RD SERIES ROLLER SHUTTER DOORS DRIVES

		RD-50-130-15	RD-63-200-12	RD-85-250-10	RD-85-250-15	RD-85-400-15
Mechanical Properties						
Output Torque	Nm	130	200	250	250	400
Output Speed	rpm	15	12	10	15	15
Output Shaft [1]	mm	25,0 25,4 30	30,0	30,0 40,0	30,0 40,0	40,0
Max. Cycles Per Hour [2]	h	10	8	10	10	9
Limit Switch Range	rev	20	20	20	20	20
Max. output speed OPEN / CLOSE for frequency inverter operation	rpm	26 / 20	17 / 12	18 / 15	26 / 15	26 / 15
Electrical Properties						
Motor Power	kW	0,37	0,55	0,55	0,75	1,10
Operating Voltage	V	3N~400	3N~400	3N~400	3N~400	3N~400
Operating Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Operating Current [3]	A	2,6/1,5	3,8/2,2	3,6/2,1	4,4/2,6	6,2/3,6
Fuse Protection, On Site	A	10	10	10	10	10
Duty Types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP Protection Class	IP	54	54	54	54	54
Temperature Range [4]	°C	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)
Working Noise Level	dB (A)	< 70	< 70	< 70	< 70	< 70
Application						
	mm	Maximum Suspend Weight In kg				
Roller Door Shaft / Winding Tube Tube EN 10220 [mm] [A]	101,6	167	258	322	322	515
	108,0	159	245	307	307	491
	114,3	152	234	293	293	468
	133,0	134	206	258	258	413
	159,0	115	177	222	222	355
	177,8	--	161	201	201	322
	193,7	--	--	186	186	298
	219,1	--	--	--	167	267

		RD-85-400-10	RD-85-600-15	RD-110-800-15	RD-110-800-10	RD-110-1200-8	RD-110-1500-7	RD-110-1800-7
Mechanical Properties								
Output Torque	Nm	400	600	800	800	1200	1500	1800
Output Speed	rpm	10	15	15	10	8	7	7
Output Shaft [1]	mm	40	40	55	55	55	55	55
Max. Cycles Per Hour [2]	h	9	9	9	7	6	5	5
Limit Switch Range	rev	20	20	20	20	20	20	20
Max. output speed OPEN / CLOSE for frequency inverter operation	rpm	18 / 15	26 / 15	26 / 26	18 / 18	20 / 20	18 / 18	18 / 18
Electrical Properties								
Motor Power	kW	0,75	1,10	1,50	1,10	1,50	1,10	1,50
Operating Voltage	V	3N~400	3N~400	3N~400	3N~400	3N~400	3N~400	3N~400
Operating Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Operating Current [3]	A	5,1/3,0	5,6/3,3	7,7/4,5	5,6/3,3	7,7/4,5	5,6/3,3	7,7/4,5
Fuse Protection, On Site	A	10	10	10	10	10	10	10
Duty Types	ED	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60	S3-%60
IP Protection Class	IP	54	54	54	54	54	54	54
Temperature Range [4]	°C	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)	–20 +40 (+60)
Working Noise Level	dB (A)	< 70	< 70	< 70	< 70	< 70	< 70	< 70
Application								
	mm	Maximum Suspend Weight In kg						
Roller Door Shaft / Winding Tube Tube EN 10220 [mm] [A]	108,0	491	--	--	--	--	--	--
	114,3	468	703	--	--	--	--	--
	133,0	413	619	826	826	1239	--	--
	159,0	355	532	709	709	1064	1330	--
	177,8	322	483	643	643	965	1206	1448
	193,7	298	447	597	597	895	1119	1342
	219,1	267	401	535	535	802	1002	1203
	244,5	--	363	484	484	726	908	1089
	273,0	--	328	438	438	657	821	985
	298,5	--	--	403	403	605	756	908

A safety brake antifall mechanism (parachute) which prevents free fall of the door just in case gear broken are built in gearbox.

