



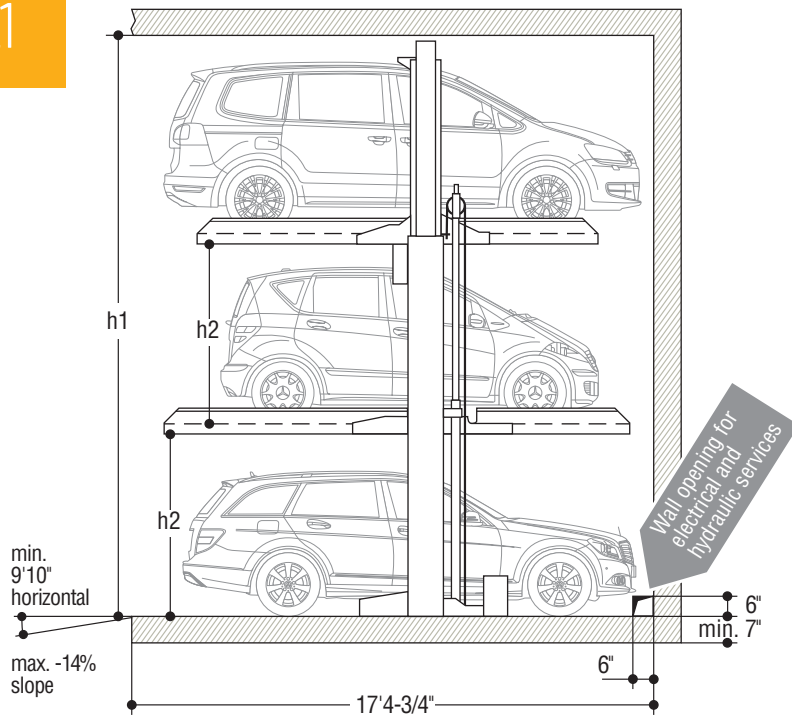
SPEC SHEET

# WÖHR PARKLIFT™ 421

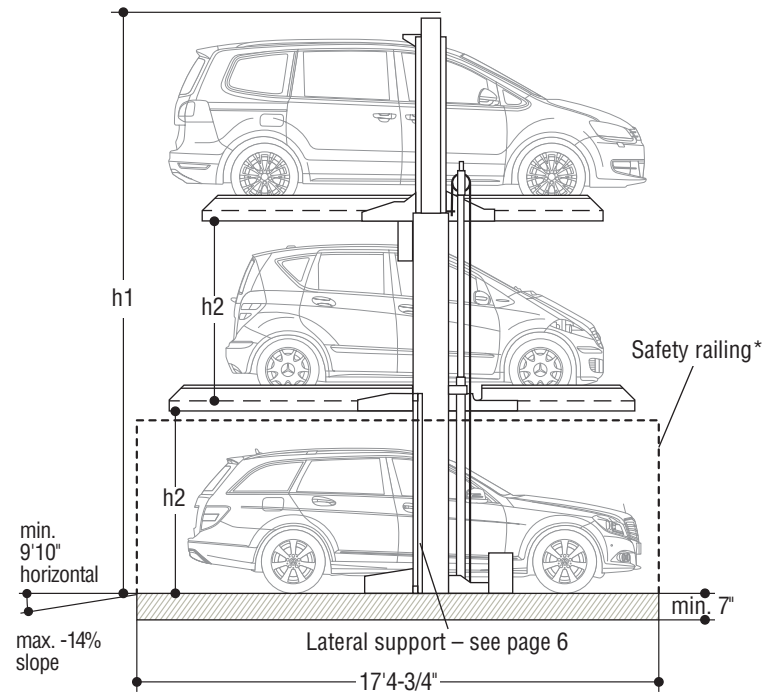
Dependent Parking for  
Three-Car Staking

