



# DHOLLANDIA



## POCKET GUIDE PRODUCT RANGE 2015



**DHOLLANDIA**

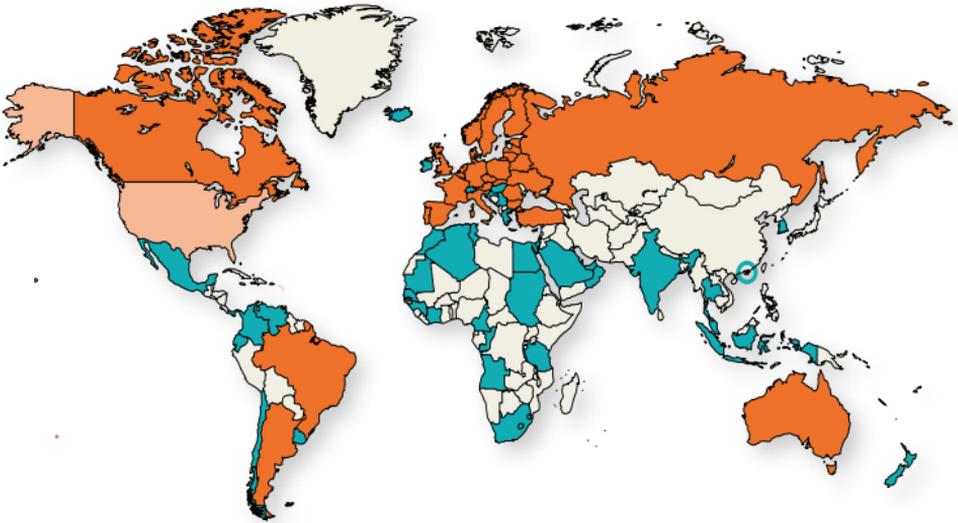
**POCKET GUIDE  
PRODUCT RANGE 2015**

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# DHOLLANDIA facts & figures

- Founded in 1968, more than 45 years of experience in the tail lift business
- Europe's N° 1 manufacturer of tail lifts, with production in excess of 35,000 units per year and more than 550,000 units sold since 1968
- Unparalleled product range with lift capacities ranging from 150 to 16,000 kg, all developed via internal growth
- Production sites in 5 countries
- Extensive vertical integration and technological leadership: more than 90% of mechanical, hydraulic and electrical parts used are manufactured in-house
- Professional network of DHOLLANDIA Area Sales & Service Centres (Europe) and independent distributors (outside Europe) in 6 continents and more than 60 countries worldwide



 DHOLLANDIA Group       Independent distributor



See [www.dhollandia.com](http://www.dhollandia.com) for our worldwide network.



# 6 good reasons to buy DHOLLANDIA



## 1- Safe & reliable



- No electronic components, exceptionally reliable
- Adapted to the intensive use and heavy duty work
- Strong & robust 4-cylinder tail lifts (\*)
- Electrical safety valves mounted to all cylinders (\*)
- Manual emergency back-up operation on all electro valves
- Level ride plus automatic tilt at ground level on most commercial lift models (\*)



## 2- Flexible & client-oriented

- Small enough to care, big enough to cope
- Wide range of standard products ranging from 150 to 16,000 kg
- Extensive vertical integration and technological leadership: more than 90% of all mechanical, hydraulic and electrical parts used are manufactured in-house
- Therefore perfectly geared up to develop and manufacture tailor-made lifts and creative client-oriented solutions



## 3- Superior finish

- Low maintenance bearings and grease nipples in all critical articulation points
- Piston rods in hard-chromed stainless steel for all cylinders exposed to adverse weather conditions
- Best possible protection against corrosion: **HOT-DIP ZINC PLATED finish** or **Protection PLUS finish** on the majority of lifts

**HOT-DIP  
ZINC PLATED**

**KTL POWDER**  
painted + coated  
**Protection PLUS**



#### **4- Economic & budget friendly**

- Optimum price-quality ratio
- Lifts designed to allow easy maintenance
- Attractive spare parts prices and low maintenance costs
- Longer life-time and durability



#### **5- Strong environmental focus**



- Use of Best Available Techniques in surface treatment and waste water treatment
- Use of rain water for industrial purposes
- Application of wind and solar energy to power manufacturing processes
- Maximum elimination of lost packaging material
- ISO 14001 certified



#### **6- The safe and clever buy**

- Modern lift range offering many safety features and functional options
- Professional service network in more than 60 countries across the world
- More than 550.000 units sold are the proof of customer satisfaction and loyalty
- Preferred choice of many transport companies, fleet-owners, rental companies and truck body manufacturers

(\*) Generic characteristics for most types of commercial lifts

# Best possible protection for your investment

DHOLLANDIA uses 2 premium surface treatment finishes for steel components, raising the quality and corrosion protection of the finished product to the absolute top in the tail lift industry.

Most popular commercial lifts are supplied in **HOT-DIP ZINC PLATED finish**, the less common lifts in **Protection PLUS finish**.



DHOLLANDIA's **Protection PLUS** paint finish combines innovative technologies to raise the quality and corrosion protection of its tail lifts to the highest level.

Protection PLUS incorporates 4 important steps:

1. Shot blasting of the steel substrate
2. 3-cation zinc phosphate
3. KTL cathodic dip epoxy coating (KTL = Katodische Tauch-Lackierung)
4. Polyester powder top coat

## E-coat (KTL)



## Polyester powder coat



**HOT-DIP ZINC PLATING** is based on the metallurgic bond between the steel parts and zinc, melted at 460 °C. The zinc-iron alloys formed in this way, offer a number of clear advantages:

**HOT-DIP  
ZINC PLATED**

- ▶ **Best possible protection against corrosion**
- ▶ Improved metallurgic characteristics
- ▶ Better protection against shocks and wear
- ▶ Protects the outside **and inside** of steel structures (unlike e-coat or conventional paint systems, whose effect is limited to the painted outside surfaces)

**Hot zinc melted at 460 °C**



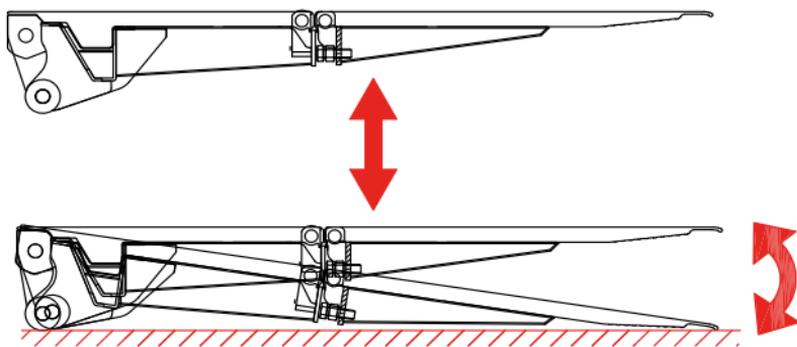
Green technology: life cycle assessments have proven that zinc-plating is the most environmentally friendly method of anti-corrosion protection.

## Different types of RIDE

The **RIDE** of a lift describes the movement that its platform goes through when lowering from the vehicle floor to the ground; or vice versa when lifting from the ground to the vehicle floor.

DHOLLANDIA mainly uses 3 types of rides.

### 1 Wedge or conical platform Level ride + automatic tilt at ground level



When lowering, the platform remains level from the vehicle floor down until the platform rollers touch the ground. Next, the platform tilts down to an inclined position that allows loading and unloading.

When lifting off the ground, the platform first tilts up from its inclined position on the ground to the horizontal level, then continues a level ride to the vehicle floor.

