

DOORS
PITLESS
EHM and MLtB
EH/4C
EH/DC-EH/DCL
EH-1500



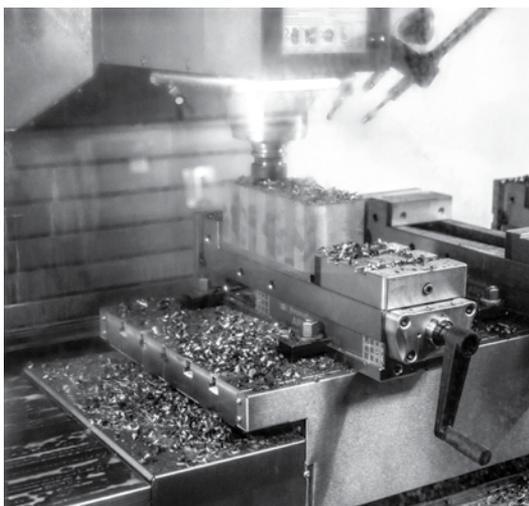
VRC &
MATERIAL LIFTS TYPE B



 **HIDRAL**
WORLDWIDE LIFTING SOLUTIONS



On the way up



We are a leading company in the elevation and accessibility sector which designs and manufactures all types of lifting solutions for passengers and goods. Since our founding in 1975 we have sought maximum quality and safety for maintenance personnel and end users alike.

Since our very beginning, we have embarked on an upward path, guided by the values of excellence, research and development and a thorough concept of service that runs from the initial consultancy through our aftersales service. The technical development of our products and customized engineering projects are among our highest priorities. The main goal is to satisfy the needs of the market. An R&D team of over 25 professionals, working with the latest technologies in innovation, quality control, and monitoring instruments ensure safety and reliability.

The net result is that Hidral has established a strong and distinguished position in the global market. With a production capacity in excess of 4,500 lifts per year, we currently have over 65,000 square feet of facilities spread over two factories in Seville (Spain). However, our greatest asset is our team, full of highly qualified professionals from various disciplinary sectors.

We have been marketing our products in North America for years now. We are proud to say we've been honored and privileged to be part of many successful projects during this time.



VRC

EH-1500

ADAPTED TO YOUR NEEDS

A very robust goods lift with a guide-structure of laminated profiles. The sling has been fitted with a lateral guiding system of 4 rollers for better stability when loads are off center or when using lateral entrances. This goods only lift is ideal for warehouses and retailers as it is designed for loads of one to two ton, which is the typical maximum weight of a food pallet.

Not only does it have a slow speed re-levelling option but it can also be fitted with an anti-creep system (pawl device) that keeps the lift-car perfectly levelled to the landings during loading and unloading.

The goods lift can also be fitted with 44 in handrails, 78.75 in to 98.42 in lateral walls (roofless car) or a doorless car with interior lighting. In this, and other models used for heavy loads, the lateral walls and the doorless cars have reinforced protections (which can be easily replaced) that have proved highly efficient in protecting against the inevitable bumps and knocks that occur during loading with pallet jacks.

CHARACTERISTICS

Model	EH -1500
Load	2,200 - 3,300 and 4,400 lb
Maximum travel *	40 ft
Speeds	20 and 40 FPM
Maximum surface area	60 ft ²
Main options	Slow speed releveling
	Anti-creep (pawl device)
	Handrails, lateral walls or cabin

(*) Consult for greater travel distances.

Please check out our technical specifications for more information.



Platforms EH-1500



Details of the anti-creep latch



Limit switch



For graphic reasons, the photographs are showing the platforms without protections or doors.



VRC

EH/DC-EH/DCL

THE POWER TO BE VERSATILE

These goods lifts are for loads from 2,200 to 11,000 lb and include the same options as the EH-1500.

Thanks to its load capacity, this model is the best when working with a forklift, which, added to the weight of the load, is a heavy piece of machinery.

Made up of opposing columns, the **EH/DC** is used when the floor of the lift is wider than what is advisable for a column on just one side.

