

LIFTING WINCHES

Our selection of Hydraulic Lifting Winches **FW SX** series has been enhanced with various technical improvements, **making it more efficient in its LIFTING capacities.**

The standard selection covers all **lifting capacities from 600 kg to 6.500 kg.** Thanks to the small dimensions, **all of our winches offer great length of rope while keeping their size small.**

Every model can be equipped with various accessories like **cable pressing, end of stroke switches, load limiting devices, threaded drums and marine painting.**

The new FW BX series has been introduced with **lifting capacities ranging from 2100 Kg up to 3600 Kg.**

The new series features a new and improved drive wheel granting an **increased lifting capacity while maintaining a lower overall encumbrance.**

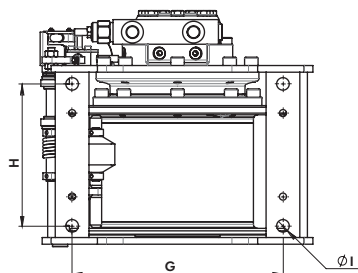
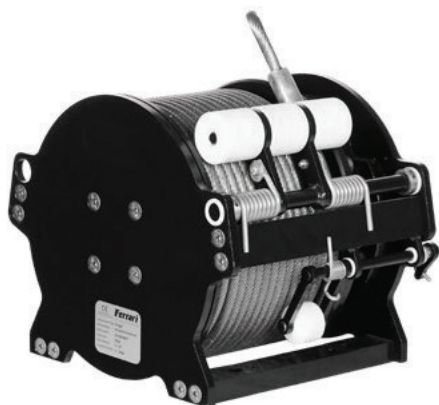


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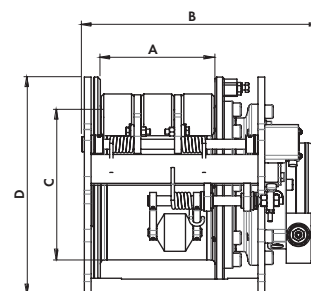
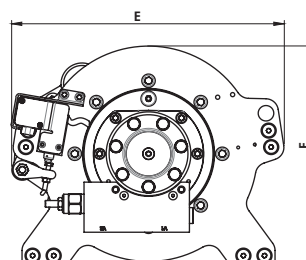


FW SX EVO

FW 60 SX - FW 220 SX

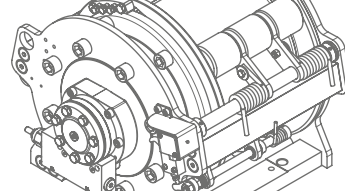


Standard
winding direction:
counterclockwise

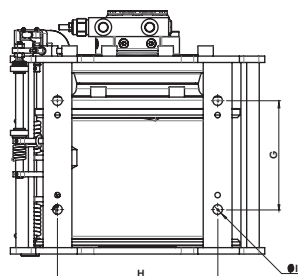


		FW 60SX	FW 60SXL	FW 80SX	FW 80SXL	FW 100SX	FW 100SXL	FW 120SX	FW 150SX	FW 180SX	FW 180SXL	FW 220SX
1ST LINE PULL	daN	600	600	800	800	900	900	1100	1300	1800	1800	2050
LAST LINE PULL	daN	400	400	500	500	580	580	820	850	1150	1150	1370
ROPE LAYERS	n°	6	6	6	6	5	5	5	4	5	5	5
ROPE SIZE	mm	6	6	6	6	7	7	7	8	9	9	10
ROPE LENGHT	m	80	150	80	150	58	128	78	54	78	155	71
ROPE SPEED	m/min	55	55	50	50	45	45	55	50	32	32	30
WEIGHT	kg	40	56	43	58	45	60	56	58	83	98	86
MAX FLOW	l/min	36	36	36	36	36	36	45	45	60	60	60
PRESSURE	bar	150	150	160	160	170	170	160	170	150	150	160
MOTOR	cc/rev	80.3	80.3	80.3	80.3	80.3	80.3	100	100	100	100	100
ENGINE TORQUE	Nm	160	160	165	165	170	170	205	208	205	205	210
MAX TORQUE ON THE DRUM	Nm	805	805	814	814	820	820	1250	1270	2500	2500	2600
MAX BACK PRESSURE ON RETURN LINE	bar	2	2	2	2	2	2	2	2	2	2	2
GEAR RATIO		5,3	5,3	5,3	5,3	5,3	5,3	6,2	6,2	13,8	13,8	13,8
FULL OPENING BRAKE PRESSURE	bar	24	24	24	24	24	24	24	24	25	25	25
A	mm	136	320	136	320	136	320	158	158	190	372	190
B	mm	289	460	289	460	289	460	346	346	380	560	380
Ø C	mm	180	180	180	180	180	180	210	210	220	220	220
D	mm	261	261	261	261	261	261	286	286	322	322	322
E	mm	318	318	318	318	318	318	343	343	384	384	384
Ø F	mm	258	258	258	258	258	258	286	286	322	322	322
G	mm	170	170	170	170	170	170	170	170	170	364	170
H	mm	250	250	250	250	250	250	250	250	250	250	250
Ø I	mm	15	15	15	15	15	15	15	15	15	15	15