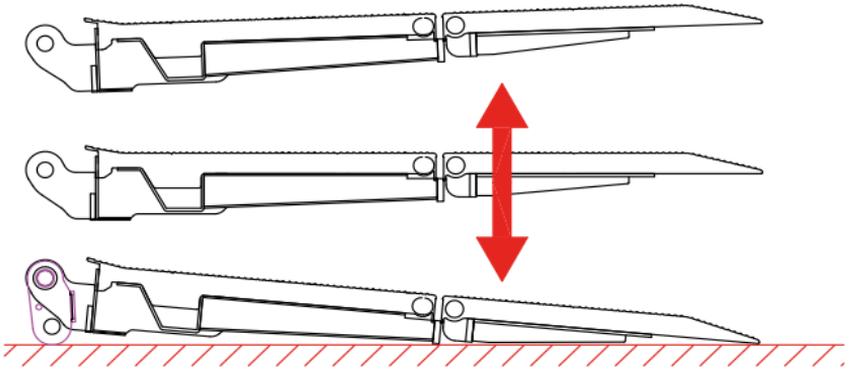
#### Recommended for:

- ▶ higher capacity applications, heavier loads
- ▶ applications where easy on- and off-loading of pallets with pallet jacks is required
- ▶ applications where adjustable platform orientation is required (tilt cylinders)

#### Used on:

DH-L and DH-S lifts, most DH-R lifts

## ② Half-dip ride



When lowering, the platform progressively tilts down from a level position at the vehicle floor to an inclined position at the ground. (And vice versa when lifting).

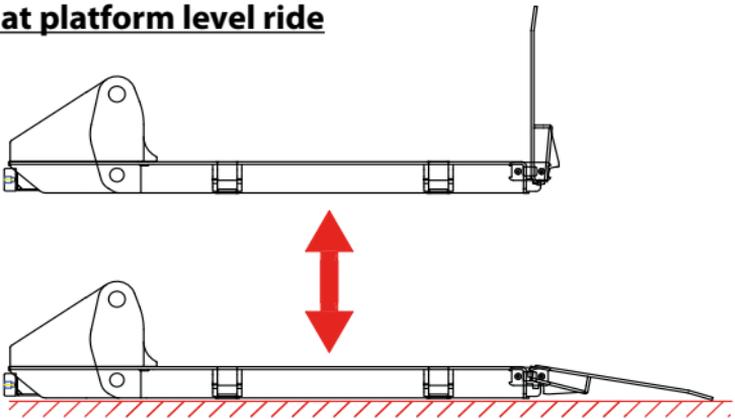
### Recommended for:

- ▶ applications where the load is stable on the platform: parcels, tyres, boxes, white & brown goods, drums, etc...
- ▶ Low-budget, low-maintenance environment

### Used on:

DH-RP lifts

## ③ Flat platform level ride



The platform remains level during the full lifting / lowering cycles. The rear end of the platform can be a fixed leading edge, or hinged ramps which adjust more easily to uneven surfaces.

### Recommended for:

applications where the load is unstable on the platform: roll-cages, tall and top-heavy objects

### Used on:

DH-LK and DH-SK lifts, most column lifts, most passenger lifts

# Control units for all applications...



DHOLLANDIA offers a wide variety of different control units to suit particular lift models, special applications and the client's individual requirements. Instructions for mounting and risk analysis are available in the mounting instructions.

## Most popular auxiliary controls



OAE001



OAE005



OAE011



OAE015



OAE060



E0452 / E0453

## Most commonly used exterior control boxes

(conform with CE safety regulations, all exterior control boxes sold in Europe have mandatory 2-hand control)



### **OAE030.BT**

Exterior control box with joy-stick, safety switch and main battery isolator switch



### **OAE031.Z (OAE035.Z)**

3+1 button (or 4+1 button) control unit, integrated in the body panel, or mounted under the vehicle body, without isolator switch



### **OAE039.BP**

Exterior control unit incorporated in the cover of the pump unit, with joy-stick, safety switch and main battery isolator switch



### **OAE041.BP**

Arctic exterior control box with IP67 rated push buttons, safety switch and main battery isolator switch



### **OAE043.BT**

Slim-line arctic exterior control box with IP67 rated toggle switches and main battery isolator switch



## ... and an endless list of options to choose from



**DHOLLANDIA** offers an almost endless list of electrical, hydraulic and mechanical options to fine-tune the lift to the client's individual requirements.

The most popular options involve:

- ▶ Control & ergonomics: various main and auxiliary controls
- ▶ Visibility: flashing platform lights & flags
- ▶ Load handling: roll-stops for pallets and roll cages
- ▶ Stability: hydraulic and mechanical stabilising legs
- ▶ Access: side loading ramps
- ▶ Operator safety: safety rails and fall protection, anti-slip platform surface finish & coatings
- ▶ Installation: quick-fit mounting solutions, plug & play connections
- ▶ Independence: battery & charging systems
- ▶ Finish: HOT-DIP ZINC PLATING, Protection Plus or individualised RAL colour schemes



# Reading help

## Lift capacity

Hydraulic tail lifts are not designed to LIFT / LOWER weights corresponding to their nominal capacity over the full surface of the platform. The nominal capacity is valid at a certain distance or centre of gravity, measured behind the rear of the vehicle body. Behind that centre, which is marked on the platform, the maximum safe working load of any brand of tail lifts diminishes according to specific load diagrams supplied with the lift.

Since lifts are being sold in many capacities and with various centres of gravity, it may seem a difficult task to make an objective comparison. Therefore, the concept load moment combines the nominal lift capacity with the applicable centre of gravity. It allows us to compare the total performance of the machine and to get some appreciation of its ability to endure heavy duty conditions over a longer time period.

Load moment = lift capacity x centre of gravity

Example: 2 lifts with identical capacity but different centre of gravity:

### Type DH-LM.20 :

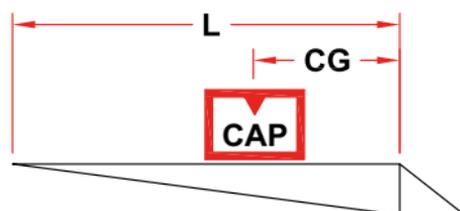
| CAP     | CG     | LM            |
|---------|--------|---------------|
| 1500 kg | 750 mm | 11.25 kNm     |
| 2000 kg | 750 mm | <b>15 kNm</b> |

### Type DH-LM.30 :

| CAP     | CG      | LM            |
|---------|---------|---------------|
| 1500 kg | 1000 mm | 15 kNm        |
| 2000 kg | 1000 mm | <b>20 kNm</b> |
| 2500 kg | 1000 mm | 25 kNm        |
| 3000 kg | 1000 mm | 30 kNm        |



$$2000 \text{ kg} \times 750 \text{ mm}$$
$$20 \text{ kN} \times 0.75\text{m} = 15 \text{ kNm}$$



$$\text{LM} = \text{CAP} \times \text{CG}$$

CAP = nominal lift capacity  
CG = centre of gravity  
LM = load moment = CAP x CG

## Units of measurement

Unless stated otherwise within the text, all weights are expressed in kg and all dimensions in mm.

## Weight indications of the lifts

### Weights:

| STEEL platform |      |
|----------------|------|
| 1750 mm        | ? kg |
| 2000 mm        | ? kg |

| ALU platform |      |
|--------------|------|
| 1800 mm      | ? kg |
| 2000 mm      | ? kg |

DHOLLANDIA lifts are available with a wide choice of different lift arms, lift frames and mounting plates, to allow integration to a wide variety of vehicles in optimum circumstances. Furthermore, most lifts are available with different platform designs and a long list of options to adapt the lift to the client's individual needs.

