

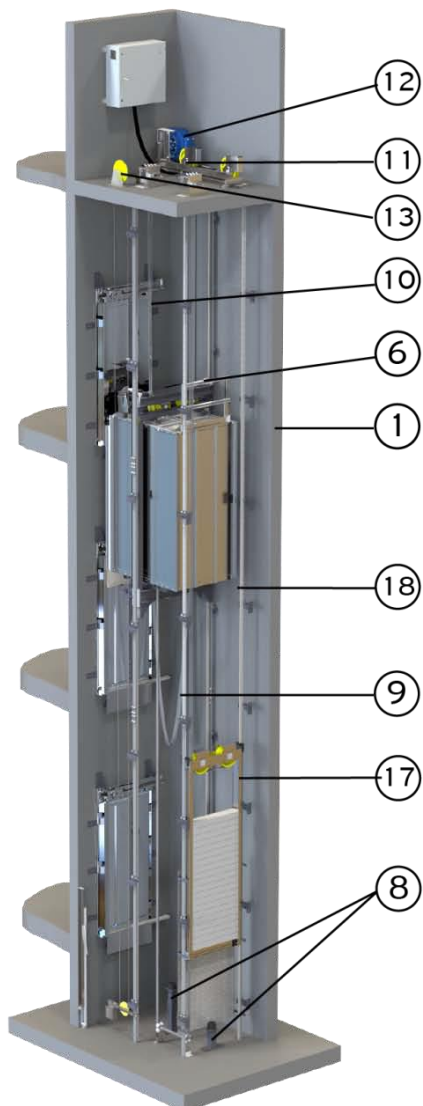
► **Range of Application**  
Traction RC

## Contents

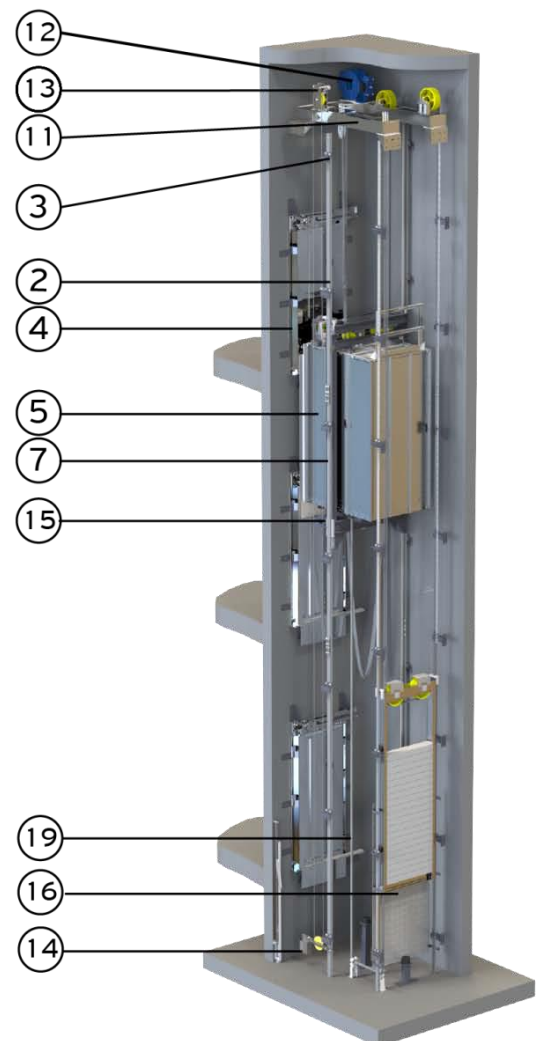
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### 3D Layout

MR RC



MRL RC



<b>1</b>	Shaft Wall	<b>11</b>	Machine Base
<b>2</b>	Guide Rail	<b>12</b>	Gearless machine
<b>3</b>	Guide Rail Brackets	<b>13</b>	Overspeed Governor
<b>4</b>	Landing Doors	<b>14</b>	Tension Weight
<b>5</b>	Car	<b>15</b>	Car Sling Safety Gear
<b>6</b>	Ballustrade	<b>16</b>	Counterweight Protection Cover
<b>7</b>	Car Sling	<b>17</b>	Counterweight Sling
<b>8</b>	Buffer With Support	<b>18</b>	Counterweight Guiderrails
<b>9</b>	Flexible Cable	<b>19</b>	Compensation Chain
<b>10</b>	Ropes		