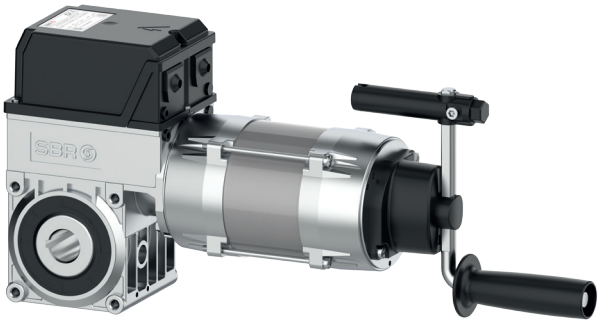
1- Output shafts Ø25,0-Ø25,4-Ø30,0-Ø31,75-Ø40,0 mm etc. can be made upon request.
2- One cycle corresponds to two door movements (opening and closing). The specified values represent 10 revolutions of the drive shaft per movement and an even distribution is assumed. For other limit speed ranges or for heavily used doors, drag forces must be reduced. A motor with cooler and higher duty cycle should be selected. (Please ask)
3- Max. current in door drives can reach up to 4 times the rated operating current for limited times.
4- Allowable temperature -20°C..+40°C (+60°C). When using the +40°C..+60°C temperature range, half of the maximum movements per hour should be used.

↘ If frequency inverter drives are used, increasing the driving speed by 10% will cause a 5% decrease in drive torque.This should be considered when choosing a driver.
↘ In gearmotors powered at a frequency of 60Hz (and at the same voltage), multipliers are used for some performance figures: Output torque: 0.83 , and rotations in output: 1.2

A - Selection Of Suitable Drivers For Roller Shutters
To select the optimum drive solution, you will need the diameter of the winding shaft in mm and the suspended weight of the door in kg.
With the help of these parameters, the appropriate roller shutter drive can be determined easily and reliably using this table.
All indicated weights take into account a safety reserve of 20 % and a slat thickness of 25 mm.
In some cases, the friction may be greater and this condition should be taken into account when calculating.
For double-walled, thick or deep-section insulated lamellas, reduce the weight in the table by 20%. The highest load normally occurs after 1-2 rotations of the shutter.
Their extra friction and possible diameter changes due to over-winding, must be taken into account when calculating these values.

Special solutions can be offered upon request. Please contact us for requests in different speeds and powers.

RD-50 WITH MK



INCLUDED

Torque Bracket

Crank

ACCESSORIES

Control Unit

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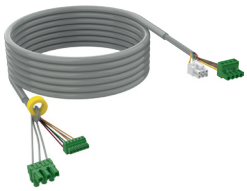

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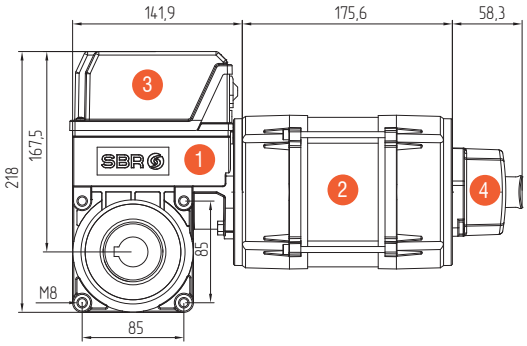
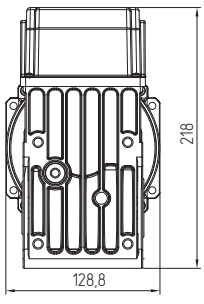
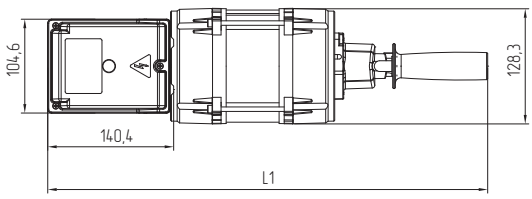
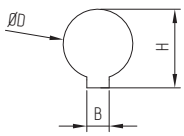
DIMENSION DRAWING





1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK

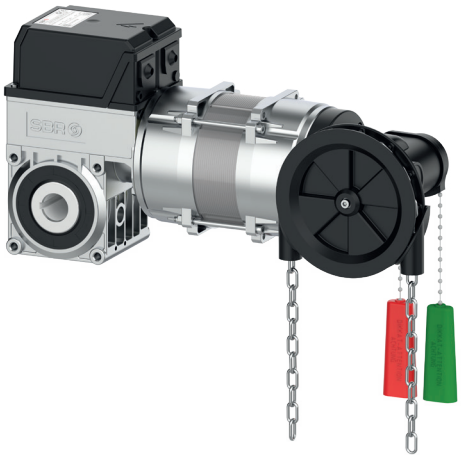




RD SERIES	L1
RD-50-130-15	363

ØD	H	B
D25.0	28,3	8,00
D25.4	28,4	6,35
D30.0	33,3	8,00

RD-50 WITH C2



INCLUDED

Torque Bracket

Pull Pope

ACCESSORIES

Control Unit

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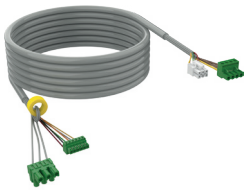

