



## **HYDRAULIC LIFTS**

# **AH-1600**

## **TECHNICAL SPECIFICATIONS**



## Contents

1. General description.....	Page 2
1.1. Application .....	Page 2
1.2. Regulations.....	Page 2
1.3. Characteristics.....	Page 2
2. Dimensions for installation.....	Page 4
2.1. Minimum shaft dimensions in elevation.....	Page 4
2.2. Minimum shaft dimensions in plan view .....	Page 5

## 1. General description

### 1.1. Application

Lift intended for the vertical transport of people or both people and loads. The lift is suitable for various applications in different areas, such as the industrial, commercial or service sectors.

The different rated load values, together with the range of car dimensions and the different finishing options available for the car allow appropriate lifts to be configured for use as passenger lifts, goods lifts and also as stretcher lifts or bed lifts for sanitary uses.

### 1.2. Regulations

The lift complies with the Lift Directive 95/16/EC, by means of conformity with the EN 81-2:1998+A3:2009 harmonized standard.

### 1.3. Characteristics

**Rated load (Q)** 1000, 1275 or 1600 kg

**Rated speed (v)** 0.4 or 0.6 m/s

**Stops** Up to 6 stops

**Travel (R)** Up to 17 meters. Please enquire for larger travels.

**Type of drive** Hydraulic indirect action, with a single side acting simple cylinder, with a diameter between 110 and 150 mm depending on the load and travel values. Rucksack type sling and 2:1 suspension with instantaneous action roller type safety gear actuated by a 6 mm safety rope. Suspension with 5 or 6 ropes, 10 or 12 mm in diameter depending on the rated load and the car dimensions.

**Electric characteristics** There are two independent circuits for the lift: a main circuit and an additional circuit for the lighting both of the car and of the shaft. Each of these circuits requires and independent supply with the following characteristics.

Main circuit: 400 V  $\pm$  5% three-phase 50/60 Hz (other voltages available).

The maximum line current consumption at full load may reach the following values depending on the rated load and the rated speed:

Q (kg)	v (m/s)	Current (A) <sup>(1)</sup>
<b>1000</b>	0.4	30
	0.6	44
<b>1275</b>	0.4	37
	0.6	54
<b>1600</b>	0.4	37
	0.6	54

<sup>(1)</sup> For 400V supply voltage. These values could be increased in case of double access cars or with some options such as oil cooler or tank heat resistance

Lighting circuit: 230 V  $\pm$  5% single-phase 50/60 Hz (other voltages available).

Depending on the car dimensions and the travel of the lift the power draw may reach 1000 W.

**Car dimensions**

Width (A): between 1100 and 1500 mm

Depth (B): between 2000 and 2900 mm

Height (H): 2300 mm

The indicated car dimensions are measured from the constructive elements of the car without taking decoration options into consideration.

Maximum car surface is determined by the rated load:

Q (kg)	A·B (m <sup>2</sup> )
<b>1000</b>	2.40
<b>1275</b>	2.95
<b>1600</b>	3.56

**Accesses**

1 or 2 at 180°

**Doors**

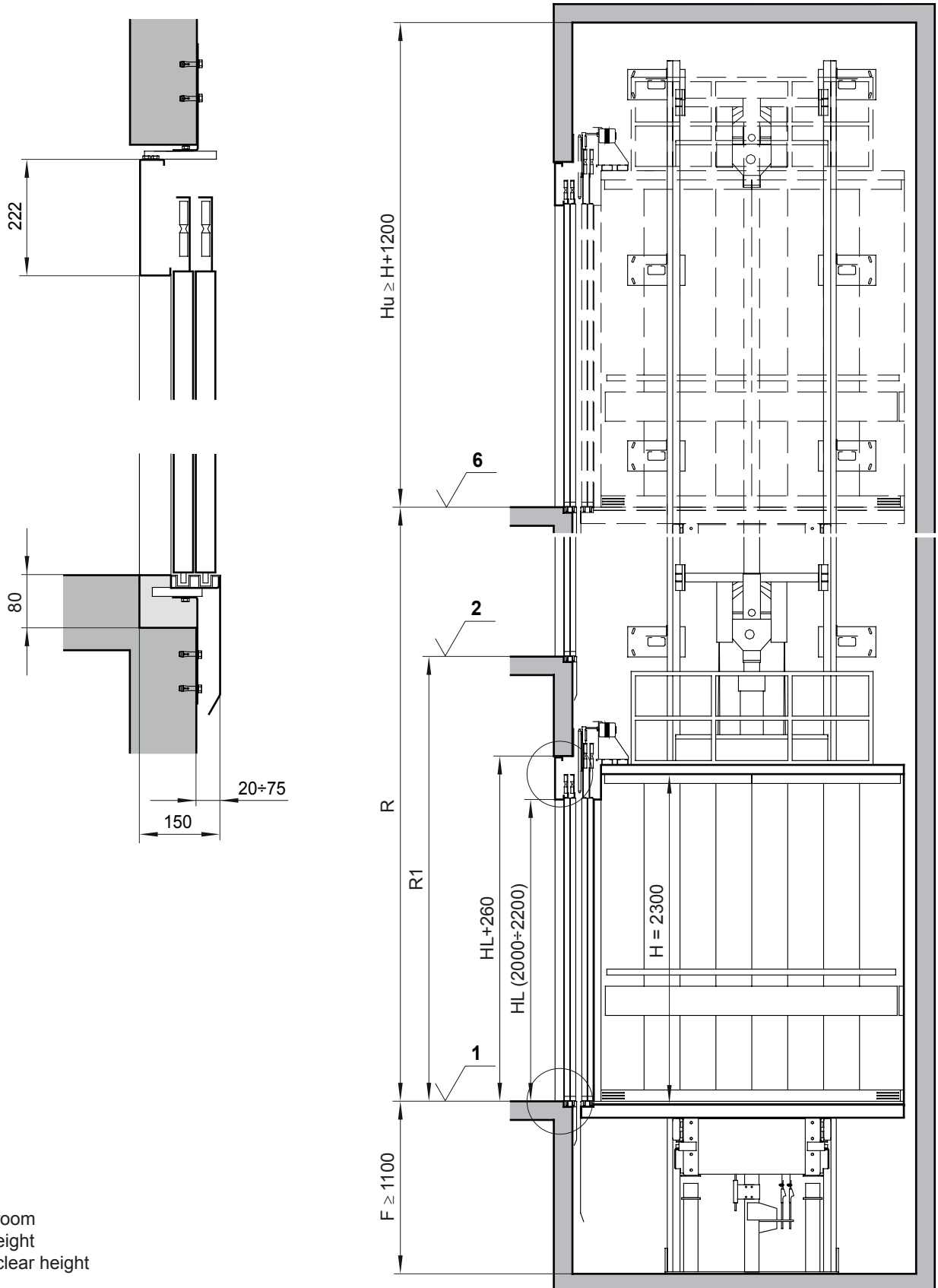
Telescopic automatic two leaf side opening doors.

