

Spring Reels

SR



CONDUCTIX
wampfler

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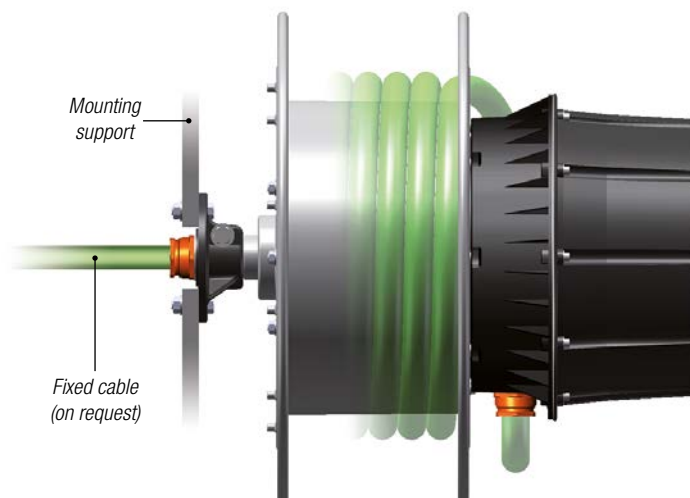


General Information

Application Area

SR Spring Reels are used for the automatic storage of power and control cables or hoses for a wide range of mobile industrial equipment: overhead cranes, mobile tables, telescopic booms and ladders, grapples, elevators, lifts and so on.

Most of these machines move in a straight line, horizontally or vertically, and are generally guided by rails.



SR Spring Reels

A wide range of reels with versatile accessories for many varied applications:

- Indoor and outdoor use, in a neutral industrial environment ¹⁾.
- Ambient temperature from -40 up to +60°C (de-rating of the slip rings above +30°C, below -20°C low temperature lubrication is used and a heating strip is added in the slipping housing).
- Wound element OD up to 42 mm.
- Travel speeds up to 60 m/min and accelerations up to 0.3 m/s² according to the type of application ¹⁾.

¹⁾ Consult us for other conditions.

Features

- Protection degree IP65 (cable reel).
- High degree of corrosion protection.
- Simple and easy installation and set-up.
- Long service life, easy and reduced maintenance.
- Secure spring replacement with patented spring cassette system (SR40 up to SR60).
- Wide range of cables and hoses specifically designed for reeling applications.

- Complete range of accessories and options: reel brackets, cable guides and cable anchoring devices.
- On request, spring reels can be supplied with cable pre-wired to slip ring.
- Slip rings dedicated to communication and data transmission up to 1 Gbps (consult us).

Applicable Standards

SR Spring reels are designed and built in accordance with:

- Machinery directive 2006/42/CE
- Low voltage directive 2006/95/CE (for cable reels)

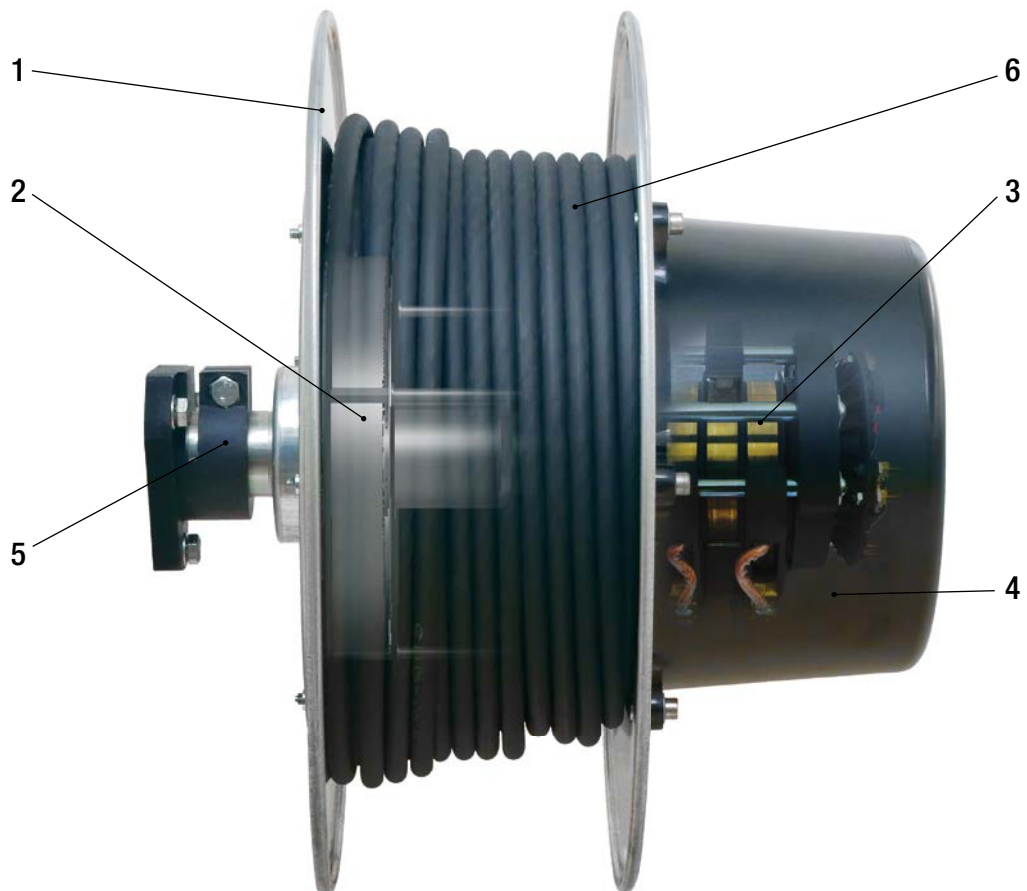
SR Spring reels are intended to be integrated into the design of a machine. A declaration of incorporation is attached to the installation instruction manual supplied with the reel.

Spring Reel Design

Modular Design

SR Spring reels consists of the following components:

- 1 - Drum
- 2 - Spring motor
- 3 - Slip rings (cable reels)
Rotary joint (hose reels)
- 4 - Slip ring housing (cable reels)
- 5 - Mounting flange
- 6 - Wound element: cable or hose



Model Designation

SR40 2PA 4GD090 AB04 E0
SR30 2SA 3/8" BPO BR K E0

Type of cable drum ————
 No. of springs and spring arrangement ————
 Slip ring type and no. of poles or size and type of rotary joint ————
 Environment ¹⁾
 Options

¹⁾ E0 : neutral industrial environment
 E1 : severe environment

Spring Reel Design

Drums

- SR10 | SR20 | SR30: PA6-GF drum body, galvanized steel flanges.
- SR40 | SR50 | SR60: drum body and flanges made of zinc plated steel.
- Winding diameter ranging from 170 to 500 mm.
- Design of the flange edge optimizes wound element arrangement during winding and ensures safety for the user.
- Lubricated for life, sealed ball bearings.



Safety Springs

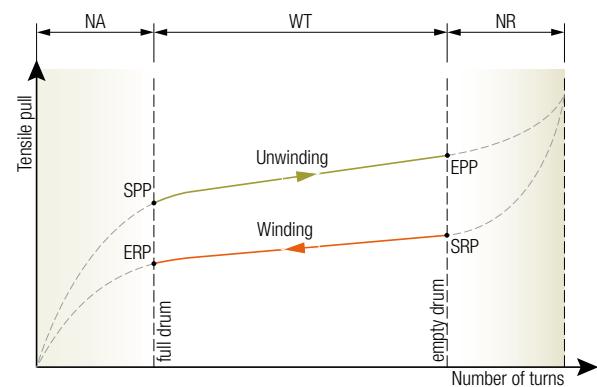
Technical Details

- The spring motor is located inside the drum:
 - SR10 | SR20 | SR30: spring drum assembly
 - SR40 | SR50 | SR60: spring individually encapsulated in a cassette for a safe and easy manipulation (replacement or reversal of winding direction).
- Springs made of high-performance textured steel to ensure a long service life: **100 000 spring moves**
- Arrangement of the springs in series or parallel within the drum.
- Springs lubricated with a corrosion resistant grease.



Spring Diagram

With coil springs, the tensile pull on the wound element varies depending on the unwound length and whether the reel is in the winding or unwinding mode.



- NA: number of pre-turns (pre-load of the springs)
- WT: number of working turns
- NR: number of reserve turns
- SPP: tensile pull at start of payout (unwinding mode)
- EPP: tensile pull at end of payout (unwinding mode)
- SRP: tensile pull at start of retraction (winding mode)
- ERP : tensile pull at end of retraction (winding mode)

When calculating tensile pull, it is necessary to consider the diameter and the number of wound element turns. According to these parameters, the amount of tensile pull exerted by the spring motor will vary.