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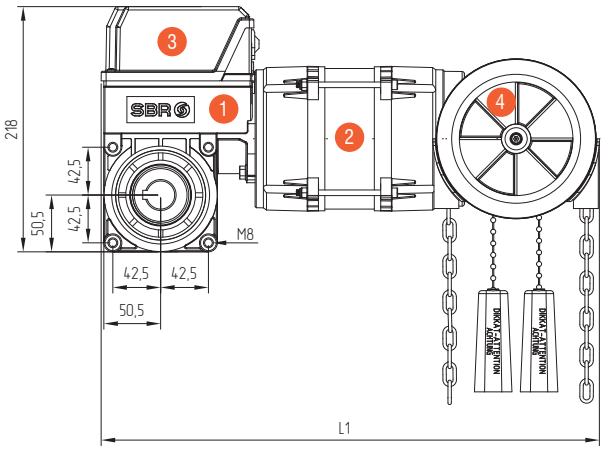
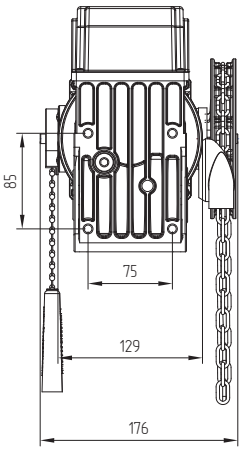
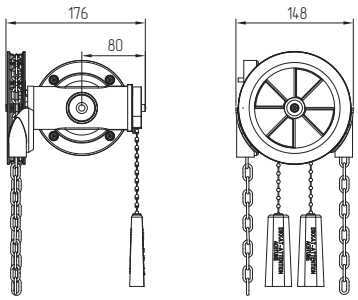
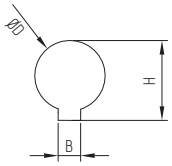
DIMENSION DRAWING







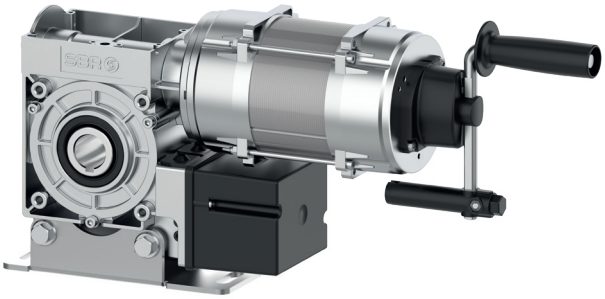


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank C2

RD SERIES	L1
RD-50-130-15	443

ØD	H	B
D25.0	28,3	8,00
D25.4	28,4	6,35
D30.0	33,3	8,00

RD-63 WITH MK



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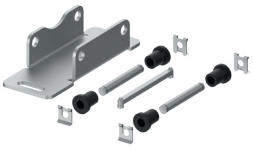

Torque Bracket

Crank

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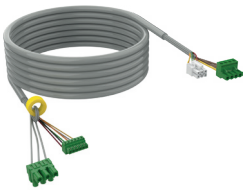

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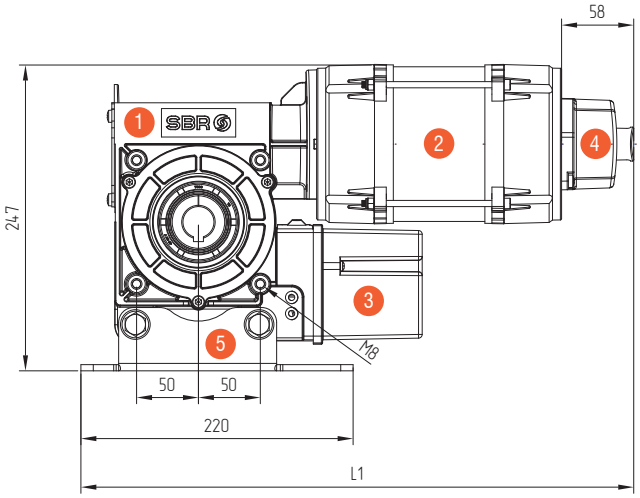
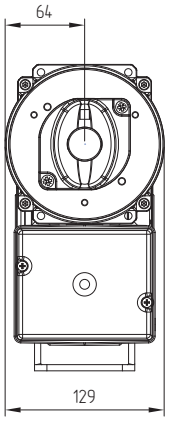
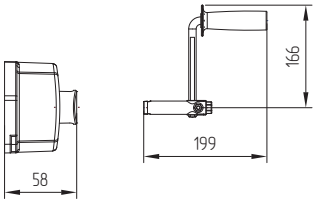
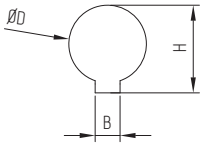
DIMENSION DRAWING





