

# ATLASbasic 2:1

## PLANNING DATA

Technical Specifications		ATLASbasic 2:1			
Rated Load (kg) (max P+Q=2050)		<b>300</b>	<b>450</b>	<b>630</b>	<b>1000</b>
Persons		4	6	8	13
Suspension		2:1			
max Travel (m)		30			
Stops		11			
max Car Speed (m/sec)		1			
min Pit (mm)		1100 (Car Speed ≤ 1,0 m/sec)			
min Headroom (mm) *		3450 (Car Speed ≤ 1,0 m/sec)			
Car Sling Weight (kg)		180~250			
max Car Sling Weight (doors included) (kg)		700	700	870	800
Car Guide Rails / Cwt Guide Rails		T75x62x10 C / T50x50x5 C			T89x62x16 C / T50x50x5 C
Car dbg (mm)		1000 ~ 1850 mm per 50mm			
Counterweight dbg (mm)		700			800
max Vertical Distance Between Brackets (mm)		2000			
Ropes		DRAKO 250T Ø6.5			

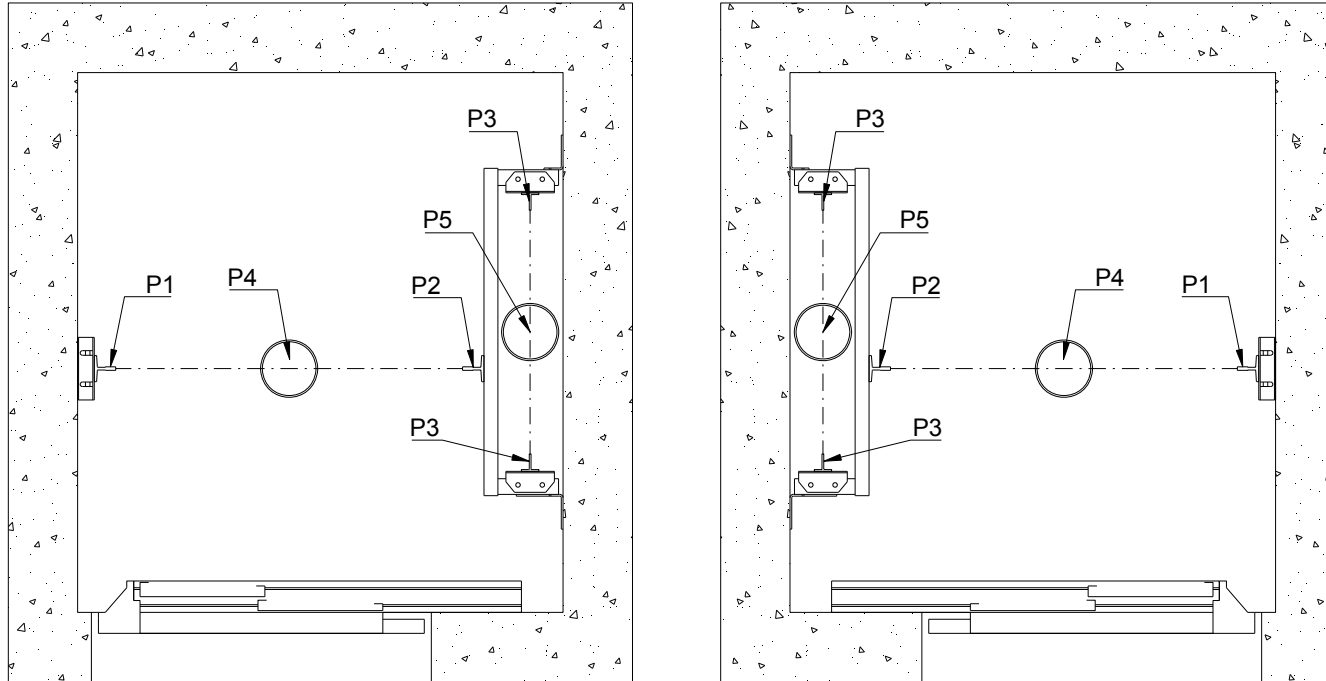
<b>P</b>		900	1100	Max 1050
<b>Number of Ropes</b>		6 x Ø6.5	7 x Ø6.5	8 x Ø6.5
<b>Gear Type / Inverter</b>		GE150-240-225, 5.4Kw ή ERS-61P0 4.0Kw (μόνο για 8 άτομα & μέχρι εξαντλήσεως αποθεμάτων)		GE225 - 240 - 225, 8.3Kw
<b>Gear Current (Nominal) (A)</b>		11.3		17.4
<b>Gear Current (Starting) (A)</b>		21.5		32.3