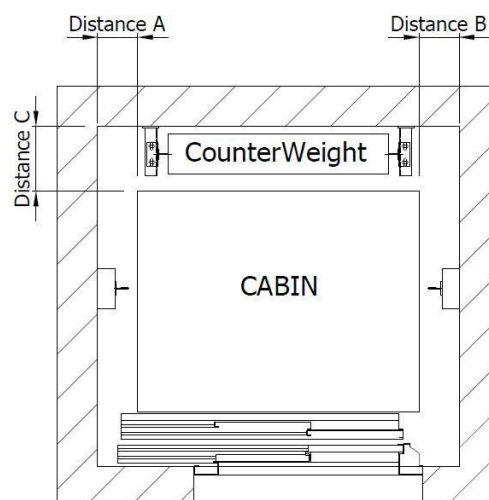
## Technical Specifications: Traction MR RC 1.0m/s

Lift Type	Traction MR RC 1.0m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT</b> EN81-20:	1000	1000	1000	1000	1000	1000	1000	1050
<b>Min PIT</b> EN81-21:	700*	700*	700*	700*	750*	750*	750*	800*
<b>Min PIT</b> Beyond EN81-20:	700*	700*	700*	700*	750*	750*	750*	800*
<b>Min. Headroom</b> EN81-20:	3350	3350	3350	3350	3350	3350	3350	3350
<b>Min. Headroom</b> EN81-21:	2850	2850	2850	2850	2850	2850	2850	2850
<b>Min. Headroom</b> Beyond EN81-20:	2850	2850	2850	2850	2850	2850	2850	2850
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Ø320	Ø320	Ø320	Ø320	Ø400	Ø400	Ø400	Ø480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*For travel more than 30000mm, a compensation chain is added and the pit depth must be  $\geq 1000$ mm

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
- Max Speed 2,5m/s (pit depth and headroom might change)
- Easy maintenance
- Smooth operation
- Competitive price
- Quick production and delivery times
- Automatic emergency operation in case of power failure as a standard.
- Controlled by variable frequency drive system which:
  - is extremely energy efficient
  - operates almost silently
  - gives passengers a smooth ride
  - improves leveling accuracy
- Conformity with EN81-20/50, EN81-21 & EN81-1



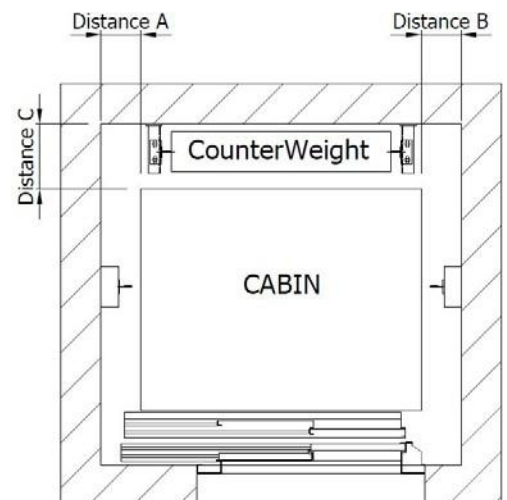
## Technical Specifications: Traction MR RC 1.6m/s

Lift Type	Traction MR RC 1.6m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1250	1250	1250	1250	1300	1300	1300	1350
<b>Min PIT EN81-21:</b>	1050*	1050*	1050*	1050*	1100*	1100*	1100*	1150*
<b>Min PIT Beyond EN81-20:</b>	1050*	1050*	1050*	1050*	1100*	1100*	1100*	1150*
<b>Min. Headroom EN81-20:</b>	3550	3550	3550	3550	3550	3550	3550	3550
<b>Min. Headroom EN81-21:</b>	3000	3000	3000	3000	3000	3000	3000	3000
<b>Min. Headroom Beyond EN81-20:</b>	3000	3000	3000	3000	3000	3000	3000	3000
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*For travel more than 30000mm, a compensation chain is added and the pit depth must be  $\geq 1200$ mm.

