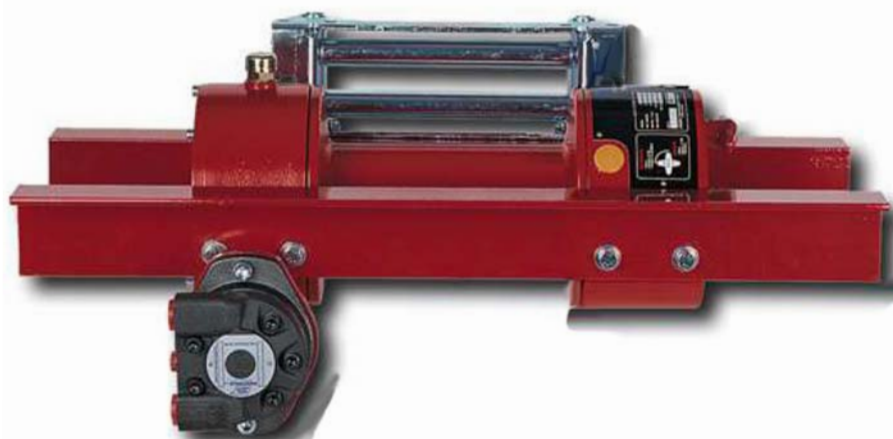


HT 11 / A / 102 / 1205 / E

Electric and Hydraulic Pulling Winches



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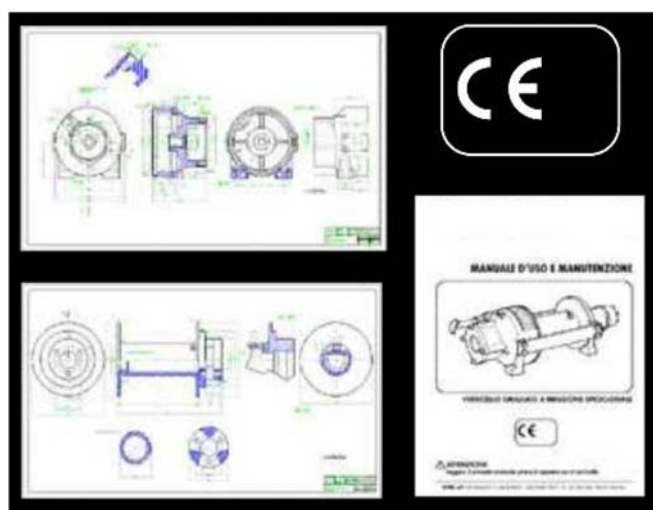
Hydraulic Winch

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Electric and Hydraulic pulling Winches General informations

CE

HANSA-TMP has certified its winches to comply with CE 89 / 392 and each winch is delivered with an instruction and maintenance manual and a Declaration of Conformity.
The winch is fitted with an identification plate and warning symbols.