- for v=1.0m/s, cabin external height 2340 mm and car door 2000 mm

<b>Overspeed governor</b>	PFB LK300 (will be replaced by Kleemann KLG)
<b>Overspeed governor ropes</b>	DRAKO Ø8mm 8x19S, min breaking load 30400N
<b>Electronic overload</b>	DS-Europe MRL for Ø6.5 mm ropes
<b>Cabin type</b>	<ul style="list-style-type: none"> <li>• MODERN LIFE (L530, L320, L310)</li> <li>• CLASSIC ATHENA (A530, A510, A310)</li> <li>• GEMINI, Panoramic.</li> </ul>
<b>Controller</b>	KLC-Logic (H32 & LISA as option. They will be replaced by serial controller)

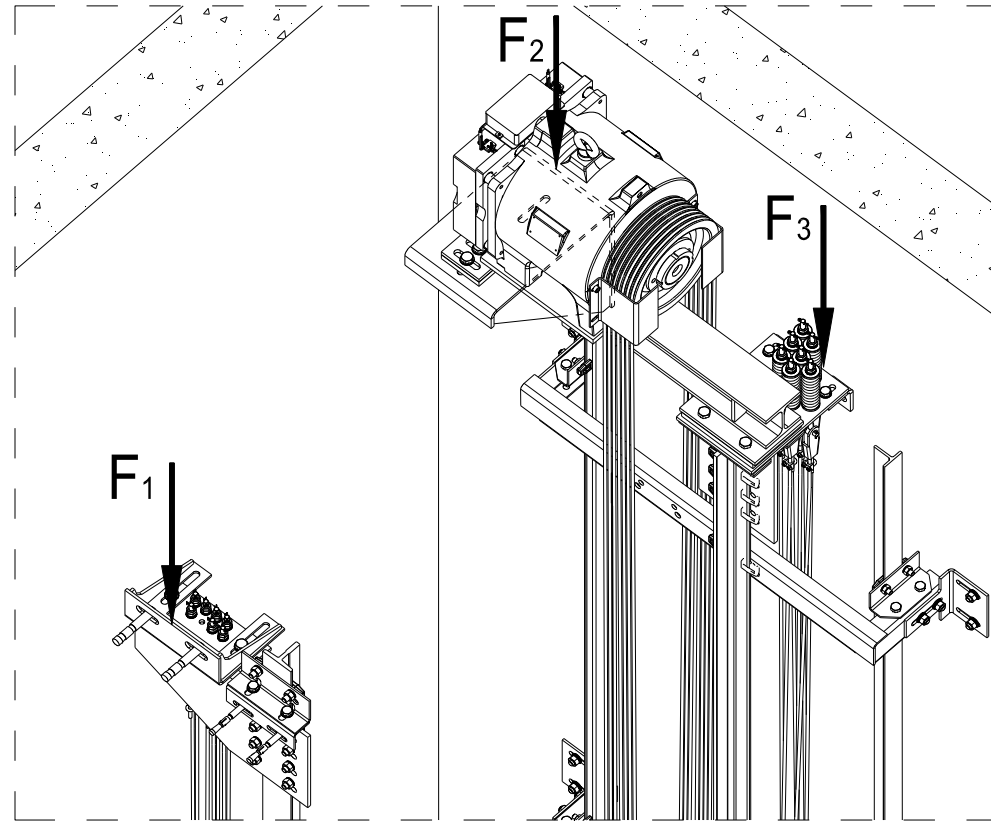
## FORCES ON SHAFT

### a. Forces on pit floor



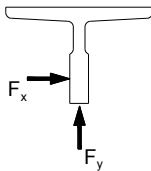