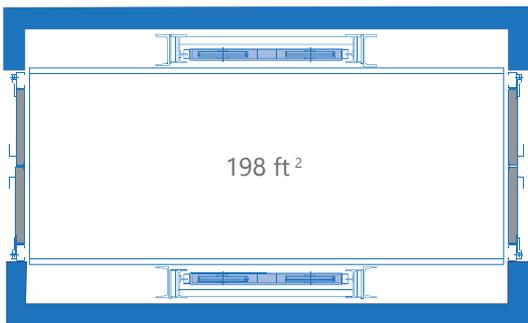
Made up of adjacent columns on the same side, the **EH/DCL** is used when a greater load capacity is required than that of an EH-1500. This offers the possibility of entrances via all three sides and utilizes the shaft better than the model with opposing columns.

CHARACTERISTICS

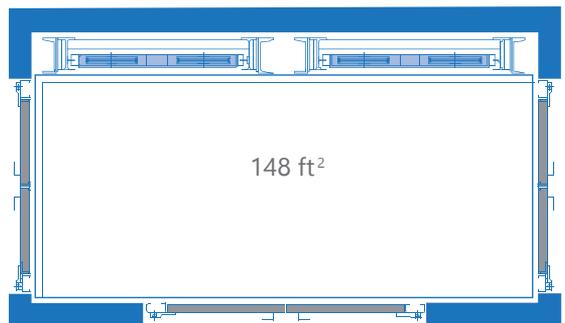
Model	EH / DC	EH / DCL
Load	2,200, 3,300, 4,400, 6,600, 8,800 lbs	4,400 and 6,600 lbs
Maximum travel *	up to 40 ft	
Speeds *	20 and 40 FPM	
Main options	Slow speed relevelling	
	Anticreep (pawl device)	
	Handrails, lateral walls or cabin	

(*) Consult for great travel distances.

Please check out our technical specifications for more information.



Plan EH / DC



Plan EH / DCL



VRC

EH/4C

FOR VERY HEAVY LOADS

Platforms **EH/4C** are built for loads from 8,800 to 22,000 lb and can even be made for loads of up to 40 tons to meet the specific needs of each client.

The columns on each corner allow entrances on all four sides what makes it highly versatile. This model is best when a long travel distance with heavy loads is required. It is also equipped with anticreep (pawl device) and slow speed releveling.

CHARACTERISTICS

Model	EH / 4C
Load *	8,800 to 22,000 lbs
Maximum travel *	up to 40 ft
Speeds	20 and 40 FPM
Maximum surface area	269 ft ²
Main options	Handrails, lateral walls

(*) Consult for greater travel distances or loads.
Please check out our technical specifications for more information.



EHM AND MLTB / RIDABLES WITH ATTENDANT

- Adjustable dimensions.
- Possibility of single or 180° loading.
- Standard wall cabin
- Standard Cabin with galvanized sheet (see pictures).
- Choice of stainless finishes and choice of floor surface.



Easily replaceable, reinforced protective features to absorb the inevitable knocks in the loading process.



Flush mounted landing button panels with key switches to enable or disable the loop.



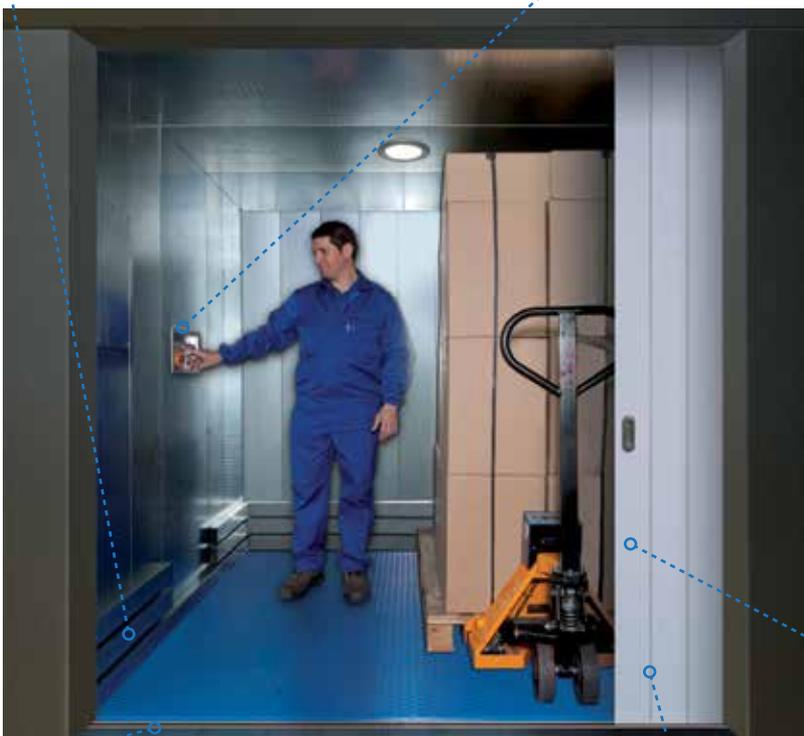
Removable wall panel for ease of maintenance from inside the cabin.