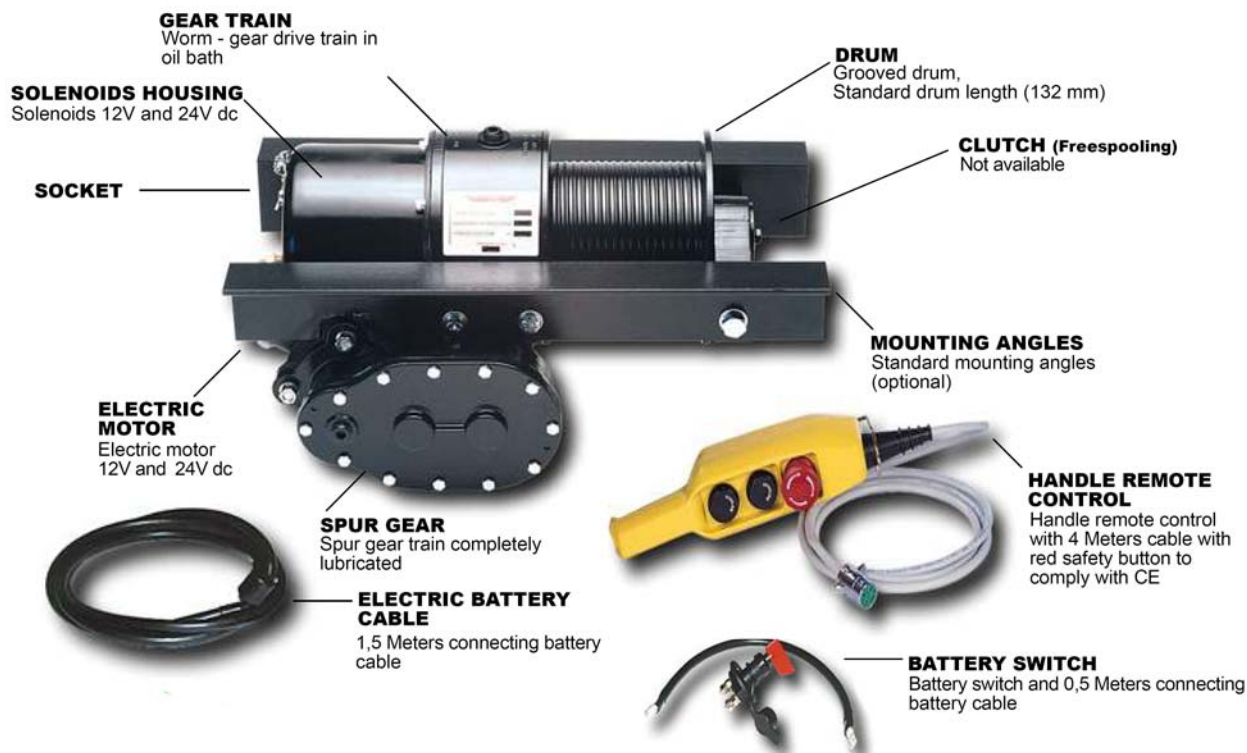


TÜV - GS

HANSA-TMP has a long-standing commitment to producing quality winches throughout its range. To ensure that the company's production quality system is maintained HANSA-TMP has applied for and been granted the German GS approvals which comply with DIN 15020 and this certification has been achieved through TÜV product Service of Munchen. The annual system audit carried out by TÜV-GS engineers will ensure the maintenance of these production standard.



Electric Winch JES 1.300 - 1.000 Electric worm gear and spur gear winch



SPECIFICATIONS

- Rated line pull
 - for model JES 1.000 : **1.000 kg**
 - for model JES 1.300 : **1.300 kg**
- Electric motor d.c. : **12 V d.c. / 24 V d.c.**
- Worm and gear train with spur gear reduction.
- (CE) Industrial remote control includes cable (4 m. long).
- Weight without cable = **34 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Electric Winch JES 1.300 - 1.000 Electric worm gear and spur gear winch

Technical data

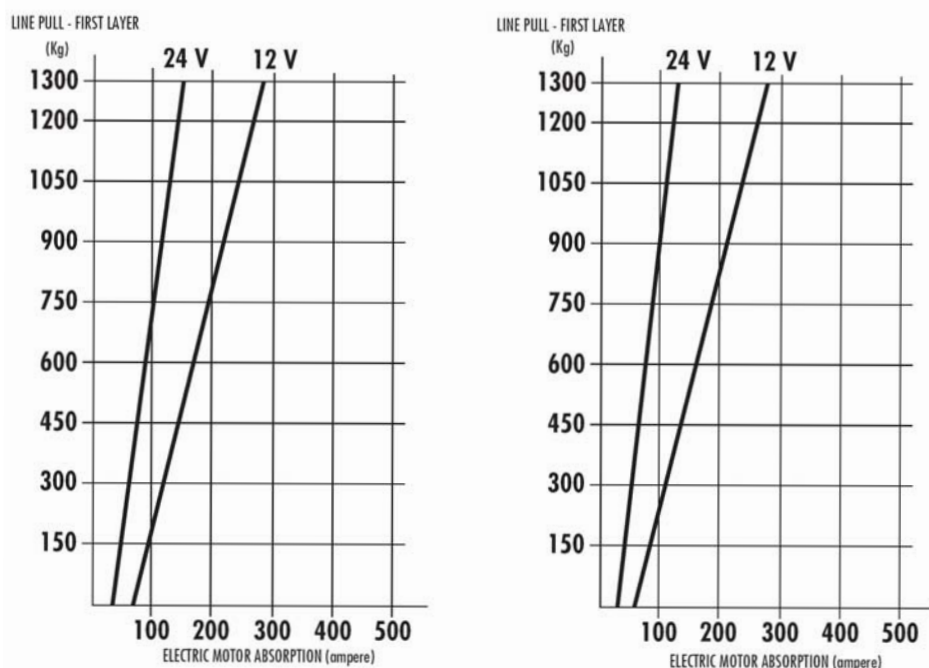
MODEL - RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
JES 1.300 - 1:470	6	1	1300
		2	1190
		3	1100
		4	1020
		5	-
JES 1.000 - 1:360	6	1	1000
		2	915
		3	845
		4	785
		5	-

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY
	kg	m	m
	34	6 mm.	6 mm.
		20	30

VOLT	RATIO	NO LOAD		1000 kg		1300 kg	
		SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.
12	1:360	7.5	65	2.5	270	-	-
	1:470	6.5	70	-	-	2.1	280
24	1:360	7.5	32	2.5	135	-	-
	1:470	6.5	35	-	-	2.1	140

These performance data are based on line pull-first layer.

