

7

PULLEY BLOCKS

# F144/F150 running out blocks





Single sheave running out block fit for stringing one conductor. Aluminium sheave mounted on sealed ball bearings. Groove lined with nylon sectors. Openable galvanised steel frame with non-fleeting device. Standard swivelling fork attachment. Specific for OPGW: F144.100.60.

#### **OPTIONAL**

- 301.2 Fix hook (code FT).
- 301.1 Swivelling hook attachment (code GG).
- Bottom groove lined with aluminium sectors (only for sheaves with groove width E= 60, 68 and 95 mm).
- Non-fleeting device as big as half wheel circumference (standard on mod. F150).
- 326 Grounding device (only for wheels with groove width E= 60, 68 and 95 mm;opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326 and 326.1).
- 328 Special U-shaped frame.
- 320 Box for transport and stocking.





optional fix hook

(cod. FT)



Dimensions (mm) Working load Weight A1 A2 В С D Е F G kΝ kg A F150.23.1 8,0 F150.35 11.5 F144.50.70 F144.65.70 F144.65.95 F144.80.70 F144.80.95 F144.100.95 F144.100.60 

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B112-0 rev. 15:16 EN

#### running out blocks



# F145

Three-sheave running out block fit for stringing two- three-bundled conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Galvanised steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 320 Cage for stocking and transport.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326 and 326.1).
- 325 Reinforced central sheave with total breaking load 25.000 daN (for mod. F145.100.95 only).
- 330 Central sheave with groove width 95 mm (for models F145.xx.68 e F149.xx.68).





				D	imensior	ns (mm	)				working load	Weight
	А	В	С	D	Е	F	G	Н	Ι	L	kN	kg
F145.35.60	20	21	60	350	900	400	440	200	400	100	26	40
F145.50.68	25	25	68	500	1250	550	630	280	500	145	40	93
F145.65.68	25	25	68	650	1400	550	770	280	500	145	40	112
F145.65.95	25	30	95	650	1400	550	770	280	590	175	60	125
F145.80.68	25	25	68	800	1500	550	900	280	500	145	60	128
F145.80.95	25	30	95	800	1550	550	900	300	590	175	60	156
F145.100.95	25	30	95	1000	1750	550	1100	300	590	175	67	200

Larger diameters on demand

# F149

Five-sheave running out block fit for stringing four-bundled conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Galvanised steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 320 Cage for stocking and transport.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326 and 326.1).
- Reinforced central sheave with total breaking load 25.000 daN (for mod. F145.100.95 only).
- 330 Central sheave with groove width 95 mm (for models F145.xx.68 e F149.xx.68).





				Dime	nsions	(mm)				working load	Weight
	А	В	С	D	Е	F	G	Н	L	kN	kg
F149.50.68	25	25	520	500	68	145	100	700	1250	40	128
F149.65.68	25	25	590	650	68	145	100	700	1400	40	147
F149.65.95	25	30	590	650	95	175	130	820	1400	60	185
F149.80.68	25	25	590	800	68	145	100	700	1560	60	180
F149.80.95	25	30	590	800	95	175	130	820	1560	60	220
F149.100.95	30	30	590	1000	95	175	130	820	1800	67	272

Larger diameters on demand

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B120-0 rev. 25:16 EN

#### running out blocks



# **F188**

Six-sheave running out block, fit for stringing 6 conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326).





					Dime	nsions (	(mm)					Working load	Weight
	А	В	С	D	Е	F	G	Н	Ι	L	М	kN	kg
F188.65.68	30	30	68	650	1400	550	770	400	750	100	145	40	180
F188.65.95	30	30	95	650	1400	550	770	400	880	125	170	60	207
F188.80.68	30	30	68	800	1500	550	900	500	750	100	145	60	204
F188.80.95	30	30	95	800	1550	550	900	500	880	125	170	60	240

# **F189**

Seven-sheave running out block, fit for stringing 4 or 6 conductors. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Steel frame with non-fleeting devices on lateral sheaves. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 325 Central sheave lined with steel sectors.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326).