Recessed COP (Car Operating Panel) with hold-to-run push button, protected by a frame to prevent damage during loading operations.

Featuring:

- Overload detection system.
- Key switch (preferential use).
- Emergency stop button.
- Alarm button.
- Emergency light and illuminated selector switch for anticreep manoeuvring (optional).



Single or double leaf manual hinged door with flush interior handle.

Class III photoelectric safety barrier for each entrance.



Ceiling light.



Sliding slat door, the best solution to keep the loading area clear. The existing space between the guide rails and the shaft wall can be used. Highly resistant 2 in thick slats. Free passage width between 47 and 118 in and free passage height between 79 and 99 in.

Please check out our technical specifications for additional information.

EHM AND MLTB/ RIDABLES WITH ATTENDANT

The **EHM** and **MLtB** models are lifts with two modes of function:

- Conventional goods only mode, ideal for peak production periods, when it is faster for two operators to be working, one on each landing.
- Platform with attendant mode, designed for periods of time with reduced workload or fewer staff. One operator travelling in the lift can perform all loading-transporting-unloading tasks.

With this mode, you can save on staff costs and ensure more flexible organization of work.

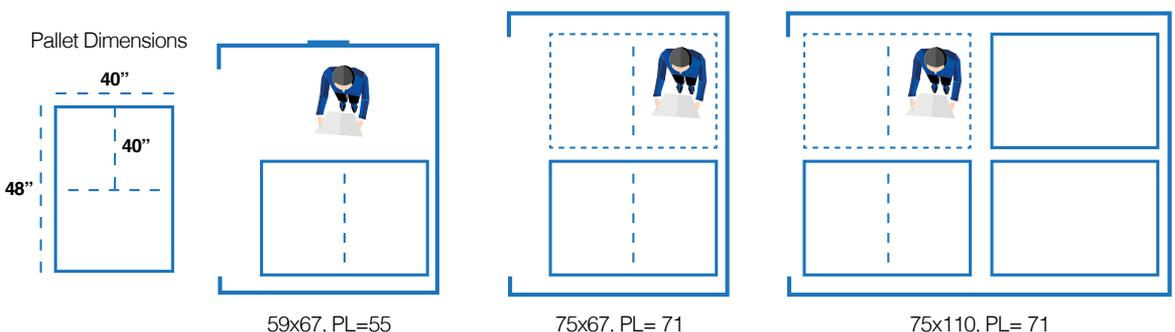
CHARACTERISTICS

Model	EHM1500u	MLtB-1500	MLtB-3000
Load	2,200, 3,300 and 4,400 lbs	4,400 and 6,600 lbs	4,400, 6,600, 8,800 and 11,000 lbs
Maximum surface area	32 and 61 ft ²	61, 92 ft ²	61, 92, 122 and 153 ft ²
Maximum travel *	up to 40 ft		
Maximum speed	30 fpm		
Cabin height	79 to 99 in		
Pit Depth	14 to 16 in		
Headroom height	10 in		
Clear opening recommended	Cabin width - 4 in (of cabin's protective features)		
Main options	Double entrance 180°. Anticreep (pawl device) for precise levelling during loading and unloading. Single or double leaf hinged doors and optionally manual or automatic sliding doors.		
Additional safety features	Rupture Valve Cylinder with inner cushioned stop. Slow speed releveling.		

(*) Consult for greater travel distances.
 Please check out our technical specifications for additional information.

DIMENSIONS SUGGESTED FOR THE LOADING OF PALLETS WITH OR WITHOUT AN OPERATOR

The transportation and load placement options guarantee the operator's safety while travelling in the cabin.





