

# Tender specification KLAUS Multiparking SingleVario 2061 EB

## 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 a voluntary conformity testing by TÜV SÜD
    - 1.4 the architect's workshop drawings
  2. The bidder 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 1055, page 3, per parking space: 2.0 t
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## Specification

### General:

Multiparking system providing dependent parking spaces for 2 cars on top of each other. The lower vehicle parks directly on the floor plate. The vehicle parked on the bottom must be driven out before lowering the platform. Dimensions according to product data sheet SingleVario 2061 and the building dimensions, widths and heights taken as basis. The parking bays are accessed horizontally (installation deviation  $\pm 1\%$ ). Operation via operating device with hold-to-run-device using master keys.

SingleVario 2061 EB - 1 platform for 2 cars on top of each other

### Corrosion protection:

Corrosion protection according to DIN EN ISO12944-2, corrosive category C3 moderate

- Platform profiles, cover plates and optional platform extensions hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 45  $\mu\text{m}$
- Side members and optional extensions hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 55  $\mu\text{m}$
- Cross members hot-dip galvanized according to DIN EN ISO 1461, layer thickness approx. 55  $\mu\text{m}$
- Access plates, hot-dip galvanized in accordance with DIN EN ISO 1461 film thickness approx. 55  $\mu\text{m}$ , and additional orange powder-coating (Epoxy / Polyester base) RAL 2000, dry film thickness approx. 60-80  $\mu\text{m}$
- Fastening screws for platform profiles, stainless steel V4A
- Hydraulic tubes, screwed joints, bolts, 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  $\mu\text{m}$

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## Hydraulic unit:

The hydraulic unit is used to drive several Multiparkers if they are arranged next or opposite (separated by the driveway only) to each other. The system is controlled with the control unit on for each Multiparker. The Multiparkers can be lifted or lowered together. The hydraulic unit installed is supported rubber-bonded metal. However, we still recommend separating the garage body from the residential house.

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## To be performed by the customer

1. Electrical supply to the main switch / Foundation earth connector:  
Suitable electrical supply to the main switch 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.  
In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m).
2. Safety fences:  
Any constraints that may be necessary according to DIN EN ISO 13857 in order to provide protection, for pathways directly in front, next to or behind the unit. This is also valid during construction.
3. Numbering of parking spaces:  
Consecutive numbering of parking spaces.
4. Building services:  
Any required lighting, ventilation, fire extinguishing and fire alarm systems as well as clarification and compliance with the relevant regulatory requirements.
5. Marking:  
According to DIN EN 14 010, a warning that identifies this danger area must be placed in the entrance area that conforms to ISO 3864. This must be done according to EN 92/58/EWG for systems without a pit 10 cm from the edge of the platform.
6. Wall cuttings:  
Any necessary wall cuttings according to product data sheet SingleVario 2061.
7. Operating device:  
Cable conduits and recesses for operating device see product data sheet SingleVario 2061.
8. Concrete quality:  
Floor and walls are to be made of concrete (quality minimum C20/25).

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Multiparking system for 2 cars  
SingleVario 2061-160 EB

Multiparking system for 2 cars with a platform for horizontal accessing.  
The lower vehicle parks directly on the floor plate. The vehicle parked on the bottom must be driven out before lowering the platform.

Clearance: 320 cm

If a higher ceiling height is available higher cars can be parked on the upper parking space.

Vehicle height: top: 150 cm, bottom: 150 cm

Vehicle length: 500 cm

Usable platform width: 230 cm

Platform load: 2,0 t

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

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Hydraulic unit, low-noise

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Option:  
Extra costs for KLAUS SingleVario 2061-170 EB  
(car height at bottom up to 160 cm)

– Dimensions acc. to manufacturer specifications –

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Option:  
Extra costs for KLAUS SingleVario 2061-180 EB  
(car height at bottom up to 170 cm)

– Dimensions acc. to manufacturer specifications –

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Option:  
Extra costs for KLAUS SingleVario 2061-190 EB  
(car height at bottom up to 180 cm)

– Dimensions acc. to manufacturer specifications –

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Option:  
Extra costs for KLAUS SingleVario 2061-200 EB  
(car height at bottom up to 190 cm)

– Dimensions acc. to manufacturer specifications –

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Option:

Extra costs for KLAUS SingleVario 2061-210 EB  
(car height at bottom up to 200 cm)

– Dimensions acc. to manufacturer specifications –

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\*Optional position\*

Extra costs for larger platform width \_\_\_\_\_ cm

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\*Optional position\*

Extra costs for increase of platform load to 2,6 t per parking space, EB system

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\*Optional position\*

Platform coating in AluLongLife

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\*Optional position\*

Platform coating in EasyWalk

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\*Optional position\*

Extra costs for additional noise protection measures to protect against structure-borne sound according to DIN 4109, EB system

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\*Optional position\*

Extra costs for additional increased noise protection measures to protect against structure-borne sound according to DIN 4109-10, EB system

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\*Optional position\*

Extra costs for fixing in waterproof concrete with glue dowel

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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.

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