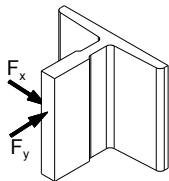
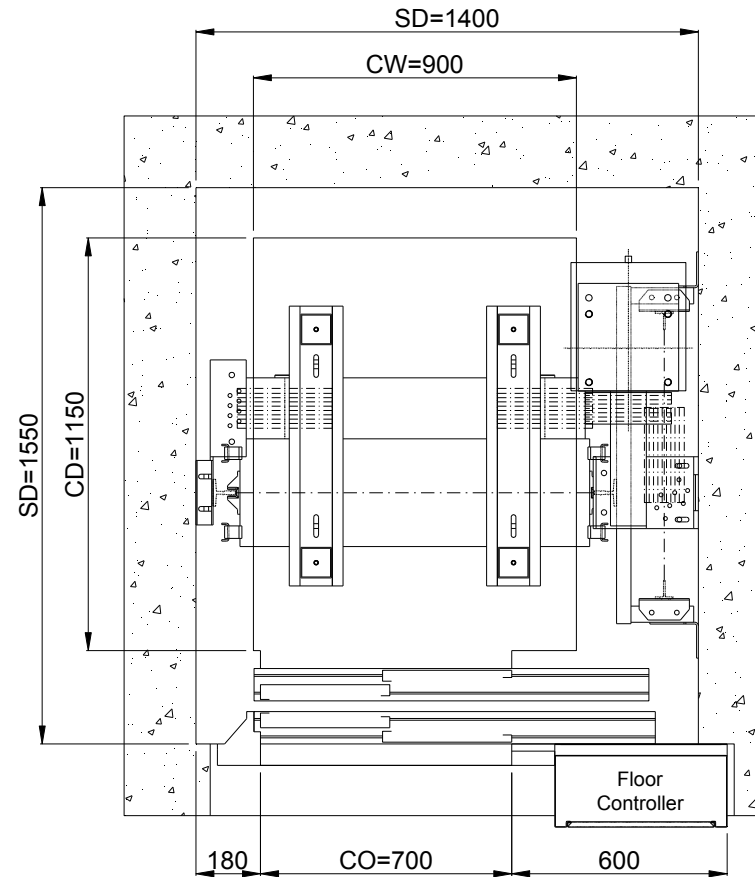
RATED LOAD [Kg]	300~375	450	630	1000	Notes
P1 [kN]	12.5	13.3	17	20	
P2 [kN]	28	29	37	42	
P3 [kN]	16	16.6	21	23	Only in cwt with safety gear
P4 [kN]	50	53	68	81	
P5 [kN]	43	44	56	61	

**b. Forces on headroom walls**



RATED LOAD (kg)	300~375	450	630	1000
$F_1$ [KN]	14.5	15.3	17.0	20.2
$F_2$ [KN]	11.2	11.6	12.6	13.5
$F_3$ [KN]	8	8.2	8.7	9.6

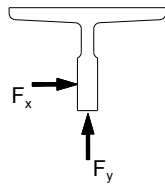
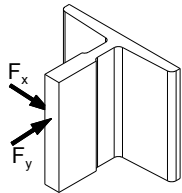
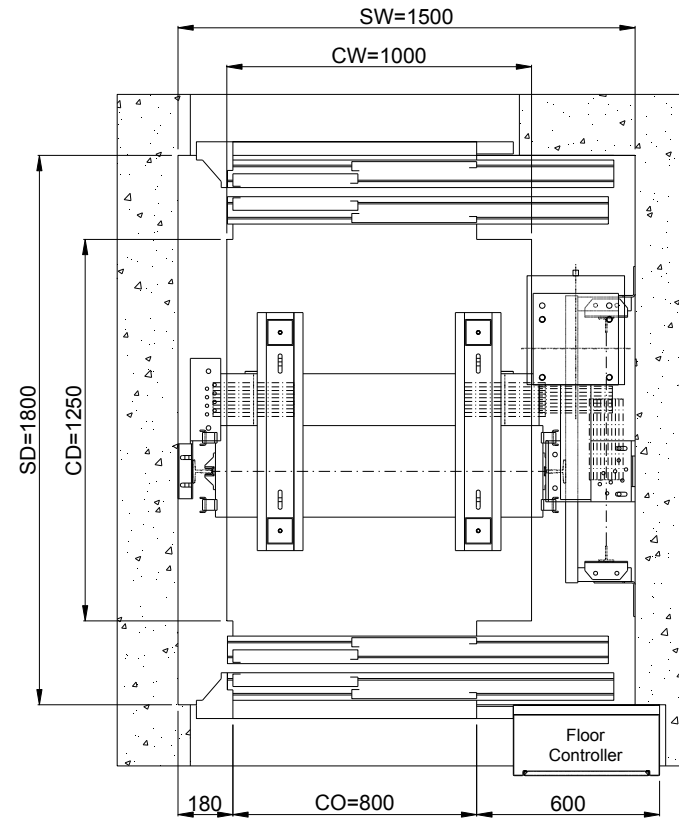
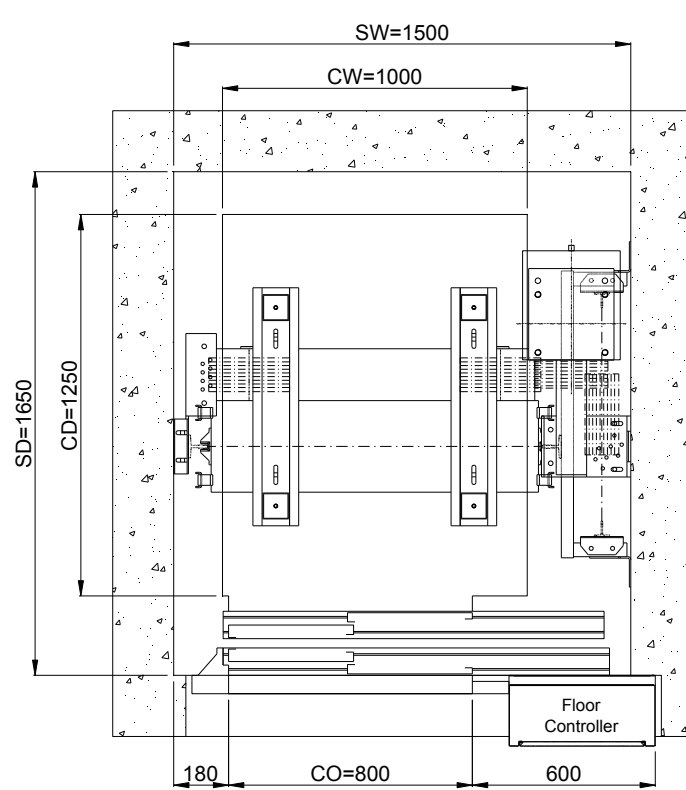
ATLASbasic **2:1** (375 Kg / 5 persons / Available car area 900x1150)  
Side-opening doors



