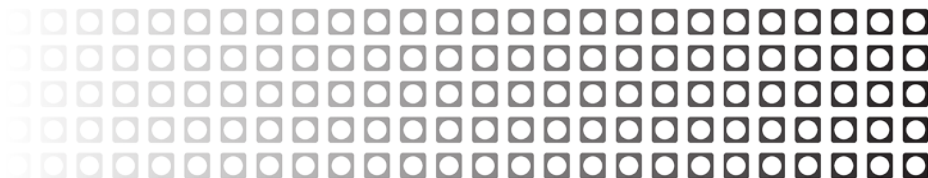


▶ Range of Application

Traction RC

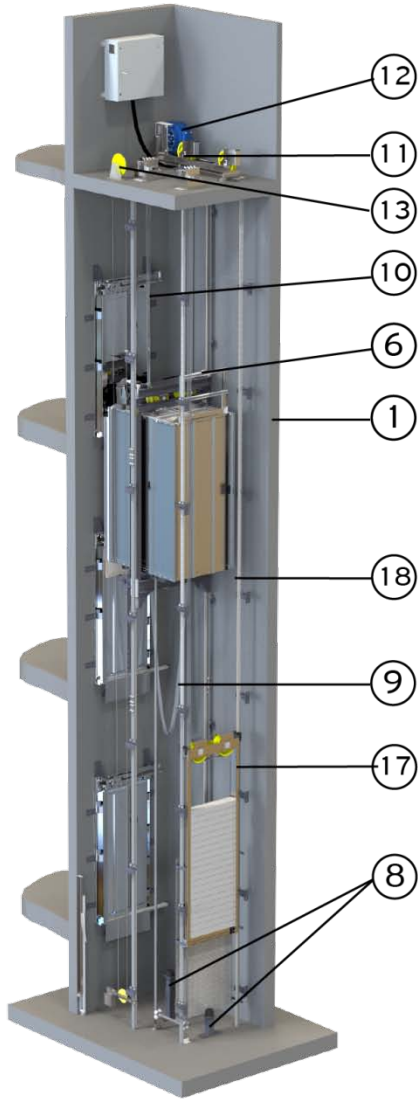


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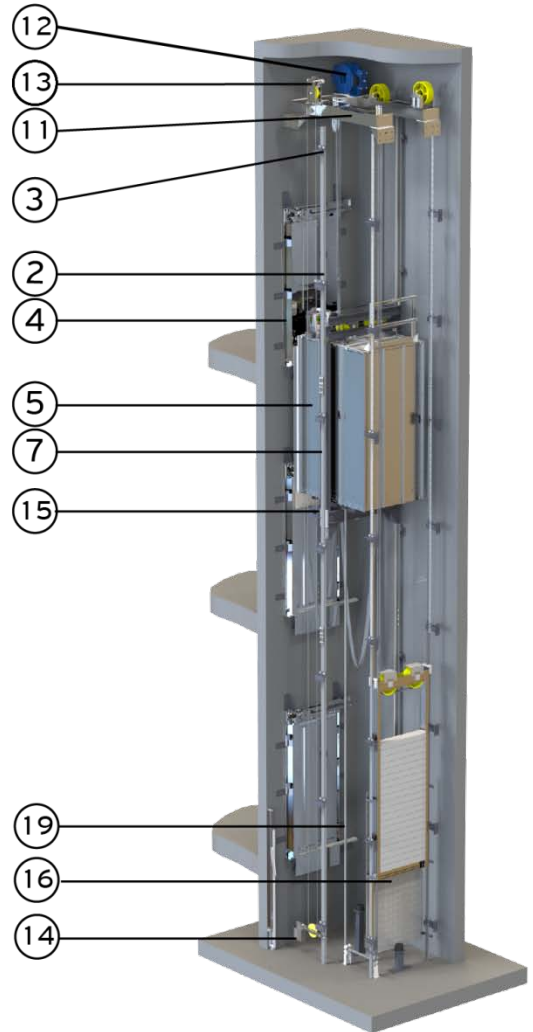
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3D Layout

