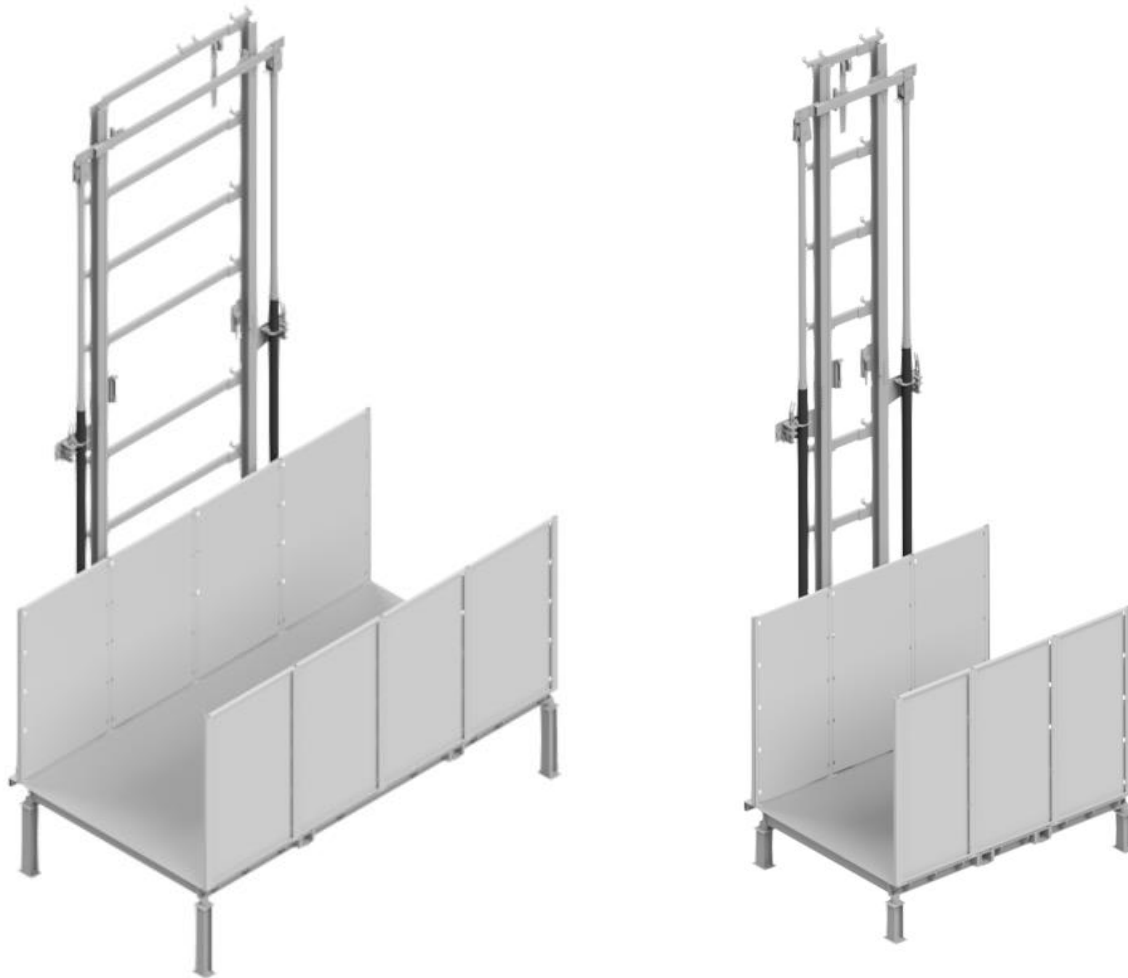


UN_883

HYDRAULIC LIFT WITH 1 MAST

IDEAL FOR LOADS UP TO 3000kg AND CARS

Version 3
2025