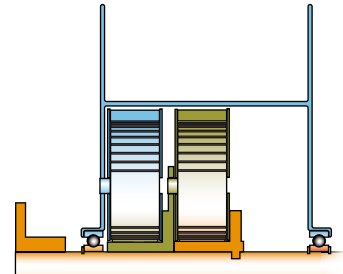
Spring Reel Design

Spring Motors

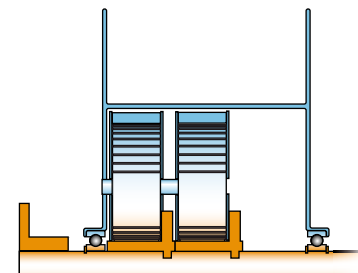
Drum type	Spring motor type	No. of springs	Arrangement	No. of pre-turns NA	No. of working turns	Tensile pull [kg]	
						Min.	Max.
SR10	1SA	1	-	2	15	2.6	5.8
	2PA	2	Parallel	2	15	5.1	11.1
	2SA	2	Series	4	30	2.4	5.5
	1SL	1	-	2	25	1.3	3.7
SR20	1SA	1	-	2	20	2.1	4.6
	2SA	2	Series	4	40	2.1	4.6
	2PA	2	Parallel	2	20	3.9	8.8
	1SR	1	-	2	14	3.3	7.6
	2SR	2	Series	4	29	3.1	7.6
	2PR	2	Parallel	2	14	6.8	16.2
SR30	1SA	1	-	2	20	1.7	7.7
	2SA	2	Series	4	40	1.9	7.6
	3SA	3	Series	6	60	2.5	7.8
	2PA	2	Parallel	2	20	5.5	16.0
	3PA	3	Parallel	2	20	8.0	23.0
	1SR	1	-	2	17	3.5	12.1
	2SR	2	Series	4	34	3.0	11.1
	3SR	3	Series	6	51	4.0	11.2
	2PR	2	Parallel	2	17	7.0	22.2
	3PR	3	Parallel	2	17	10.2	35.3
SR40	1SA	1	-	2	25	3.5	12.2
	2SA	2	Series	4	50	2.0	11.2
	3SA	3	Series	6	75	3.3	11.2
	2PA	2	Parallel	2	25	4.0	24.2
	3PA	3	Parallel	2	25	7.0	37.2
SR50	1SA	1	-	2	24	3.0	15.2
	2SA	2	Series	4	49	2.7	15.2
	3SA	3	Series	6	73	3.2	14.2
	4SA	4	Series	8	98	3.5	14.1
	2PA	2	Parallel	2	24	6.0	29.5
	3PA	3	Parallel	2	24	13.5	46.0
	4PA	4	Parallel	2	24	11.5	60.5
	4SPA	4	Series/Parallel	4	48	7.1	30.1
SR60	1SA	1	-	2	26	3.0	16.0
	2SA	2	Series	4	52	3.1	17.1
	3SA	3	Series	6	78	2.9	16.2
	4SA	4	Series	8	104	3.5	17.1
	2PA	2	Parallel	2	26	4.5	32.5
	3PA	3	Parallel	2	25	11.2	49.5
	4PA	4	Parallel	2	25	12.0	71.0
	4SPA	4	Series/Parallel	4	52	6.2	34.2

¹⁾ A: standard spring | R: reinforced spring | L: longer spring

Spring motor arrangements



A motor with two identical springs in series allows twice the number of working turns.



A motor with two identical springs in parallel generates twice the tensile pull.

Deflection devices

When a deflecting device is used (roller box, deflection pulley, cable guide), it is necessary to increase the value of the required spring motor torque.

Maximum permissible cable tension

In accordance to VDE 0298 (Part 3) a continuous tension of 15 N/mm² on the cable is permissible for moving equipment based upon the total copper cross-section of the cable.

Depending on the type of cable this value could be higher. Supplier should be consulted.

Cable screens, concentric conductors, divided conductors, additional control cores and/or supervising cores must be taken into consideration.

Spring Reel Design

Slip Ring Assemblies

- Optimal accessibility of connection terminals.
- Ambient operating temperature from -20 up to +60°C (de-rating beyond +30°C).

- ABS-PC, impact-resistant slip ring cover equipped with captive screws and with a breather to prevent condensation (steel housing optional).

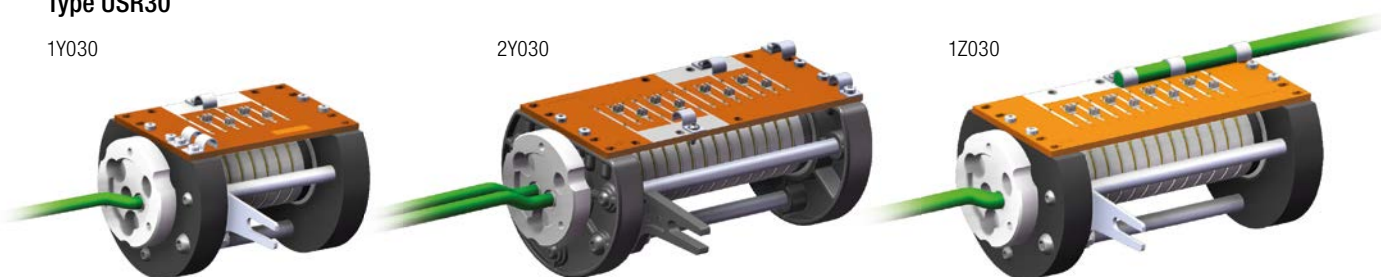
- Combinations of different types of rings of the same diameter are possible.
- Slip rings dedicated to Ethernet data transmission up to 1 Gbps type USR30 can be added on USR50 and USR90 slirings.

Type USR30

1Y030

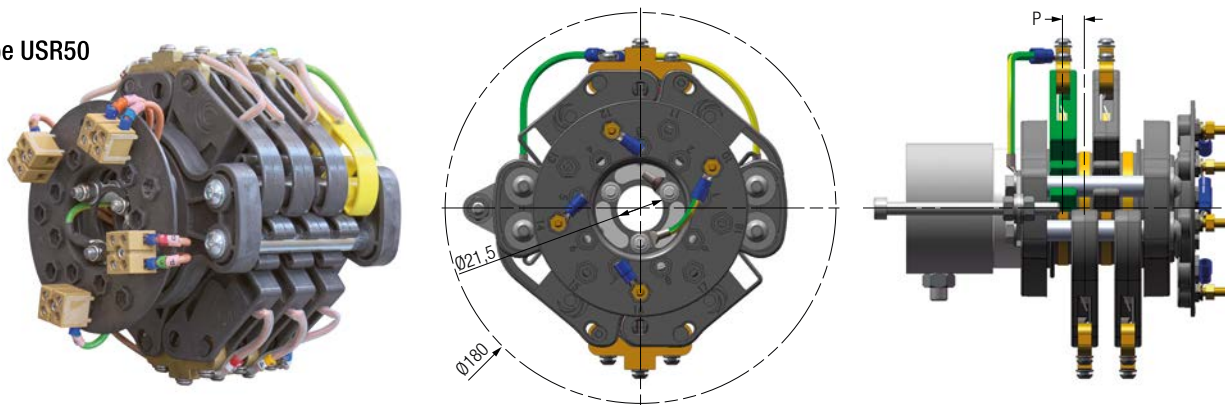
2Y030

1Z030



Type	Protocol compatibility	Rotation speed [rpm]	Data Transmission speed	Material	
				Brush	Ring
1Y030	Ethernet, Profinet and high bandwidth industrial bus	max. 100	100 Mbps / 100 MHz	Gold wires	Gold-plated brass
2Y030					
1Z030			1000 Mbps / 250 MHz		

Type USR50



Type	Nom. Amp ¹⁾ [A]	Operating voltage ²⁾ Max. [V]	Rotation speed [rpm]	Rings		
				Diameter [mm]	Pitch 'P' [mm]	Material
U050	4-20 mA	690 AC / 600 DC	max. 140	52	9	silver-plated brass
W050	<12 Mbps					gold-plated brass
A050	11				brass	
B050	25					
D050	50					
E050	95					

¹⁾ Slip rings in motion (rotation), @ +30°C and duty cycle 100%.

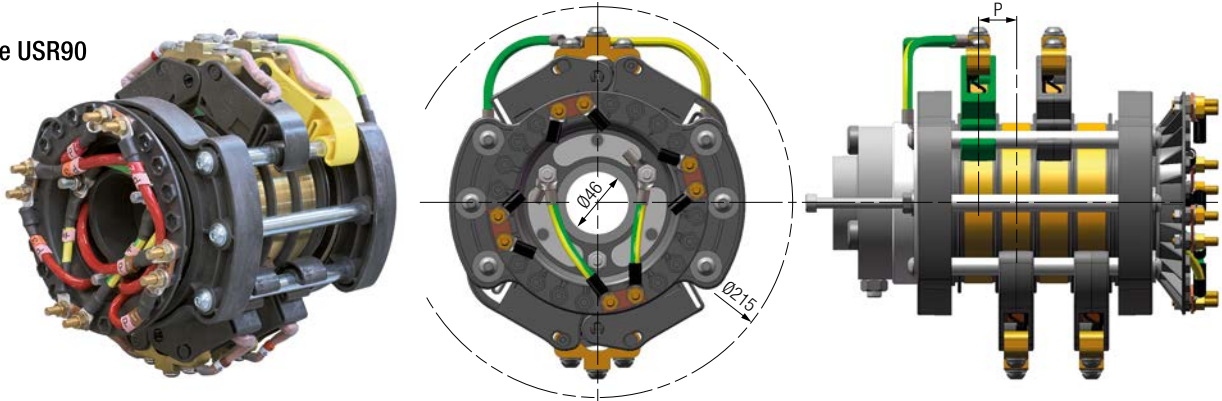
²⁾ Altitude < 2000 m



Spring Reel Design

Slip Ring Assemblies

Type USR90



Type	Nom. Amp ¹⁾ [A]	Max. operating voltage ²⁾ [V]	Rotation speed [rpm]	Rings		Material
				Diameter [mm]	Pitch 'P' [mm]	
U090	4-20 mA	690 AC / 600 DC	Max. 80	90	9	silver-plated brass
W090	<12 Mbps					gold-plated brass
A090	13				brass	
B090	23					
D090	50					
E090	85					
F090	130				27	

¹⁾ Slip rings in motion (rotation), @ +30°C and duty cycle 100%.

