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SPRING s.r.l Via Resistenza 453 41058 Vignola (Modena ) Italy P.IVA 03393930361

## 1. SPECIFICATIONS

### OVERALL DIMENSIONS

Width : 26 m  
Depth : 16 m  
Height : 40 m

CARS : 34 gondolas, 6 seats each, (total 204 seats)

LOADING : 5 gondolas simultaneously

ESTIMATED CAPACITY : 1200 passengers/hour

SUGGESTED RIDE DURATION : 3 minutes

### POWER

Motors : 76 KW  
Services : 1 KW  
Lights : 70+70 KW  
Requirement for city line connection : 150 KW  
Voltage : 380/220 V  $\pm$  10% 3 Ph. (other versions on request)  
Frequency : 50/60 Hz  $\pm$  2%

SPEED : 1 RPM

WEIGHT : 100 ton

SHIPPING : 10 open top 40'

SET UP : 4 persons/7 days

## 2. CALCULATIONS AND ENGINEERING

The calculations and designs of this ride are in conformity with the German standards in force:

- mechanical structures: in conformity with DIN standards;
- electric system : in conformity with EN (EuroNorm) 60204-1.



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### 3. DESCRIPTION

The attraction is made up of a round vertical structure and of 34 gondolas loading 6 passengers each. The imposant structure of the Ferris Wheel is supported by two towers to be fixed to the concrete foundations. The attraction rotates by means of eight motors, each of them provided with a tire and installed on the towers. The rotation is produced by the friction of the tires on the slide guide that is set on the circumference of the wheel. The vehicles are made of a steel supporting frame covered with a fiberglass body and have an aluminium floor.

#### 3.1 Ride control

The ride is provided with a control gearcase that controls the rotation speed, start, stop and emergency devices.

The control gearcase can vary the Wheel speed from 0 to 1 revolutions per minute. All the motors are operated by means of an electronic AC-DC converter.

#### 3.2 Safety devices

During the ride operation the safety of the passengers is guaranteed by the following devices:

- Stainless steel bars on each car.

#### 3.3 Mechanical parts

- Gearbox manufactured by BREVINI.

#### 3.5 Electric system

- The AC-DC converter is manufactured by ABB;
- The motors are manufactured by COMER.

#### 3.6 Lighting system

The lighting system is made up of:

- Spot lights on standards;
- Spot lights on the Wheel structure;
- 4 white quartz-lights.