As a consequence, the weights mentioned in our sales literature are indicative and must be read : "from ... kg onwards". The real weights might vary according to the type of vehicle and the execution of the lift. Ask your national DHOLLANDIA distributor for further detail.

## Voltage

Unless stated otherwise within the text, all systems mentioned are designed for 12V - 24V commercial vehicles. Other voltage systems are available on request.

## Half width platforms, foldable platforms

All types of cantilever lifts (see chapter 3) are available with the standard platform, covering the full width of the vehicle body. But certain types are also available with half width or partial width platforms and vertically foldable platforms.

This possibility is indicated as follows:



Full width platform available



Half / partial width platform available



Half width frame + foldable platform available



Half / partial width platform not available



Half width frame + foldable platform not available



1



# Passenger lifts





→ Passenger lift for Multi Passenger Vehicles, minibuses and ambulances

## DH-PH1.03 • 300 kg



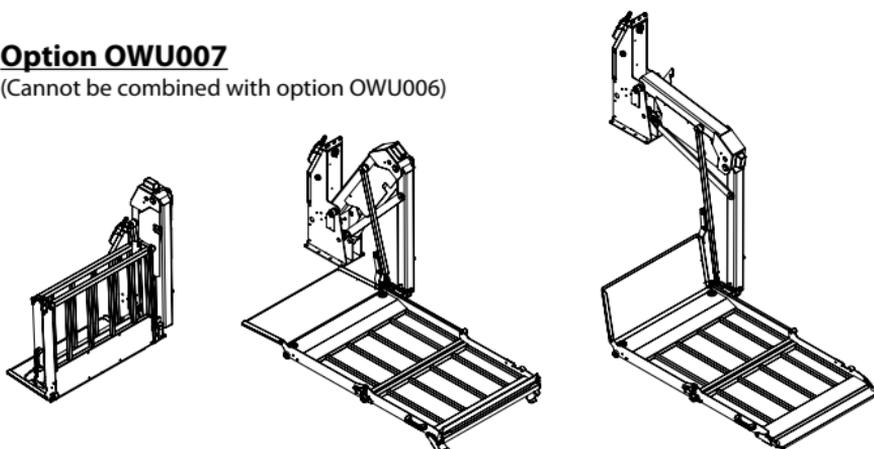
The DH-PH1 is a **linear 1-arm lift**, suitable for mounting inside the rear or side doors of a wide range of Multi Passenger Vehicles, minibuses and ambulance vehicles.

In its standard configuration, the DH-PH1 has its travel position just inside the doors of the vehicle. As an option, it can be equipped with an **articulated frame**, that allows to stow the platform against the side of the body, keeping the access through the vehicle doors completely free.

The DH-PH1 can be mounted at the rear doors or at the side door; at the left or right side in the door aperture.

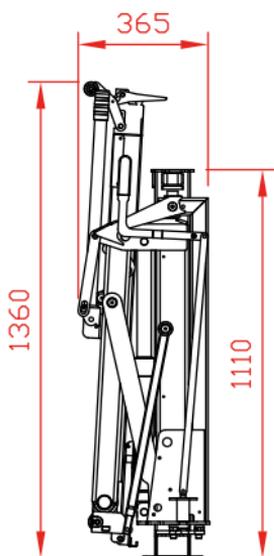
### **Option OWU007**

(Cannot be combined with option OWU006)

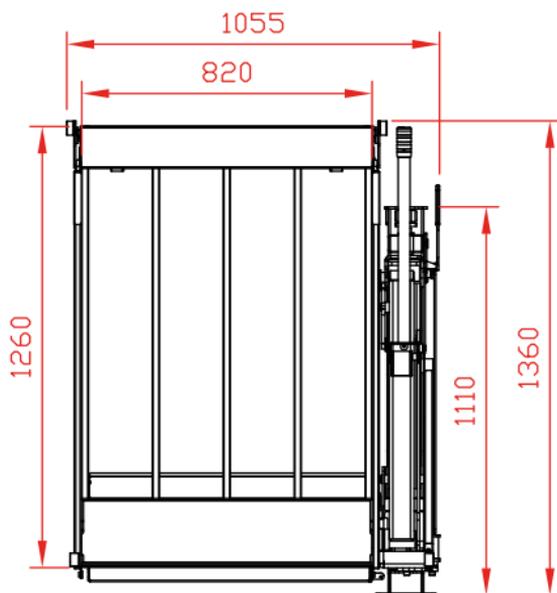


# Step-in model, easy to use and flexible

OWU006 in travel position  
mounted right side



OWU006 in work position  
mounted right side



## Lift capacity

## Weights [see pg. 15]

## Fitting dimensions

| CAP    |         | Standard | OWU006 | ARM    | 600 | 700 |
|--------|---------|----------|--------|--------|-----|-----|
| 300 kg | 1260 mm | 123 kg   | 139 kg | K max. | 700 | 950 |

## Technical specifications

|                                    |  |
|------------------------------------|--|
| Lift frame                         | <ul style="list-style-type: none"> <li>• 1 lift arm</li> <li>• Standard = fixed frame: the closed platform stands in the door aperture</li> <li>• Option OWU006 = articulated frame: the platform can be stowed in a travel position against the side of body</li> </ul> |
| Cylinders                          | 1 lift cylinder  |
| Type of ride [see pg. 8-9]         | Flat platform, level ride  |
| Platform details                   | <ul style="list-style-type: none"> <li>• Reinforced platform in meshed steel</li> <li>• Automatic roll-stop at the rear edge of the platform</li> <li>• Automatic bridge plate and toe-guard at the front edge of the platform</li> </ul>                                |
| Safety rails                       | 1, folding automatically   |
| Standard platform depths           | 1080 - 1170 - 1260 mm<br>Other depths on request (OWP002.L)  |
| Standard platform widths           | 820 standard / 720 optional (OWP002.W)   |
| Standard control unit [see pg. 10] | OAE001   |
| Standard finish of the lift frame  | Protection PLUS [OAT102]   |



→ Passenger lift for Multi Passenger Vehicles, minibuses and ambulances

## DH-PH2.03 • 350 kg

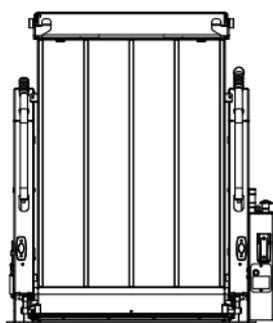


The DH-PH2 belongs to a new generation (2010-...) of **fully automatic linear passenger lifts**. It is suitable for mounting inside the rear doors of a wide range of Multi Passenger Vehicles, minibuses and ambulance vehicles.

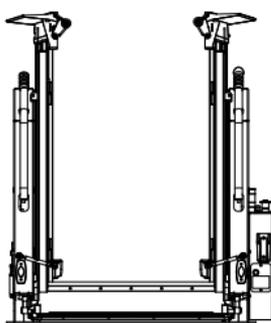
In comparison to the 1-arm model, the reinforced construction with 2 lift arms provides maximum platform stability. It increases the safety and sense of safety of the platform occupants.

The OWU003 with **horizontally folding platform** can be mounted in smaller vehicles and offers an improved rear view to the driver and passengers. The OWU001 / 002 with **vertical split platform** offer excellent rearward vision and an easy access to the vehicle interior.