²⁾ Altitude < 2000 m

Spring Reel Design

Rotary Joints

Three types of rotary joints can be used depending on the application:

- **BP** and **BPO** for fluid pressure up to 20 bar.
- **HPO** for fluid pressure above 20 bar (Please contact us).



Low-pressure rotary joint	Material	Max pressure [bar]	Junction	Ambient temperature range [°C]	Service	Medium
3/8" BP & BPO	Bronze + zinc plated steel	20	Male plug fitted to the hose size	-20 / +200	Normal	Air, inert gas & water
3/4" BP & BPO						
1" BPO	316L stainless steel	300		-20 / +180	Severe	

for water : min T > 0°C

High-pressure rotary joint	Material	Max pressure [bar]	Junction	Ambient temperature range [°C]	Service	Medium
1/4" HPO	316L stainless steel	400	G 1/4" BSPP female	-20 / +200	Severe	Air, inert gas, water & hydraulic oil
3/8" HPO			G 3/8" BSPP female			
1/2" HPO			G 1/2" BSPP female			
3/4" HPO		G 3/4" BSPP female	-20 / +180			
1" HPO		G 1" BSPP female				

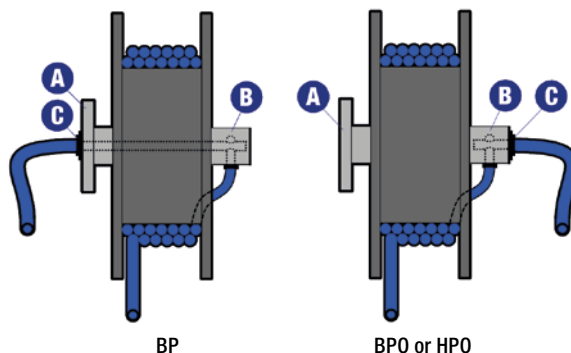
for water : min T > 0°C

BP: Low pressure, with fixed feeding placed on side of the flange

BPO: Low pressure, with fixed feeding placed on Opposite side of the flange

HPO: High pressure with fixed feeding placed on Opposite side of the flange

High pressure joints and hoses need to be checked regarding application and are available only from our Application Engineering team.



A: Fixed mounting flange
B: Rotary joint
C: Fixed feeding input side

Spring Reel Design

Mounting Flanges

Spring reels are supplied equipped with a mounting flange designed for an easy, quick and safe installation. Mounting flanges are also designed to accommodate all optional brackets.

Adapter flanges (option)

Adapter flanges are supplied separately. They are designed for the installation of the spring reel SR in place of a spring reel from a different range without modification of the existing support.



Cables and Hoses

Conductix-Wampfler offers a wide range of cables and hoses specifically designed for reeling applications:

- Small outer diameter
- Small bending radius

- High resistance to mechanical stress (tension, deflection, twisting)

Standard reeling cables and hoses are available from stock and can be supplied immediately.

On request, spring reels can be supplied with a fixed cable or hose tail connected to the slip rings in the factory.

Cable type	Outer sheath	Voltage Uo/U	Max. tension force [N/mm ²]	Ambient temperature range [°C]	Service
C800	PVC	0.6/1 kV	15	-10 up to +60°C	Normal
GPM GPM-RF	PUR		12 20	-25 up to +60°C	Normal / intensive
RG (NSHTOEU-J)	Rubber		20	-25 up to +80°C	Normal
RXP (12YHRDT11YH)	PUR		25	-40 up to +80°C	Intensive
RXG (NSHTOEU-J)	Rubber		30	-35 up to +80°C	Severe
TRA TRA-RF	PUR		25 30	-25 up to +60°C	Intensive / severe

Low-pressure hoses	Material	Max pressure [bar]	Ambient temperature range [°C]	Service	Medium
Maxair 7×13	Rubber	15	-40°C up to +70°C	Normal	Air, inert gas & water
Maxair 9×16					
Maxair 10×17					
Maxair 13×21					
Maxair 16×26					
Maxair 19×29					
Maxair 25×35	Rubber	20	-30°C up to +70°C	Severe	
Flexo2 19×30					
Flexo2 25×37					

for water : min T > 0°C

Overall length of the wound element

Drum type	ΔL [m]	
	Cable	Hose
SR10	2	1
SR20	2	1.5
SR30	3	1.5
SR40	4	2
SR50	4	2
SR60	5	2.5

- Overall length of wound element = working cable / hose length (travel length) + ΔL

- ΔL = one safety turn on the drum (never unwound) + cable / hose length required for slip ring / rotary joint connection.

Spring Reel Design

Options

- **SE, BR or SP:** brackets, roller guide arms and swivel brackets.
- **AB:** adapter flanges (see 'Mounting Flange')
- **CM:** steel slip ring housings (and steel connecting boxes, according to model).
- **ELT:** Adaptation for use at low temperatures (from -40°C up to +40°C) including suitable lubrication of the springs and bearings, and a heating strip in the slip ring housing
- **K:** ratchet option for manual operation of the SR as an extension. Ratchet made of stainless steel. Only available with **BR** and **SP** options



Accessories

- Cable grips and spring impact absorbers
- Deflection pulleys and roller boxes

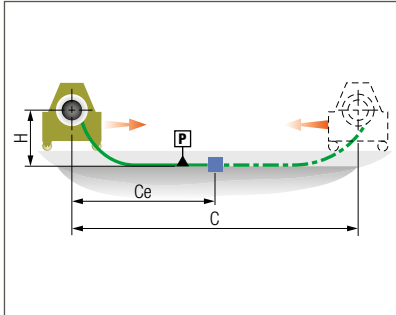
Consult us for:

- Cable guides, anchor drums and cable entries
- Two and four contacts end limit switches
- Heating strip inside the slip ring housing required in humid conditions and/or where ambient temperatures vary widely
- High pressure applications

Reeling Applications

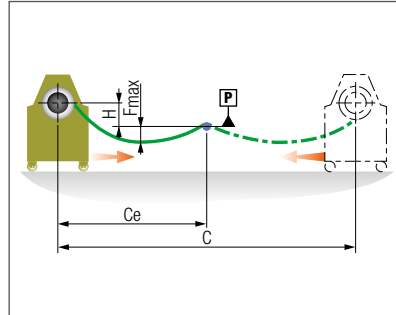
Types of Application

1 - Retrieve



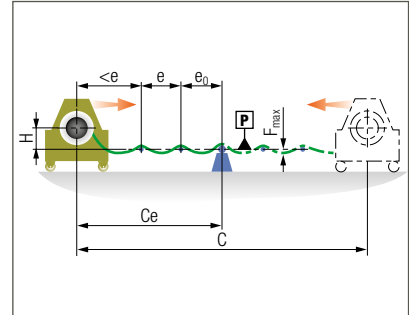
- Reel mounted on the machine
- Cable/hose laying on the ground

2 - Stretch



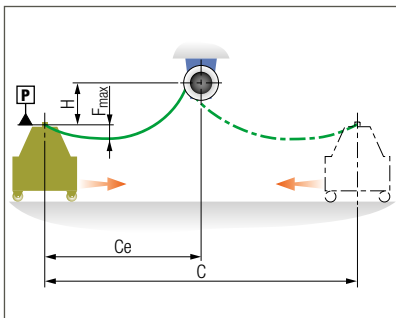
- Reel mounted on the machine
- Cable/hose not supported
- For short runs only
- Cable sag F_{max} less than 10% of Ce
- Extra length of cable/hose required (approx. 10% of Ce) to compensate for cable sag F_{max}

3 - Supported Stretch



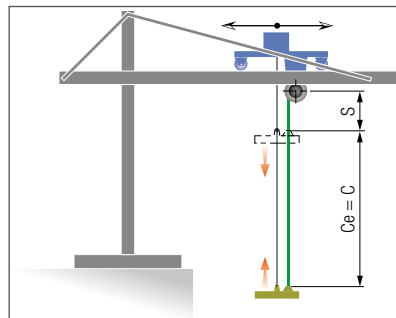
- Reel mounted on the machine
- Cable/hose supported (e.g. by rollers)
- Extra length of cable/hose required (approx. 10% of Ce) to compensate for cable sag F_{max}