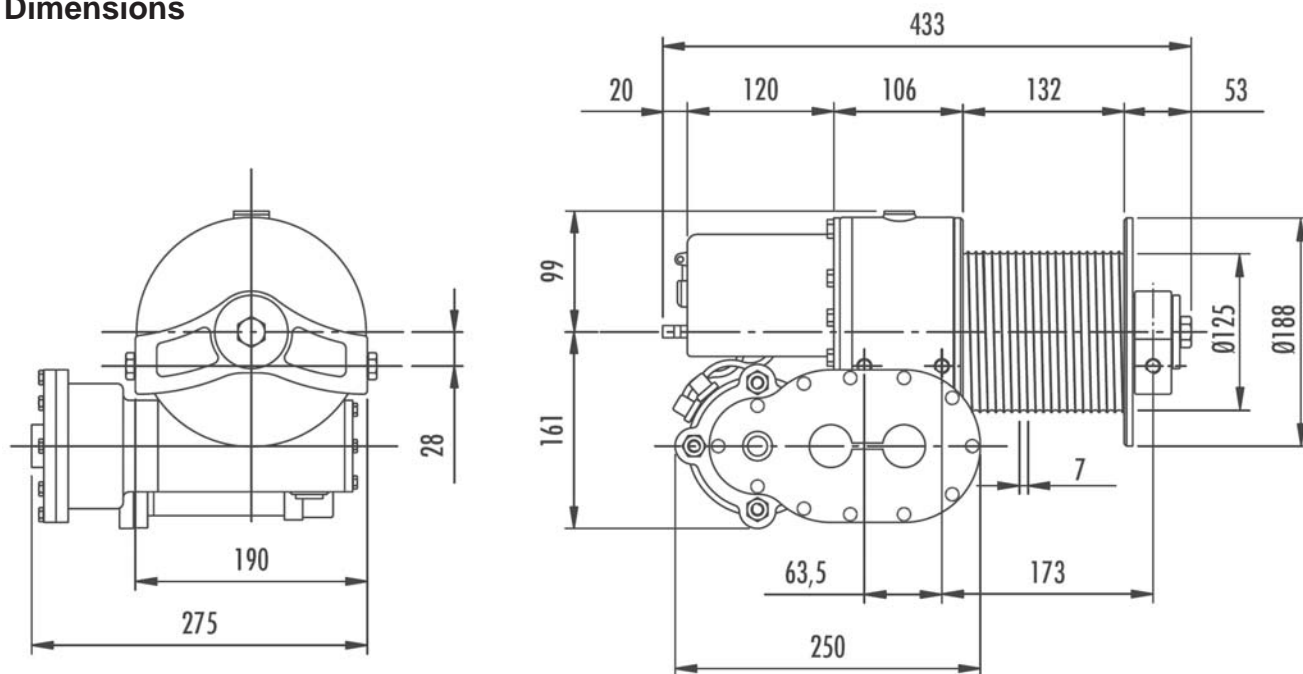
Performance charts at the 1° layer



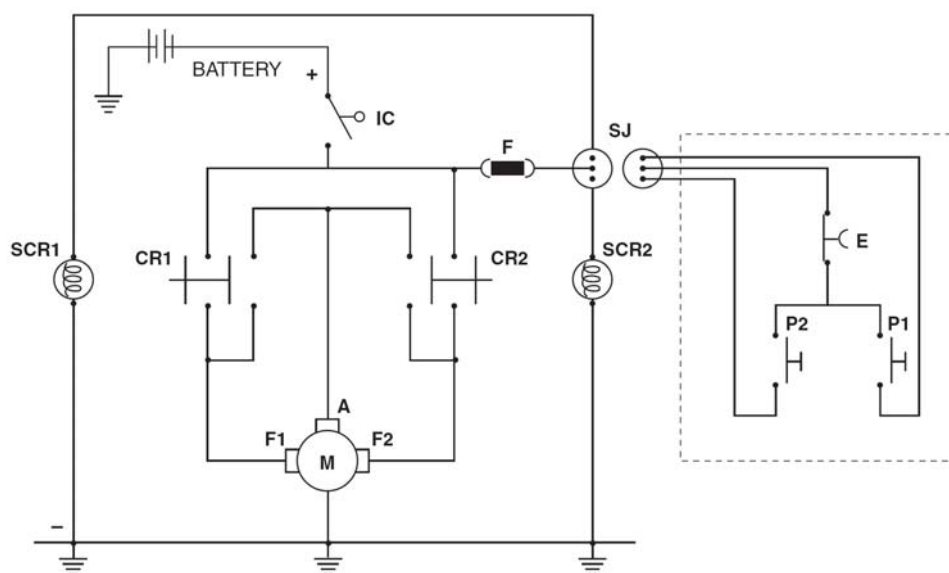
Electric Winch JES 1.300 - 1.000

Electric worm gear and spur gear winch

Dimensions



Electric wiring diagram



IC = BATTERY MAIN SWITCH
 CR1 = SOLENOID
 1CR2 = SOLENOID 2
 M = ELECTRIC MOTOR
 E = SAFETY STOP BUTTON

P1-P2 = "WINDING/UNWINDING" BUTTONS
 SCR1 = SOLENOID COIL CR1
 SCR2 = SOLENOID COIL CR2
 F = FUSIBLE PLUG 15A
 SJ = SELF-LOCKING PLUG

Electric Winch JE 3.000 - 2.300

JE 3.600 - 2.700

Electric worm gear and spur gear winch



SPECIFICATIONS

- Rated line pull :
 - for model JE 3.000 = **3.000 kg**
 - for model JE 2.300 = **2.300 kg**
 - for model JE 3.600 = **3.600 kg**
 - for model JE 2.700 = **2.700 kg**
- Electric motor d.c. : **12 V d.c. / 24 V d.c.**
- Worm and gear train with spur gear reduction.
- (CE) Industrial remote control includes cable (4 m. long).