$F_x$	1013 N
$F_y$	463 N

**Note:**  
Shaft Width is given for surface mounted COP.  
Otherwise, Shaft Width must be increased by 50mm

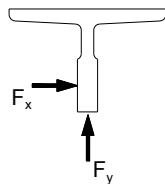
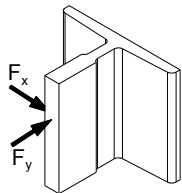
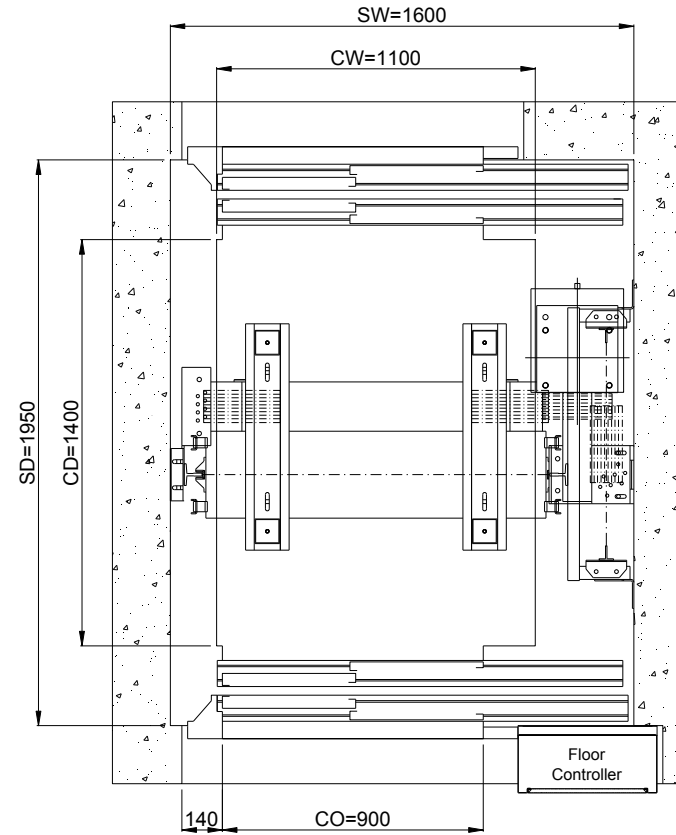
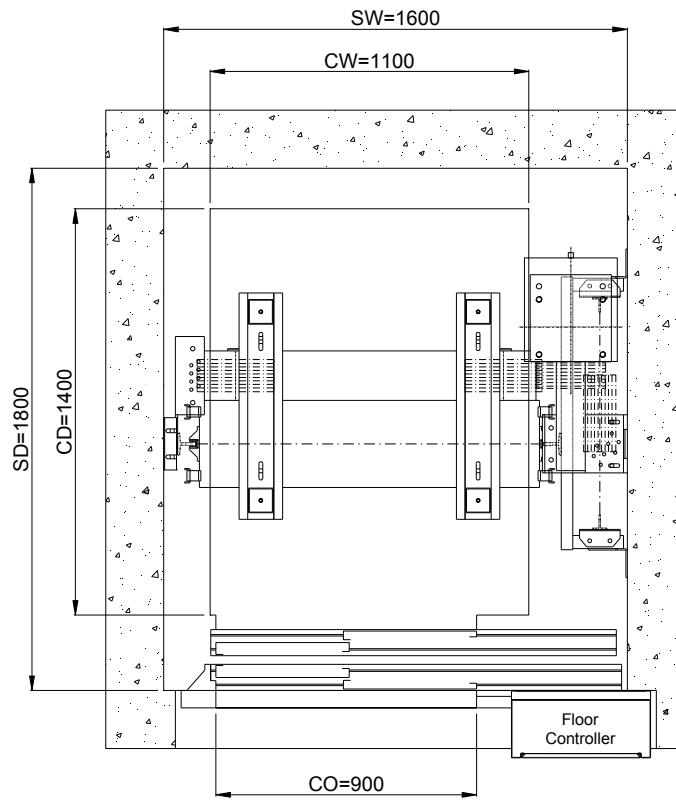
ATLASbasic 2:1 (450 Kg / 6 persons / Available car area 1000x1250)  
Side-opening doors



