Tender specification KLAUS Multiparking
ParkBoard PQ

Preliminary technical remarks

1. Basis for the design are

1.1 the garage regulations (GaVo) according to the building regulations in the latest version,

1.2 the EC Machinery Directive 2006/42/EC, Appendix 1, and the DIN EN 14010

1.3 the architect's workshop drawings

2. The supplier confirms upon submission of the bid that the garage dimensions and the driveway widths comply with the GaVo, the relevant implementation guidelines to be specified by him and the system offered by him.

3. Required surface loads according to DIN EN 1991-1-1, per parking space: 2.0 t

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Description

General description:

Multiparking system for parking one vehicle on one ParkBoard. Dimensions according to product data sheet ParkBoard PQ and the widths and heights taken as basis.
Transversely movable ParkBoards are normally installed in front of a row of stationary parking spaces.They can be shifted sideways in a way that the parking spaces located behind them can always be easily accessed. For parking on the ParkBoards the ParkBoards must also be moved sideways. This creates sufficient space for opening driver's door, facilitating convenient getting in and out of the vehicle.
ParkBoards Type *Automatic* can be arranged in several rows, one behind the other.
ParkBoards Type *Manual* can be arranged in a one row arrangement up to 4 ParkBoards.

ParkBoard PQ – for one vehicle on one ParkBoard

Control system:

General:
- While shifting the ParkBoards, a warning singnal flashes
- Safety bars on the side are installed as safeguard to avoid crushing injuries when shifting the ParkBoards
- Electric wiring is made from the electric cabinet by the manufacturer

Operation ParkBoard Type *Automatic*:
- The parking paletts are operated via centrally located controll panel
- Once the desired parking space has been selected, the ParkBoards are shifted automatically

Operation ParkBoards Type *Manual*:
- The ParkBoards are operated via push-buttons (hold-to-run device)

Drive:
An 0,15 kW motor is used as drive.

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Safety:
Safety bars on the side are installed as safeguard to avoid crushing injuries when shifting the ParkBoards.

Corrosion protection:
Corrosion protection according to DIN EN ISO 12944-2, corrosive category C3 moderate

- Platform profiles coated with zinc-aluminium-magnesium according to DIN 10326
- Side members coated with zinc-aluminium-magnesium according to DIN 10326
- Cross members hot-dip galvanized according to DIN EN ISO 1461, layer thickness min. 55 µm
- Access plates, hot-dip galvanized in accordance with DIN EN ISO 1461 film thickness min. 55 µm
- Rail unit hot-dip galvanized in accordance with DIN EN ISO 1461 film thickness min. 55
- Fastening screws for platform profiles electrogalvanized
- screws, nuts and washers electrogalvanized
- Other steel components, shot-peened (particle cleanliness SA 2,5) and grey powder coating (Epoxy / Polyester base) RAL 7040, dry film thickness approx. 60-80 µm

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To be performed by customer:

1. Electrical supply to the control box:
   Power supply: three phase 230/400 V/50 Hz with neutral and ground wire (other voltage network, voltage or frequency are possible after the technical checking by us).
   Main fuse: 3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C).
   Supply line 5 x 2.5 mm2 to the main cabinet, depending on line layout, line length or system size a larger cross sections may be required. DIN VDE 0100 and other relevant local standards must be observed.
   The supply line to the main cabinet must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must commission an electrician at their own expense and risk.

2. Numbering of parking spaces:
   Consecutive numbering of parking spaces.

3. Building services:
   Any required lighting, ventilation, fire extinguishing and fire alarm systems as well as clarification and compliance with the relevant regulatory requirements.

4. Floor / rails:
   Flooring structure in accordance with product data sheet ParkBoard PQ (recesses, rail systems).
   Recesses, tolerances for the evenness of the driving lane must adhere to DIN 18202, sheet 3, line 3.
   Stuffing of rail system with cement floor for the whole length. Bringing in of floor pavement.
   Cable duct M25 with taut wire from electric cabinet to rails (only for PQ with busbar on ground).

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Multiparking system for 1 car
ParkBoard PQ-210

Multiparking system for 1 car per ParkBoard

Power supply via busbars on the ground

Vehicle width: up to 180 cm

Vehicle length: 500 cm

Usable platform width: 182 cm

Platform load: 2,0 t

incl. freight, unloading, installation
incl. electrical wiring from main cabinet
incl. expert acceptance

Option:
Extra costs for KLAUS ParkBoard PQ-220
(Vehicle width: up to 190 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-236
(Vehicle width: up to 206 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-248
(Vehicle width: up to 218 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-258
(Vehicle width: up to 228 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-268
(Vehicle width: up to 238 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-278
(Vehicle width: up to 248 cm)

– Dimensions acc. to manufacturer specifications –

Option:
Extra costs for KLAUS ParkBoard PQ-288
(Vehicle width: up to 258 cm)

– Dimensions acc. to manufacturer specifications –

Optional position
Extra costs for Power supply via conductor rail with contact wire under the ceiling

Optional position
Extra costs for Power supply via trailing cable with cable roll conveyor under the ceiling

Optional position
Extra costs for increase of platform load to 2.6 t per ParkBoard

Extra costs for conclusion of a system service contract SSVP "PLUS" with cleaning and care, incl. maintenance 1 per year, all spare and wear parts, and cleaning and care of the platform surface.