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
- Max Speed 2,5m/s (pit depth and headroom might change)
- Easy maintenance
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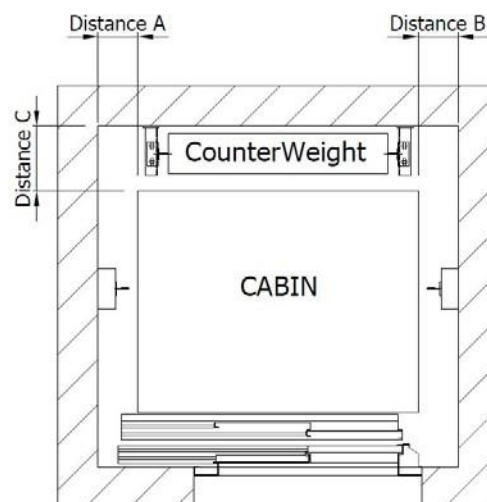


## Technical Specifications: Traction MR RC 2.0m/s

Lift Type	Traction MR RC 2.0m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min PIT EN81-21:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min PIT Beyond EN81-20:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min. Headroom EN81-20:</b>	3650	3650	3650	3650	3650	3650	3650	3650
<b>Min. Headroom EN81-21:</b>	3050	3050	3050	3050	3050	3050	3050	3050
<b>Min. Headroom Beyond EN81-20:</b>	3050	3050	3050	3050	3050	3050	3050	3050
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
- Max Speed 2,5m/s (pit depth and headroom might change)
- Easy maintenance
- Smooth operation
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  - improves leveling accuracy
- Conformity with EN81-20/50, EN81-21 & EN81-1

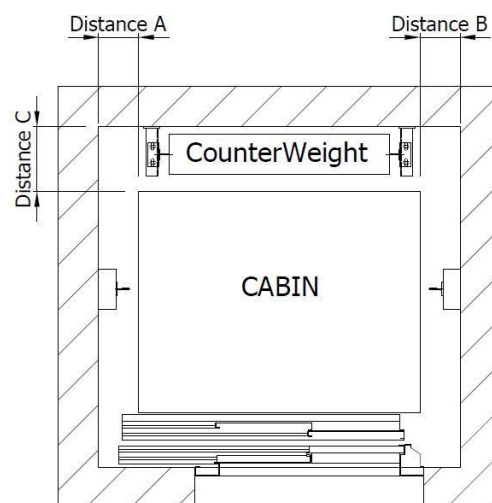


## Technical Specifications: Traction MR RC 2.5m/s

Lift Type	Traction MR RC 2.5m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min PIT EN81-21:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min PIT Beyond EN81-20:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min. Headroom EN81-20:</b>	3950	3950	3950	3950	3950	3950	3950	3950
<b>Min. Headroom EN81-21:</b>	3250	3250	3250	3250	3250	3250	3250	3250
<b>Min. Headroom Beyond EN81-20:</b>	3250	3250	3250	3250	3250	3250	3250	3250
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
- Max Speed 2,5m/s (pit depth and headroom might change)
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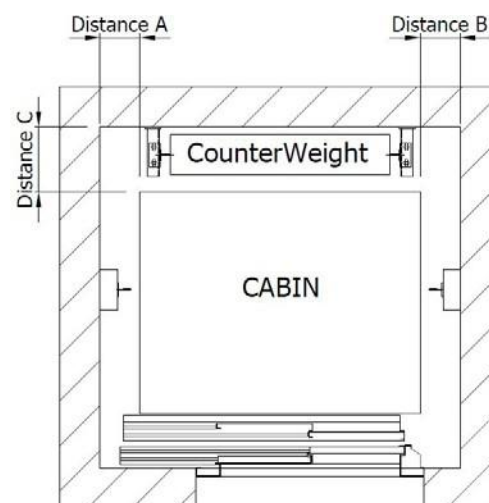
## Technical Specifications: Traction MRL RC 1.0m/s