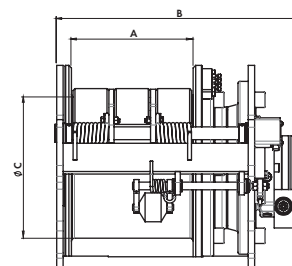
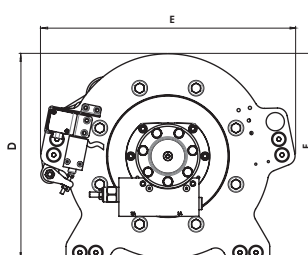
Products not suitable for lifting people



FW 220 SXL - FW 750 SX



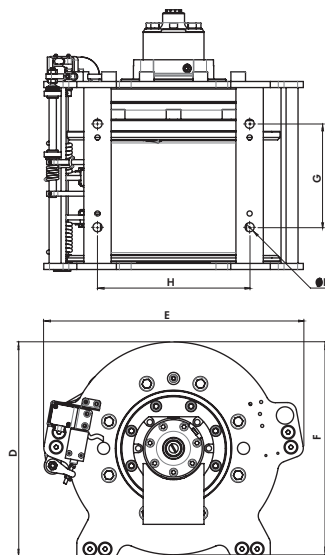
Standard
winding direction:
counterclockwise



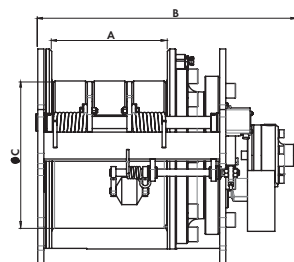
		FW 220SXL	FW 250SX	FW 250SXL	FW 300SX	FW 300SXL	FW 350SX	FW 350SXL	FW 450SX	FW 450SXL	FW 550SX	FW 750SX
1ST LINE PULL	daN	2050	2325	2325	3100	3100	3600	3600	4300	4300	5500	6500
LAST LINE PULL	daN	1370	1560	1560	2200	2200	2550	2550	2820	2820	4200	5200
ROPE LAYERS	n°	5	4	4	5	5	5	5	5	5	5	4
ROPE SIZE	mm	10	11	11	13	13	14	14	15	15	16	18
ROPE LENGHT	m	140	50	98	70	136	62	128	58	120	128	88
ROPE SPEED	m/min	30	28	28	34	34	32	32	30	30	38	36
WEIGHT	kg	100	87	102	129	155	136	160	140	165	340	360
MAX FLOW	l/min	60	60	60	75	75	75	75	75	75	130	130
PRESSURE	bar	160	180	180	175	175	185	185	195	195	260	280
MOTOR	cc/rev	100	100	100	100	100	100	100	100	100	45	45
ENGINE TORQUE	Nm	210	230	230	220	220	220	220	220	220	150	160
MAX TORQUE ON THE DRUM	Nm	2600	2700	2700	5500	5500	5500	5500	5500	5500	12300	12300
MAX BACK PRESSURE ON RETURN LINE	bar	2	2	2	2	2	2	2	2	2	2	2
GEAR RATIO		13,8	13,8	13,8	26,8	26,8	26,8	26,8	26,8	26,8	90,7	90,7
FULL OPENING BRAKE PRESSURE	bar	25	25	25	33	33	33	33	33	33	19	19
A	mm	372	190	372	213	413	213	413	213	413	352	352
B	mm	560	380	560	495	690	495	690	495	690	700	700
Ø C	mm	220	220	220	250	250	250	250	250	250	323	323
D	mm	322	322	322	404	404	404	404	404	404	500	500
E	mm	384	384	384	470	490	470	490	470	490	580	580
Ø F	mm	322	322	322	400	400	400	400	400	400	500	500
G	mm	364	170	364	245	445	245	445	245	445	380	380
H	mm	250	250	250	360	360	360	360	360	360	410	410
Ø I	mm	15	15	15	19	19	19	19	19	19	19	19