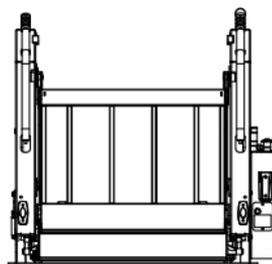
Standard



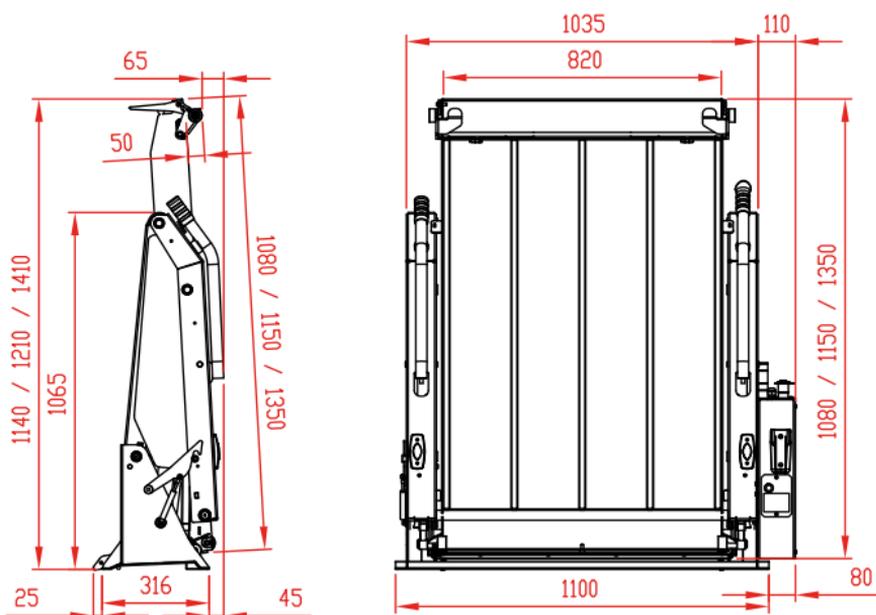
Option OWU001 / OWU002



Option OWU003



# Safe, reliable and comfortable lift with 2 lift arms



## Lift capacity

| CAP    |
|--------|
| 350 kg |

## Weights [see pg. 15]

| Meshed steel 350 kg |        |
|---------------------|--------|
| 1350 x 820          | 138 kg |
| 1150 x 820          | 134 kg |
| 1080 x 820          | 132 kg |
| OWU001              | +10 kg |
| OWU003              | +6 kg  |

## Fitting dimensions

| ARM    | 700 |
|--------|-----|
| K max. | 900 |

## Technical specifications

|   |   |
|---|---|
| Lift frame  | 2 lift arms   |
| Cylinders   | 2 lift cylinders  |
| Type of ride <small>[see pg. 8-9]</small>         | Flat platform, level ride   |
| Platform details                                  | <ul style="list-style-type: none"> <li>Reinforced platform in meshed steel</li> <li>Automatic roll-stop at the rear edge of the platform</li> <li>Automatic bridge plate and toe-guard at the front edge of the platform</li> </ul> |
| Safety rails                                      | 2, left & right, folding automatically  |
| Standard platform depths                          | 1080 - 1150 - 1350 mm<br>Other depths on request (OWP002.L)   |
| Standard platform widths                          | 820 standard / 920 optional (OWP002.W)  |
| Standard control unit <small>[see pg. 10]</small> | OAE001  |
| Standard finish of the lift frame                 | Protection PLUS [OAT102]  |



→ Passenger lift for Multi Passenger Vehicles, minibuses and ambulances

## DH-PH2.05 • 500 kg

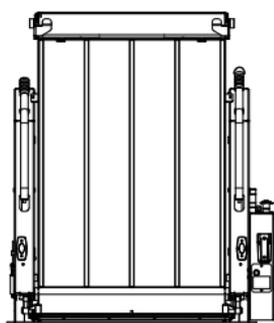


The reinforced linear 2-arm lift offers 500 kg lift capacity and fulfills the most demanding requirements of the passenger transport sector. The platform depth can be extended to 1600 mm to **load and unload hospital stretchers**. The platform width can be increased to 920 mm to suit **bariatric applications**, both wheelchairs and stretchers.

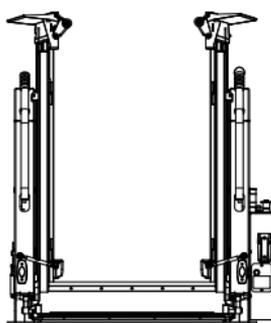
In comparison to the DH-PH2.03, this heavy duty model has a reinforced lifting mechanism, a stronger pump unit and longer lift arms suitable for floor levels up to 1150 mm above the ground.

The "bariatric" lift is available in 2 executions: a standard full-closure platform; and a vertical split platform (option OWU001).

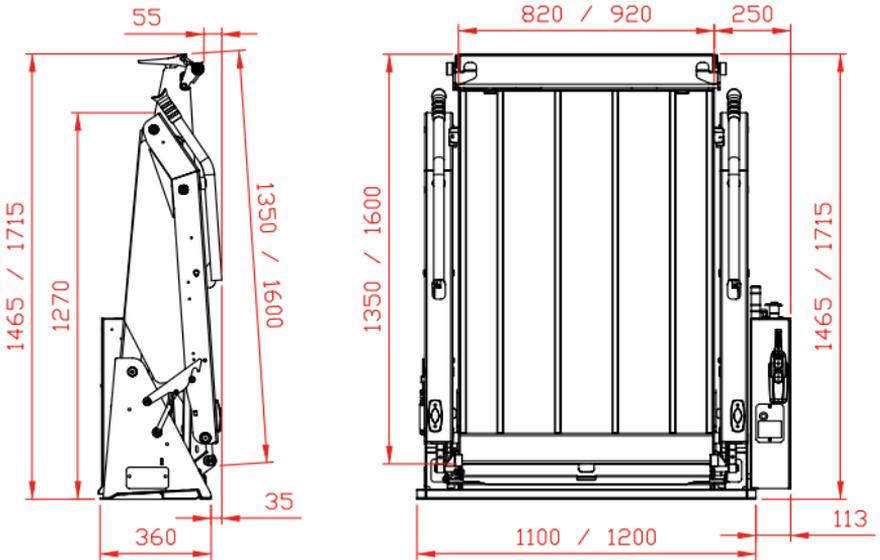
Standard



Option OWU001 / OWU002



# Bariatric 500 kg internal passenger lift



## Lift capacity

| CAP    |
|--------|
| 500 kg |

## Weights [see pg. 15]

| Meshed steel 500 kg |        |
|---------------------|--------|
| 1350 x 820          | 180 kg |
| 1600 x 920          | 190 kg |
| OWU001              | +15 kg |

## Fitting dimensions

| ARM    | 800  |
|--------|------|
| K max. | 1150 |

## Technical specifications

|                                    |   |
|------------------------------------|---|
| Lift frame                         | 2 lift arms   |
| Cylinders                          | 2 lift cylinders  |
| Type of ride [see pg. 8-9]         | Flat platform, level ride   |
| Platform details                   | <ul style="list-style-type: none"> <li>Reinforced platform in meshed steel</li> <li>Automatic roll-stop at the rear edge of the platform</li> <li>Automatic bridge plate and toe-guard at the front edge of the platform</li> </ul> |
| Safety rails                       | 2, left & right, folding automatically  |
| Standard platform depths           | 1350 - 1600 mm<br>Other depths on request (OWP002.L)  |
| Standard platform widths           | 820 standard / 920 optional (OWP002.W)  |
| Standard control unit [see pg. 10] | OAE001  |
| Standard finish of the lift frame  | Protection PLUS [OAT102]  |



→ Passenger lift for minibuses and ambulances

## DH-LSPH.05 • 500 kg



The DH-LSPH responds to the growing demand for more **robust passenger lifts** with **higher capacity** and **increased platform surface**.