$F_x$	1104 N
$F_y$	569 N

**Note:**  
Shaft Width is given for surface mounted COP.  
Otherwise, Shaft Width must be increased by 50mm

**ATLASbasic 2:1 (630 Kg / 8 persons / Available car area 1100x1400)**  
**Side-opening doors**

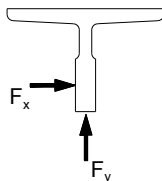
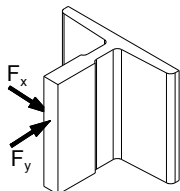
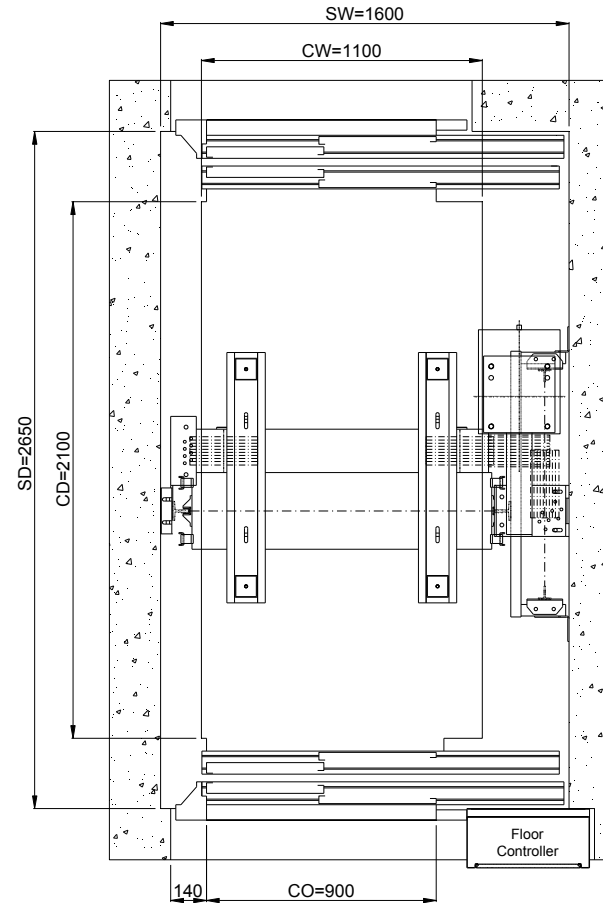
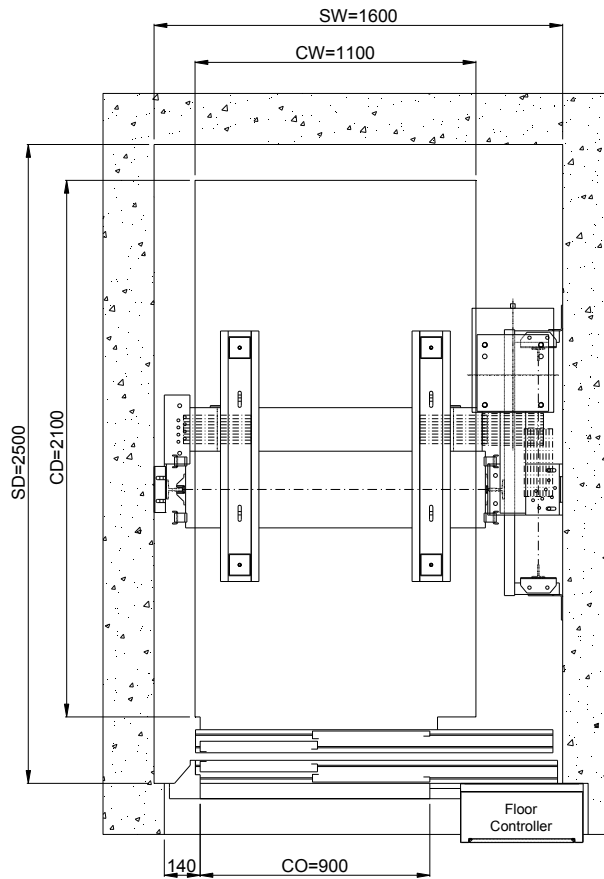