Products not suitable for lifting people



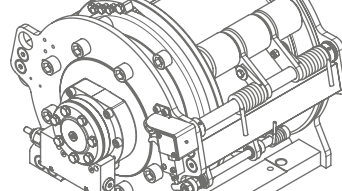
FW BX**FW 207 BX - FW 270 BX**

Standard
winding direction:
counterclockwise



		FW 207 BX	FW 207 BX L	FW 270 BX	FW 270 BX L
1ST LINE PULL	daN	2100	2100	2350	2350
LAST LINE PULL	daN	1590	1590	1920	1920
ROPE LAYERS	n°	5	5	5	5
ROPE SIZE	mm	10	10	11	11
ROPE LENGHT	m	80	150	70	130
ROPE SPEED	m/min	38	38	40	40
WEIGHT	kg	90	110	90	110
MAX FLOW	l/min	60	60	60	60
CONT. OIL FLOW	l/min	40	40	40	40
PRESSURE	bar	170	170	170	170
MOTOR	cc/rev	99,9	99,9	99,9	99,9
MAX TORQUE ON THE DRUM	Nm	2625	2625	3260	3260
MAX BACK PRESSURE ON RETURN LINE	bar	2	2	2	2
GEAR RATIO		16,2	16,2	16,2	16,2
A	mm	190	372	190	372
B	mm	430	600	430	600
Ø C	mm	240	240	240	240
D	mm	363	363	363	363
E	mm	430	430	430	430
Ø F	mm	360	360	360	360
G	mm	170	384	170	384
H	mm	250	250	250	250
Ø I	mm	15	15	15	15

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OPTIONAL

Shackle



Swiveling hook



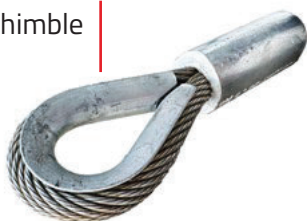
Top end of stroke switch



Pulley block



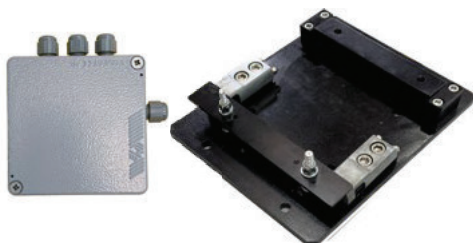
Thimble



Cylindrical Weight



Load Sensor +
Sensor Electronic Card



Full drum sensor



New load limitation system available soon, consisting of an additional flange on which the winch is installed; **two load cells** provide the signal to an electronic board, which **blocks the machine if the alarm threshold is exceeded**. Different versions will be available depending on the winch model.