The spacious platform is manufactured from meshed steel, to evacuate rain water, snow, dirt,... very quickly off the platform surface. At the rear end, a 100 mm high **automatic roll-stop** prevents the wheelchair from unintentional rolling off the platform. As an option, the platform can be hot-dip zinc plated and equipped with **safety rails**, foot controls and platform lights.

Adapted **bolt-on mounting plates** are available for most types of minibuses, to enable quick and easy fitting.

### Lift capacity

| CAP    |
|--------|
| 500 kg |

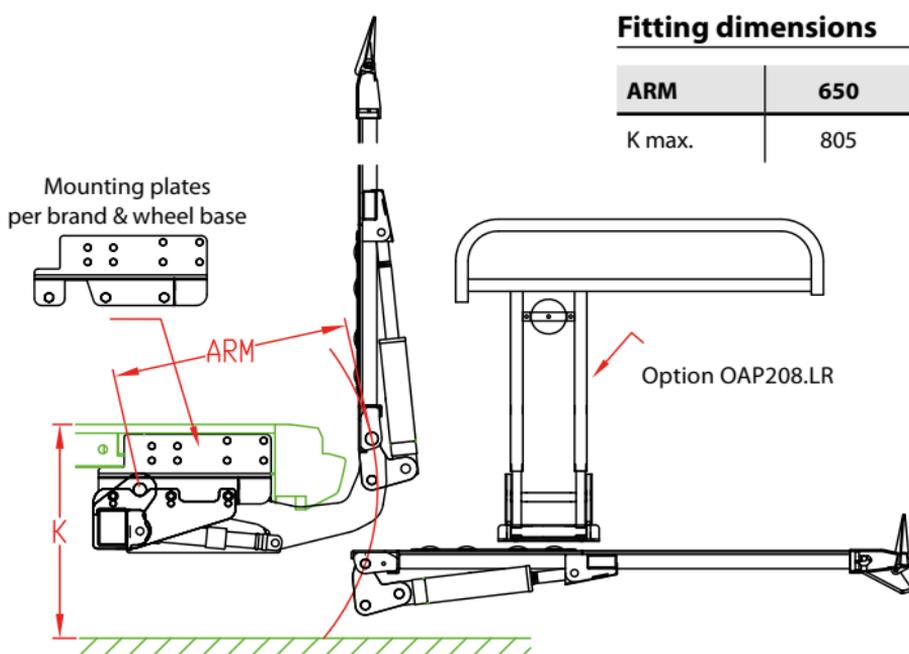
### Weights [see pg. 15]

| Meshed steel |        |
|--------------|--------|
| 1500 mm      | 190 kg |

# Heavy duty lift for taxis and ambulances

## Fitting dimensions

|            |            |
|------------|------------|
| <b>ARM</b> | <b>650</b> |
| K max.     | 805        |



## Technical specifications

|                                    |   |
|------------------------------------|---|
| Lift frame                         | 100 x 80 mm   |
| Cylinders                          | 2 lift cylinders + 1 tilt cylinder  |
| Type of ride [see pg. 8-9]         | Wedged platform. Level ride + automatic tilt at ground level  |
| Platform construction              | <ul style="list-style-type: none"> <li>• Meshed steel, powder coated RAL 9010 as standard, hot-dip zinc plating as option (OAT124)</li> <li>• Automatic roll-stops 100 mm high</li> </ul> |
| Safety rails                       | Option OAP208.LR: 2 rails, left & right, folding manually   |
| Standard platform depths           | Steel : 1500 mm<br>Other depths on request (OAP302.S)   |
| Standard platform widths           | 1300 mm<br>Other widths on request (OAP303)   |
| Standard control unit [see pg. 11] | OAE031.Z  |
| Standard finish of the lift frame  | Protection PLUS [OAT102]  |

## Special mounting brackets are available for:

- Citroën Jumper / Relay
- Fiat Ducato
- Ford Transit
- Iveco Daily
- Mercedes Sprinter
- Peugeot Boxer
- Renault Master FWD / Trafic
- Opel Movano FWD / Vivaro
- Volkswagen Crafter / LT
- Nissan NV400 / NV200
- LDV Maxus V80



→ Passenger lift for minibuses, midibuses, coaches and ambulances

## DH-VZH.03 • 300 kg



The interior column lift DH-VZH is designed to suit a wide range of Multi Passenger Vehicles, minibuses, coaches, trains, ...

In its travel position, the platform is **stowed against the side panel** of the vehicle. Upon use, the lift frame is turned to a work position outside the vehicle. Then the platform is opened and the safety rail and bridge plate are deployed, all by hand. The hydraulic lift functions are operated by means of 2 buttons integrated in the lift column.

The standard platform is made of 1 single section. **Foldable platforms** (option S719) are available for vehicles with insufficient door aperture, or in order to increase the overall useful platform surface.

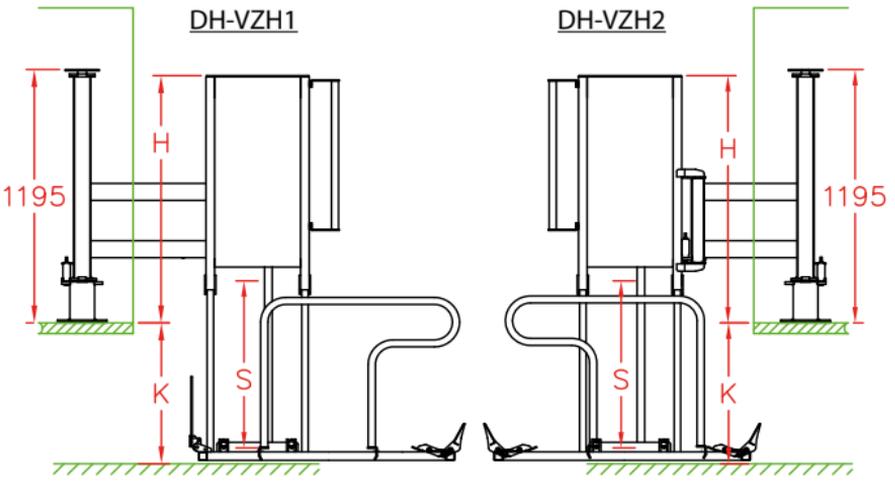
### Lift capacity

| CAP    |
|--------|
| 300 kg |

### Weights [see pg. 15]

| Meshed steel |        |
|--------------|--------|
| 860x1200 mm  | 155 kg |

# Column lift with free access through the doors



## Fitting dimensions

| Stroke S | 750  | 1150 (1) | 1550 (2) |
|----------|------|----------|----------|
| K max.   | 700  | 1100     | 1500     |
| H        | 1165 | 1565     | 1965     |

(1) Option S716    (2) Option S717

## Technical specifications

|                                   |  |
|-----------------------------------|--|
| Lift frame                        | <ul style="list-style-type: none"> <li>• Column lift with single pillar</li> <li>• VZH1: frame with 1 articulation point. In work position the platform stands right behind the body</li> <li>• VZH2: frame with 2 articulation points. The platform can pivot towards the pavement</li> </ul> |
| Cylinders                         | 1 lift cylinder  |
| Type of ride [see pg. 8-9]        | Flat platform, level ride  |
| Platform details                  | <ul style="list-style-type: none"> <li>• Platform in meshed steel</li> <li>• VZH1: hinged bridge plate at the front edge of the platform</li> <li>• VZH2: platform in 1 single section</li> <li>• Mechanical roll-stop at the point</li> </ul>   |
| Safety rails                      | 1, folding manually  |
| Standard platform dimensions      | 860x1200 mm<br>Other dimensions (S718) & foldable platforms (S719) available on request  |
| Standard control unit             | 2-button control integrated in the lift column   |
| Standard finish of the lift frame | Protection PLUS [OAT102]   |



→ Passenger lift for ambulances

## Ambulance lifts 500 - 1000 kg



# Flexible solutions to suit special customer requirements

DHOLLANDIA is a lift manufacturer in the true sense of the word: more than 90% of the components used on our lifts, are manufactured and assembled in-house.