Clear opening (PL): between 900 and 1300 mm

Clear height (HL): between 2000 and 2200 mm

## 2. Dimensions for installation

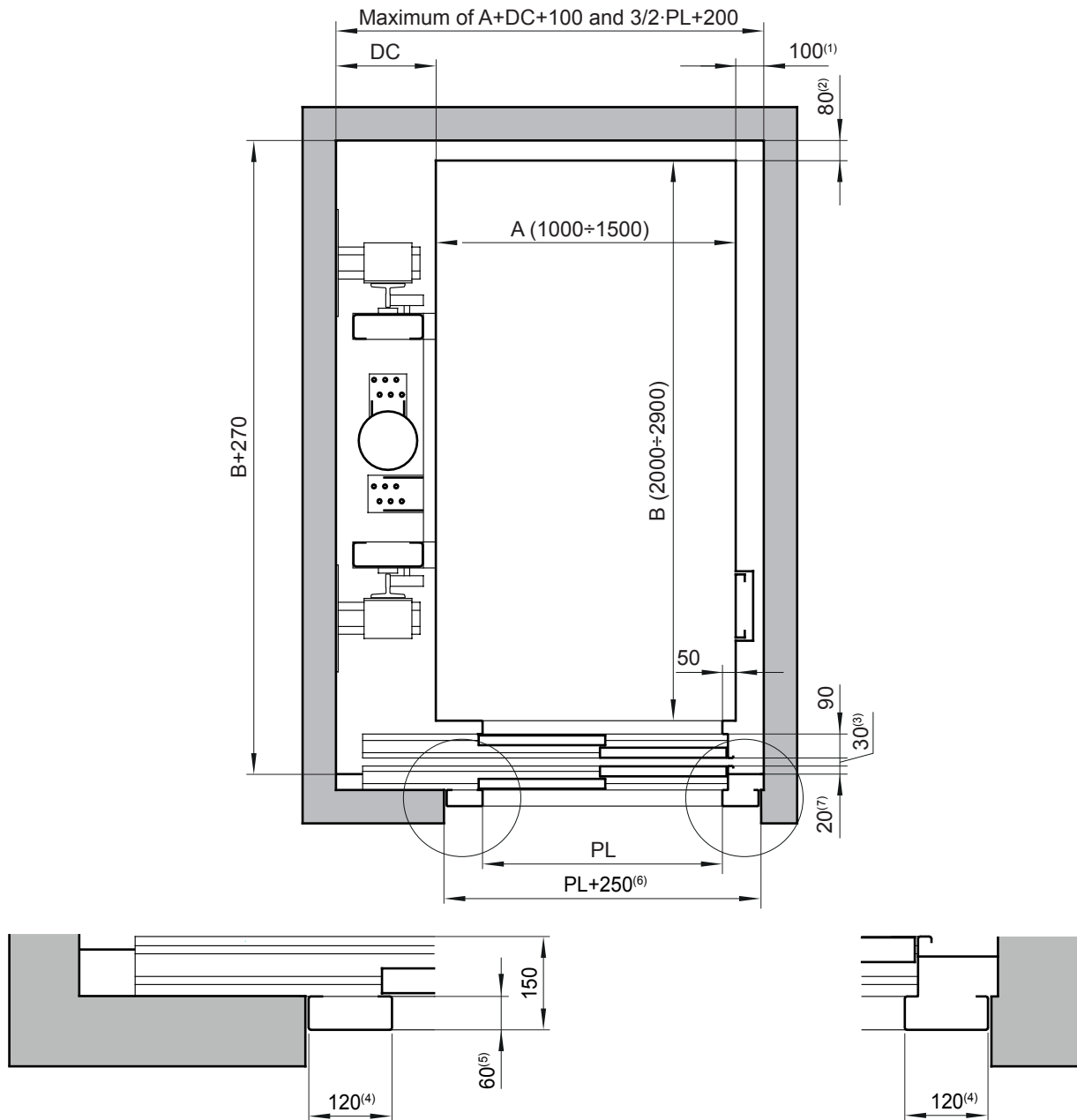
### 2.1. Minimum shaft dimensions in elevation