1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK
5	Floating Foot

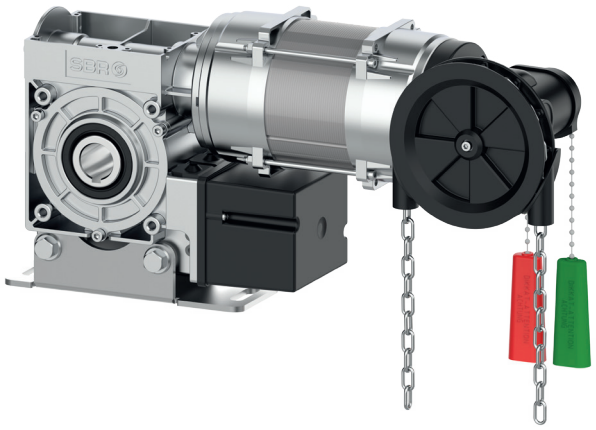




RD SERIES	L1
RD-63-200-012	447

ØD	H	B
D30.0	33,3	8,00

RD-63 WITH C2



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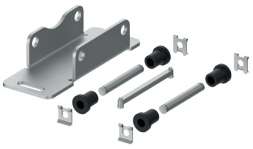

Torque Bracket

Pull Pope

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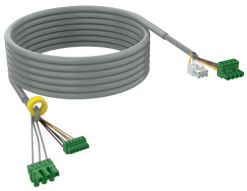

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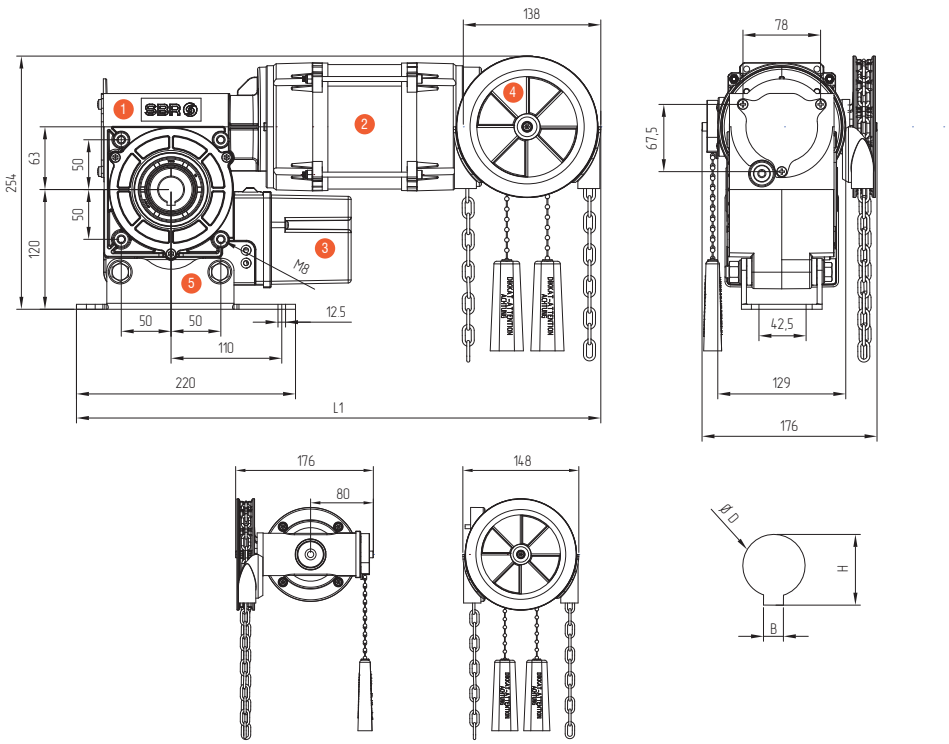
DIMENSION DRAWING