4 - Stretch



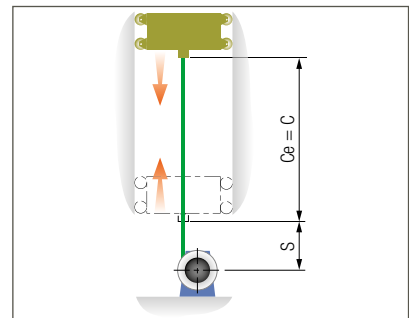
- Reel mounted stationary
- Cable/hose not supported
- For short runs only
- Cable sag F_{max} less than 10% of Ce
- Extra length of cable/hose required (approx. 10% of Ce) to compensate for cable sag F_{max}

5 - Lift



- Reel mounted stationary
- Reel located at the top

6 - Vertical Retrieve



- Reel mounted stationary
- Reel located at the bottom

P: position that wound element lays on the ground

C: active travel length

Ce: travel length to be considered to calculate the reel

H: height of reel axis above P

F_{max} : max. allowable wound element sag

e_0 : distance of the first support

e : distance between two adjacent supports

S: length of permanently paid out wound element

Rules and Recommendations

Winding Direction



Unless otherwise specified when ordering, SR reels are built according to the Winding Direction 1 (viewed from the slip ring side) and the roller guide arm is oriented as per Pos. 1.1 (options BR/SP).

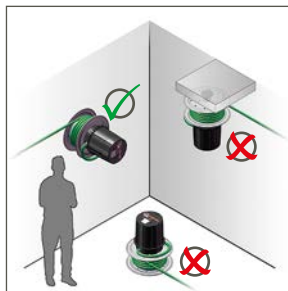


Orientation

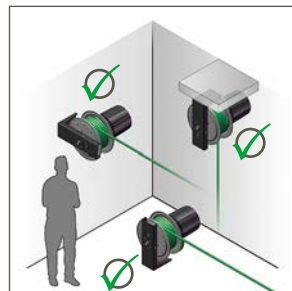
The rotation axis of the spring reel must be horizontal.

The rotation axis of the optional swivel bracket SP must be vertical.

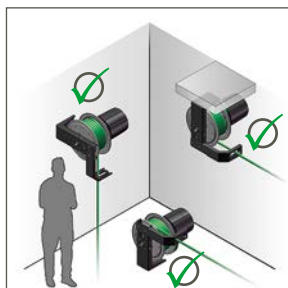
Reel with mounting flange



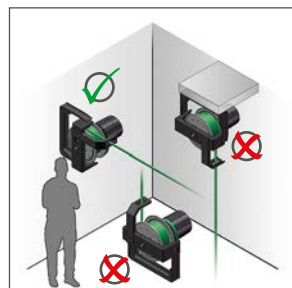
Reel with option SE



Reel with option BR



Reel with option SP



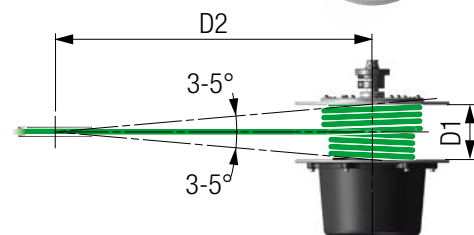
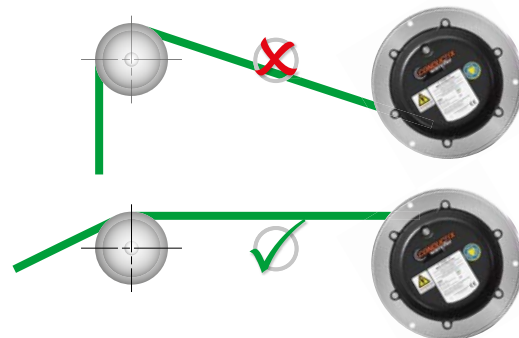
Pre-tension Set-up



The spring reels not equipped with a roller guide arm are delivered without pre-tension set-up. In this case, prior to use, the spring motor must be pre-tensioned with the appropriate number of turns **NA** and direction as indicated on the drum flange.

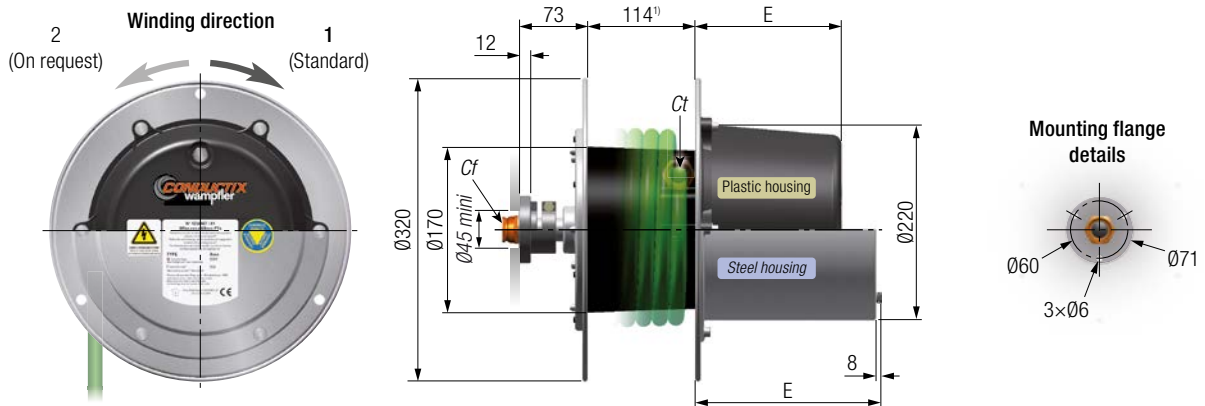
Deflection Pulley Arrangement

Recommendations for proper roller guide or sheave roller location.



D1 [mm]	D2 [mm]	
	3°	5°
115	1100	650
130	1240	750
180	1700	1050
200	1900	1150
250	2400	1450
260	2500	1500

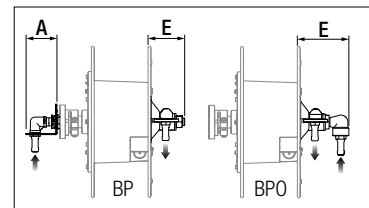
SR10 | Dimensional Details



Ct min./max.: Ø8/Ø17 mm Cf min./max.: Ø8/Ø17 mm ¹⁾ Useful width: 120 mm Max. winding dia.: Ø270 mm Weight²⁾: 6.5 up to 8.5 kg

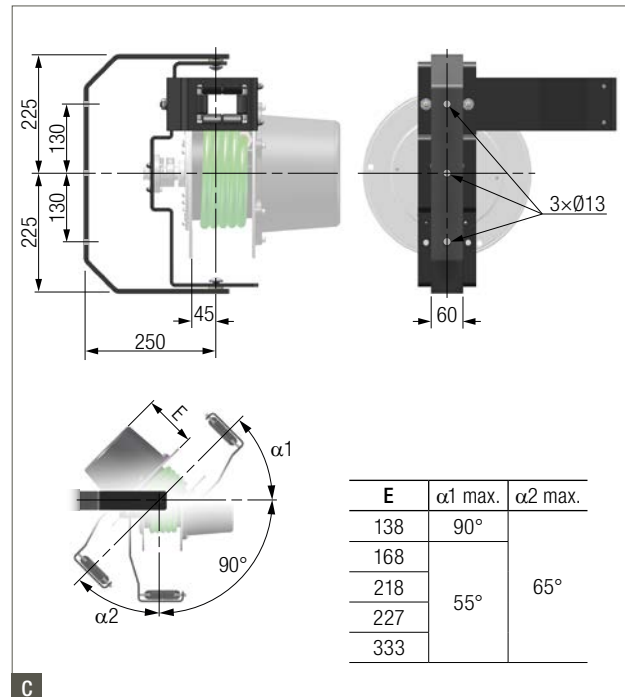
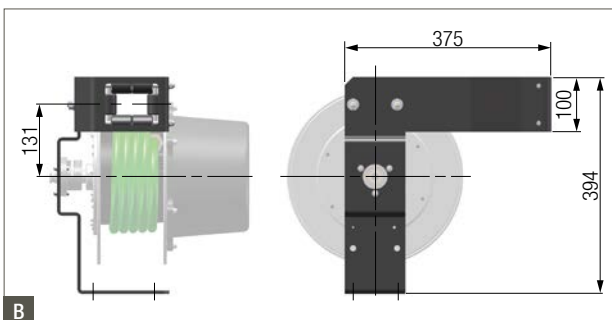
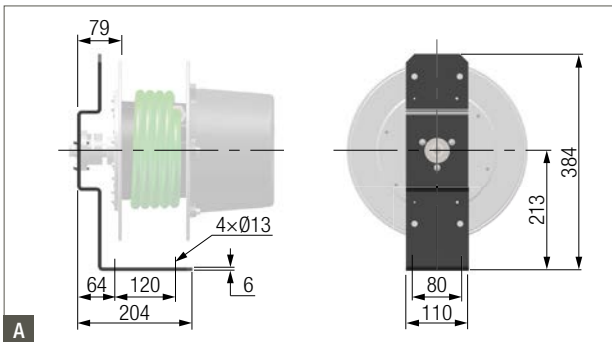
Slip rings	I [A]	Max. number of poles (PE incl.) of the same type depending on E				
		Plastic housing			Steel housing	
Type		E = 138 mm	E = 168 mm	E = 218 mm	E = 227 mm	E = 333 mm
U050 / W050	mA	5	7	13	13	22
A050	11	5	7	13	13	22
B050	25	5	7	12	12	20
D050	50	2	5	8	8	8
E050	92	2	3	4	4	4

Rotary joints	A [mm]	E [mm]
3/8" BP	65	74
3/8" BPO	-	82
3/4" BPO	-	138



²⁾ Wound element excluded and according to slip ring type/rotary joint type.