- Manual clutch shifter
- Weight without cable :
 - for model JEC (short) = **42 kg**
 - for model JEM (medium) = **44kg**
 - for model JEL (long) = **50 kg**



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Electric Winch JE 3.000 - 2.300 Electric worm gear and spur gear winch

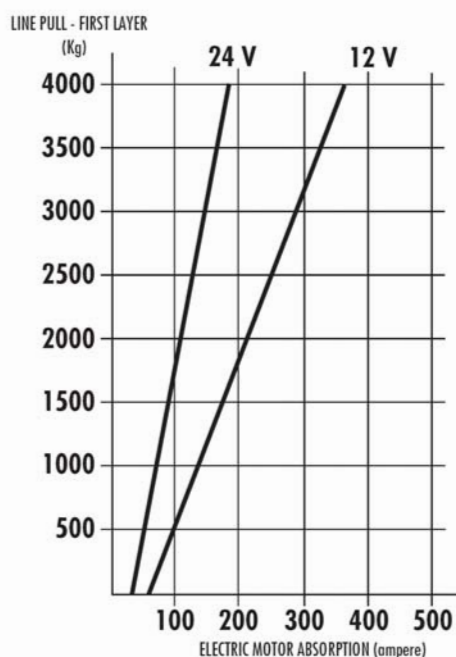
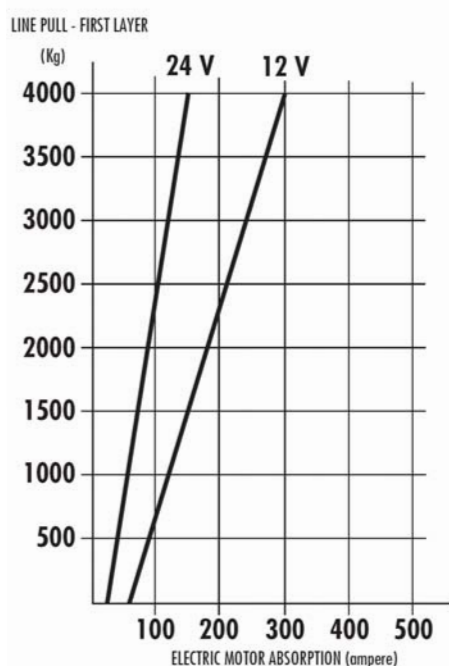
Technical data

MODEL - RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE	
	mm.		kg			m		m	
						10 mm.	11 mm.	10 mm.	11 mm.
JE 3.000 - 1 : 470	11	1	3000	SHORT JEC	42	25	20	30	27
		2	2450						
		3	2060						
		4	1780						
		5	1580						
JE 2.300 - 1 : 360	10	1	2300	MEDIUM JEM	44	35	30	42	38
		2	1900						
		3	1620						
		4	1410						
		5	1250						
LONG JEL		1	2300		50	50	50	71	65
		2	1900						
		3	1620						
		4	1410						
		5	1250						

These performance data are based on line pull-first layer.