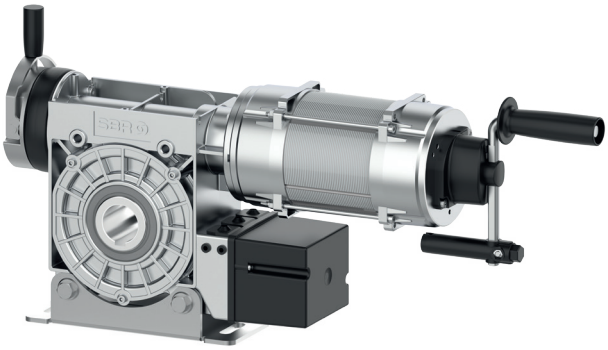


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank C2
5	Floating Foot

RD SERIES	L1
RD-63-200-012	527

ØD	H	B
D30.0	33,3	8,00

RD-85 WITH MK



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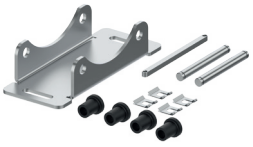

Torque Bracket

Crank

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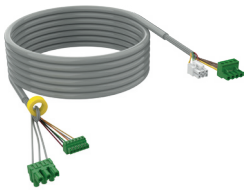

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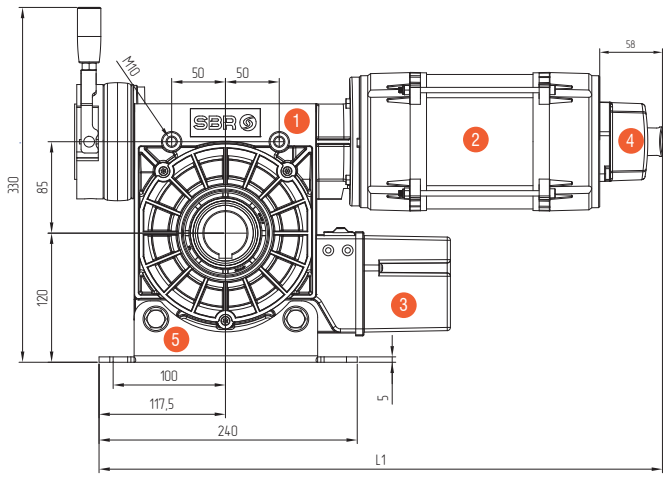
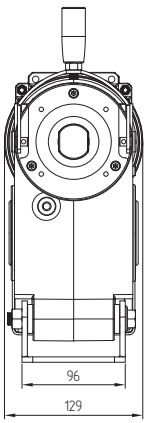
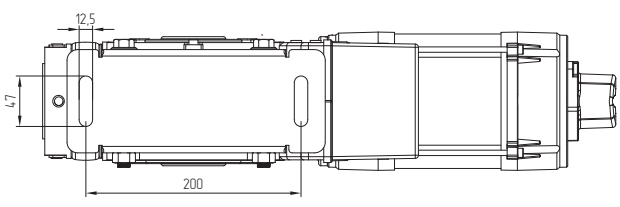
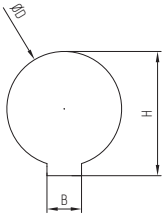
DIMENSION DRAWING







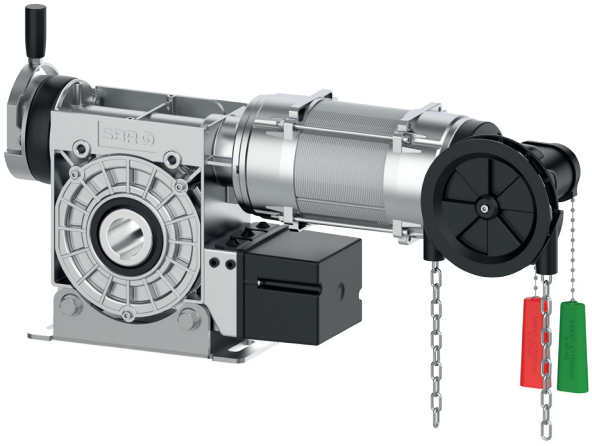


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK
5	Floating Foot

RD SERIES	L1
RD-85-250-010	499
RD-85-250-015	479
RD-85-400-015	499
RD-85-400-10	524

ØD	H	B
D30.0	33,3	8,00
D40.0	43,3	12,00

RD-85 WITH C2



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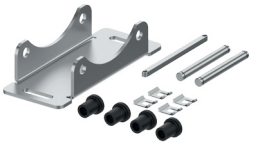

Torque Bracket

Pull Pope

ACCESSORIES

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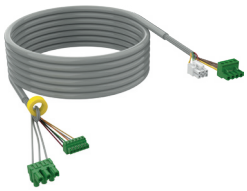