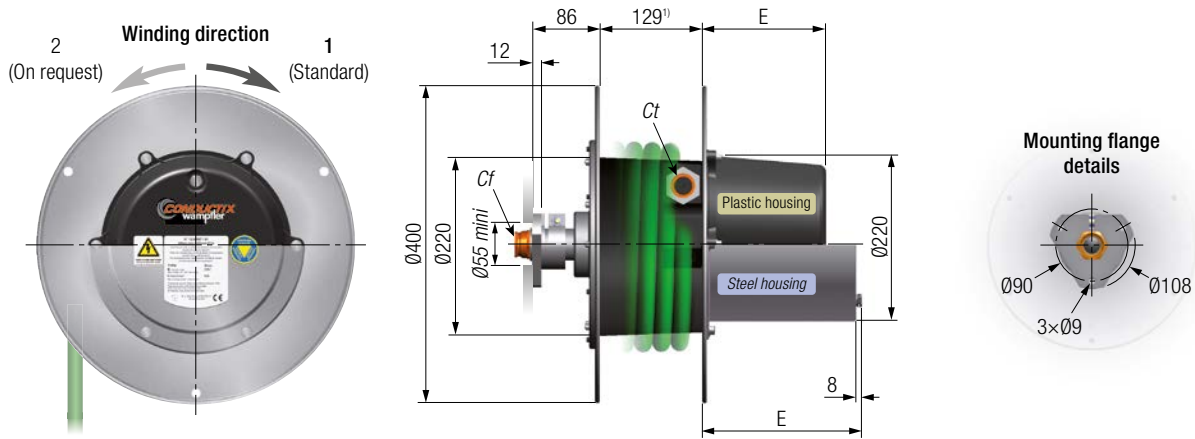
Options



Model	Dimensions as fig.	Weight [kg]
Bracket SE for SR10	A	3.0
Bracket and roller guide arm BR for SR10	A+B	5.5
Swivel bracket SP for SR10	A+B+C	10.0

See p.23

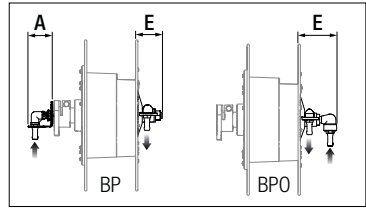
SR20 | Dimensional Details



Ct min./max.: 08/22 mm Ct min./max.: 08/022 mm ¹⁾ Useful width: 135 mm Max. winding dia.: 0340 mm Weight²⁾: 8.5 up to 13 kg

Slip rings	Type	I [A]	Max. number of poles (PE incl.) of the same type depending on E				
			Plastic housing			Steel housing	
			E = 138 mm	E = 168 mm	E = 218 mm	E = 227 mm	E = 333 mm
U050 / W050	mA		5	7	13	13	22
A050	11		5	7	13	13	22
B050	25		5	7	12	12	20
D050	50		3	5	8	8	8
E050	92		2	3	4	4	4

Rotary joints	A [mm]	E [mm]
3/8" BP	63	67
3/8" BPO	-	102
3/4" BPO	-	131



²⁾ Wound element excluded and according to slip ring type/rotary joint type.

Options

A

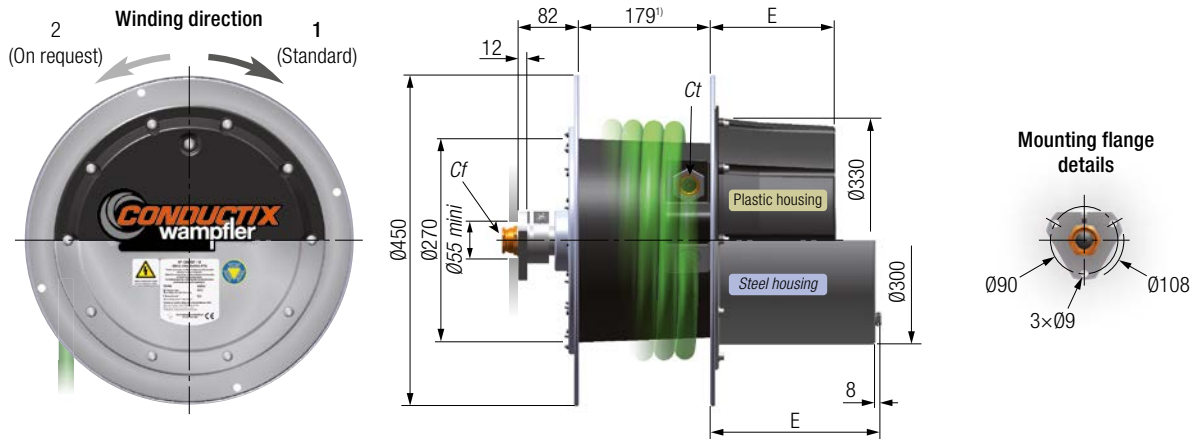
B

C

E	α1 max.	α2 max.
138	90°	65°
168		
218		
227	60°	
333		

Model	Dimensions as fig.	Weight [kg]
Bracket SE for SR20	A	5.0
Bracket and roller guide arm BR for SR20	A+B	8.0
Swivel bracket SP for SR20	A+B+C	15.0
Adapter flange	See p.23	

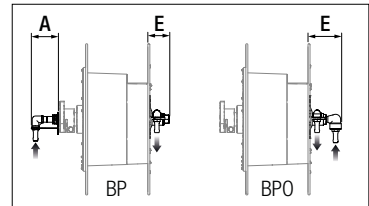
SR30 | Dimensional Details



Ct min./max.: 08/028 mm Cf min./max.: 08/028 mm ¹⁾ Useful width: 185 mm Max. winding dia.: 0400 mm Weight²⁾: 14 up to 23 kg

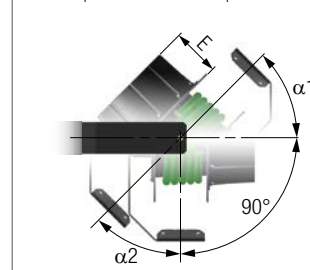
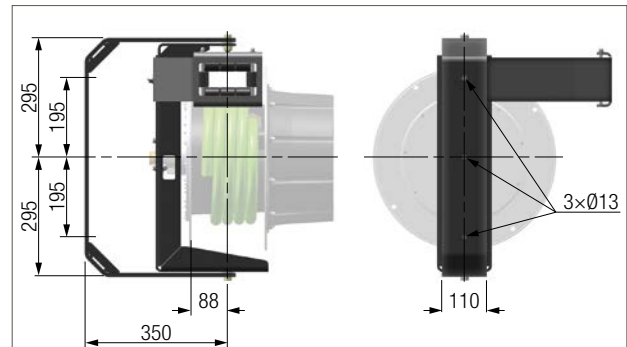
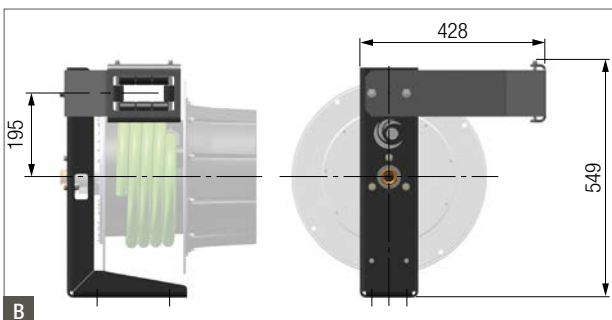
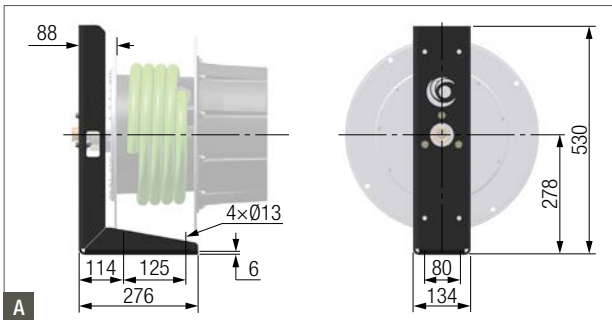
Slip rings	Type	I [A]	Max. number of poles (PE incl.) of the same type depending on E					
			Plastic housing			Steel housing		
			E=168 mm	E=218 mm	E=322 mm	E=230 mm	E=336 mm	E=471 mm
U050 / W050	mA		8	13	22	13	22	32
A050	11		8	13	22	13	22	32
B050	25		7	12	20	12	20	22
D050	50		5	8	8	8	8	8
E050	92		3	4	4	4	4	4
U090 / W090	mA		7	12	24	12	24	38
A090	13		7	12	24	12	24	38
B090	23		6	11	21	11	21	34
D090	50		4	7	14	7	14	23
E090	85		3	6	10	5	10	15
F090	130		2	4	8	4	8	8

Rotary joints	A [mm]	E [mm]
3/8" BP	80	64
3/8" BPO	-	99
3/4" BP	87	84
3/4" BPO	-	129



²⁾ Wound element excluded and according to slip ring type/rotary joint type.