VOLT	RATIO	NO LOAD		900 kg		1800 kg		2300 kg		3000 kg	
		SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.
12	1 : 360	5.2	70	2.8	140	2.1	200	1.8	225	—	—
	1 : 470	4.5	65	2.4	110	1.9	180	1.5	205	1.2	260
24	1 : 360	5.2	35	2.8	70	2.1	100	1.8	125	—	—
	1 : 470	4.5	30	2.4	50	1.9	90	1.5	115	1.2	130

Performance charts at the 1° layer



Electric Winch JE 3.600 - 2.700 Electric worm gear and spur gear winch

Technical data

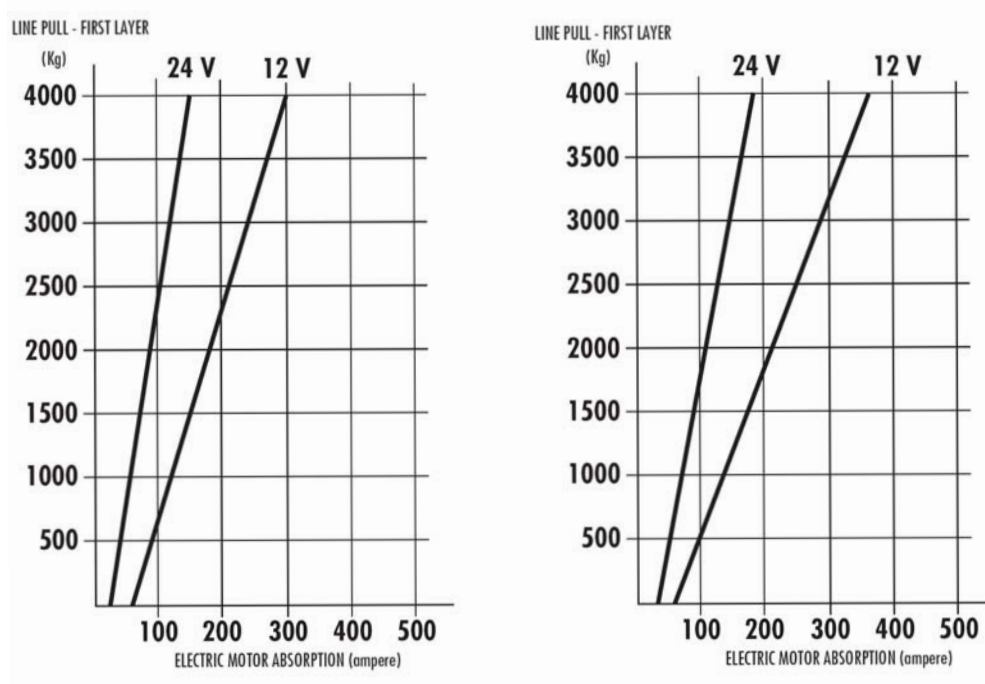
MODEL - RATIO	WIRE ROPE SIZE mm.	LAYER	LINE PULL	
			kg	
JE 3.600 - 1 : 470	10	1	3600	
		2	2970	
		3	2550	
		4	2230	
		5	1980	
JE 2.700 - 1 : 360	8	1	2700	
		2	2300	
		3	2000	
		4	1800	
		5	1630	

DRUM		WEIGHT WITHOUT CABLE kg	WIRE ROPE CAPACITY m		MAX. WIRE ROPE m	
			8 mm.	10 mm.	8 mm.	10 mm.
SHORT	JEC	42	30	20	38	25
MEDIUM	JEM	44	40	28	48	32
LONG	JEL	50	50	40	85	55

These performance data are based on line pull-first layer.