Our powerful production apparatus and our premium **flexibility** enables us to develop and offer **creative client-orientated solutions**.



Our product portfolio contains a wide variety of realisations for the handling of wheelchairs, hospital beds, stretchers, bariatric stretchers etc...

These ambulance lifts are available as **full-width** platform, **half-width** platform, full-width platform with a **folding section** to leave the access through one door free, with (telescopic) **safety rails**, special **roll-stop** designs etc...

Upon realisation of each project, the focus on customer requirements takes a central position.



→ Passenger lift for Multi Passenger Vehicles, mini- and midi buses and ambulances

## DH-CH001.03 • 300 kg



The passenger lift DH-CH001 stows neatly in a sealed cassette box under the loading floor of the vehicle. This solution keeps the **access through the rear doors free** and **occupies no space inside the vehicle**.

The DH-CH is **retracted hydraulically**, the platform point, bridge plate and safety rails are deployed by hand.

Its slim platform (only 20 mm thick) enables wheelchair passengers to embark and disembark with minimal effort.

The cassette is equipped with a full width **aluminium step** with anti-slip profiling, helping operators to step in and out of the vehicle safely.

### Lift capacity

| CAP    |
|--------|
| 300 kg |

### Weights [see pg. 15]

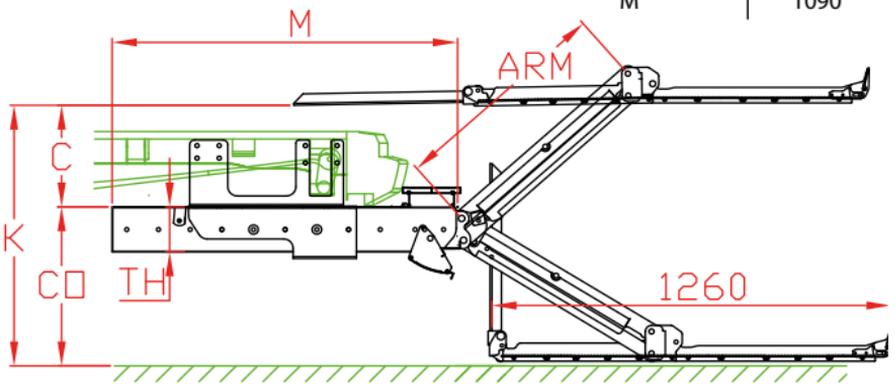
| Alu / Alu   |        |
|-------------|--------|
| 1260x800 mm | 170 kg |

# Short cassette lift with foldable platform



## Fitting dimensions

| ARM     | 700  |
|---------|------|
| K max.  | 850  |
| C max.  | 350  |
| CO max. | 500  |
| TH      | 145  |
| M       | 1090 |



## Technical specifications

|                                   |   |
|-----------------------------------|---|
| Lift frame                        | 2 lift arms   |
| Cylinders                         | 2 lift cylinders + 2 fixed stabilisers  |
| Retraction in / out               | Hydromotor + gear wheel system  |
| Type of ride [see pg. 8-9]        | Flat platform, level ride   |
| Platform details                  | <ul style="list-style-type: none"> <li>• Steel frame + alu infill profiles</li> <li>• Automatic roll-stop at the rear edge of the platform</li> <li>• Bridge plate and toe-guard at the front edge of the platform</li> </ul> |
| Safety rails                      | 2, left & right, folding manually   |
| Standard platform dimensions      | 1260 x 800 mm   |
| Standard control unit             | 3-button remote control with spiral cable   |
| Standard finish of the lift frame | KTL epoxy e-coating   |



→ Passenger lift for midibuses and coaches

## DH-CH.100-103 • 350 - 500 kg



The DH-CH100...103 are **heavy duty cassette lifts**, to assist wheelchair passengers to embark or disembark the midibus or coach in optimum safety.

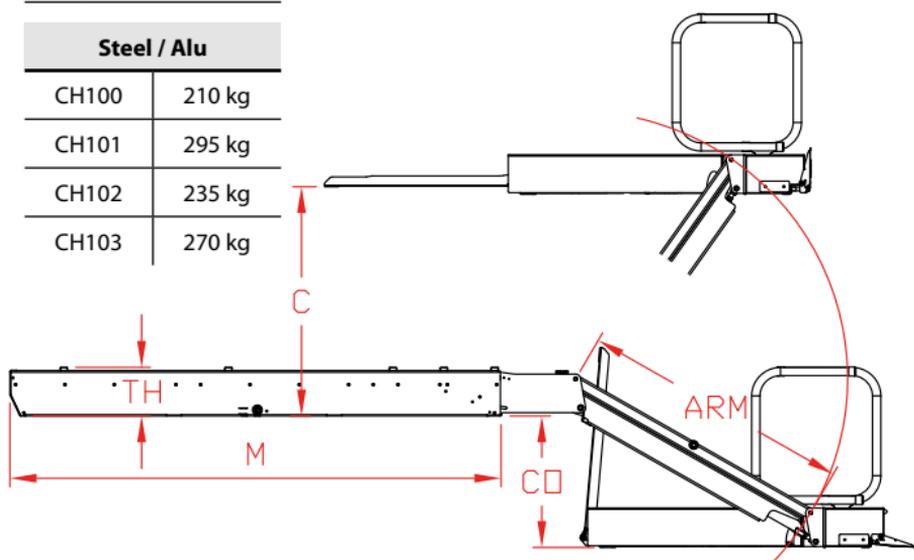
The various lifts in this range are specially designed for particular mounting positions, under the chassis, in a compartment high above the ground (e.g. above wheel box), or integrated in the stairs at the access door.

The DH-CH100...103 are equipped with a firm, single-piece platform, eliminating as many components as possible (reduced maintenance).

# Robust, heavy duty cassette lifts with single-piece platform

## Weights [see pg. 15]

| Steel / Alu |        |
|-------------|--------|
| CH100       | 210 kg |
| CH101       | 295 kg |
| CH102       | 235 kg |
| CH103       | 270 kg |



## Fitting dimensions

| Type           | ARM  | CAP       | CO max. | TH  | M    | C min. | C max. | K max. |
|----------------|------|-----------|---------|-----|------|--------|--------|--------|
| CH100          | 800  | 350       | 570     | 191 | 1917 | 530    | 590    | 1160   |
| CH100-M        | 1050 | 350       | 700     | 191 | 1917 | 660    | 780    | 1480   |
| CH101          | 1680 | 350 / 500 | 1250    | 205 | 2250 | 280    | 350    | 1600   |
| CH102 [S]      | 800  | 350       | 500     | 150 | 1995 | 290    | 680    | 1180   |
| CH102-OV [S]   | 1100 | 350       | 780     | 150 | 1995 | 190    | 400    | 1180   |
| CH103 [S]      | 1100 | 350 / 500 | 535     | 200 | 1995 | 380    | 940    | 1475   |
| CH103-1300 [S] | 1300 | 350       | 640     | 200 | 2195 | 530    | 1150   | 1790   |
| CH103-1280 [S] | 1280 | 350 / 500 | 600     | 200 | 1995 | 485    | 1135   | 1735   |