					Dime	nsions (	(mm)					Working load	Weight
	А	В	С	D	E	F	G	Н	Ι	L	М	kN	kg
F189.65.68	30	30	68	650	1400	590	100	400	930	100	145	40	195
F189.65.95	30	30	95	650	1400	590	125	400	1100	125	170	60	235
F189.80.68	30	30	68	800	1560	590	100	500	930	100	145	60	240
F189.80.95	30	30	95	800	1560	590	125	500	1100	125	170	60	295

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B128-0 rev. 07:16EN

#### running out blocks



# F145.S

Decomposable three-sheave running out block fit for stringing two- three-bundled conductors. The frame contains 3 running-out blocks that can be used singularly. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Galvanised steel frame. Central sheave mounted on double bearings. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



				[	Dimensio	ns (mm	)				Working load	Weight
	А	В	С	D	Е	F	G	Н	Ι	L	kN	kg
F145.S.50.68	25	25	68	500	1480	600	630	280	590	148	40	122
F145.S.65.68	25	25	68	650	1550	600	770	280	590	148	40	145
F145.S.65.95	25	30	95	650	1650	600	770	280	670	178	60	165
F145.S.80.68	25	25	68	800	1750	600	900	280	590	148	60	167
F145.S.80.95	25	30	95	800	1750	600	900	300	670	178	60	190
F145.S.100.95	30	30	95	1000	1980	600	1100	300	700	178	67	230

# F149.S

Decomposable five-sheave running out block fit for stringing four-bundled conductors. The frame contains 5 running-out blocks that can be used singularly. Aluminium sheaves mounted on sealed ball bearings. Grooves lined with nylon sectors. Galvanised steel frame. Central sheave mounted on double bearings. Demountable attachment revolving by 90°.

#### OPTIONAL

- 314 Sheaves lined with aluminium sectors.
- 326 Grounding device (opt.314 needed).
- Copper cable with transparent PVC protection, with a clamp for tower and a terminal for the running out block (6 m in length).



					Dimensic	ons (mm	ı)				Working load	Weight
	А	В	С	D	Е	F	G	Н	Ι	L	kN	kg
F149.S.50.68	25	25	68	500	1480	600	630	280	890	148	40	185
F149.S.65.68	25	25	68	650	1550	600	770	280	890	148	40	210
F149.S.65.95	25	30	95	650	1650	600	770	280	1050	178	60	245
F149.S.80.68	25	25	68	800	1750	600	900	280	890	148	60	249
F149.S.80.95	25	30	95	800	1750	600	900	300	1050	178	60	300
F149.S.100.95	30	30	95	1000	1980	600	1100	300	1070	178	67	328

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B122-0 rev. 06:16 EN

#### running out blocks



### F144...E F150...E

Single sheave block fit for stringing a pilot rope by helicopter. Proper devices allow to position the pulling rope in the sheave groove and keep it inside the groove during stringing operations. Aluminium sheave mounted on waterproof bearings. Groove lined with nylon sectors. Galvanized steel frame. Fix attachment.

- OPTIONAL
- Bottom groove lined with aluminum sectors (only for sheaves with groove width C= 60, 68 or 95 mm).
  Grounding device (only for pulleys with groove width
- C = 60, 68 or 95 mm; opt.314 needed.
- 327 Non-fleeting device an half wheel circumference.
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326).



		Dim	ensior	ns (mm)	)		Working load	Weight
	А	В	С	D	Е	F	kN	kg
F150.23.50.E	300	230	50	220	550	25	26	15
F150.35.60.E	440	350	60	240	680	25	30	22
F144.50.70.E	630	500	68	340	980	25	60	49
F144.65.70.E	770	650	68	340	1220	25	40	52
F144.65.95.E	770	650	95	370	1220	25	40	61
F144.80.70.E	900	800	68	340	1320	25	40	64
F144.80.95.E	900	800	95	380	1320	25	40	68
F144.100.95.E	1120	1000	95	380	1560	25	67	85



# F145...E

Three-sheave block fit for stringing a pilot rope by helicopter. Proper devices allow to position the pulling rope in the sheave groove, and keep it inside the groove during stringing operations. Aluminium sheave mounted on waterproof bearings. Groove lined with nylon sectors. Galvanized steel frame. Fix attachment.