$F_x$	1460 N
$F_y$	829 N

**Note:**  
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Otherwise, Shaft Width must be increased by 50mm



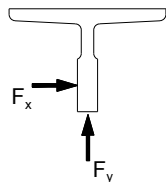
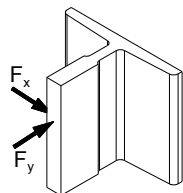
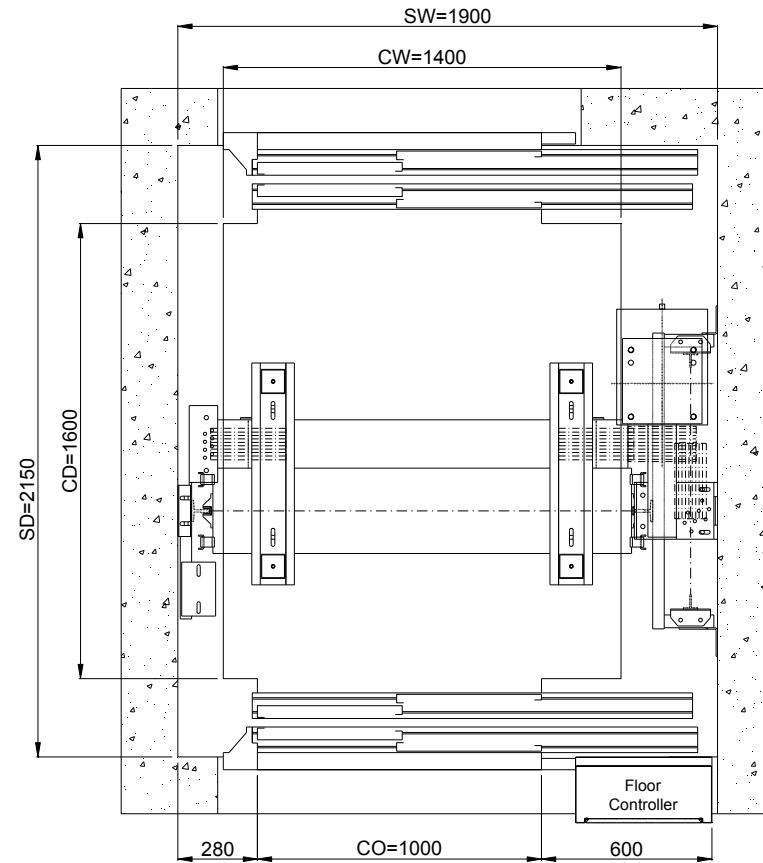
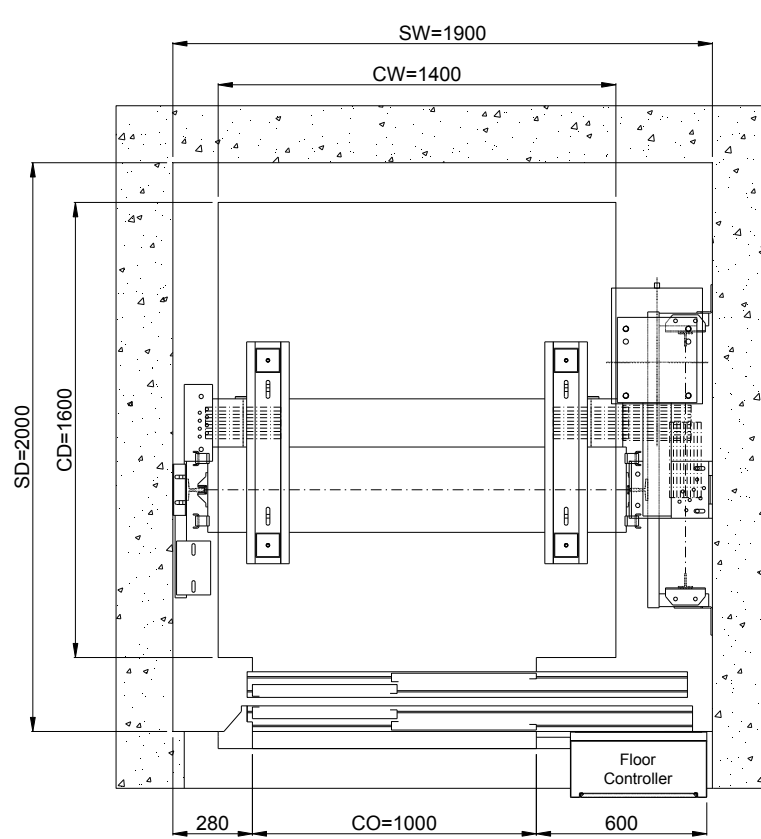
**ATLASbasic 2:1 ( 1000Kg / 13 persons / Available car area 1100x2100)**  
**Side-opening doors**