- R Travel
- F Pit
- Hu Headroom
- H Car height
- HL Door clear height

## 2.2. Minimum shaft dimensions in plan view

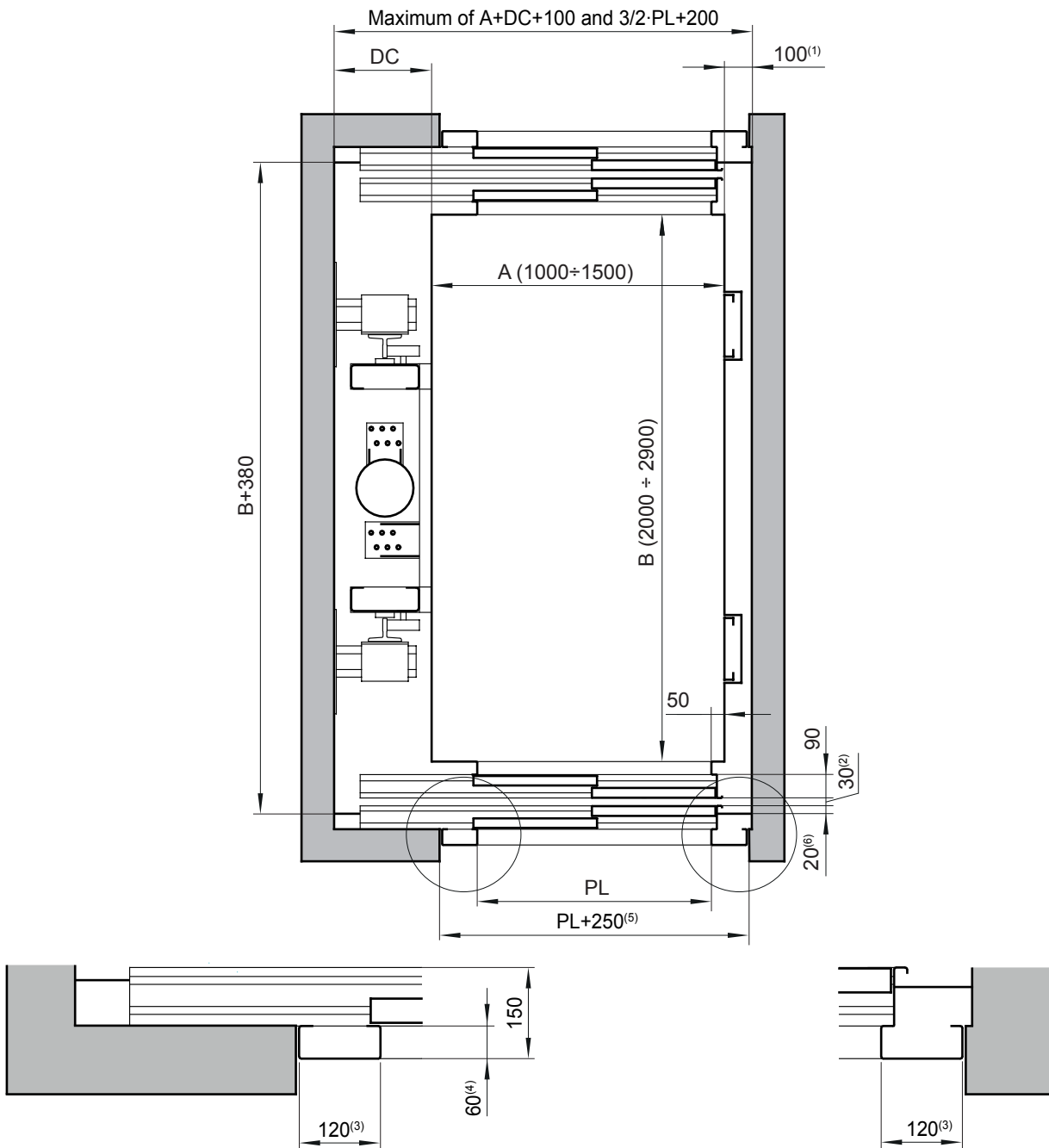
### Simple access



- A Car width
- B Car depth
- PL Clear opening
- DC Distance for guide installation (minimum according to table, maximum 600 mm)
- Q Rated load
- (1) Minimum car-wall distance on the side adjacent to the entrance
- (2) Minimum car-wall distance
- (3) Distance between entrance and car
- (4) Door frame width
- (5) Door frame depth
- (6) Gap in wall for door installation
- (7) Minimum distance between landing door sill and shaft (maximum 75 mm)

Q (kg)	DC (mm)
<b>1000</b>	≥350
<b>1275</b>	≥400
<b>1600</b>	

**Double access**



- A Car width
- B Car depth
- PL Clear opening
- DC Distance for guide installation (minimum according to table, maximum 600 mm)
- Q Rated load
- (1) Minimum car-wall distance on the side adjacent to the entrance
- (2) Distance between entrance and car
- (3) Door frame width
- (4) Door frame depth
- (5) Gap in wall for door installation
- (6) Minimum distance between landing door sill and shaft (maximum 75 mm)

Q (kg)	DC (mm)
<b>1000</b>	≥350
<b>1275</b>	≥400
<b>1600</b>	









**Hidral, S.A.**

---

Polígono Industrial PARSI, Calle 7, 3  
41016 - Sevilla (España)  
t.+34 954 514 500 f.+34 954 677 633  
[www.hidral.com](http://www.hidral.com)