# PARKLIFT 421

## Installation Indoor



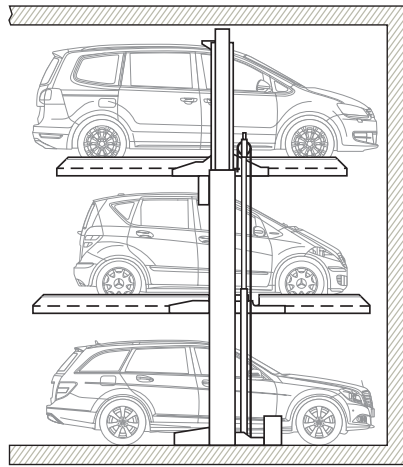
## Installation Outdoor



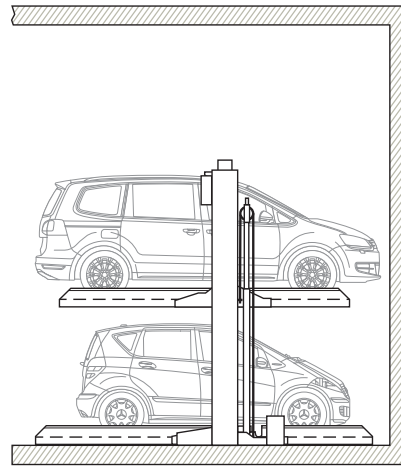
\* Rear and lateral site safety railing, compliant to the DIN EN ISO 1 3857 standard requirements, is to be supplied by the customer. The height of the safety railing is dependent on the distance from the moving parts.

|            | PARKLIFT<br>421-500 | PARKLIFT<br>421-530 | PARKLIFT<br>421-560 | PARKLIFT<br>421-590 | PARKLIFT<br>421-620 |
|------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Height h1  | 16'5"               | 17'4-3/4"           | 18'4-1/2"           | 19'4-1/2"           | 20'4"               |
| Height h2  | 5'1"                | 5'5"                | 5'9"                | 6'1"                | 6'4-3/4"            |
| Car Height | 4'11"               | 5'3"                | 5'7"                | 5'11"               | 6'2-3/4"            |

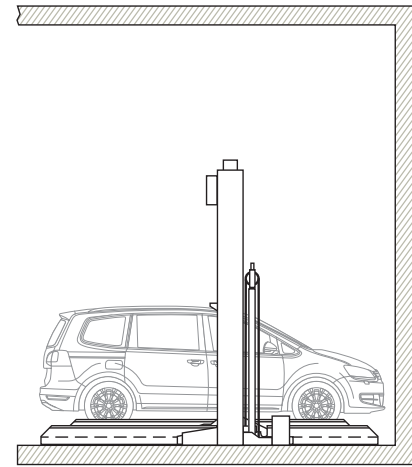
## Function



Before lowering the platforms, the car on the entrance level must be driven off!



Before lowering the upper platform, the car on the middle level must also be driven off!



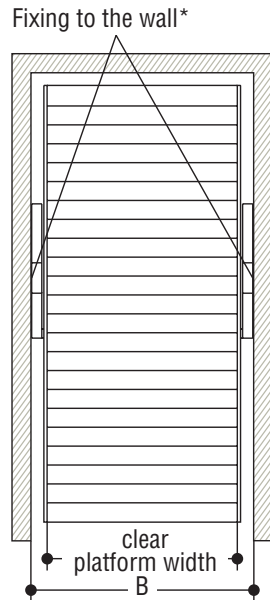
## Notes

1. Clear platform width of 8'2-1/2" / 8'6-1/4" for car widths of 6'2-3/4".  
For large touring sedans we recommend a clear platform width of at least 8'6-1/4" / 8'10-1/4".
2. According to ISO 3864 the floor has to be marked with 4" wide yellow-black stripes at a distance of 1'1-3/4" from the platform edge by the purchaser (see "statics and construction requirements" on page 4).
3. It is not possible to have channels or undercuts and/or concrete haunches along the floor-to-wall joints. In the event that channels or undercuts are necessary, the system width needs to be reduced or the installation width needs to be wider.
4. The manufacturer reserves the right to construction or model modifications and/or alterations. Furthermore, the right to any subsequent part modification and/or variations and amendments in procedures and standards due to technical and engineering progresses in the art or due to environmental regulation changes, are also hereby reserved.