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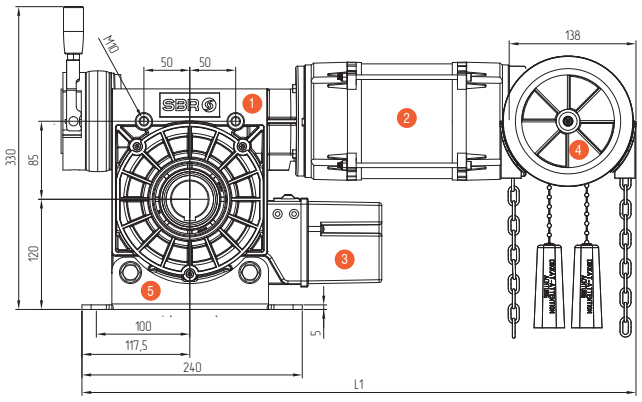
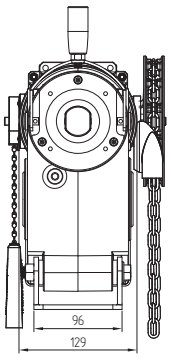
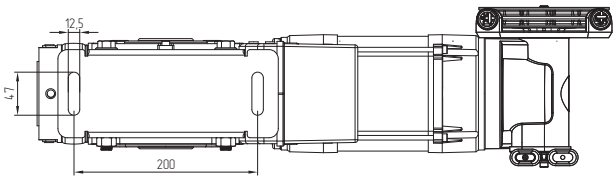
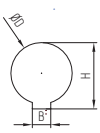
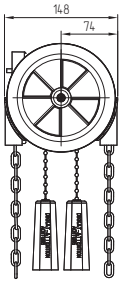
DIMENSION DRAWING









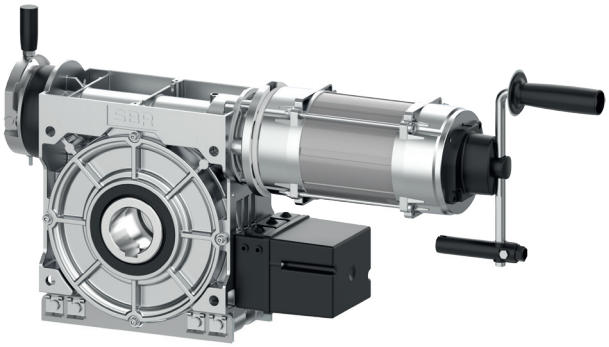


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank C2
5	Floating Foot

RD SERIES	L1
RD-85-250-010	579
RD-85-250-015	559
RD-85-400-015	579
RD-85-400-10	604

ØD	H	B
D30.0	33,3	8,00
D40.0	43,3	12,00

RD-110 WITH MK



INCLUDED

Torque Bracket

Crank

ACCESSORIES

Control Unit

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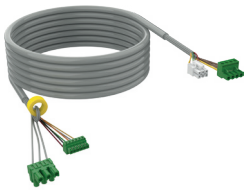

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Opto-Sensor

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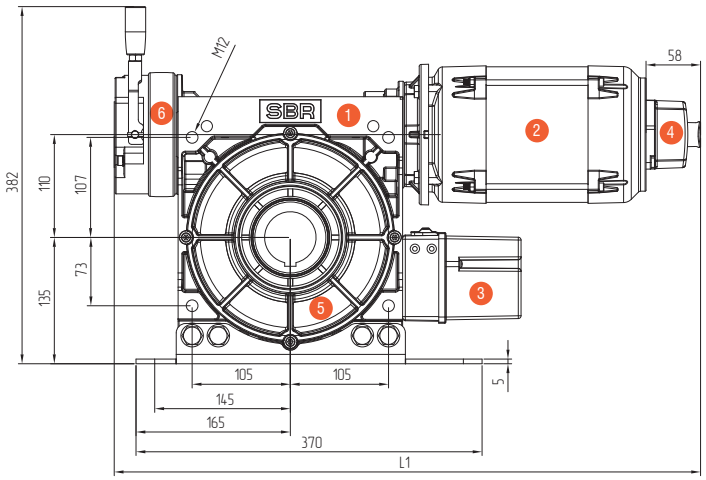
DIMENSION DRAWING