Options

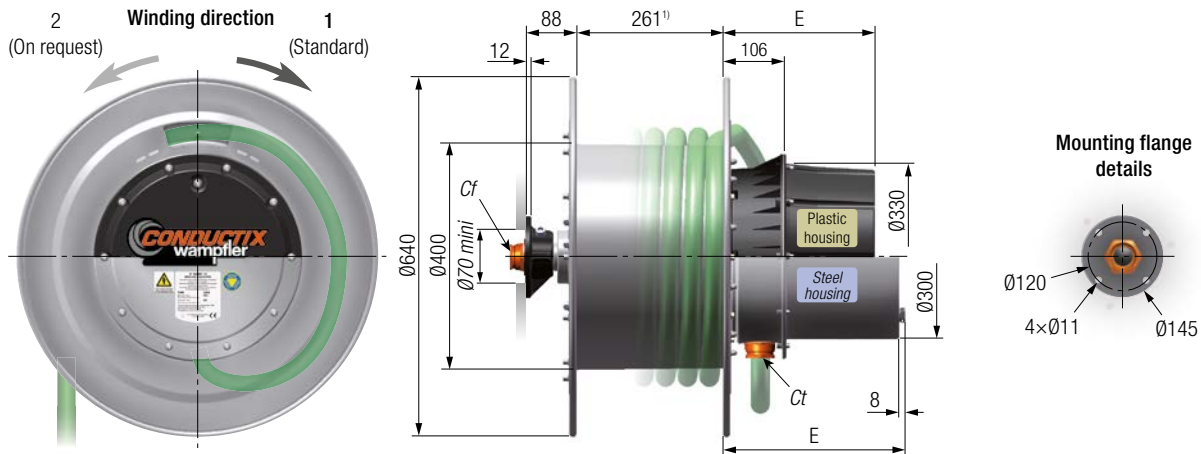


E	α1 max.	α2 max.
168	90°	55°
218	50°	
230		
322		
336		
471		

Model	Dimensions as fig.	Weight [kg]
Bracket SE for SR30	A	8.0
Bracket and roller guide arm BR for SR30	A+B	11.5
Swivel bracket SP for SR30	A+B+C	24.5
Adapter flange		

See p.23

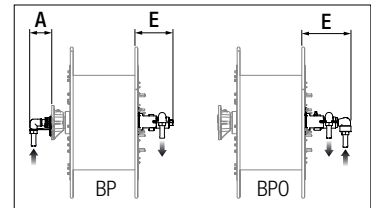
SR50 | Dimensional Details



Ct min./max.: 08/036 mm Cf min./max.: 08/032 mm ¹⁾ Useful width: 267 mm Max. winding dia.: 0557 mm Weight ²⁾: 42 up to 90 kg

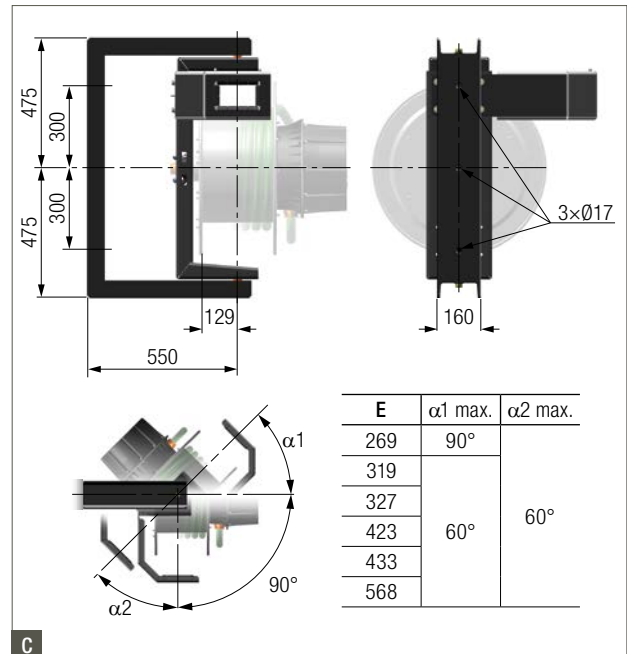
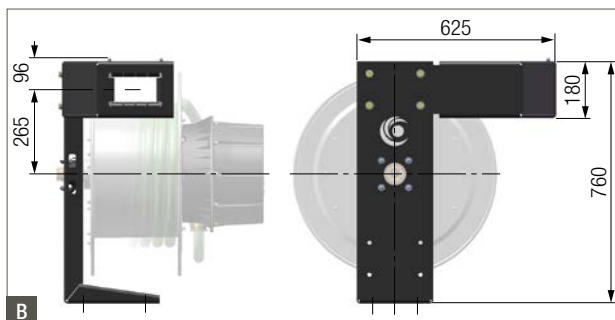
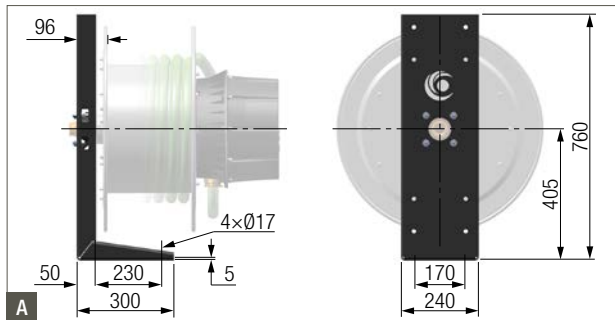
Slip rings	Type	I [A]	Max. number of poles (PE incl.) of the same type depending on E					
			Plastic housing			Steel housing		
			E = 269 mm	E = 319 mm	E = 423 mm	E = 327 mm	E = 433 mm	E = 568 mm
U050 / W050	mA		10	15	24	15	24	32
A050		11	10	15	24	15	24	32
B050		25	9	14	22	14	22	22
D050		50	6	8	8	8	8	8
E050		92	4	4	4	4	4	4
U090 / W090	mA		9	14	26	14	26	40
A090		13	9	14	26	14	26	40
B090		23	8	13	23	13	23	36
D090		50	5	8	15	8	16	24
E090		85	4	6	10	6	11	15
F090		130	3	4	8	4	8	8

Rotary joints	A [mm]	E [mm]
3/4" BP	65	163
3/4" BPO	-	211
1" BPO	-	196



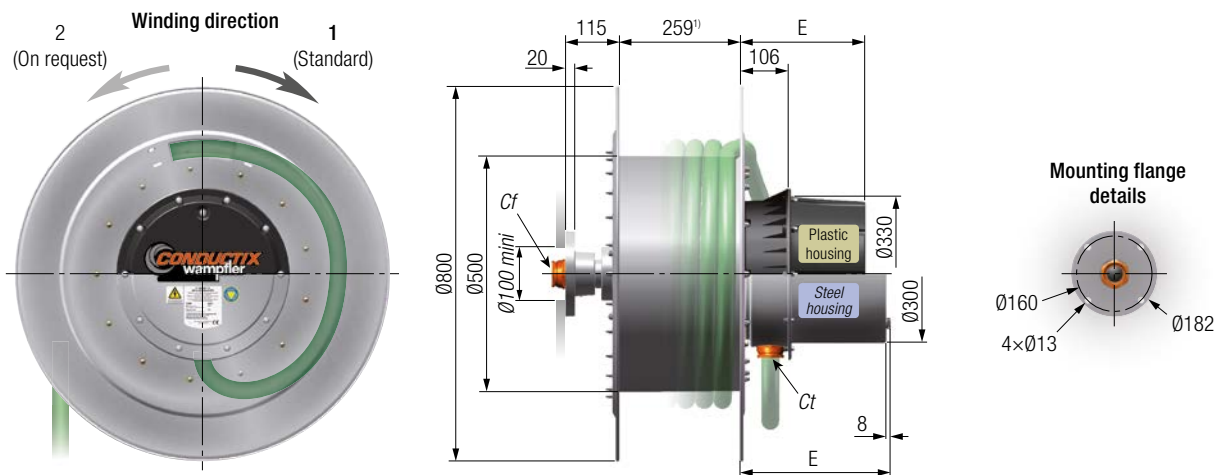
²⁾ Wound element excluded and according to slip ring type/rotary joint type.

