STAIR LIFT SPECIFICATIONS

Ramos stair lifts are intended to remove architectural barriers and provide access to buildings and premises, both public and private, that need to be accessible with user-friendly and reliable machines that can be used by anyone with mobility issues, either using a wheelchair or not.

To this end, two models have been developed: the vertical stair lift called ***HDP-V*** and the inclined stair lift, called ***HDP-I***. In both models, the pathway followed by the platform is a straight line, parallel to the line determined by the slope.

These stair lifts have been designed and manufactured in accordance with the Directive for Machines 2006/42/EC and its incorporation into the RD 1644/2008, the have the EC marking, so they can be commercialised in any member country of the European Union.

Main Specifications

Load:	225kg.
Speed:	0.1m/s.
Stops:	2 (two).
Power:	1CV / 750W – 380V // 1.5CV / 1125W – 220V.
Hydraulic unit:	Hydraulic silencer (reduction of noise emission).
Standard dimensions:	760 x 1000mm (lever-width) For other dimensions, please contact us.
Rail	Up to 8m for the model HDP-I. Up to 1.8m for the model HDP-V.
Inclination:	20º - 45º (for other inclinations, please contact us). HDP-I
Floor button panel:	Surface mounted, stainless steel finish.
Paint:	Powder, RAL 7035 and RAL 9005 combined.

The traction system for these stair lifts consists of a hydraulic cylinder, single or telescopically synchronised, with direct drive (for platforms with rails shorter than 1.80m) or indirect drive 2:1 (for platforms with rails longer than 1.80m), with a safety hydraulic valve preventing the oil from leaving the cylinder in case of breakage of the hydraulic pipe. For the indirect drive option, the platform suspension is based on an anti-rotation steel cable of Ø 6mm 19x7+0.

The hydraulic system includes a cylinder (simple or telescopic piston) and a rupture valve, hydraulic unit with external motor, gear pump and gradual starter hydraulic block with manual lowering valve for emergencies. The entire system includes a check valve and a relief valve. The system is provided with all the couplings and connecting hydraulic piping (3/8" hose) from the hydraulic unit to the cylinder base, located at the beginning of the rails.

In addition to the safety devices mentioned previously for the hydraulic circuit, the system also includes:

- Manual protection arms made of stainless steel pipe, located in the boarding areas to protect the user from falling out of the platform. They have a clutch system for situations when the movement requires excess effort due to potential collisions with obstacles.
- Fixed sheet metal protection in guide areas to avoid entrapment with the moving parts of the platform.
- Emergency power supply: in case of a power cut, some auxiliary batteries would lower the platform to the ground floor when pressing the corresponding push button, at a constant pressure.
- Overpressure safety valve.
- Hydraulic safety system.
- Anti-crushing device under the platform: below the platform there is a plate that detects any object getting caught and stops the movement using some safety stops. When the obstacle acting on the plate is removed, the platform will continue with its normal operation. When this occurs, the platform can be moved upwards to remove the detected obstacle more easily. It will be necessary to press a push button to lift up.
- Button panel console on the platform: includes a latchkey (validation of cabin push buttons) that illuminates when active, emergency stop button and up-down push buttons that light up when pressed – there is an option to have spring latchkeys or outdoor push buttons.
- Pressing with a constant pressure: the platform only moves when pressure is applied on the push button. As soon as there is no pressure, the action of the machine stops.
- Manual base folding.
- Non-slip aluminium floor.
- Metal sheet cabinet for the hydraulic unit and the electric panel, with special opening key.

Optional elements that can be installed in the platforms, both for the vertical and the inclined movement.

- Motors with special voltage.
- Automatic folding base by use of specific push buttons located next to the lift calling buttons.
- Automated folding arms by pushing them up or down.
- Remote control: to perform the same functions as those on the platform or external push buttons (constant pressure).
- Luminous overload pressure switch located on control panel in cabin.
- Alarm button on control panel in cabin.
- Key switches replacing push-buttons (restricted use).
- Poor weather protection.
- Pillars to install the floor button panels, except for the lower floor and on the guide for the top floor. Finishes in powder paint or stainless steel.
- Fastening the guides to the steps using a support structure when it is not possible to attach them to the wall or the wall is not strong enough.
- Other platform dimensions (please contact us). For less than standard dimensions, this may not be compatible with the use of a wheelchair.
- Possibility of up to three-way boarding with ramp on the platform for access to lower floor.
- For other finishes, please contact us.