$F_x$	2070 N
$F_y$	1220 N

**Note:**  
Shaft Width is given for surface mounted COP.  
Otherwise, Shaft Width must be increased by 50mm

ATLASbasic 2:1(1000 Kg / 13 persons / Available car area 1400x1600)  
Side-opening doors

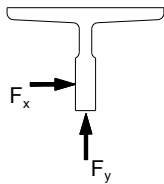
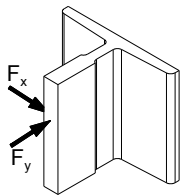
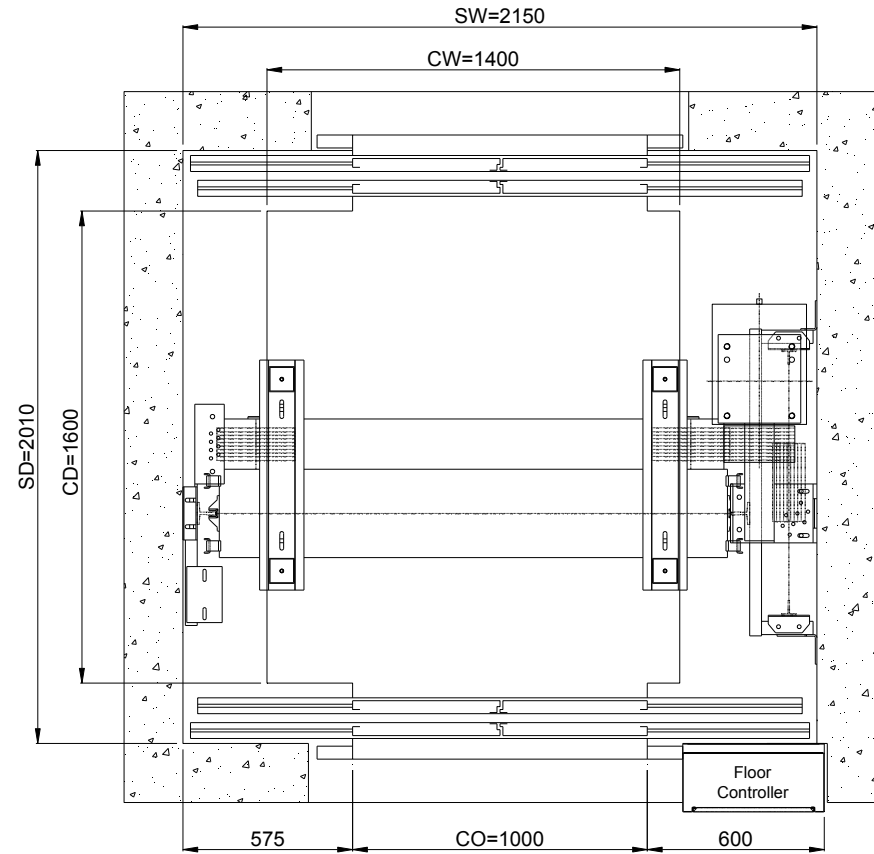
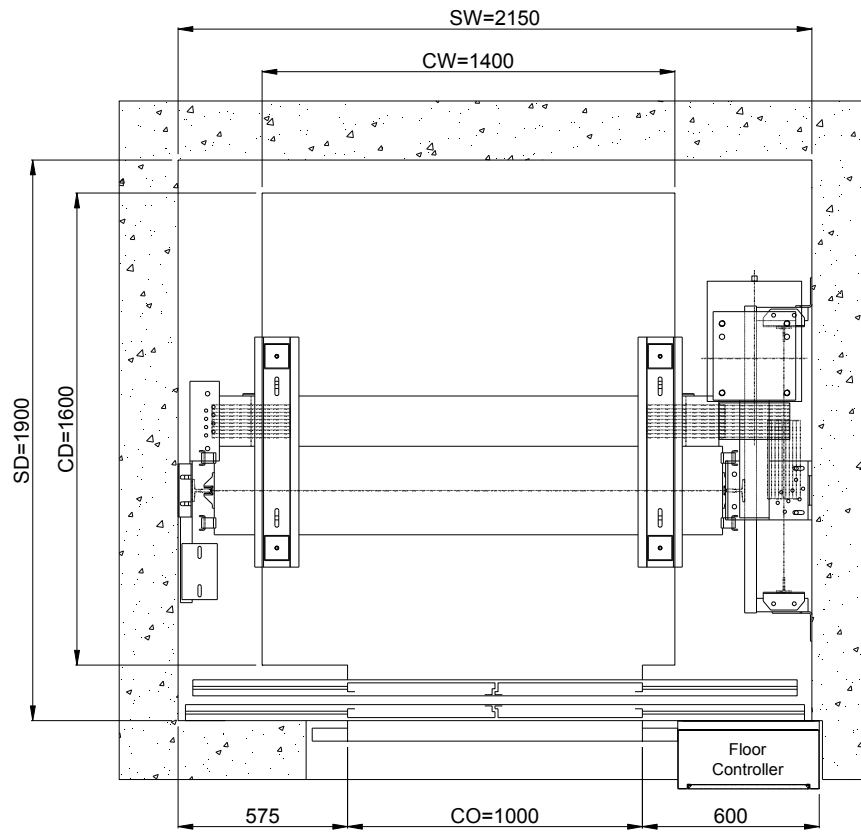