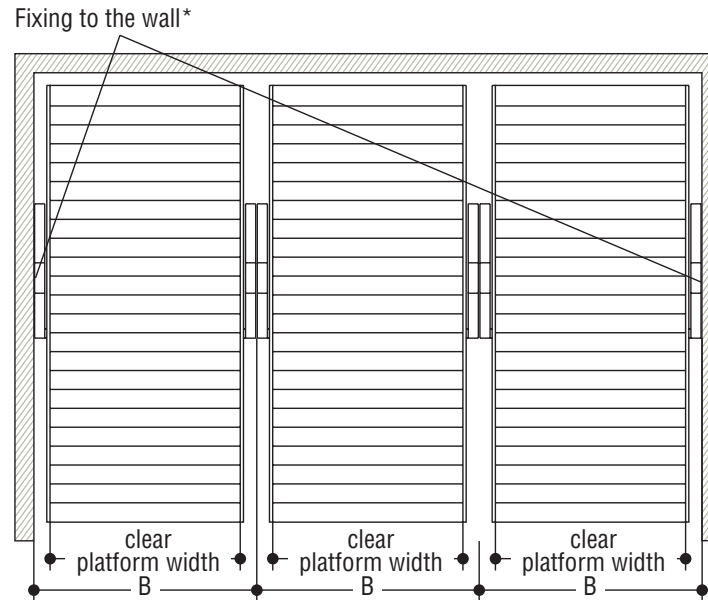
## Width Dimensions · Installation Indoor

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in feet and inches.