VOLT	RATIO	NO LOAD		900 kg		1800 kg		2700 kg		3600 kg	
		SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.
12	1 : 360	5.2	70	2.8	140	2.1	200	1.4	270	1.2	330
	1 : 470	4.5	65	2.4	110	1.9	180	1.2	220	1.1	280
24	1 : 360	5.2	35	2.8	70	2.1	100	1.4	135	1.2	165
	1 : 470	4.5	30	2.4	50	1.9	90	1.2	110	1.1	140

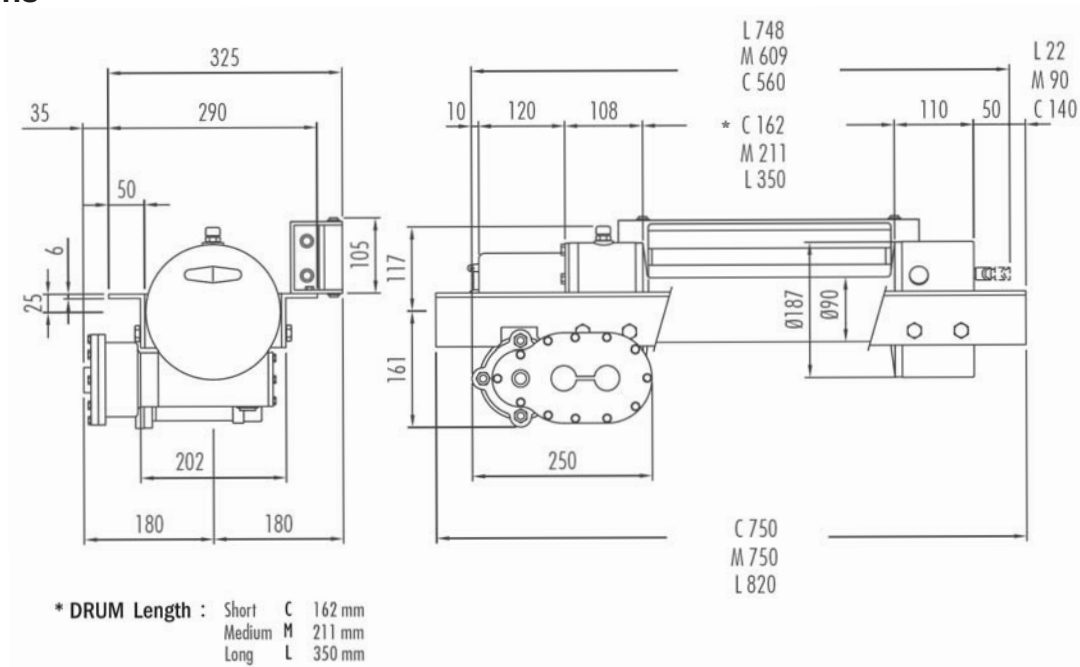
Performance charts at the 1° layer



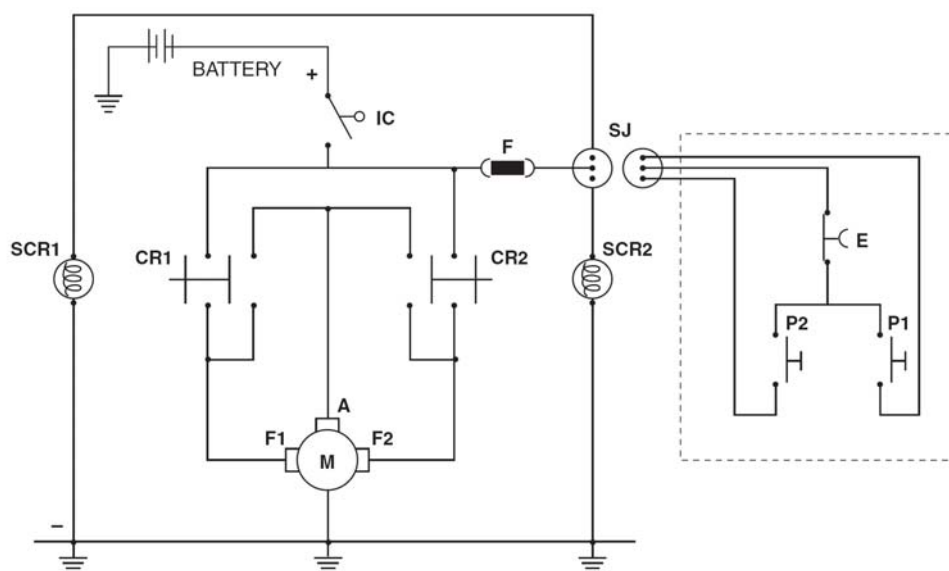
Electric Winch JE 3.000 - 2.300
JE 3.600 - 2.700