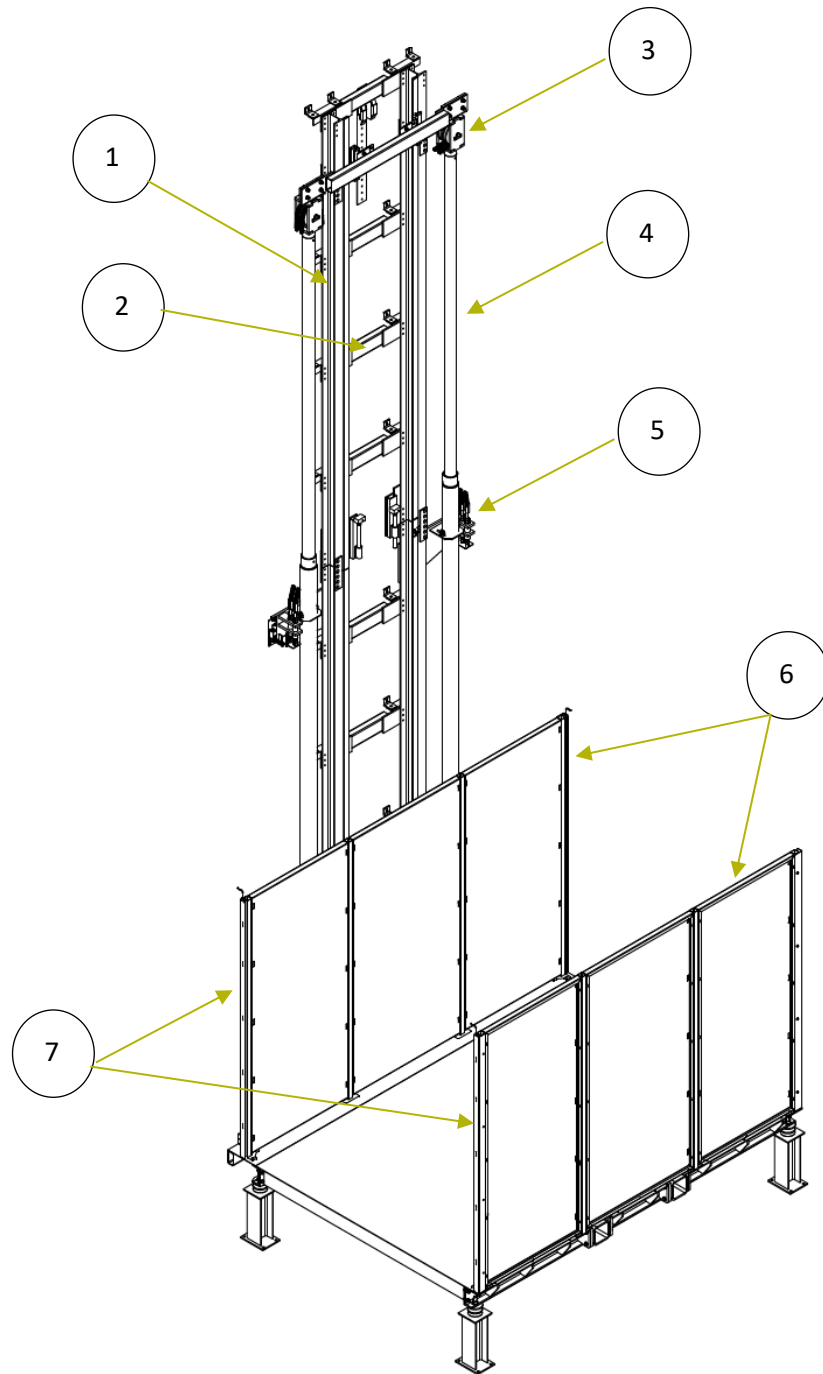
UNIQUE
Manthos Lift Solutions
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PLANNING DATA