MR RC



MRL RC



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

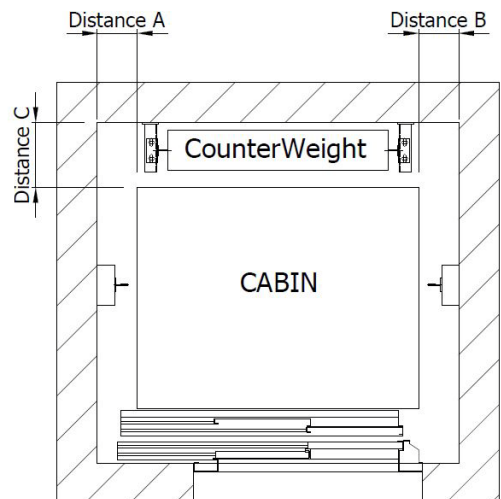
Technical Specifications: Traction MR RC 1.0m/s

Lift Type	Traction MR RC 1.0m/s							
	300 kg	400 kg	630 kg	630 kg	800 kg	1000 kg	1000 kg	1425 kg
Max Capacity:	300 kg	400 kg	630 kg	630 kg	800 kg	1000 kg	1000 kg	1425 kg
Min PIT EN81-20:	1000	1000	1000	1000	1000	1000	1000	1050
Min PIT EN81-21:	700*	700*	700*	700*	750*	750*	750*	800*
Min PIT Beyond EN81-20:	700*	700*	700*	700*	750*	750*	750*	800*
Min. Headroom EN81-20:	3350	3350	3350	3350	3350	3350	3350	3350
Min. Headroom EN81-21:	2850	2850	2850	2850	2850	2850	2850	2850
Min. Headroom Beyond EN81-20:	2850	2850	2850	2850	2850	2850	2850	2850
Car guide Rails:	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
CW guide Rails:	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
Travel:	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
Min. Distance A:	200	200	200	225	200	200	350	200
Min. Distance B:	200	200	200	225	200	200	200	200
Min. Distance C:	325	325	325	325	325	325	425	400
Machine Pulley:	φ320	φ320	φ320	φ320	φ400	φ400	φ400	φ480
Acting:	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
Standard Shaft:	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
Standard Cabin:	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
Standard Door:	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 ≥ 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



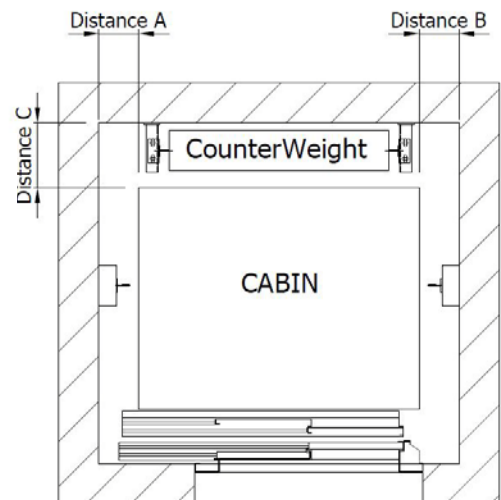
Technical Specifications: Traction MR RC 1.6m/s

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

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

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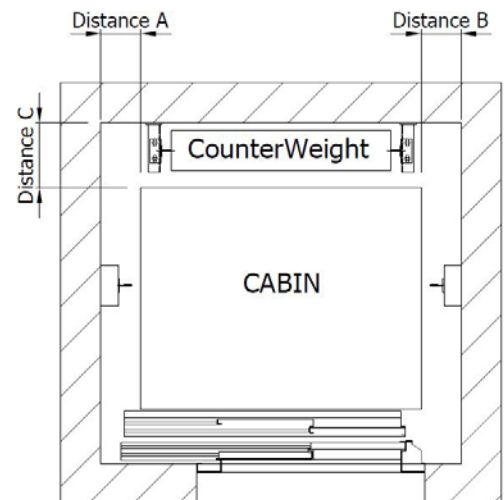


Technical Specifications: Traction MR RC 2.0m/s

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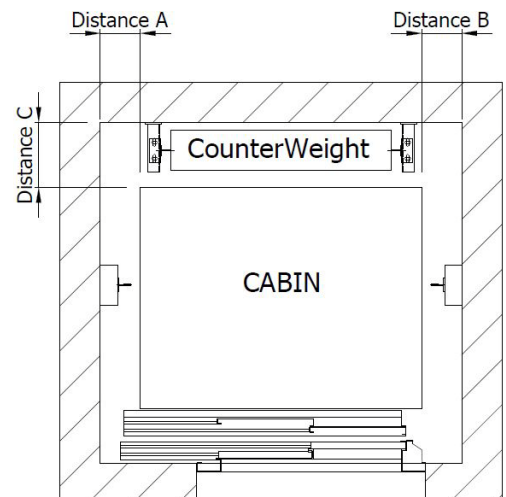


