



## 1.1

Symbio is an electric lift with or without a machine room, capable to adapt to any shaft needs, pit and/or headroom.

Wide loads spectrum.

### ► Applications

**Residential building**  
**Shopping centres**  
**New development**  
**Hotels**  
**Hospitals**  
**Offices**  
**Bedlifts**  
**High rise installations**  
**High traffic**

## Advantages

Available for new buildings as well as for existing shafts with reduced pit or headroom (EN81.21).

### **Versatile:**

There is no need for a designated machine room area, this allows greater space utility within the building. Even though it is the quintessential new development lift, it can adapt to almost any shaft dimensions including special shafts.

### **Flexibility/adaptability:**

Customer tailored. Extensive load range, sizes, and speeds. Robust, resistant, and trustworthy. Able to locate operation control panel within the door frame (120mm width) as well as on the landing. Power supply either single-phase or three-phase.

### **Comfort:**

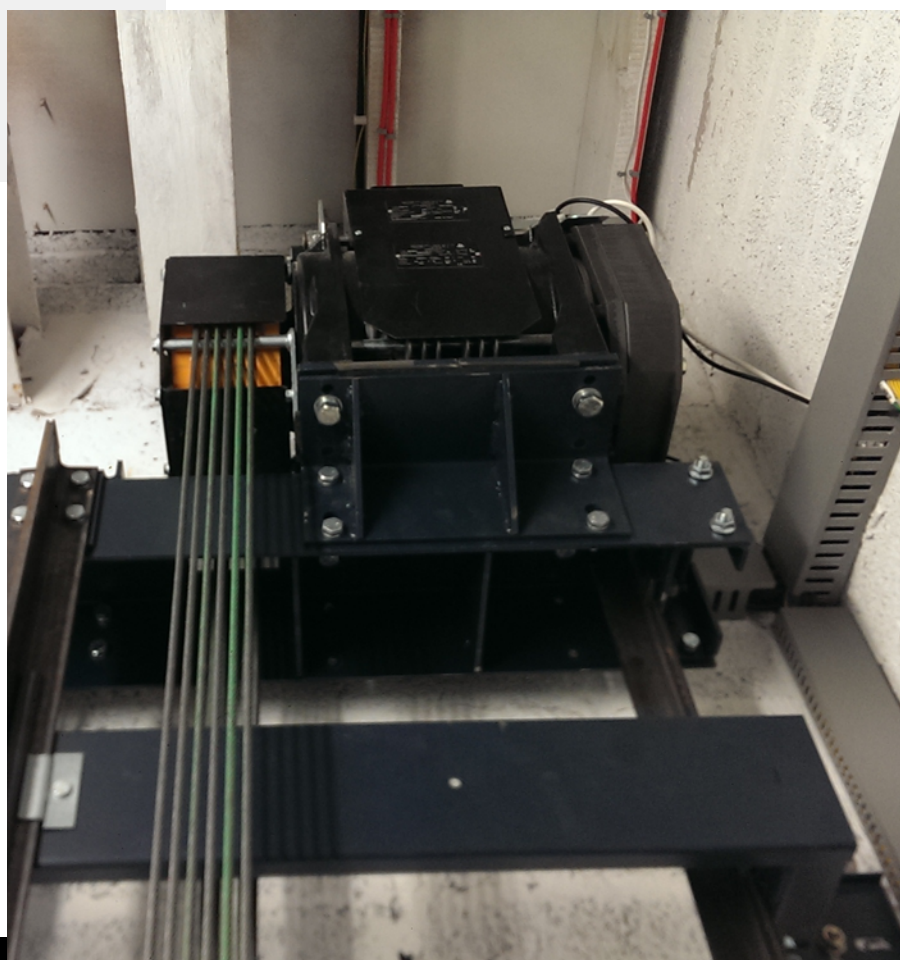
It guarantees a high level of comfort and minimal noise during its travels thanks to a centred arcade sling and 2:1 roping.

### **Great durability:**

Reduced maintenance. The equipment has a long-life expectancy and nearly non-existent repairs.