Lifts with inverted slings are used when guides must not protrude from the floor at the last stop. The upper floor itself must be flat and free of any obstacles while the lift is not in operation (stages, heliports, etc). For each of these applications, specific safety measures must be taken and a qualified person must operate the good lift.



PITLESS



The **Pitless** solution, for VRC and material lifts type B. This system is specially designed for buildings whose facilities have architectural restrictions need, to adapt to local regulations, to save potential problems of water infiltration and for situations where a pit is not feasible.

Pitless is designed for specially reduced pits, it can even be installed ground level with access via ramp (not pictured).

CHARACTERISTICS

- Types of boarding:
 - Single entrance (lateral).
 - Double entrance 180°.
- Not available with adjacent double entrance (90°) given the configuration of the structure of the car frame.
- Solution with carrier / cabin in EH Elevators and cabin in EHM Elevators and MLTB
- Not available with handrails option.
- Compatible with option of anticreep (EHM1500u).
- Available models EH-1500 and EHM-1500u, the full range of dimensions and loads of the model.
- Pit: 4 in.

SELF-SUPPORTING STRUCTURES

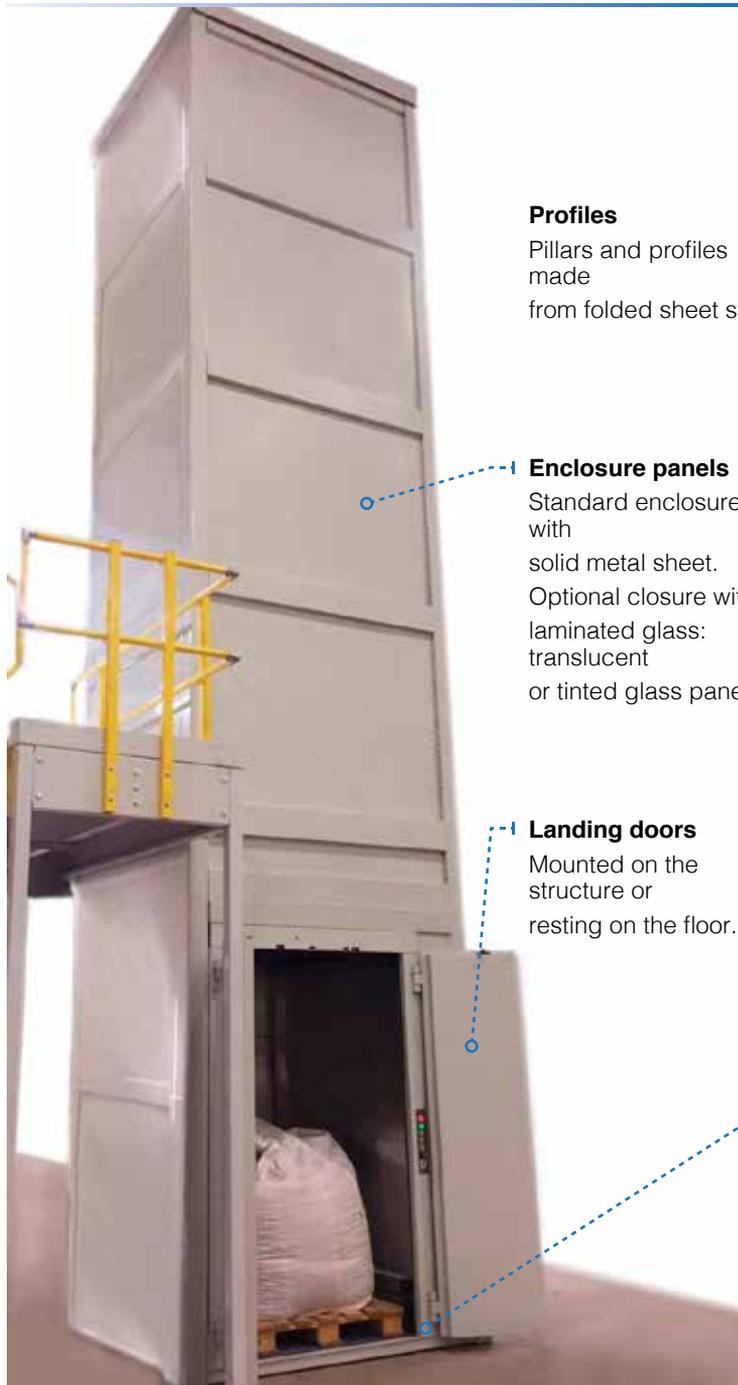
WE DESIGN THE SPACE FOR YOUR LIFT

Hidral designs and manufactures self-supporting structures that are easy to install, without the need for major construction, making them a practical, functional and, above all, safe solution.