Technical Specifications: Traction MR RC 2.5m/s

Lift Type	Traction MR RC 2.5m/s							
Max Capacity:	300 kg	400 kg	630 kg	630 kg	800 kg	1000 kg	1000 kg	1425 kg
Min PIT EN81-20:	1750	1750	1750	1750	1800	1800	1800	1850
Min PIT EN81-21:	1750	1750	1750	1750	1800	1800	1800	1850
Min PIT Beyond EN81-20:	1750	1750	1750	1750	1800	1800	1800	1850
Min. Headroom EN81-20:	3950	3950	3950	3950	3950	3950	3950	3950
Min. Headroom EN81-21:	3250	3250	3250	3250	3250	3250	3250	3250
Min. Headroom Beyond EN81-20:	3250	3250	3250	3250	3250	3250	3250	3250
Car guide Rails:	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T82x68x9	T89x62x16
CW guide Rails:	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9
Travel:	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
Min. Distance A:	200	200	200	225	200	200	350	200
Min. Distance B:	200	200	200	225	200	200	200	200
Min. Distance C:	325	325	325	325	325	325	425	400
Machine Pulley:	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
Acting:	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
Standard Shaft:	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
Standard Cabin:	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
Standard Door:	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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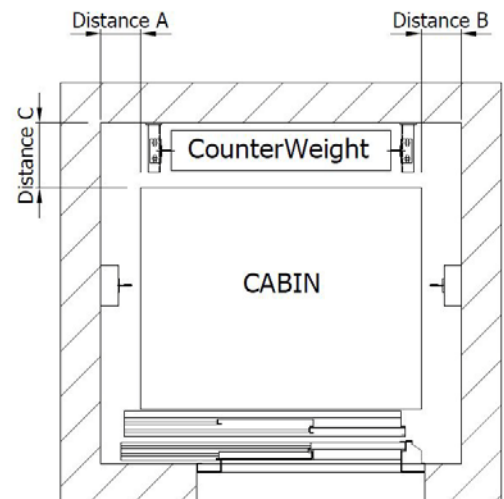
Technical Specifications: Traction MRL RC 1.0m/s

Lift Type	Traction MRL RC 1.0m/s							
Max Capacity:	300 kg	400 kg	630 kg	630 kg	800 kg	1000 kg	1000 kg	1425 kg
Min PIT EN81-20:	1000	1000	1000	1000	1000	1000	1000	1050
Min PIT EN81-21:	700*	700*	700*	700*	750*	750*	750*	800*
Min PIT Beyond EN81-20:	700*	700*	700*	700*	750*	750*	750*	800*
Min. Headroom EN81-20:	4100	4100	4100	4100	4200	4200	4200	4300
Min. Headroom EN81-21:	3600	3600	3600	3600	3700	3700	3700	3800
Min. Headroom Beyond EN81-20:	3600	3600	3600	3600	3700	3700	3700	3800
Car guide Rails:	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
CW guide Rails:	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
Travel:	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
Min. Distance A:	200	200	200	225	200	200	350	200
Min. Distance B:	200	200	200	225	200	200	200	200
Min. Distance C:	325	325	325	325	325	325	425	400
Machine Pulley:	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
Acting:	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
Standard Shaft:	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
Standard Cabin:	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
Standard Door:	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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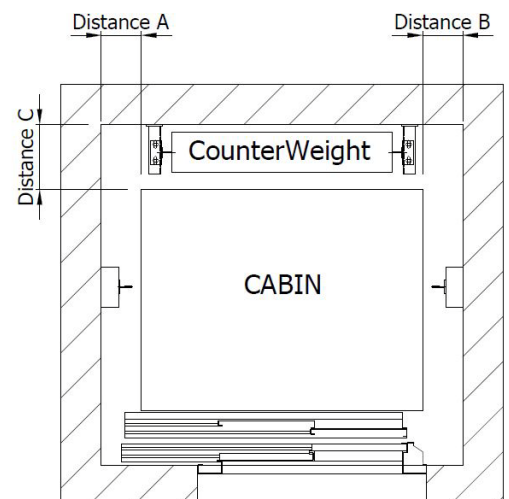
Technical Specifications: Traction MRL RC 1.6m/s