### **Easy installation:**

Mature design plug and play. Bedplate resting on the guides to minimise space.



## Technical characteristics

<b>Rated load (Kg)</b>	300 - 1.600
<b>Rated speed (m/s)</b>	0,5 - 3,0
<b>Machine room</b>	CCM / SCM
<b>Travel (m)</b>	Up to 100
<b>Roping</b>	2:1
<b>Traction ropes diameter (mm)</b>	6,5 - 8,0
<b>Guiding system</b>	Buffered guide shoes for greater comfort.

Q (Kg) (mm)	Minimum Pit (mm)		Minimum Headroom <sup>(1)</sup>	
	Min pit	Necessary headroom	Min headroom	Necessary pit
450	340	3.370	2.985	615
630	340	3.370	2.985	660
1.000 <sup>(2)</sup>	340	3.370	3.000	660
1.000 <sup>(3)</sup>	345	3.415	3.090	680
1.600	450	3.540	3.330	705

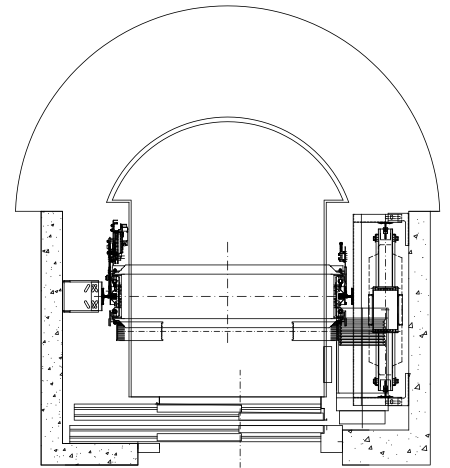
0 - 180°

<b>Entrance</b>	Automatic - Semiautomatic
<b>Door type</b>	Yes
<b>Panoramic/scenic car options</b>	Yes
<b>Weatherproof</b>	

(1) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.  
 (2) Minimum headroom & pit for P+Q up to 1.933 kg.  
 (3) Minimum headroom & pit for P+Q up to 2.750 kg.

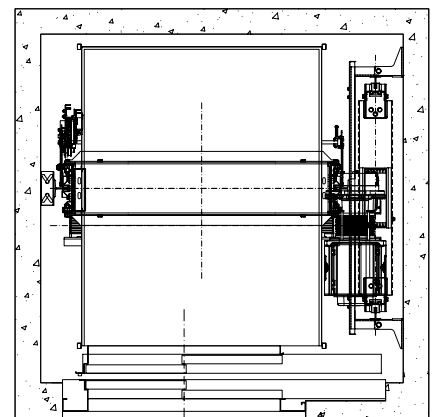
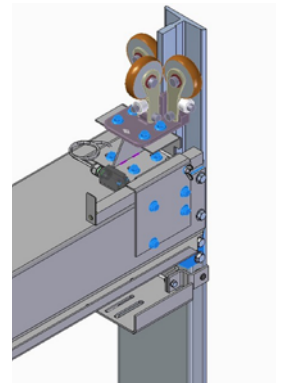
## Special solutions.

Possible configurations for irregular shafts.



High speeds  
Up to 3m/s.

For speed  $\geq 1,6\text{m/s}$ , car frame with triple rollers. Maximum comfort.



## Technical characteristics Symbio HR

**Rated load (Kg)** 300 - 1.600

**Rated speed (m/s)** 0,5 - 1,0

**Machine room** CCM / SCM

**Travel (m)** Up to 50

**Roping** 2:1

**Traction ropes diameter (mm)** 6,5 - 8,0

**Guiding system** Buffered guide shoes for greater comfort.

Q (Kg)	Minimum Headroom (mm) <sup>(2)</sup>	
	Min headroom	Min pit
<b>450</b>	2.430	615
<b>630</b>	2.430	660
<b>1.000<sup>(3)</sup></b>	2.430	660
<b>1.000<sup>(4)</sup></b>	2.430	680
<b>1.600</b>	2.760	705