[S] = suitable for integration in the access stairs of the bus

## Technical specifications

|                                    |  |
|------------------------------------|--|
| Lift frame                         | 2 lift arms  |
| Cylinders                          | 2 lift cylinders   |
| Retraction in / out                | Electric motor + gear wheel system   |
| Type of ride [see pg. 8-9]         | Flat platform, level ride  |
| Standard platform dimensions       | 1200 x 800 mm (LxW)  |
| Platform details                   | <ul style="list-style-type: none"> <li>Aluminium platform with anti-slip coating</li> <li>Automatic roll-stop at the point</li> <li>Automatic bridge plate to the vehicle floor</li> </ul> |
| Safety rails                       | 2, left & right, folding manually  |
| Standard control unit [see pg. 10] | OAE001   |
| Standard finish of the lift frame  | KTL epoxy e-coating  |



→ Passenger lift for midibuses and coaches

## DH-CH.002-003 • 350 kg



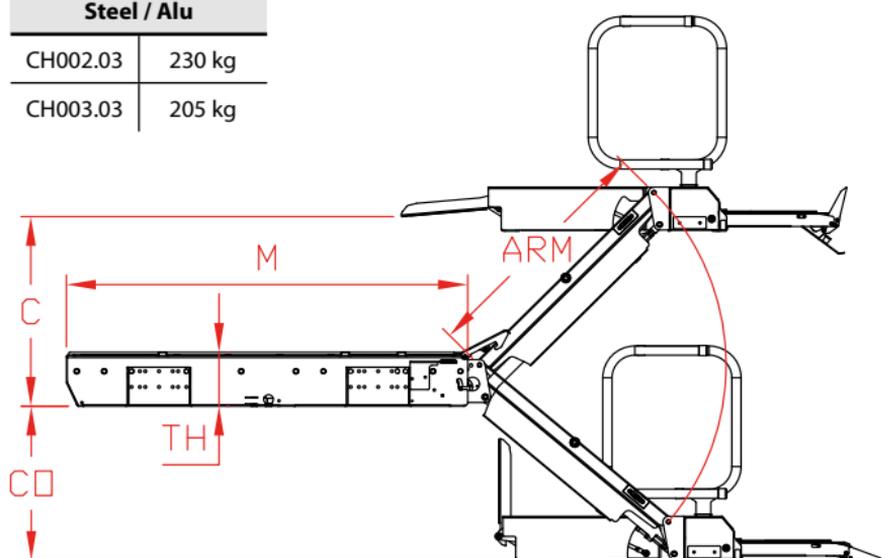
In comparison to the DH-CH100...103, the DH-CH002 and -CH003 are equipped with **extensible platforms**, significantly **reducing the required fitting space** under or inside the vehicle.

Both lifts are mounted below the floor or chassis of the vehicle, at the rear door or at the side door. The platform of the DH-CH002 is hydraulically extensible. The extension part of the DH-CH003 platform is extended / retracted by hand.

# Short cassette lift with extensible platforms

## Weights [see pg. 15]

| Steel / Alu |        |
|-------------|--------|
| CH002.03    | 230 kg |
| CH003.03    | 205 kg |



## Fitting dimensions

| Type        | ARM | CAP | CO max. | TH  | M    | C min. | C max. | K max. |
|-------------|-----|-----|---------|-----|------|--------|--------|--------|
| CH002.03    | 900 | 350 | 570     | 200 | 1475 | 370    | 700    | 1270   |
| CH003.03.01 | 950 | 350 | 730     | 130 | 1500 | 190    | 350    | 1080   |
| CH003.03.02 | 950 | 350 | 730     | 130 | 1800 | 190    | 480    | 1210   |

## Technical specifications

|                                    |  |
|------------------------------------|--|
| Lift frame                         | 2 lift arms  |
| Cylinders                          | 2 lift cylinders   |
| Retraction in / out                | Electric motor + gear wheel system   |
| Type of ride [see pg. 8-9]         | Flat platform, level ride  |
| Standard platform dimensions       | 1200 x 800 mm (LxW)  |
| Platform details                   | <ul style="list-style-type: none"> <li>• Aluminium platform with anti-slip coating</li> <li>• Automatic roll-stop at the point</li> <li>• Automatic bridge plate to the vehicle floor</li> </ul> |
| Safety rails                       | 2, left & right, folding manually  |
| Standard control unit [see pg. 10] | OAE001   |
| Standard finish of the lift frame  | KTL epoxy e-coating  |



→ Passenger lift for coaches

## DH-RB.05 • 350-500 kg



The **fold-away** lift DH-RB is specially designed for coaches, to help wheelchair passengers to embark and disembark the vehicle in a comfortable and safe manner.

In its travel position, this lift is neatly folded away in the **area below the door exit on the upper aisle** of the coach.

Upon deployment, the platform is first lowered to the ground, then unfolded into work position.

The standard model is mounted directly under the vehicle door. As an option, it can be equipped with a **side-shift frame** (option S981), making it suitable for coaches where the door position is offset from the fitting space of the lift.

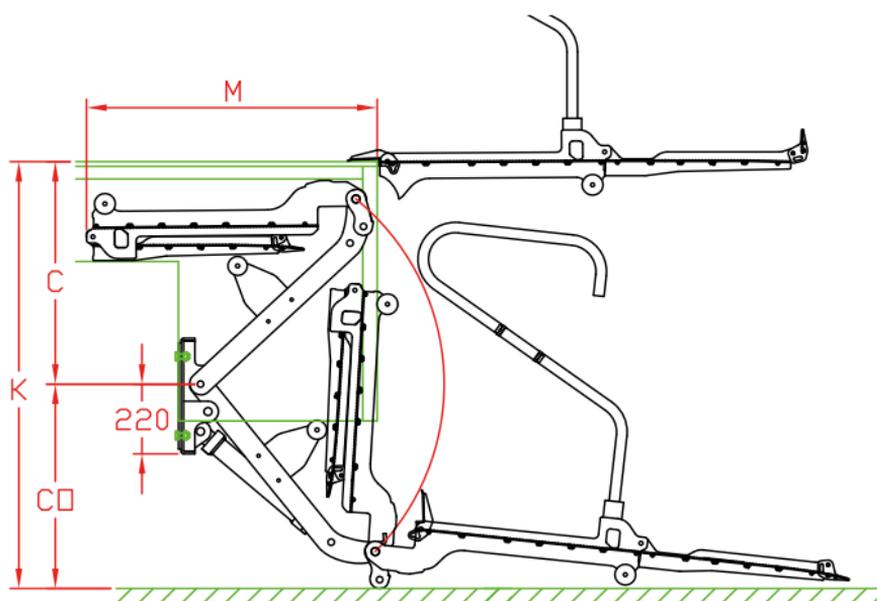
### Lift capacity

| CAP    |
|--------|
| 350 kg |
| 500 kg |

### Weights [see pg. 15]

| Alu / Alu |          |
|-----------|----------|
| 1380 mm   | 175 kg + |

# Powerful fold-away lift for the heaviest wheelchairs



## Fitting dimensions

| ARM          | 760                                | 820  | 880  | 940  | 1000 |
|--------------|------------------------------------|------|------|------|------|
| K max.       | 1410                               | 1510 | 1610 | 1710 | 1810 |
| C max.       | on request - ask for study drawing |      |      |      |      |
| CO max.      | on request - ask for study drawing |      |      |      |      |
| M (platform) | ± 915                              |      |      |      |      |