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1. Product Description



Description

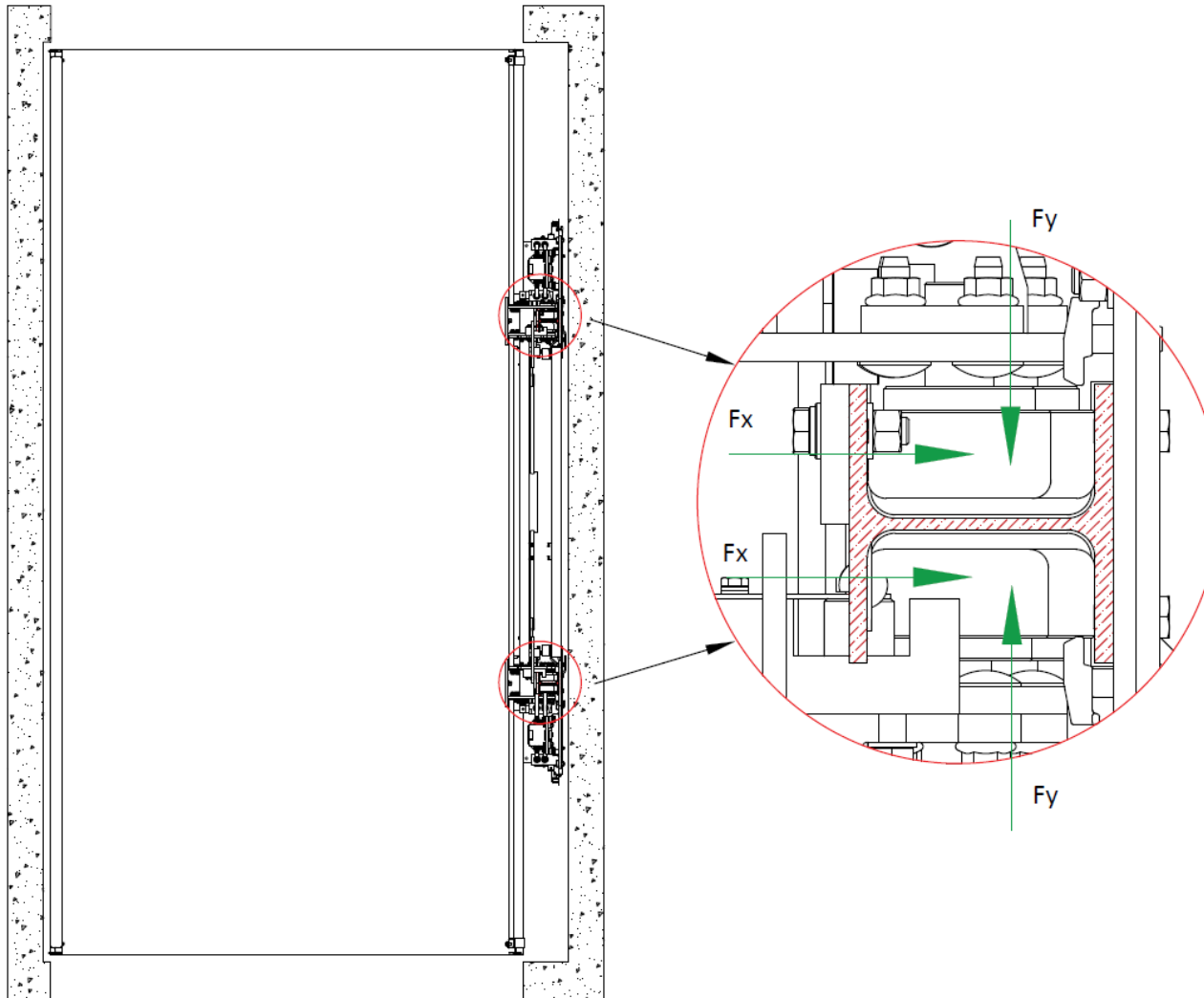
1. Steel beam type HEA (H-shape)
2. Guide (column) connection
3. Base for the hydraulic cylinder
4. Hydraulic cylinder
5. Lift chain
6. Balustrades
7. Light curtains

2. Technical Information

Model	UN_883
Loading capacity (max)	3000kg
Platform Depth	1950 - 5500 mm
Platform Width	700 - 2550 mm
Travel (max)	12 m
Stops	4
Motor	5.5 Hp / 380V
Travel speed	0.12 m/s
Pit depth (min)	250 mm
Headroom (min)	2500 mm
Columns	HEA 120
Diameter of the hydraulic cylinder	Φ105 x 7,5 – 2 pieces
Metallic chain	BL544
Rubber hose inner diameter	R2AT ½'
Rubber hose & cable length	5 m
Block valve	CBF
Standard machine color	Ral 9005
Sheet metal floor	Tear - drop
Legislation and standards	European directive on machinery 2006 / 42 / EC
Examination Certificate	Available

3. Applied forces

3.1 Forces on the shaft wall



Max Forces

The calculations were made with maximum load capacity of 3000 kg and platform dimensions 5500 x 2550 mm