**Entrance** 0 - 180°

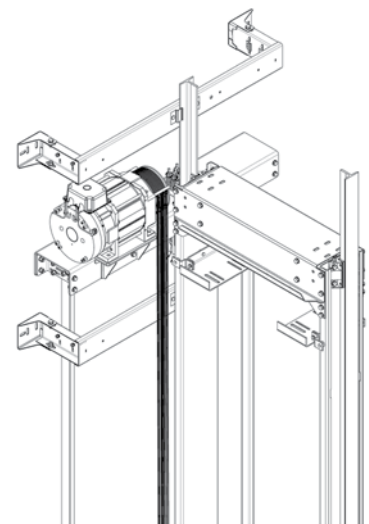
**Door type** Automatic - Semiautomatic

**Panoramic/scenic car options** Yes

**Weatherproof** Yes

## Bespoke solutions

Symbio HR  
Headroom 2.430 mm.<sup>(1)</sup>



(1) Minimum headroom for lift cars EN81-70, type 2 and shaft width of 1.600 mm.

(2) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.

(3) Minimum headroom & pit for P+Q up to 1.933 kg.

(4) Minimum headroom & pit for P+Q up to 2.750 kg.

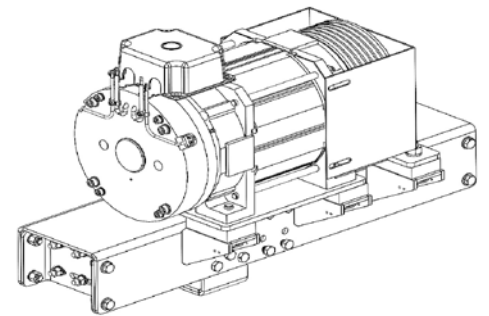


## Technical characteristics Symbio PF

Rated load (Kg)	300-600 <sup>(1)</sup>
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Travel (m)	Up to 50
Roping	2:1
Traction ropes diameter (mm)	6,5
Guiding system	Buffered guide shoes for greater comfort.

Symbio PF  
Shaft depth 720 mm.

Max speed 1m/s  
Control panel on landing

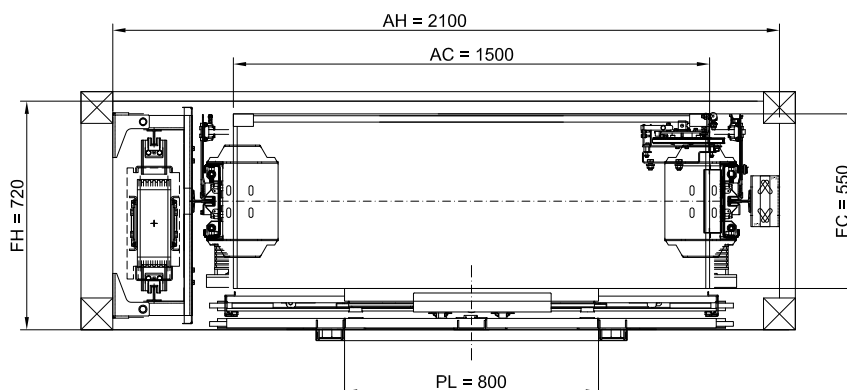


Q (Kg)	Minimum Pit (mm)		Minimum Headroom (mm) <sup>(2)</sup>	
	Min pit	Necessary headroom	Min headroom	Min headroom
450	340	3.370	2.985	615
630	340	3.370	2.985	660

Entrance	0 - 180°
Door type	Automatic - Semiautomatic
Panoramic/scenic car options	Yes
Weatherproof	Yes

(1) For other loads, please consult.

(2) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.



## Technical characteristics Symbio G

Rated load(Kg)	1.800-3.000
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Travel (m)	Up to 70
Roping	2:1
Traction ropes diameter (mm)	8 - 10
Guiding system	Buffered guide shoes for greater comfort.
Minimum pit (mm)	780
Minimum headroom (mm) <sup>(1)</sup>	3.485
Entrance	0 - 180°
Door mechanism	Automatic
Panoramic/scenic car options	Yes
Weatherproof	Yes