#### OPTIONAL

- 314 Bottom groove lined with aluminum sectors.
- 326 Grounding device (opt.314 needed).
- 329 Copper cable, 6-m long, with transparent PVC protection, with a clamp for tower and a terminal for the running out block (for opt.326).





		Di	mensic	ons (mm	ו)		Working load	Weight
	А	В	С	D	Е	F	kN	kg
F145.50.70.E	630	500	68	670	1080	25	60	120
F145.65.70.E	770	650	68	670	1320	25	60	160
F145.65.95.E	770	650	95	780	1320	25	60	170
F145.80.70.E	900	800	68	670	1420	25	60	175
F145.80.95.E	900	800	95	800	1420	25	60	196
F145.100.95.E	1120	1000	95	800	1640	25	67	250

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B125-0 rev. 11:16 EN

#### running out blocks



# F151.235 Ga

#### **Counter-pull running-out block.**

Galvanised steel frame, openable side, with swivelling hooks on the ends. Automatic releasing device for recovering the unit. **vers. AS** Galvanised steel pulley mounted on ball bearings.

vers. BS Aluminium pulley lined with interchangeable nylon ring.





			[	Dimensio	ns (mm	)			Working load	Weight
	d	D	Е	F	G	Н	L	R	kN	kg
F151.235.AS	240	300	25	25	65	600	170	95	28	21
F151.235.BS	235	300	25	25	50	550	150	95	22	20

F151

**Running out block fit for stringing shield wires.** Galvanized steel sheave mounted on ball bearings. Galvanized steel frame with non-fleeting device.

- Different attachments available: A - swivel hook.
- B swivel fork.
- C fix hook.
- Blocks with different dimensions can be built on demand.



	Attachment type			[	Dimensio	ons (mm	)			Working load	Weight
		d	D	Е	F	G	Н	L	R	kN	kg
F151.235.A	А	230	300	25	22	65	400	155	100	28	13
F151.235.B	B/C	230	300	25	20	65	400	155	70	28	13

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B145-1 rev. 01:16 EN

#### snatch-blocks



# **C86.ST**

Openable snatch block. Galvanised steel sheave mounted on ball bearings. Galvanised steel frame with openable side. Standard hook attachment.

#### OPTIONAL

eye attachment A2







	Working load	Max rope			Dime	ensions (	mm)			Weight
	kN	Ø	А	В	D	Е	F	G	Н	kg
C86.ST.20	18	14	23	28	102	75	400	138	210	5
C86.ST.40	36	18	30	34	137	80	440	170	235	9,2
C86.ST.50	50	24	39	43	185	95	500	215	285	12

Also available with capacity 2000, 4000 and 6000 daN

# **C86.AL**

Openable snatch block. Aluminium sheave mounted on ball bearings. Aluminium frame with openable side. Standard steel hook attachment.

#### OPTIONAL

eye attachment A2







	Working load	Max rope			Dime	ensions (	(mm)			Weight
	kN	Ø	А	В	D	Е	F	G	Н	kg
C86.AL.6	6	16	16	16	98	72	300	120	160	1,6
C86.AL.12	12	20	18	25	130	72	320	155	180	2,8

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B150-1 rev. 04:16 EN

#### snatch-blocks



### **C87**

Snatch block for wire ropes. Galvanised steel frame with 2, 3 or 5 steel sheaves mounted on waterproof ball bearings. The snatch blocks are supplied in pairs.

#### OPTIONAL

- 01 Shackle, swivel joint and wire rope (length and diameter of the rope to be specified)
- 02 Anti-fleeting bars.