$F_x$	2044 N
$F_y$	1477 N

**Note:**

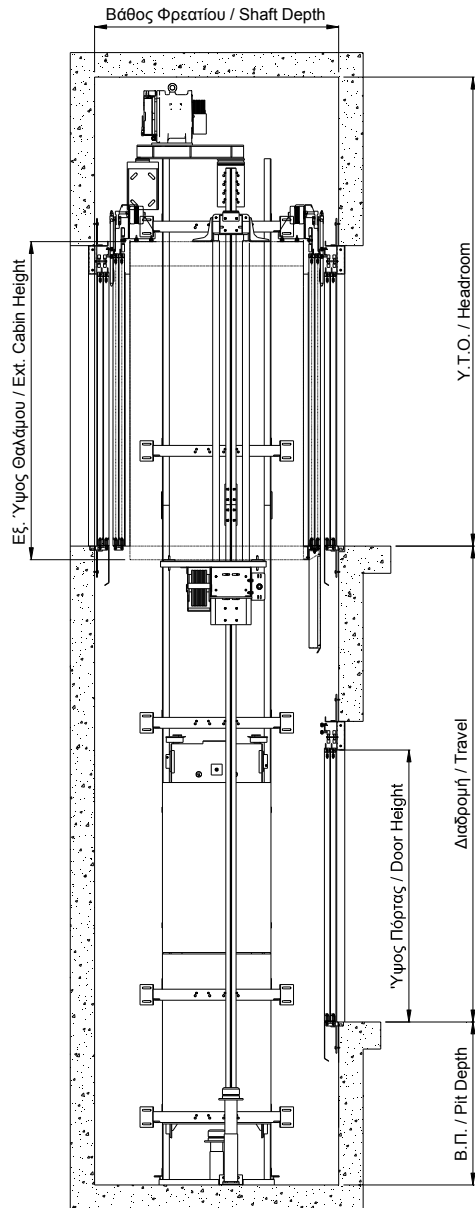
Shaft Width is given for surface mounted COP.  
Otherwise, Shaft Width must be increased by 50mm

**ATLASbasic 2:1 (1000 Kg / 13 persons / Available car area 1400x1600)**  
**Central-opening doors**



$F_x$	2044 N
$F_y$	1477 N

**Note:**  
Shaft Width is given for surface mounted COP.  
Otherwise, Shaft Width must be increased by 50mm



Single Entrance Cabin			
External Cabin Height [mm]	Door Height [mm]	v ≤ 1.0 m/s	
		Min. Pit	Min. Headroom
2340	2000	1200	3450
	2100		
2430	2000	1200	3550
	2100		

Through Cabin			
External Cabin Height [mm]	Door Height [mm]	v ≤ 1.0 m/s	
		Min. Pit	Min. Headroom
2340	2000	1200	3450
	2100		3550
2430	2000	1200	3550
	2100		