### Single Unit



### Row Arrangement



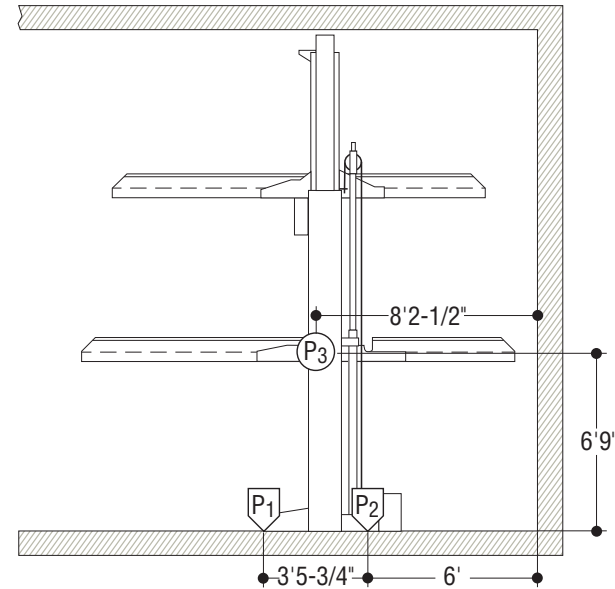
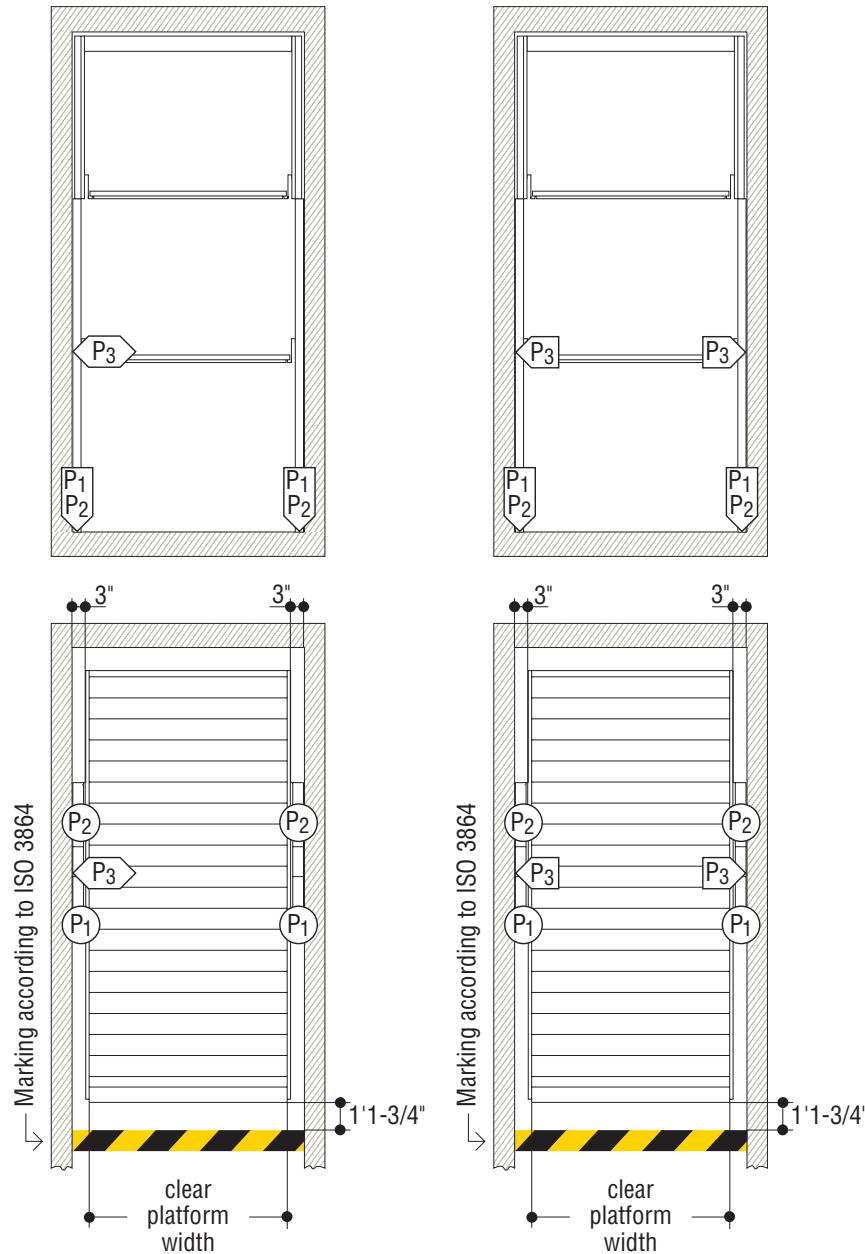
Wall openings required between partitions for electrical and hydraulic conduits must be provided where applicable. Wall openings may not be closed after installation.

The drive aisle width to be compliant with country regulations locally in force.

|         | SPACE<br>REQUIRED B | GIVES CLEAR PLATFORM WIDTH |              |
|---------|---------------------|----------------------------|--------------|
|         |                     | UPPER LEVEL                | MIDDLE LEVEL |
| 230/220 | 8'6-1/2"            | 7'2-1/2"                   | 7'6-1/2"     |
| 240/230 | 8'10-1/2"           | 7'6-1/2"                   | 7'10-1/2"    |
| 250/240 | 9'2-1/4"            | 7'10-1/2"                  | 8'2-1/4"     |
| 260/250 | 9'6-1/4"            | 8'2-1/4"                   | 8'6-1/4"     |
| 270/260 | 9'10-1/4"           | 8'6-1/4"                   | 8'10-1/4"    |

\* Fixing to the wall on one side (either left or right), is sufficient. The wall shall then be subject to both compressive and traction forces (see statics and construction requirements). With a two-sided fixing system, the wall shall only be subject to compressive forces.

## Statics and Construction Requirements - Installation Indoor



The system units are locked onto the construction frame points of support using heavyduty dowels (having a drilling depth of 4" to 4-3/4").