	Sheaves		Dime	nsions (m	m)		Max load	Working load	Weight per pair
	no.	D min	rope Ø	L max	А	В	kN	kN	kg
C87.2.025	2	160	8	380	22	22	25	30	20
C87.3.035	3	160	8	450	25	22	35	50	27
C87.5.055	5	160	8	500	29	22	55	80	45
C87.2.030	2	180	9	370	22	22	30	38	25
C87.3.045	3	180	9	430	25	22	45	60	30
C87.5.070	5	180	9	470	29	22	70	100	45

(1) bottom groove diameter

### **C88**

Tackle block for high voltage lines. Steel frame with 4 or 6 steel sheaves mounted on waterproofed ball bearings. Supplied in pairs.

#### OPTIONAL

01 Aluminium sheaves.





	Sheaves			Dime	nsions	(mm)		Max load	Working load	Weight per pair	
	no.	D min	rope Ø	L max	А	В	E min	F max	kN	kN	kg
C88.4.025	4	120	6	500	23	23	11	11	25	40	25
C88.4.045	4	160	8	650	25	23	11	11	45	73	45
C88.6.065	6	160	8	680	27	35	11	11	65	105	70
C88.6.095	6	200	10	800	36	45	12	13	95	150	100
C88.6.120	6	240	12	940	38	48	14	14	120	200	130

NOTE: the load capacity is lower with aluminium sheaves

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B155-0 rev. 05:16 EN

#### running boards for bundle conductors

# F153

#### F153.2

# Running board for 2-bundle conductors, fit for connecting the pulling rope to 2 conductors.

The running board is made up of:

- 1 sheave with balancing counterweights
- 1 swivel joint for the pulling rope
- 2 swivel joints for the conductors
- 1 length of antitwisting steel rope for balancing the conductors

#### F153.3

### Running board for 3-bundle conductors, fit for connecting the pulling rope to 3 conductors.

The running board is made up of:

- 1 sheave with balancing counterweights
- 1 swivel joint for the pulling rope
- 3 swivel joints for the conductors
- 2 lengths of antitwisting steel rope: 1 for the lateral conductors and 1 for the central conductors



(a) number of conductors - (b) joint for pulling rope - (c) joint for conductors - (e) rope length for external conductors -

(f) rope length for central conductors

### F154

### Running board for 4-bundle conductors fit for connecting the pulling rope to 4 conductors.

The running board is made up of:

- 3 sheaves with balancing counterweights
- 1 swivel joint for the pulling rope
- 4 swivel joints for the conductors
- 2 lengths of antitwisting steel rope for balaning the conductors



	Cond.	D	Dimensions (mm)			Joints	(model)	Rope	for conduc	ctors	W.L.	Weight
	(a)	А	В	С	D	(b)	(c)	Ø mm	(e) m	(f) m	kN	kg
F154.4.1	4	290	100	540	160	F250.24	F250.18	18	30	30	95	200
F154.4.2	4	340	130	640	160	F250.24	F250.18	18	30	30	95	220
F154.4.5	4	296	148	640	160	F250.24	F250.18	18	30	30	95	220
F154.4.6	4	356	178	760	160	F250.24	F250.18	18	30	30	95	240
F154.4.8	4	340	130	640	180	F250.28	F250.24	18	30	30	250	270

(a) number of conductors – (b) joint for pulling rope – (c) joint for conductors – (e) rope length for external conductors – (f) rope length for central conductors

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C210-0 rev. 12:16 EN







#### running boards for bundle conductors

# F153...F



#### F153.2...F

Fix-type running board for 2-bundle conductor, fit for connecting the pulling rope to 2 conductors. The running board is made up of:

- 1 swivel joint for the pulling rope
- 2 swivel joints for the conductors •

#### F153.3...F

Fix-type running board for 3-bundle conductors, fit for connecting the pulling rope to 3 conductors.

The running board is made up of:

- 1 swivel joint for the pulling rope .
- 3 swivel joints for the conductors .