Options



Model	Dimensions as fig.	Weight [kg]
Bracket SE for SR50	A	14.5
Bracket and roller guide arm BR for SR50	A+B	23.0
Swivel bracket SP for SR50	A+B+C	72.0
Adapter flange	See p.23	

SR60 | Dimensional Details



Ct min./max.: Ø8/Ø42mm

Cf min./max.: Ø8/Ø38mm

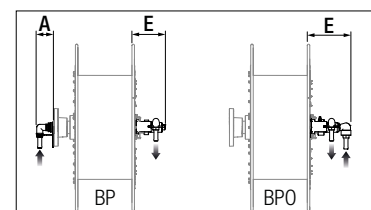
¹⁾ Useful width: 266 mm

Max. winding dia.: Ø687 mm

Weight²⁾: 59 up to 122 kg

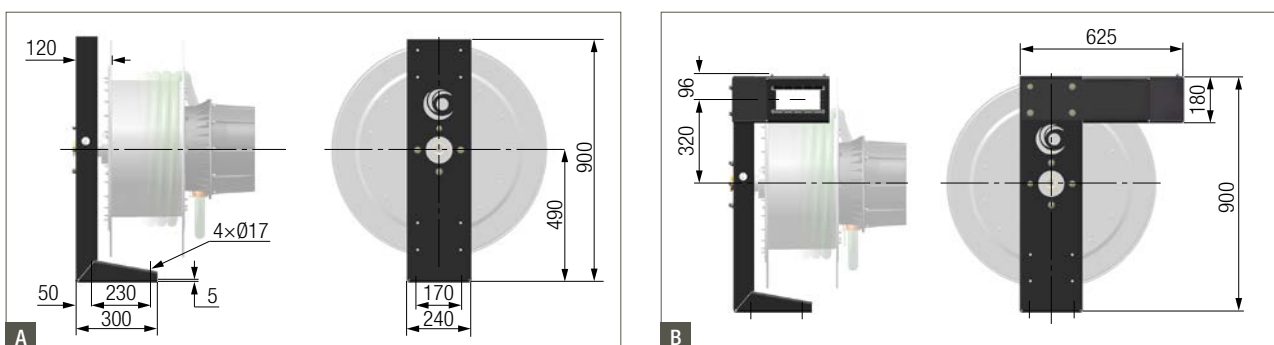
Slip rings		Max. number of poles (PE incl.) of the same type depending on E					
		Plastic housing			Steel housing		
Type	I [A]	E = 269 mm	E = 319 mm	E = 423 mm	E = 327 mm	E = 433 mm	E = 568 mm
U050 / W050	mA	10	15	24	15	24	32
A050	11	10	15	24	15	24	32
B050	25	9	14	22	14	22	22
D050	50	6	8	8	8	8	8
E050	92	4	4	4	4	4	4
U090 / W090	mA	9	14	26	14	26	40
A090	13	9	14	26	14	26	40
B090	23	8	13	23	13	24	36
D090	50	5	8	15	8	16	24
E090	85	4	6	10	6	11	15
F090	130	3	4	8	4	8	8

Rotary joints	A [mm]	E [mm]
3/4" BP	80	161
3/4" BPO	-	208
1" BPO	-	241



²⁾ Wound element excluded and according to slip ring type / rotary joint type.

Options



Model	Dimensions as fig.	Weight [kg]
Bracket SE for SR60	A	18.0
Bracket and roller guide arm BR for SR60	A+B	26.0
Adapter flange	See p.23	

Adapter Flanges

Selection of Option 'AB'

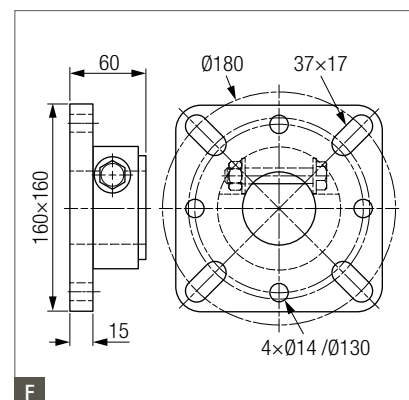
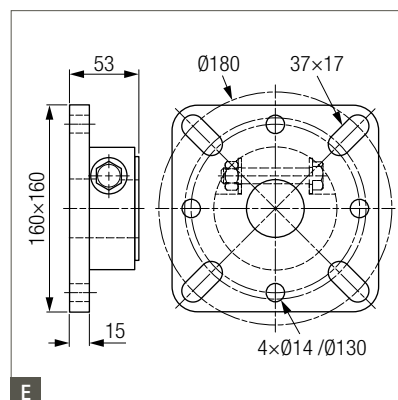
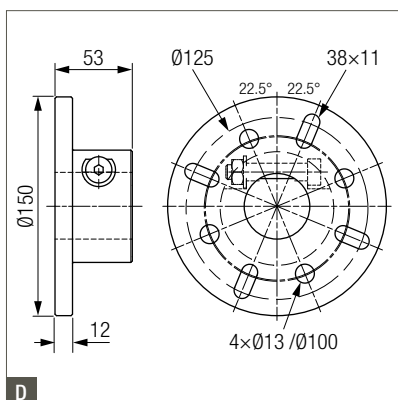
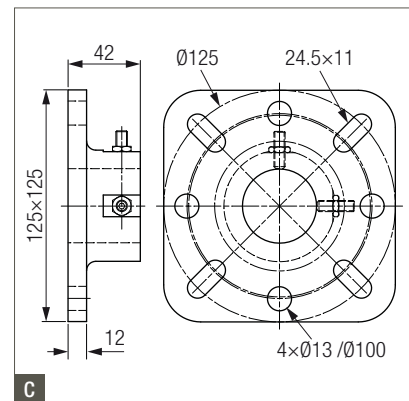
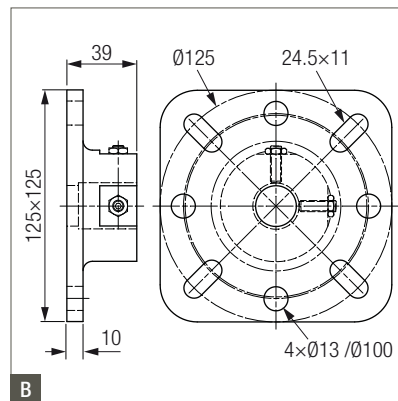
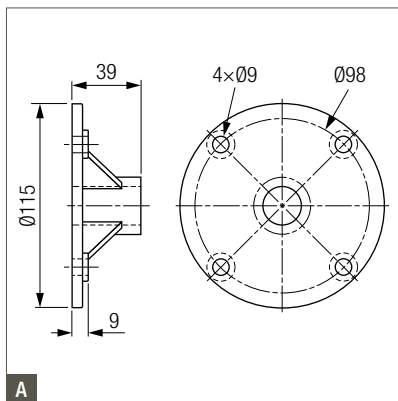
SR model...	... for replacement of a BEF model							Dims as per
	15...	18...	22...	26...	32...	40...	50...	
SR10	AB15							A
		AB18		AB26				B
SR20		AB18	AB22	AB26				C
SR30		AB18	AB22	AB26				C
SR40			AB22	AB26	AB32			D
						AB40	AB50	E
SR50						AB40	AB50	E
SR60						AB40	AB50	F

Example

Select option 'AB26' to replace a former Conductix-Wampfler's spring reel model BEF26 with a spring reel model SR20 without modification of the support.

SR model...	... for replacement of a SIRIO model							Dims as per
	0	1/A	2	3	4	5/A	6/A	
SR10	AB00							B
SR20		AB01	AB02	AB03	AB04			C
SR30		AB01	AB02	AB03	AB04			C
SR40						AB05	AB06	E
SR50						AB05	AB06	E
SR60						AB05	AB06	F

Adapter flange option is not required for the replacement of a former Conductix-Wampfler's EXEL spring reel with a SR spring reel.