## Technical specifications

|                                    |  |
|------------------------------------|--|
| Lift frame                         | Base plate to be bolted to the vehicle chassis   |
| Cylinders                          | <ul style="list-style-type: none"> <li>• 1 central lift cylinder for max. platform stability</li> <li>• 2 fixed stabilisers for the platform orientation</li> </ul>  |
| Type of ride [see pg. 8-9]         | Wedged platform. Level ride + automatic tilt at ground level   |
| Platform details                   | <ul style="list-style-type: none"> <li>• Aluminium platform with anti-slip surface</li> <li>• Manual unfolding of the platform and its point</li> <li>• Automatic roll-stop at the point</li> <li>• Automatic roll-stop at the front edge as an option (S980)</li> </ul> |
| Safety rails                       | 2, left & right, folding manually  |
| Standard platform dimensions       | 1380 x 800 mm (LxW)<br>Other dimensions on request   |
| Lift arm lengths                   | 760 - 820 - 880 - 940 - 1000 mm  |
| Standard control unit [see pg. 10] | OAE001   |
| Standard finish of the lift frame  | Protection PLUS [OAT102]   |



→ Passenger lift for midibuses, urban buses

## DH-TV.03 • 300 kg



The **DH-TV 300 kg** is specially designed for **urban buses**, to assist wheelchair passengers to embark and disembark the vehicle in a comfortable and safe manner.

The lift is usually mounted at one of the side doors of the bus and occupies the space that is otherwise occupied by the access stair. In rest position, it takes the shape and function of the **access stair** and is used by pedestrians to step in & out of the bus. Upon deployment, the system is **automatically transformed into a lifting platform** and is used to assist wheelchair users to enter & exit the vehicle.

The DH-TV is available in 3 executions:

- a **STANDARD execution** and the **MICRO-lift** (option OWU005), both with automatic deployment of the lift platform;
- a **MANUAL execution** whereby the extension part of the platform is extended / retracted by hand.

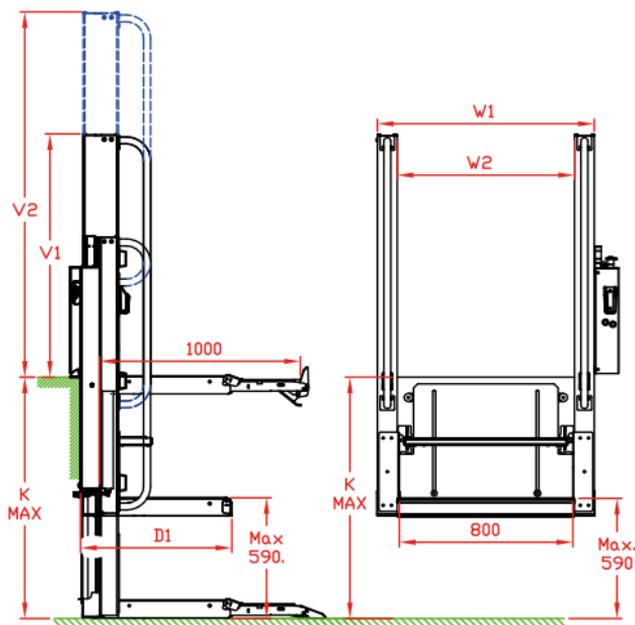
### Lift capacity

| CAP    |
|--------|
| 300 kg |

### Weights [see pg. 15]

| Steel construction |        |
|--------------------|--------|
| Standard           | 185 kg |
| Micro              | 155 kg |

# From stair to lift platform in just 5 seconds



## Fitting dimensions

| Type   | Standard | Micro | Manual |
|--------|----------|-------|--------|
| K max. | 1185     | 1025  | 985    |
| D1     | 730      | 630   | 580    |
| V1     | 1135     | 1135  | 1135   |
| V2     | 1735     | 1575  | 1575   |
| W1     | 1050     | 1050  | 1110   |
| W2     | 858      | 858   | 918    |

## Technical specifications

|                                   |   |
|-----------------------------------|---|
| Lift frame                        | 2 lift columns in light-weight aluminium  |
| Cylinders                         | 2 lift cylinders with direct action on the lift system; no cables, chains or belts  |
| Working principle                 | <ul style="list-style-type: none"> <li>• Upper step articulates from horizontal to vertical position when the platform is deployed</li> <li>• Lower step incorporates a sliding platform, enabling to extend from a step to a wheelchair lift platform</li> <li>• On Standard and Micro models, the extension of the platform is automatic. On the Manual model, the extension part of the platform is manipulated by hand</li> <li>• Automatic roll-stop at the rear edge of the platform</li> </ul> |
| Type of ride [see pg. 8-9]        | Flat platform, level ride   |
| Safety rails                      | 2, fixed to the lift columns  |
| Standard platform dimensions      | 1000 x 850 mm (*)<br>Other dimensions on request.   |
| Standard control unit             | Control unit integrated in power pack   |
| Standard finish of the lift frame | Columns in aluminium. Steel components in Protection PLUS [OAT102]  |

(\*) Consult DHOLLANDIA re. CE conformity of the platform dimensions.



→ Access ramps lift for low-floor trams and buses

## DH-BRMU.03 • 300 kg



The access ramps DH-BRM... are designed to assist wheelchair passengers, parents with a baby buggy, or passengers with an otherwise impaired mobility to enter or exit the bus safely and comfortably.

Both models are retractable. The DH-BRMU.03 is designed for installation under the vehicle floor of the bus and for retrofitting. The DH-BRMO.03 is integrated in the vehicle floor. In order to minimize the number of vulnerable parts and **to maximize the operational reliability, the platform retraction on both models is operated manually.**

**Electric ramps**, driven by an electric motor plus chain system, are available upon special request. These can be equipped with state-of-the-art safety devices, such as: safety carpet, sensitive safety edge with emergency stop, etc...

# Retractable access ramps for low-floor buses

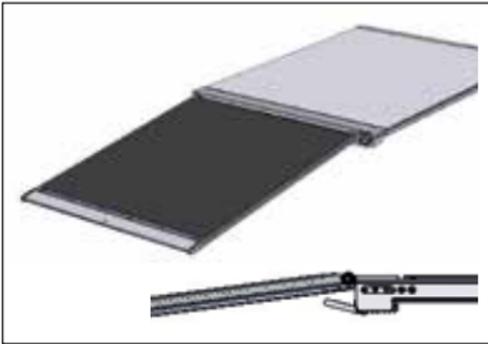


## DH-BRMU.03

For installation under the vehicle floor and retrofit

### Technical specifications DH-BRMU.03

|                       |   |
|-----------------------|---|
| Cassette dimensions   | 1420 x 1190 x 50 mm (L x W x H)   |
| Platform dimensions   | 1090 x 1040 mm (L x W)<br>Other dimensions available on request                   |
| Capacity              | 300 kg  |
| Platform construction | Light weight aluminium platform with anti-slip surface                            |
| Retraction IN / OUT   | Manual  |
| Mounting position     | Mounted under the vehicle floor<br>Adapted for floor thickness between 45 - 55 mm |
| Weight indication     | 60 kg   |



## DH-BRMO.03

For integrated installation in the vehicle floor

### Technical specifications DH-BRMO.03

|                       |  |
|-----------------------|--|
| Cassette dimensions   | 1290 x 980 x 41 mm (L x W x H)                                 |
| Platform dimensions   | 1090 x 908 mm (L x W)<br>Other dimensions available on request |
| Capacity              | 300 kg   |
| Platform construction | Light weight aluminium platform with anti-slip surface         |
| Retraction IN / OUT   | Manual   |
| Mounting position     | Integrated in the vehicle floor                                |
| Weight indication     | 40 kg  |

[www.dhollandia.com](http://www.dhollandia.com)



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