Case of load shift regarding x axis

$$F_x = 165.620 \text{ N}$$

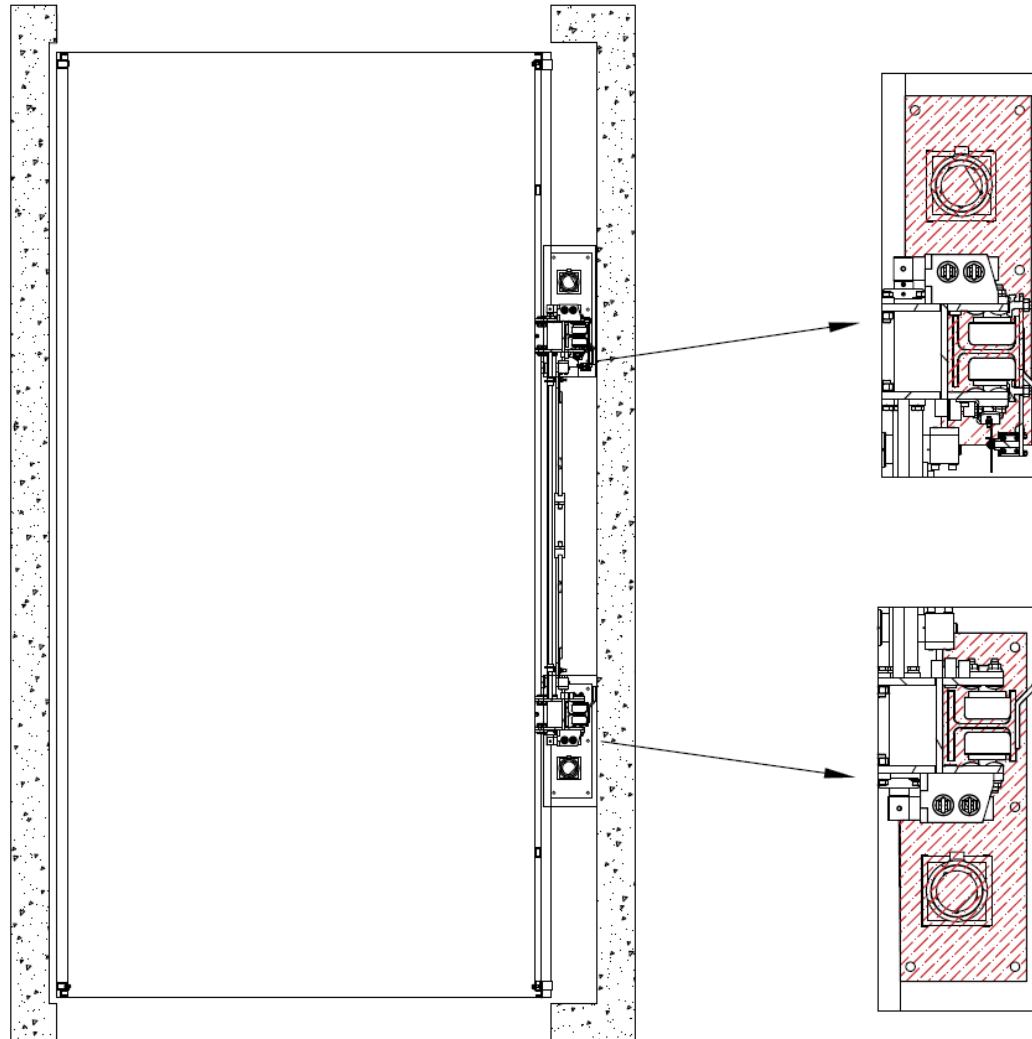
$$F_y = 65.370 \text{ N}$$

Case of load shift regarding y axis

$$F_x = 165.620 \text{ N}$$

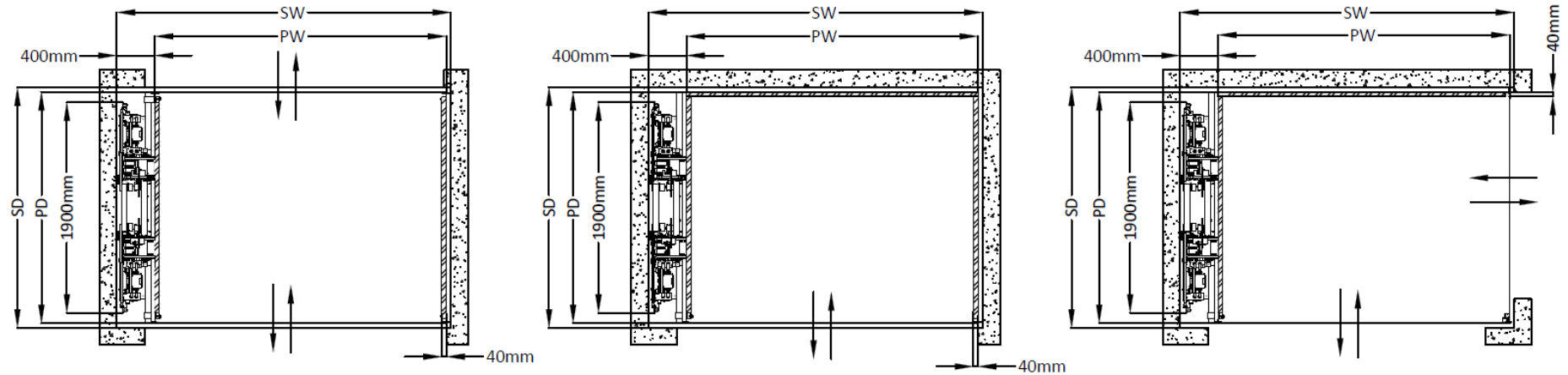
$$F_y = 173.561 \text{ N}$$

3.2 Forces on the pit



Forces are applied on the red area and are 250.000 N

4. Top view – Narrow mechanism

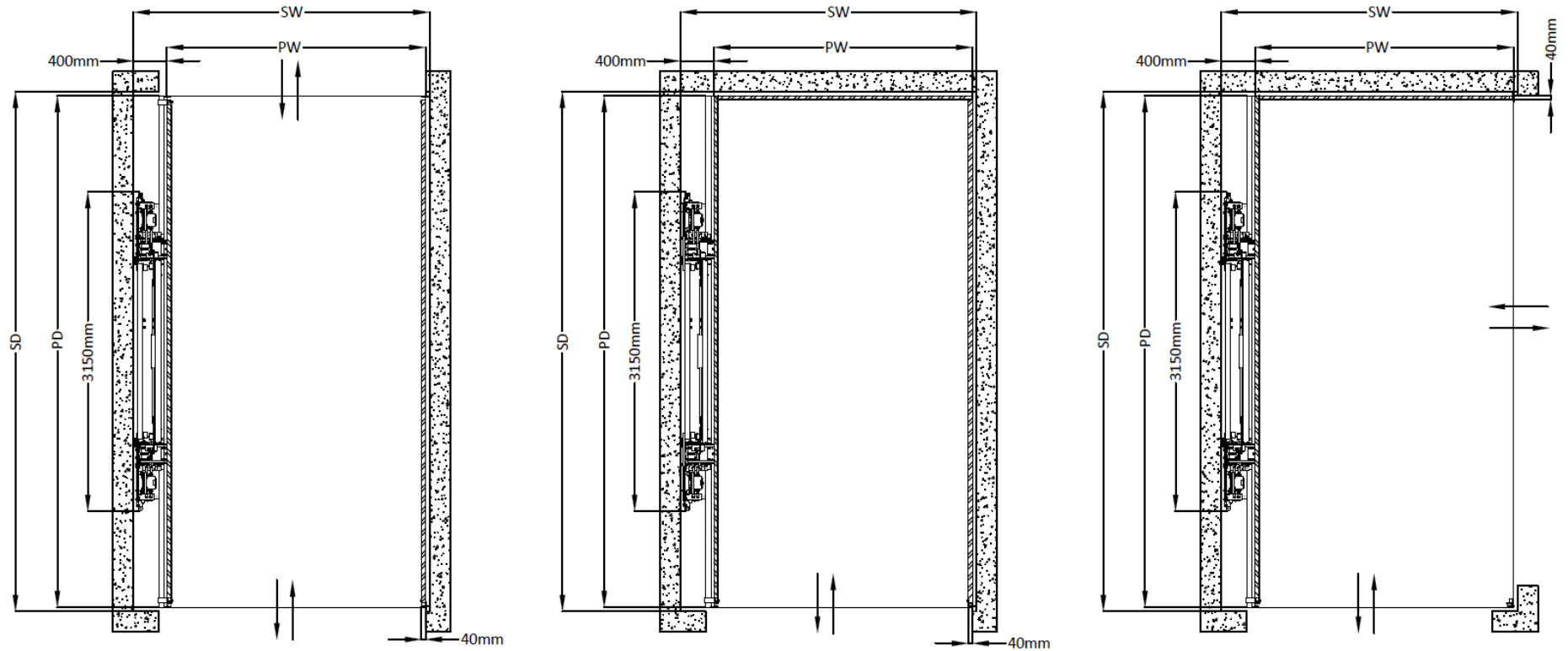


		Min (mm)	Max (mm)
SD	Shaft Depth	2050	3300
PD	Platform Depth	1950	3200
SW	Shaft Width	1200	3050
PW	Platform Width	700	2550

Notes:

- Recommended distance between shaft and platform: 50 mm
- Thickness of railings: 40 mm
- Any combination of entrance and exit on the three sides is possible

5. Top views – Wide mechanism



		Min (mm)	Max (mm)
SD	Shaft Depth	3300	5600
PD	Platform Depth	3200	5500
SW	Shaft Width	1200	3050
PW	Platform Width	700	2550

Notes:

- Recommended distance between shaft and platform: 50 mm
- Thickness of railings: 40 mm
- Any combination of entrance and exit on the three sides is possible

6. Detailed design