Lift Type	Traction MRL RC 1.0m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1000	1000	1000	1000	1000	1000	1000	1050
<b>Min PIT EN81-21:</b>	700*	700*	700*	700*	750*	750*	750*	800*
<b>Min PIT Beyond EN81-20:</b>	700*	700*	700*	700*	750*	750*	750*	800*
<b>Min. Headroom EN81-20:</b>	4100	4100	4100	4100	4200	4200	4200	4300
<b>Min. Headroom EN81-21:</b>	3600	3600	3600	3600	3700	3700	3700	3800
<b>Min. Headroom Beyond EN81-20:</b>	3600	3600	3600	3600	3700	3700	3700	3800
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*For travel more than 30000mm, a compensation chain is added and the pit depth must be  $\geq 1000$ mm

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
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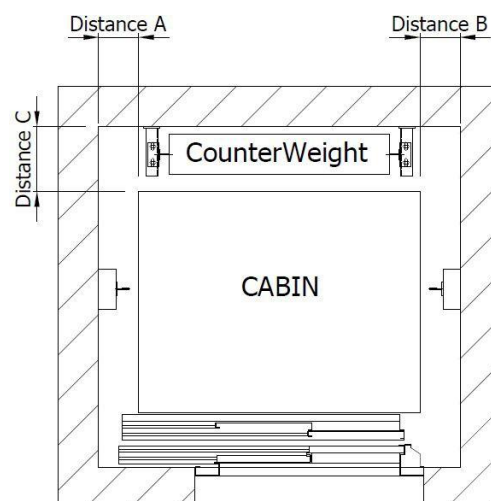
## Technical Specifications: Traction MRL RC 1.6m/s

Lift Type	Traction MRL RC 1.6m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1250	1250	1250	1250	1300	1300	1300	1350
<b>Min PIT EN81-21:</b>	1050*	1050*	1050*	1050*	1100*	1100*	1100*	1150*
<b>Min PIT Beyond EN81-20:</b>	1050*	1050*	1050*	1050*	1100*	1100*	1100*	1150*
<b>Min. Headroom EN81-20:</b>	4300	4300	4300	4300	4400	4400	4400	4500
<b>Min. Headroom EN81-21:</b>	3750	3750	3750	3750	3850	3850	3850	3950
<b>Min. Headroom Beyond EN81-20:</b>	3750	3750	3750	3750	3850	3850	3850	3950
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*For travel more than 30000mm, a compensation chain is added and the pit depth must be  $\geq 1200$ mm

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

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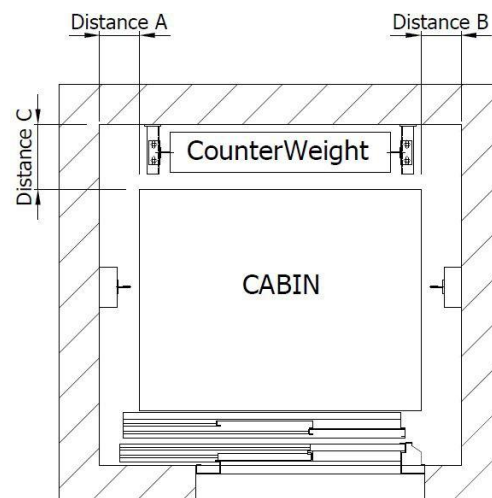


## Technical Specifications: Traction MRL RC 2.0m/s

Lift Type	Traction MRL RC 2.0m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min PIT EN81-21:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min PIT Beyond EN81-20:</b>	1350	1350	1350	1350	1400	1400	1400	1450
<b>Min. Headroom EN81-20:</b>	4400	4400	4400	4400	4500	4500	4500	4600
<b>Min. Headroom EN81-21:</b>	3800	3800	3800	3800	3900	3900	3900	4000
<b>Min. Headroom Beyond EN81-20:</b>	3800	3800	3800	3800	3900	3900	3900	4000
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

\*\*Max travel without compensation chain 30000mm.  
Max travel with compensation chain 100000mm