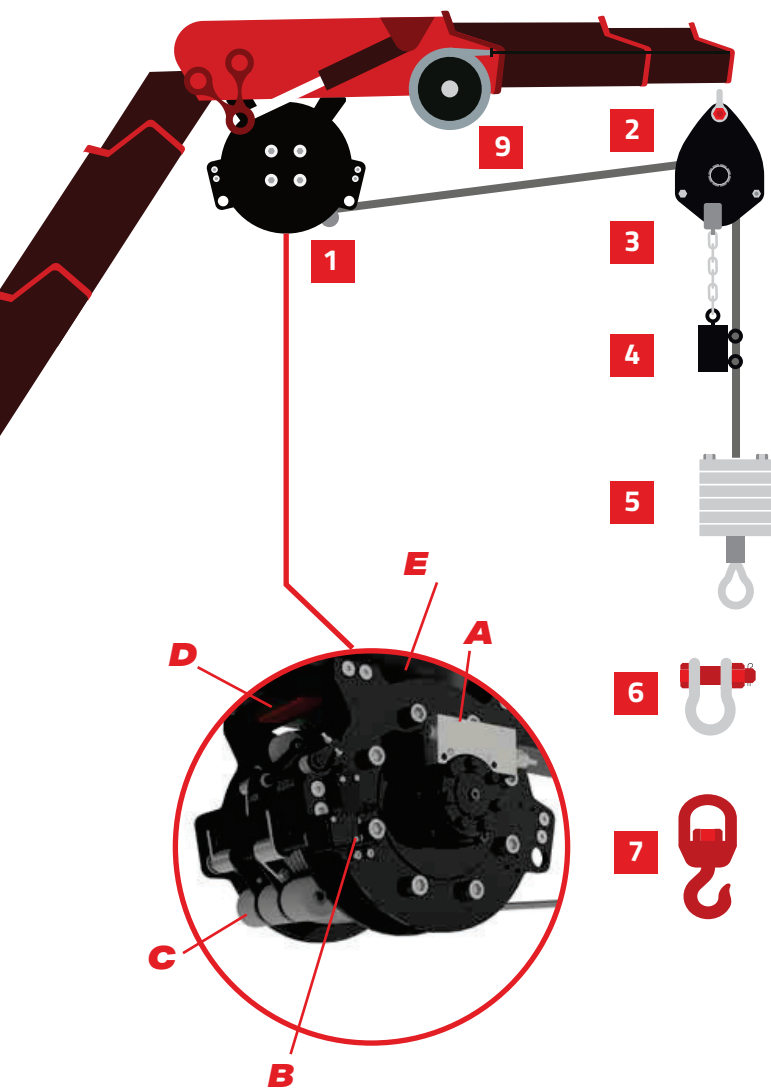
Universal Cable Reel for Winches

MODELS	CONDUCTOR NUMBER	CONDUCTOR SECTION	CABLE DIAMETER	CABLE LENGTH	PROTECTION	MAX CURRENT
		mm ²	mm	m		A
485113	2	1	6	10 + 1,5	IP42	3
485127	2	1	6	14 + 1,5	IP42	3
485128	2	1,5	8	25 + 2	IP42	4.5

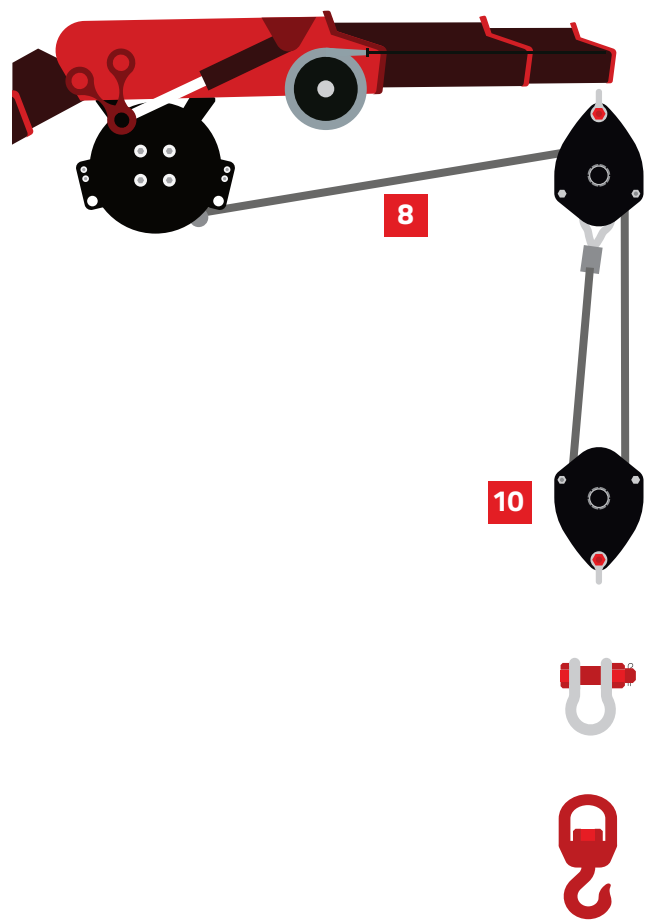


Positioning

Standard Setup



Double Pulley Setup



- A. Block valve
- B. Bottom end of stroke switch
- C. Cable pressing
- D. Load limiter
- E. Sensor card

- 1. Hydraulic winch
- 2. Pulley block
- 3. Top end of stroke switch
- 4. Full drum sensor
- 5. Rope weight
- 6. Shackle

- 7. Turning hook
- 8. Not rotating wire rope
- 9. Electric cable coiler
- 10. Pulley for Additional Transmission