Base plate thickness minimum 7"! Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

Special foundations are required with asphalt floors or paving-stones.

### ONE-SIDED SUPPORT

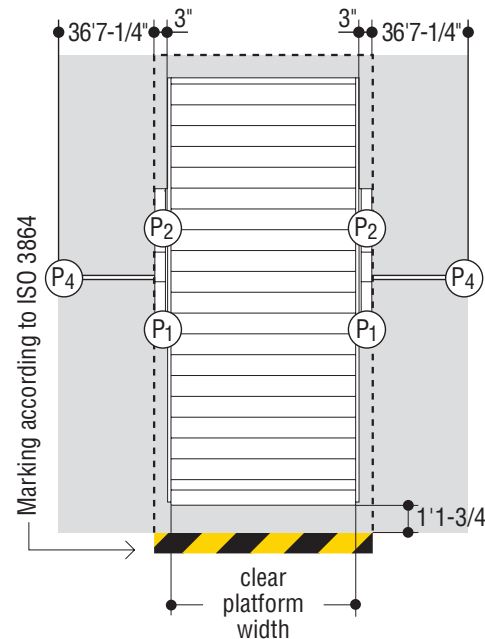
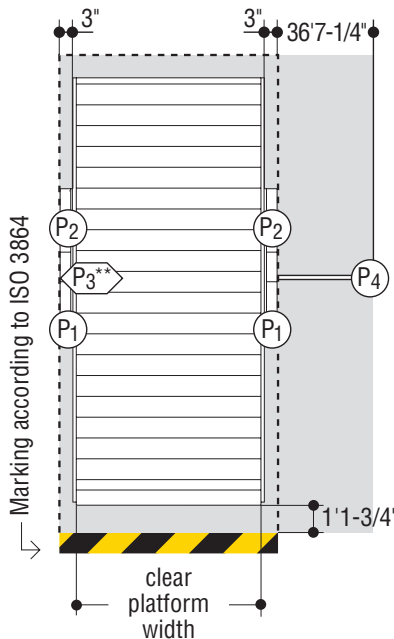
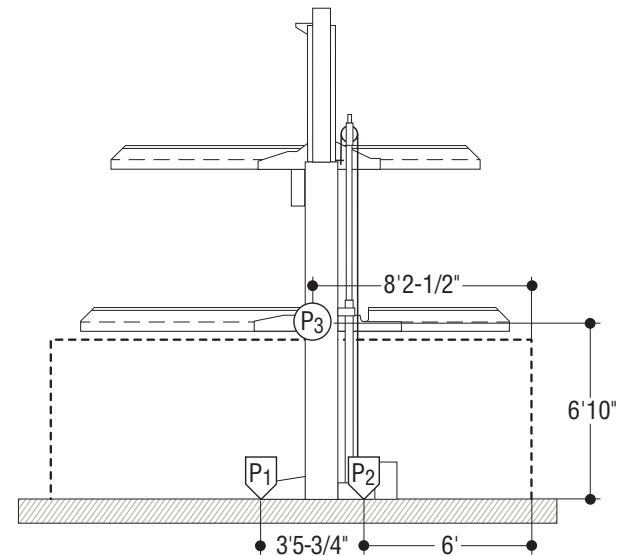
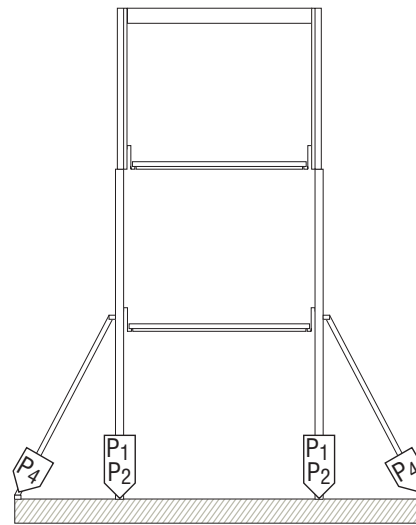
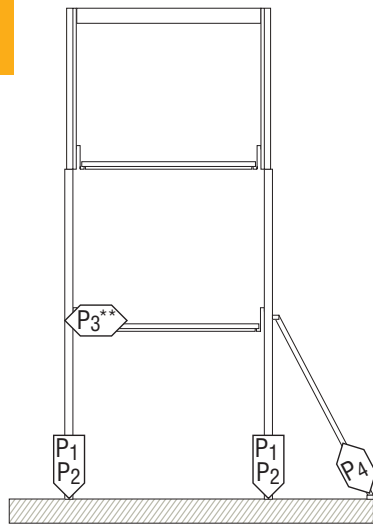
|      | 421-2.0 | 421-2.6 |
|------|---------|---------|
| P1 = | +20KN*  | +25KN   |
| P2 = | +18KN   | +21KN   |
| P3 = | ±3KN    | ±3KN    |