	Cond.	Dim	Dimensions (mm)			(model)	Rope for	conductors	W.L.	Weight
	(a)	А	В	С	(b)	(c)	Ø mm	length m	kN	kg
F153.2.3.F	2	100	130	250	250.16	250.18	12	3	65	70
F153.2.1.F	2	146	160	360	250.24	250.18	16	3,5	95	135
F153.2.2.F	2	174	170	410	250.24	250.18	16	3,5	95	150
F153.3.3.F	3	100	130	250	250.16	250.18	12	3	65	75
F153.3.1.F	3	146	160	360	250.24	250.18	18	3,5	95	150
F153.3.2.F	3	174	170	410	250.24	250.18	18	3,5	95	170
(a) number of c	anductors (h	) joint for r	ulling ron		nt for conducto	Nrc.				

(a) number of conductors – (b) joint for pulling rope – (c) joint for conductors

# F154...F

#### Fix-type running board for 4-bundle conductors fit for connecting the pul-

ling rope to 4 conductors.

- The running board is made up of:
- 1 swivel joint for the pulling rope •
- 4 swivel joints for the conductors



	Cond.	d. Dimensions (mm)				Joints	Joints (model)		conductors	W.L.	Weight
	(a)	А	В	С	D	(b)	(c)	Ømm	length m	kN	kg
F154.4.1.F	4	100	290	540	160	250.24	250.18	18	3,5	95	190
F154.4.2.F	4	130	340	640	160	250.24	250.18	18	3,5	95	210
F154.4.5.F	4	148	296	640	160	250.24	250.18	18	3,5	95	210
F154.4.6.F	4	178	356	760	160	250.24	250.18	18	3,5	95	230
F154.4.8.F	4	130	340	640	180	250.28	250.24	18	3,5	250	265

(a) number of conductors – (b) joint for pulling rope – (c) joint for conductors

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#### running boards for bundle conductors



# F154.6

Running board for 6-bundle conductors fit for connecting the pulling rope to 6 conductors (phases). The running board is made up of:

- 5 sheaves with balancing counterweights
- 1 swivel joint for the pulling rope
- 6 swivel joints for the conductors
- 3 lengths of antitwisting steel rope for balancing the conductors

### F154.6..F

**Fix-type running board for 6-bundle conductors fit for connecting the pulling rope to 6 conductors.** The running board is made up of:

1 swivel joint for the pulling rope

• 6 swivel joints for the conductors

		Dimensio	ons (mm)		Joints (	model)	Rope for	conductors	W.L.	Weight
	А	В	С	D	(a)	(b)	Ø mm	length m	kN	kg
F154.6.1	290	100	820	175	250.28	250.18	18	3	150	320
F154.6.1.F	290	100	820	175	250.28	250.18	18	3	150	320
F154.6.2	340	125	1000	175	250.28	250.18	18	3	150	350
F154.6.2.F	340	125	1000	175	250.28	250.18	18	3	150	350

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(a) joint for pulling rope – (b) joints for conductors **Running board fit for pulley mod. F189** 



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#### stringing equipment



### **F166**

Joint protector made up of two galvanised steel shells. The ends are shaped to host the rubber protections. It is fit to limit the bending radius of the conductor during the passage in the running out blocks.

Note: in the purchase order, please specify the following dimensions: L = length of the joint after compression

- d = conductor diameter

ch = hexagon dimension of the joint after compression





	for pulleys with groove	joint protector external diam. ØE	conductor diam. Ød	L max (1)	Hexagon Ch max	Working load	Weight
	mm	mm	mm	mm	mm	kN	kg
F166.40	54/60	50	18	700	28	2,5 - 5	10
F166.60	68	62	28	1000	40	4 - 6,5	16
F166.65 *	68	65	32	1050	48	2 - 5	18
F166.92 *	95	90	50	1300	60	6 - 6,5	32

\* special - (1)different lengths on request

### **F198**

Antitwisting counterweight fit for stringing overhead fiber optics cables (OPGW). The counterweight allows to avoid the cable twisting during the passage in the running out blocks. Its shape is designed for passing in the grooves of the running out blocks without damaging the cable. A pair of nylon liners prevent damages to the conductor. Supplied in metallic case.

