/100; conditioning – up to 1 kW per cabin, cabin power source, V/phase /Hz/A 220/1/50(60)/6 per cabin.; dynamic illumination - up to 30 kW, power supply source V/phase /Hz/A 220/1/50/200.
3. 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.
4. External effects: III wind area; earthquake – up to 8,3 magnitude of the Richter scale.
5. Temperature: from -10 up to +45 Celsius degree, humidity – up to 99%.
6. Number of 40-feet containers for transporting a wheel - 26;

Price, including installation – by request

Optionally (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.

A buyer's responsibility: transportation, storage (1-3%), 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 – 13 months, mounting – 50 days.