### TWO-SIDED SUPPORT

|      | 421-2.0 | 421-2.6 |
|------|---------|---------|
| P1 = | +20KN*  | +25KN   |
| P2 = | +18KN   | +21KN   |
| P3 = | +3KN    | +3KN    |

\*All static loadings include the weight of the car.

## Statics and Construction Requirements - Installation Outdoor



The system units are locked onto the construction frame points of support using heavyduty dowels (having a drilling depth of 4" to 4-3/4").

Base plate thickness minimum 7"! Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

Special foundations are required with asphalt floors or paving-stones.

For outdoor installation sideways supporting is necessary; available against additional charge.

The wind load compliant to DIN 1055 Part 4 amounts to 0.5 kN/m<sup>2</sup>.

The snow load compliant to DIN 1055 Part 5 amounts to 0.75 kN/m<sup>2</sup>.

### ONE-SIDED SUPPORT

|      |         |
|------|---------|
| P1 = | +27KN*  |
| P2 = | +23KN   |
| P3 = | +10KN** |
| P4 = | ±22KN   |

### TWO-SIDED SUPPORT

|      |        |
|------|--------|
| P1 = | +27KN* |
| P2 = | +23KN  |
| P4 = | +22KN  |

\* all static loadings include the weight of the car

\*\* P3 (compressive and traction forces) only occur when the system is anchored to a building on one side. If the system is anchored to a building, lateral support (P4) can be omitted.

## TEMPERATURE

The installation is designed to operate between 40°F and 105°F. Atmospheric Humidity: 50% at 105°F. If the local circumstances differ from the above please contact Harding Autopark Systems.

## HYDRAULIC POWER PACKS AND ELECTRICAL SPECIFICATION

For the accommodation of the hydraulic power packs an additional space is required which will be determined during the verifications of the drawings, e.g. in a wall recess.

Connection 208-230V, 50/60Hz, 3 Phase. Power consumption max. 3.5 kW. Fuse or circuit breaker 3 x 30A slow blow and supply line 3 Ph+N+PE (according to local regulations) up to main switch, and connection of the supply line is performed by customer.

## DIMENSIONS

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in feet and inches.

## CONFORMITY TEST

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

## NOTES

In case of lower cars with spoilers, contact Harding Autopark Systems (see "clearance profile").

## MAINTENANCE

Annual maintenance is performed at conclusion of a maintenance contract.

## PROTECTION AGAINST CORROSION

Periodic cleaning of system according to Maintenance Instructions must be carried out in addition to regularly scheduled maintenance by Harding Autopark Systems.

Clean up galvanized parts and platforms of dirt and road salt as well as other pollution (corrosion danger)!

Pit must be well ventilated.

## FIRE SAFETY

Each and every fire safety requirement and all possible mandatory item(s) and equipment(s) (fire extinguishing systems and fire alarm systems, etc.) are to be provided by the customer.

## CLEARANCE PROFILE (STANDARD CAR)