Electric worm gear and spur gear winch

Dimensions



Electric wiring diagram



IC = BATTERY MAIN SWITCH
CR1 = SOLENOID
1CR2 = SOLENOID 2
M = ELECTRIC MOTOR
E = SAFETY STOP BUTTON

P1-P2 = "WINDING/UNWINDING" BUTTONS
SCR1 = SOLENOID COIL CR1
SCR2 = SOLENOID COIL CR2
F = FUSIBLE PLUG 15A
SJ = SELF-LOCKING PLUG

Electric Winch ZE 4.000

Electric worm gear and spur gear winch

GEAR TRAIN

Worm-gear drive train
in oil bath

HANDLE REMOTE CONTROL

Handle remote control with 4 meters cable
with red safety button to comply with CE

SPUR GEAR

Spur gear train
completely lubricated

ROLLER FAIRLEAD

Galvanized Roller Fairlead

ELECTRIC MOTOR

Electric motor
12v and 24 V DC

MOUNTING BASE PLATE

SPECIFICATIONS

- Rated line pull : **4.000 kg**
- Electric motor d.c. : **12 V d.c. / 24 V d.c.**
- Worm and gear train with spur gear reduction.
- Manual clutch shifter
- (CE) Industrial remote control includes cable (4 m. long).
- Weight without cable : • for model ZEC (short) = **40,5 kg**
• for model ZEL (long) = **44,5 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Electric Winch ZE 4.000

Electric worm gear and spur gear winch

Technical data

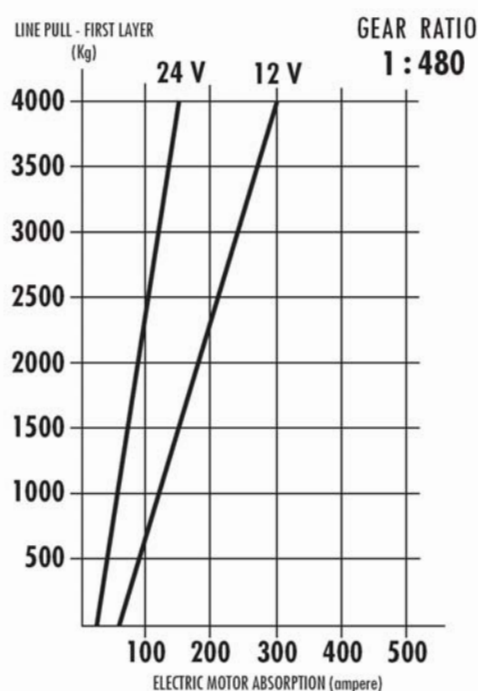
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:480	10	1	4000
		2	3560
		3	2930
		4	2490

DRUM		WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE	
			m		m	
		kg	8 mm.	10 mm.	8 mm.	10 mm.
SHORT	ZEC	40.5	25	18	28	21
LONG	ZEL	44.5	35	30	40	35

These performance data are
based on line pull-first layer.

VOLT	RATIO	NO LOAD		900 kg		1800 kg		2700 kg		3600 kg		4000 kg	
		SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.	SPEED m/min.	AMP.
12													
	1:480	4.5	65	2.4	110	1.9	180	1.2	220	1.1	280	0.6	300
24													
	1:480	4.5	30	2.4	50	1.9	90	1.2	110	1.1	140	0.6	150

