

## **Description of KLAUS STACK PARKER, type G 61-160/170/180/190/200/210 EB, horizontal platform, in accordance with VdTÜV information sheet "Fördertechnik 1505"**

### **General description:**

G61 EB is a car parking system providing non-independent parking spaces for two cars – one vehicle below and one vehicle above. Dimensions are in accordance with the pertaining information sheet (issue 07/2003) and depend also on the respective underlying dimensions of height and width. With this parking system access to all parking spaces is horizontal. It needs to be observed that the vehicle parked below must be removed first before the platform is lowered. The single platforms (EB) provide parking spaces for two vehicles. To facilitate accurate parking of the vehicles, the upper parking space is equipped with a wheelstop. These wheelstop must be adjusted in accordance with the operating instructions to suit the respective vehicle to be parked. The parking system is operated with a master key and incorporates a dead man's control safety mechanism with the operating elements usually being mounted either in front of the columns or on the outside of the door frame. Operating instructions are attached to each operator's stand. For garages with doors in front of the car parking system special dimensional requirements must be taken into account.

### **Specification of KLAUS VARIOPARKER:**

The stack parker consists of the following elements: Steel pillars with base elements which are mounted to the floor; sliding platform supports with plastic sliding bearings are mounted to the steel pillars. The platform is attached to said sliding platform supports. A mechanic synchronization control system ensures synchronous operation of the sliding platform supports during raising and lowering; one hydraulic cylinder. An automatic mechanic safety lock prevents accidental descending of the platform from the upper end position. The platform and the parking space can be used continuously.

### **The platforms consist of the following elements:**

Platform base sections, wheelstop, canted access plates, side beams, cross beams, screws, nuts, washers, distance tubes etc.

### **Supporting structure consisting of:**

Base elements, steel pillars, sliding platform supports, dowels, screws, connecting elements, bolts etc.

### **Hydraulic consisting of:**

hydraulic cylinder, magnetic valve, pipe break valve, hydraulic lines, fittings, high pressure hoses and also clamp.

### **Electrical equipment consisting of:**

Operating element with "EMERGENCY-STOP" button and lock. With one master key per parking space and conduit box mounted to the hydraulic valve.

### **Protection against corrosion:**

According to supplementary sheet Protection against corrosion Plus or Light (issue 08/2003).

**Power unit:**

The low-noise power unit is installed onto a console with a rubber-bonded-to-metal mounting. It consists of a hydraulic oil reservoir serving the whole unit, cover incorporating an internally geared wheel pump, pump mounting, clutch, 3-phase-AC-motor (3.0 KW, 230/400 V, 50 Hz), contactor with thermal overcurrent relay and control fuse, manometer, pressure relief valve and hydraulic hoses, which reduce the noise transmission onto the hydraulic pipes.

**Generally the parking systems are not suitable for short-time parkers (constantly varying users). Please do not hesitate to contact your local agency of KLAUS for clarification if need arises.**

**To be effected by the customer:**

1. Suitable electrical supply 5 x 2,5 mm<sup>2</sup> (3PH+N+PE) per main switch
2. Main fuse 3 x 16A slow or overcurrent cut-out 3 x 16A trigger characteristic K, G or C. According to the respective method of installation or length of wiring it may be necessary to increase the cross section of the wiring. Please consider DIN VDE 0100.
3. Lockable main power supply switch (per unit). The position of the switch is defined at the plan evaluation.
4. Control wire line 5 x 2,5mm<sup>2</sup> (3 PH+N+PE) from the main switch to the unit
5. Suitable electrical supply to the main switch and the control wire line 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.
6. In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), the system must be connected to a foundation earth. A foundation earth connection must be installed at intervals of 10 m.
7. Any barriers required by DIN EN 294 for securing for traffic routes immediately in front of, next to, or behind the installations.
8. Consecutive numbering of parking spaces
9. Lighting, ventilation, fire extinguishing and fire alarm systems
10. Appropriate pit drainage
11. In accordance with prEN 14010, warning markings must be applied in the access area (pit edge) to mark the area in accordance with ISO 3864. The design must comply with EN 92/98/EEC, i.e. for installations with a pit or platforms inside the pit, 10 cm from the edge of the pit, and for systems without a pit or with platforms outside the edge of the pit, 10 cm from the edge of the platform.

If the following is not included in the quotation, it will also have to be provided/paid for by the customer:

12. Mounting of contactor and conduit box to the hydraulic valve, complete wiring of all elements in accordance with the circuit diagram
13. Costs for final technical approval by an authorized body

We reserve the right to change this specification without further notice. The Klaus company reserves the right in the course of technical progress to use newer or other technologies, systems, processes, procedures or standards in the fulfillment of their obligations other than those originally offered provided the customer derives no disadvantage from their so doing.