- Max Load: 2000kg
- Max Speed 2,5m/s (pit depth and headroom might change)
- Easy maintenance
- Smooth operation
- Competitive price
- Quick production and delivery times
- Automatic emergency operation in case of power failure as a standard.
- Controlled by variable frequency drive system which:
  - is extremely energy efficient
  - operates almost silently
  - gives passengers a smooth ride
  - improves leveling accuracy
- Conformity with EN81-20/50, EN81-21 & EN81-1

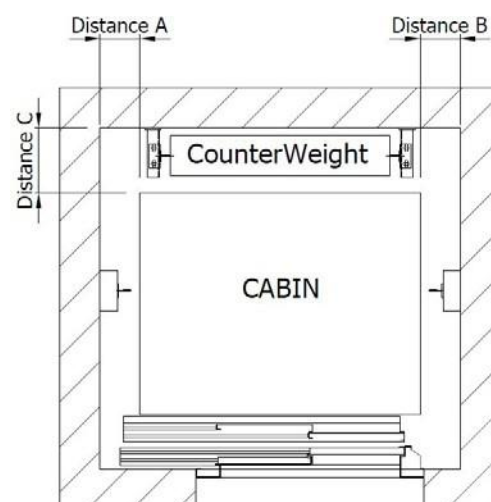


## Technical Specifications: Traction MRL RC 2.5m/s

Lift Type	Traction MRL RC 2.5m/s							
<b>Max Capacity:</b>	<b>300 kg</b>	<b>400 kg</b>	<b>630 kg</b>	<b>630 kg</b>	<b>800 kg</b>	<b>1000 kg</b>	<b>1000 kg</b>	<b>1425 kg</b>
<b>Min PIT EN81-20:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min PIT EN81-21:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min PIT Beyond EN81-20:</b>	1750	1750	1750	1750	1800	1800	1800	1850
<b>Min. Headroom EN81-20:</b>	4700	4700	4700	4700	4800	4800	4800	4900
<b>Min. Headroom EN81-21:</b>	4000	4000	4000	4000	4100	4100	4100	4200
<b>Min. Headroom Beyond EN81-20:</b>	4000	4000	4000	4000	4100	4100	4100	4200
<b>Car guide Rails:</b>	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
<b>CW guide Rails:</b>	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
<b>Travel:</b>	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
<b>Min. Distance A:</b>	200	200	200	225	200	200	350	200
<b>Min. Distance B:</b>	200	200	200	225	200	200	200	200
<b>Min. Distance C:</b>	325	325	325	325	325	325	425	400
<b>Machine Pulley:</b>	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
<b>Acting:</b>	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
<b>Standard Shaft:</b>	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
<b>Standard Cabin:</b>	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
<b>Standard Door:</b>	650 side opening	700 side opening	900 side opening	800 side opening	900 side opening	1200 side opening	900 side opening	1200 central opening

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## Πιστοποίηση/ Certification

# Q-CERT

## ΠΙΣΤΟΠΟΙΗΤΙΚΟ/CERTIFICATE

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QMSCERT, a notified body (notification No 1617) and a provider of third-party system certification organization acting in accordance with the requirements of ISO 17021 for registrars, attests that:

**DOPPLER S.A.**  
 POLYKASTRO INDUSTRIAL PARK, GR-61200,  
 POLYKASTRO, GREECE

With a scope of:

*Design, Production & Assembly for lift type:  
 Hydraulic & Traction Lifts for Passengers & Goods*


Date of Application:	28.07.2017
Evaluation Period:	September 2017 - October 2017
Type of Installed Lift:	Hydraulic and Traction Lifts for Passengers and Goods
Standard (s) against which the evaluation was conducted:	EN81-20:2014
	EN 81-50:2014
	EN 81-1:1998+A3:2009
	EN 81-2:1998+A3:2009
Report No. / Date:	12.360.0 / 05.10.2017

has established and implements a certified quality assurance management system according to:


**Directive 2014/33/EU Annex XI, Module H1**

September 23<sup>rd</sup>, 2019  
 Certification Period Ending

September 24<sup>th</sup>, 2016  
 Certification Date



QMSCERT® No. 230513/4136



MS Certification  
 Cert. No. 110-6

QMSCERT 26<sup>th</sup> OCTOBER Str. 90 - GR 546 27 - THESSALONIKI - HELLAS