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

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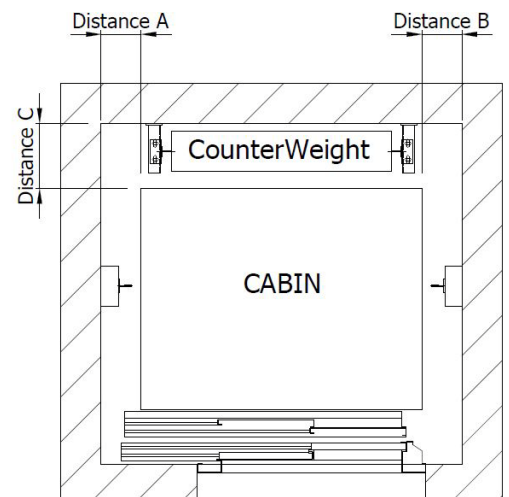


Technical Specifications: Traction MRL RC 2.0m/s

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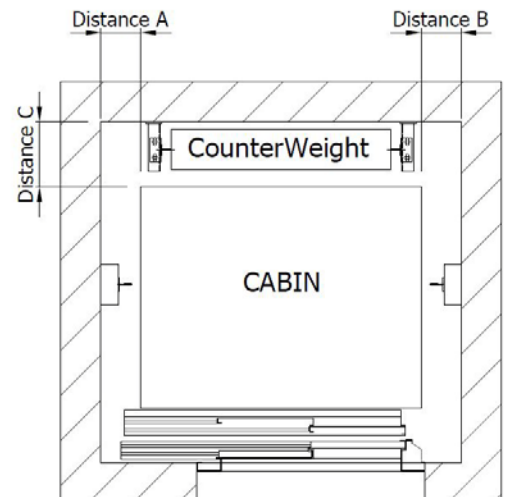


Technical Specifications: Traction MRL RC 2.5m/s

Lift Type	Traction MRL RC 2.5m/s							
Max Capacity:	300 kg	400 kg	630 kg	630 kg	800 kg	1000 kg	1000 kg	1425 kg
Min PIT EN81-20:	1750	1750	1750	1750	1800	1800	1800	1850
Min PIT EN81-21:	1750	1750	1750	1750	1800	1800	1800	1850
Min PIT Beyond EN81-20:	1750	1750	1750	1750	1800	1800	1800	1850
Min. Headroom EN81-20:	4700	4700	4700	4700	4800	4800	4800	4900
Min. Headroom EN81-21:	4000	4000	4000	4000	4100	4100	4100	4200
Min. Headroom Beyond EN81-20:	4000	4000	4000	4000	4100	4100	4100	4200
Car guide Rails:	T70x65x9	T70x65x9	T70x65x9	T70x65x9	T82x68x9	T89x62x16	T89x62x16	T114x89x16
CW guide Rails:	T50x50x5	T50x50x5	T50x50x5	T50x50x5	T70x65x9	T70x65x9	T70x65x9	T70x65x9
Travel:	30000**	30000**	30000**	30000**	30000**	30000**	30000**	30000**
Min. Distance A:	200	200	200	225	200	200	350	200
Min. Distance B:	200	200	200	225	200	200	200	200
Min. Distance C:	325	325	325	325	325	325	425	400
Machine Pulley:	Φ320	Φ320	Φ320	Φ320	Φ400	Φ400	Φ400	Φ480
Acting:	1:1	1:1	1:1	1:1	2:1	2:1	2:1	2:1
Standard Shaft:	1300x1600	1450x1700	1800x1700	1550x2000	1750x2000	2500x1700	1650x2800	2700x2000
Standard Cabin:	900x1000	1050x1100	1400x1100	1100x1400	1350x1400	2100x1100	1100x2100	2300x1400
Standard Door:	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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Max travel with compensation chain 100000mm

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- 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



Πιστοποίηση/ Certification

Q-CERT
ΠΙΣΤΟΠΟΙΗΤΙΚΟ/CERTIFICATE

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 23rd, 2019
Certification Period Ending


September 24th, 2016
Certification Date



CERT
Inspection - Certification



For the QMSCERT Board



MS Certification
Cert. No. 110-6

QMSCERT® No. 230513/4136

QMSCERT 26th OCTOBER Str. 90 - GR 546 27 - THESSALONIKI - HELLAS