Accessories

Cable Grips and Spring Impact Absorbers



Single-eye cable grip SB | Light duty applications

Model	Without lacing		With lacing	
	For cable OD	Type	Order No.	Order No.
5 up to 8 mm	SB5	3057558	-	-
8 up to 13 mm	SB8	3057560	SBLA8	3139643
13 up to 18 mm	SB13	3056836	SBLA13	3139644
18 up to 25 mm	SB18	3057564	SBLA18	3139645
25 up to 38 mm	SB25	3057566	SBLA25	3139646

Double-eye cable grip DB | Lift applications, standard duty

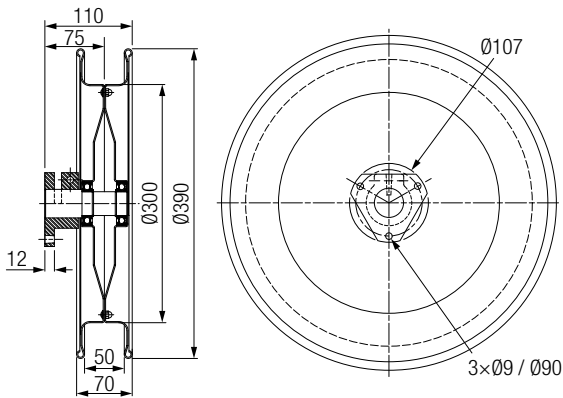
Model	Without lacing		With lacing	
	For cable OD	Type	Order No.	Order No.
8 up to 15 mm	DB8	3057556	DBLA8	3139633
15 up to 25 mm	DB15	3057598	DBLA15	3139634
25 up to 45 mm	DB25	3057600	DBLA25	3139635



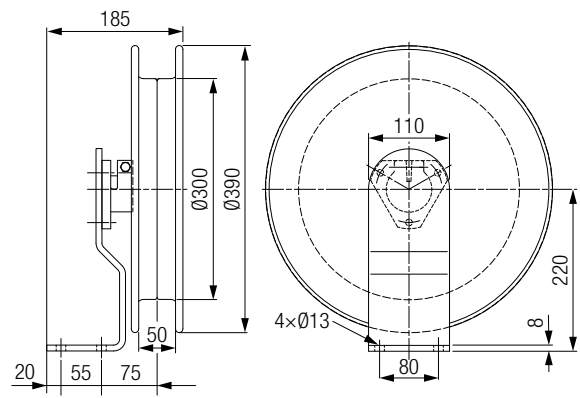
Spring impact absorber

Model	Cadmium plated steel	Stainless steel
	Order No.	Order No.
20 kg	3057690	3057691
40 kg	3057692	3057693
80 kg	3057175	3140790
150 kg	3057696	3140791

Deflection Pulleys

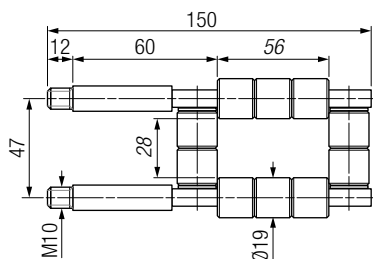


Model	Order No.	Cable OD
Deflection pulley Ø300/390 w/flange	3168550	Ø14 up to Ø25

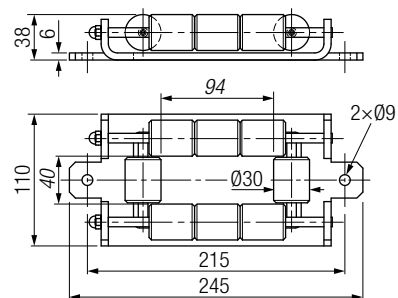


Model	Order No.	Cable OD
Deflection pulley Ø300/390 w/bracket	3056839	Ø14 up to Ø25

Roller Guides



Model	Order No.	Cable OD
Roller guide (to fit SR10 - SR20)	3059248	Ø23 max.



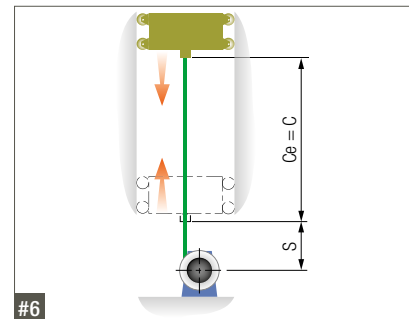
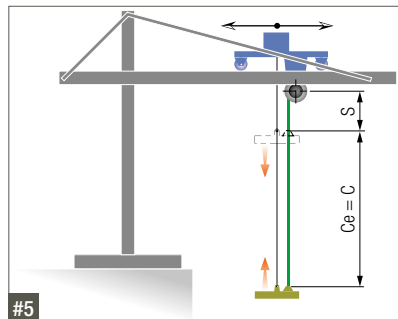
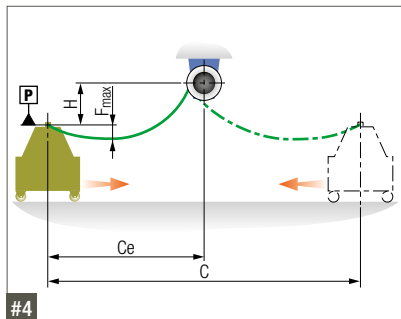
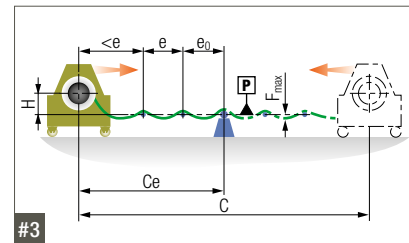
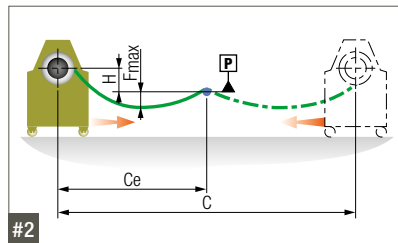
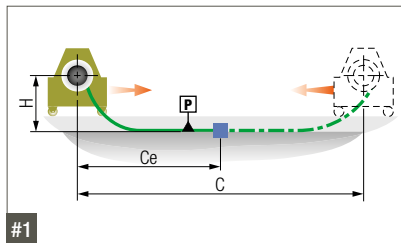
Model	Order No.	Cable OD
Roller guide (to fit SR30)	3139465	Ø28 max.

Enquiry Form

Operation Conditions

- Type of mobile machine:
- Max. travel speed: [m/min]
- Acceleration: [m/s²] or run-up time: [s]
- No. of travels/day:
- Operating hours/day:
- Ambient temperature: min..... [°C] max. [°C]
- Site: indoors outdoors Max. wind speed: [m/s]
- Environmental conditions: tropics salty explosive dusty humidity:..... [%]
- chemical (urea potash phosphate other:)
- offshore
- low temperature (below -15°C) Tmin:..... [°C]
- other :

Type of Application



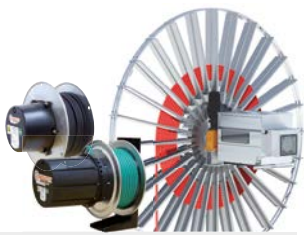
- Application as per fig. #
- Ce: winding length: [m]
- C: total travel length: [m]
- H: mounting height of the reel above 'P': [m]
- F_{max}: max. allowable cable sag: [m]
- e: distance between supports: [m]
- e₀: distance to the first support: [m]
- S: length of permanently paid-out cable: [m]

Electrical Data (Cable Reels)

- Operating voltage: [V] AC-3 Ph. / Hz AC-1 Ph. / Hz DC
- Power: [kW]
- Amperage: [A]
- Duty: [%]
- Type of cable:
- No. of cores × cross section: PE: O N Neutral: O N
- OD min./max.: [mm] Weight: [kg/m] Min. bending radius: [mm]
- Max. allowable tensile force: [kg]

Your Applications – our Solutions

The solutions we deliver for your applications are based on your specific requirements. In many cases, a combination of several different Conductix-Wampfler systems can prove advantageous. You can count on Conductix-Wampfler for hands-on engineering support together with the optimum solution to safely meet your needs.



Cable and Hose Reels

Motor driven and spring driven reels by Conductix-Wampfler provide energy, data and media over a variety of distances, in all directions, fast and safe.



Festoon Systems

Conductix-Wampfler cable trolleys can be used in virtually every industrial application. They are reliable, robust and available in an enormous variety of dimensions and designs.



Conductor Rails

Available as enclosed or multiple unipole systems, Conductix-Wampfler conductor rails reliably move people and material.



Inductive Power Transfer

The no-contact system for transferring energy and data. For all tasks that depend on high speeds and absolute resistance to wear. Flexible installation when used with Automated Guided Vehicles.



Non-insulated Conductor Rails

Robust, non-insulated aluminum conductor rails with stainless steel cap provide the ideal basis for power supply of people movers and transit networks.



Radio Remote Controls

Safety remote control solutions customized to meet our customer needs with modern ergonomic design.



Reels, Retractors and Balancers

Available for hoses and cables, as classical reels or high-precision positioning aids for tools, we offer a complete range of reels and spring balancers.



Jib Booms

Complete with tool transporters, reels or an entire media supply system – safety and flexibility are key to the completion of difficult tasks.



Slip Ring Assemblies

Whenever things are really “moving in circles”, the proven slip ring assemblies by Conductix-Wampfler ensure the flawless transfer of energy and data. Here, everything revolves around flexibility and reliability!



Mobile Control Systems

Mobile control solutions for your plant – whether straightforward or intricate. Control and communication systems from LJU have been tried and tested in the automotive industry for decades.



ProfidAT®

This data transfer system is a compact slotted waveguide and furthermore can be used as Grounding rail (PE) as well as positioning rail at the same time.



Charging Solutions

Whether inductive or conductive, this bundle of products offers always the perfect solution for all industrial charging tasks including the matching battery with integrated BMS.

www.conductix.com

Conductix-Wampfler

has just one critical mission:

To provide you with energy and data transmission systems that will keep your operations up and running 24/7/365.

To contact your nearest sales office, please refer to:

www.conductix.contact