Note: the counterweights F198 must always be used in pairs. In the purchase order, please specify the OPGW diameter.



		imonoiono in m	~	weight(1)	Conductor	Running	out block
			11	weight(*)	diameter ØC	diameter ØE	groove width
	ØD	ØD A( <sup>2</sup> ) B		kg	mm	mm	mm
F198.50	50	1000	35	22	9 - 15	350/500	60/68
F198.60	60	1300	40	26	16 - 23	500/800	68
F198.88	80	1800	60	46	24 - 30	650/800	95

(1)weight on couple - (2)indicative length

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Performances of the machine without optional devices, at sea level and temperature 20°C. Dimensions and weights are without optional devices. All data may change without notice. Images and drawings are indicative only.

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#### pulling robot for replacing conductors

### F405.10.B

#### Pulling robot made of light aluminium alloy.

Moved by two electric motors that control two aluminium wheels lined with vulcolan.

The motors are powered by an interchangeable and rechargeable battery. Device for unlocking and recovering the robot in case of stop while working. Complete with radio remote control. The robot can ride any rope/conductor. The lower wheels permit to overpass obstacles, like conductor joints.

Supplied in metallic box  $(0,90 \times 0,60 \times 0,80 \text{ m})$ .

#### **RADIO-CONTROL**

Radiocontrol with forward/backward and stop control buttons, max distance 400 m. Complete with receiving unit, battery charger and 2 extractable and rechargeable batteries. Protection IP67.

#### OPTIONAL

Charger for the motors battery complete with 230 V trasformer.



#### Pulling robot made of light aluminium alloy.

Moved by two electric motors that control two aluminium wheels lined with vulcolan. The motors are powered by an electric power unit with gasoline engine. Device for unlocking and recovering the robot in case of stop while working. Complete with radio remote control. The robot can ride any rope/conductor. The lower wheels permit to overpass obstacles, like conductor joints. Supplied in metallic box  $(1,00 \times 0,60 \times 0,90 \text{ m})$ .

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#### **RADIO-CONTROL**

Radiocontrol with forward/backward and stop control buttons, max distance 400 m. Complete with receiving unit, battery charger and 2 extractable and rechargeable batteries. Protection IP67.



	Max pull	Max	Pull speed		Wheels diameter		Wheel	Dimensions	Woight	Fooding	Power	Electric
	force	inclination	max	min	int	ext	width	(LxWxH)	weight	reeuing	(each motor)	plant
	kN		m/min	m/min	mm	mm	mm	m	kg		kW	
F405.10.B	1	15°	20	15	190	140	55	0,80x0,50x0,70	40	electric	0,15	12 V
F405.15.S	1,5	20°	20	15	100	60	50	0,90x0,60x0,80	45	electric	0,15	12V

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Two nylon wheels mounted on ball-bearings and aluminium frame with protective nylon plate. Working load: 200 daN Dimensions: 364x99x160 m Weight: 1,2 kg

### **OPTIONAL**

01 - Metallic box for 50 blocks (dimensions 600x600x600 mm)

Cradle block designed for the replacing existing cables, F183.4.70 with clamp for ropes diameter from 10 to 20 mm.

Two nylon wheels and aluminium frame. Working load: 150 daN Dimensions: 360x99x150 mm Weight: 1,1 kg OPTIONAL 01 - Metallic box for 50 blocks (dimensions 600x600x600 mm)

#### F405.15.FR Braking device for cradle blocks. Positioned behind the cradles, to keep the distance between the cradles.

Aluminium frame and aluminium, rubber wheels mounted on ball-bearings. Working load: 150 daN. Weight: 4 kg OPTIONAL 01 - Plastic box (dimensions 600x400x200 mm)



#### F405.15.RR Recovering device to hook the robot in case of extreme inclination. Towing system by rope with detachable counterweights.

Aluminium frame and wheels mounted on ball bearings and galvanised steel counterweights. Working load: 150 daN. Weight: 8,3 kg (counterweights excluded) Counterweights: 3 x 8,8 kg each OPTIONAL

01 - Metallic box (dimensions 600x800x300 mm)





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