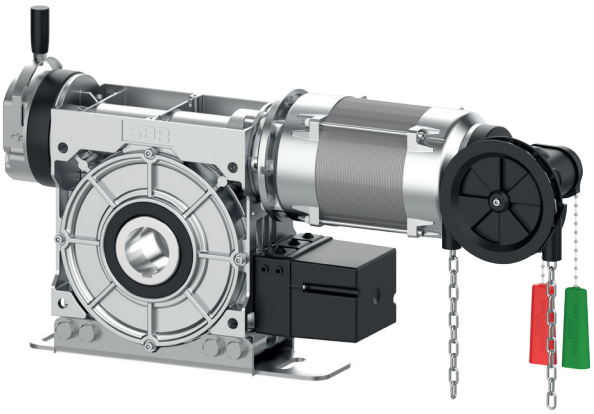


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK
5	Floating Foot
6	Brake

RD SERIES	L1
RD-110-800-15	695
RD-110-800-10	685

ØD	H	B
D55.0	64,4	16,00

RD-110 WITH C3



INCLUDED

Torque Bracket

Pull Pope

ACCESSORIES

Control Unit

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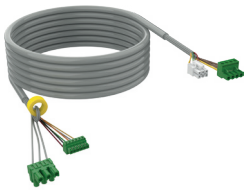

EL-ML Special Cable

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Opto-Sensor

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Chain

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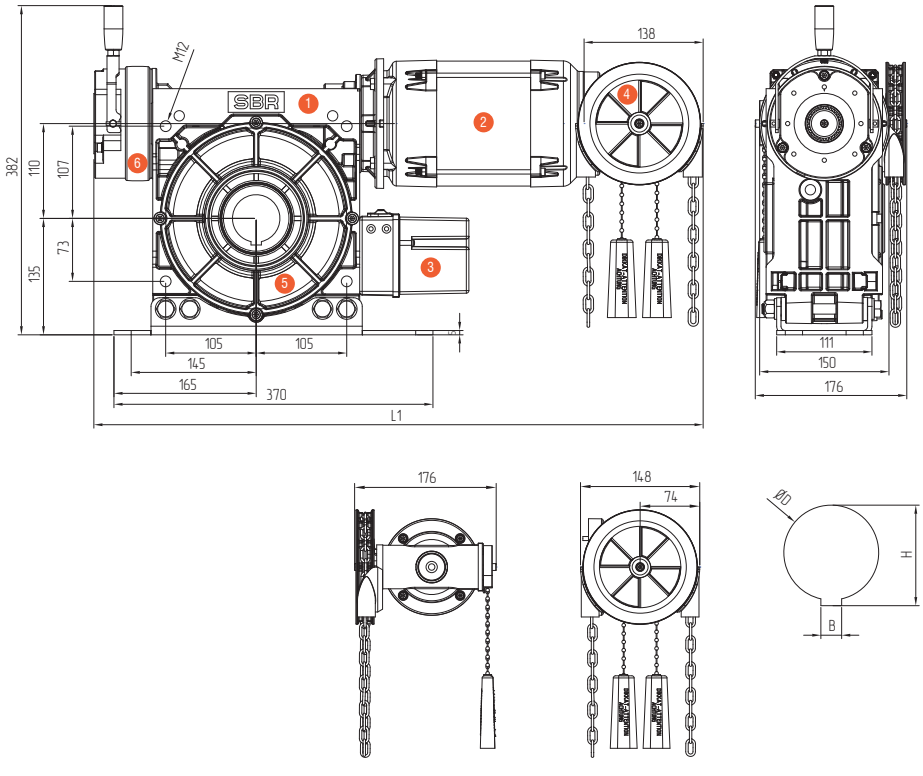
DIMENSION DRAWING

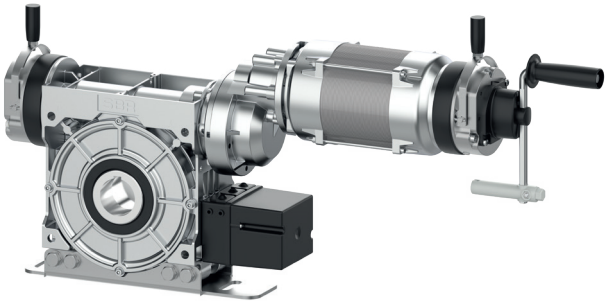


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank C2
5	Floating Foot
6	Brake

RD SERIES	L1
RD-110-800-15	775
RD-110-800-10	765

ØD	H	B
D55.0	64,4	16,00

RD-110 WITH MK



INCLUDED

Torque Bracket

Crank

ACCESSORIES

Control Unit

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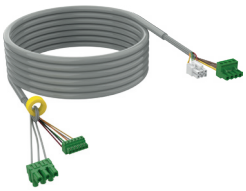