Hidral provides the best solution and full control over the production process and delivery deadlines.

Self supporting structural enclosures are available for certain applications where no hoistway exists and the client would prefer not to construct a hoistway. These modular self-supporting structures are coated with clean, powder coat finishes for an attractive aesthetic appearance, while safely enclosing the lift.

MAIN FEATURES



Profiles

Pillars and profiles made from folded sheet steel.

Location

Building interiors and exteriors, stairwells, light wells.

Enclosure panels

Standard enclosure with solid metal sheet. Optional closure with laminated glass: translucent or tinted glass panels.

Made-to-measure

Depending on shaft, pit, drive, entrance, door requirements, etc. With the aim of minimizing the external dimensions of the structure.

Landing doors

Mounted on the structure or resting on the floor.

Fixing

The structure is fixed to the pit floor, each intermediate floor and the shaft ceiling (if it exists), so it is not necessary to fix it to walls or other elements at intermediate points.

HINGED DOORS

Our hinged doors are entirely designed and manufactured by **Hidral** and are highly resistant. With 180° opening. The standard model is very robust, but it can also be reinforced by adding an additional hinge and an extra inner plate to add greater resistance.

CHARACTERISTICS

Model	1 LEAF	2 LEAVES
Clear Opening (PL)	24 - 49 in	43 - 118 in
Clear height (HL)	116 in	
Reinforced	Steel plate	
Hinges	Adjustable hinges with 180° opening	
Paint	Baked Epoxy-Polyester paint finish (RAL 7035)	
	Retainer breaks on each door	
	The door frame is delivered dismantled for easier transport	
Optional	Stainless steel doors. Reinforced door	

Please check out our technical specifications for more information.

LOCKS

The provided safety locks have been designed for a permanent electrical connection.

Doors are kept unlatched while the car is at floor level or with open doors

Doors are made by Hidral for sole use in our material only lifts.

Can be fire certified with UL10B.

Adjustable and highly resistant hinges that allows an easy substitution of the leaves.



For Hidral, safety is the basis on which we run our company and because of this we have developed, the best safety measures for the end user, the installer and maintenance personnel.

1. Double traction system and double safety cables on the suspension.
2. Mechanical blocking of the lift-car for safety during maintenance operations in the pit.
3. Hidral doors specific to our VRC and MLtB models can be designed according to UL10B certification with fireproof certification.
4. Unauthorized pit access detection that disables the platform.
5. Latch key inhibitor on the push button panel of every floor.
6. Overload detection device in all VRC and Material Lifts type B.
7. The carrier can be provided with a door less lift-car with interior lighting, lateral walls (roof less car) of heights between 6.55 ft and 8.5 ft or 3.60 ft handrails.
8. Shut-off valve and pressure gauge in all hydraulic power units.
9. Our VRC models are designed and produced according to ASME B20.1.
10. Our MLtB models are designed and produced according to ASME A17.1/CSA B44.

ON THE CONTROL PANEL:

1. Blockable main switch with a padlock on the outside of the panel door.
2. Lighting circuit switch on the panel door next to the main switch.
3. Differential switches for the main circuit and the lighting circuits can be found inside the electrical panel.
4. Thermal circuit breaker to protect against over current and short-circuits in the lighting circuit.
5. Our range of VRC models are equipped with Industrial control panels according to UL508/A.
6. Our MLtB are equipped with Elevator control panels according to UL508/A and ASME A17.1.

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We are a UL client test data program participant. Hidral's products met UL's certification requirements to North America safety standards.

All Hidral products and services are endorsed by the Certification of the Spanish Association for Standardization and Certification (AENOR). This Certification accredits that the Hidral Quality System is managed, designed and implemented in accordance with the International Standard ISO 9001: 2000. Likewise, it is an extra guarantee for its clients, who can fully trust its commitment and good work.