EL-ML Special Cable

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Opto-Sensor

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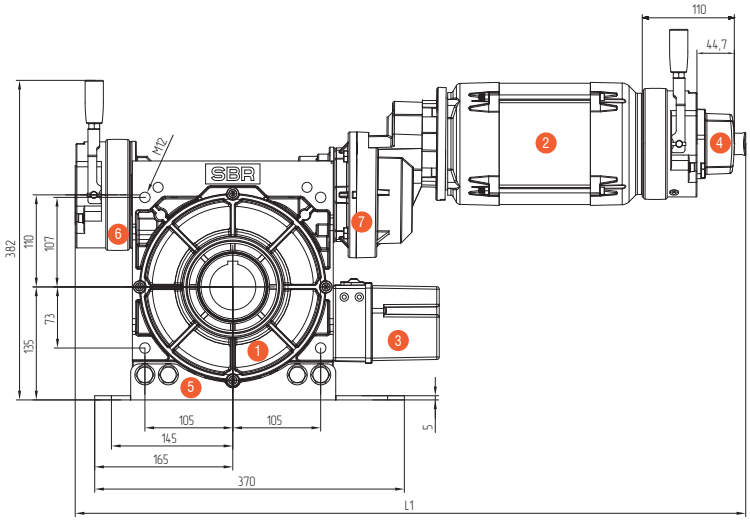
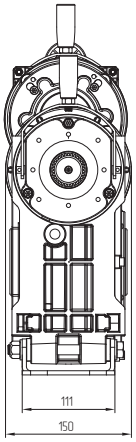
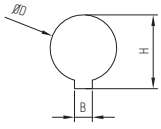
DIMENSION DRAWING





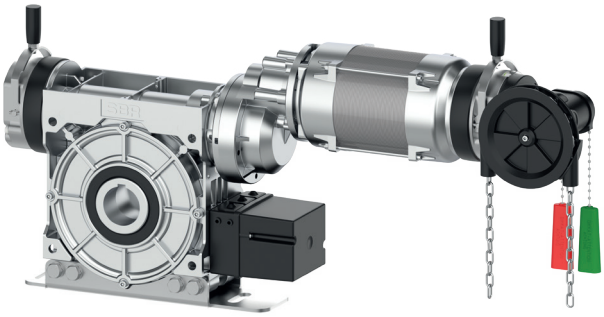


1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK
5	Floating Foot
6	Brake
7	Intermediate Gear

RD SERIES	L1
RD-110-1200-8	880
RD-110-1500-7	870
RD-110-1800-7	880

ØD	H	B
D55.0	64,4	16,00

RD-110 WITH C3



INCLUDED

Torque Bracket

Pull Pope

ACCESSORIES

Control Unit

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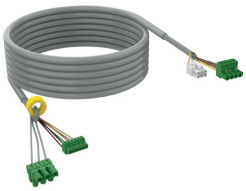

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Opto-Sensor

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Chain

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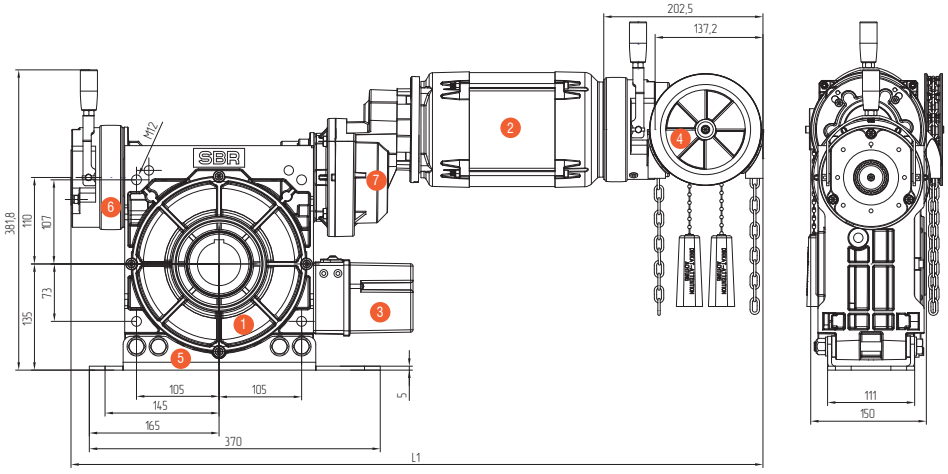
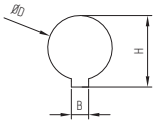
DIMENSION DRAWING





1	Gearbox
2	Motor
3	Limit Switch
4	Hand Crank MK
5	Floating Foot
6	Brake
7	Intermediate Gear

RD SERIES	L1
RD-110-1200-8	880
RD-110-1500-7	870
RD-110-1800-7	880

ØD	H	B
D55.0	64,4	16,00