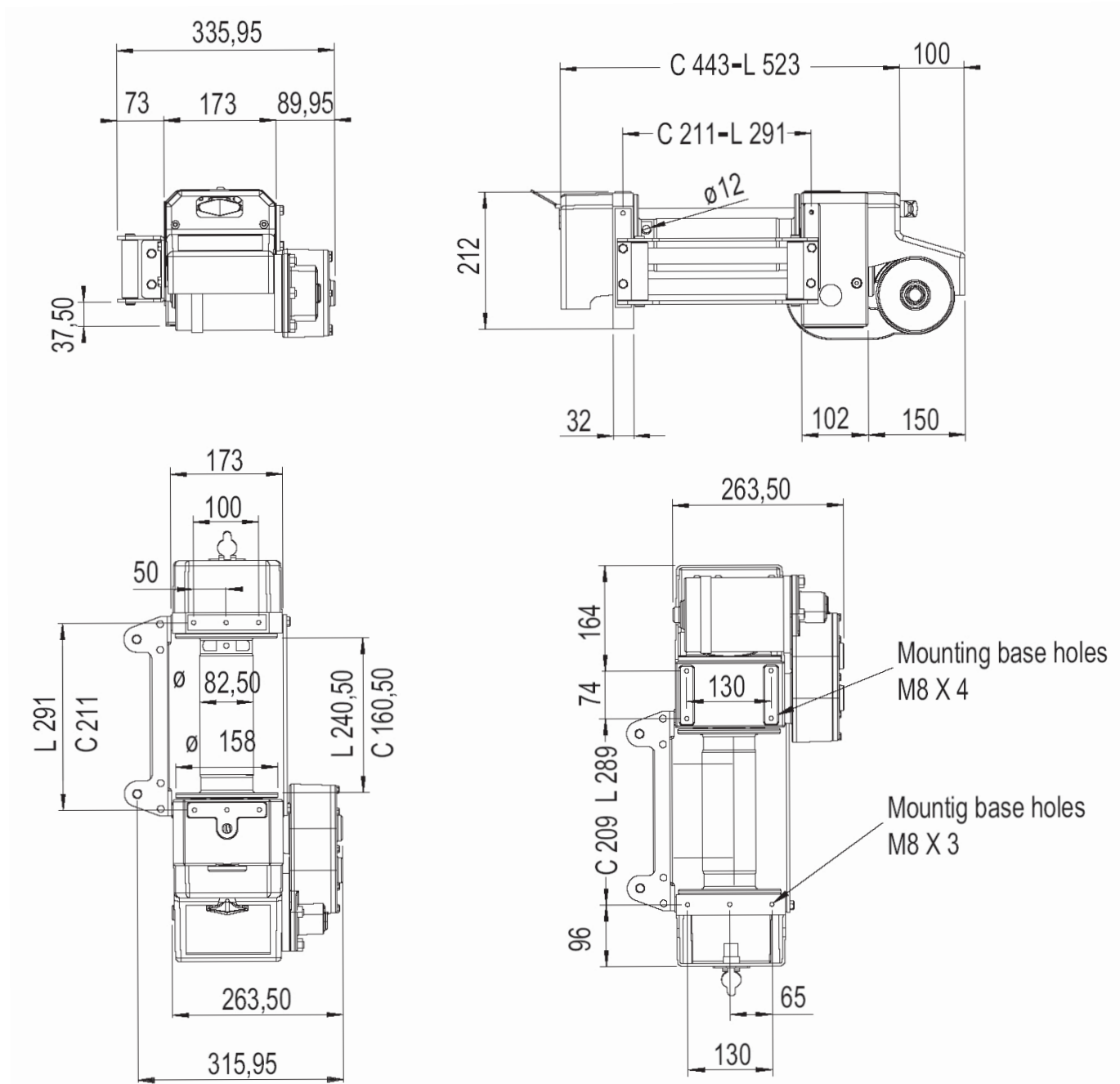
Performance charts at the 1° layer



Electric Winch ZE 4.000

Electric worm gear and spur gear winch

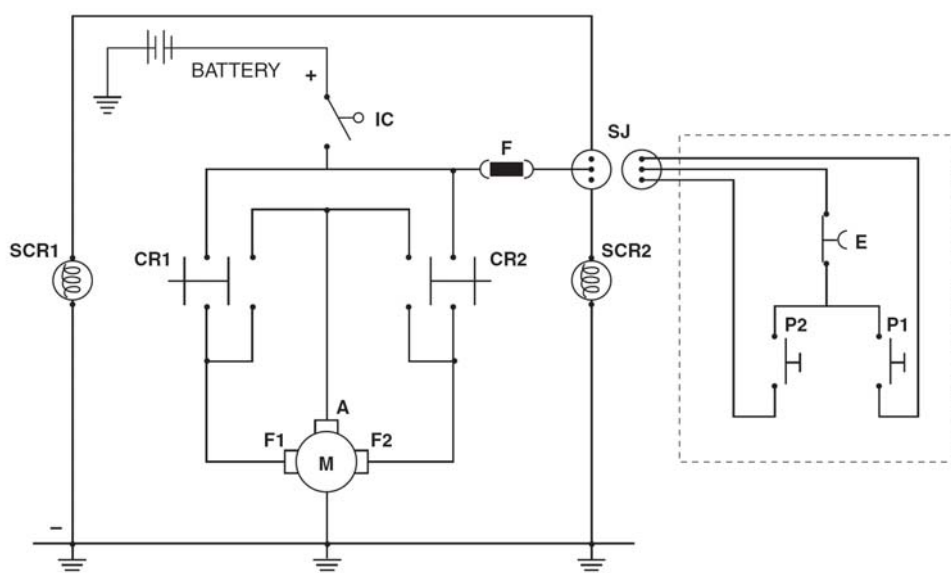
Dimensions



Electric Winch ZE 4.000

Electric worm gear and spur gear winch

Electric wiring diagram



IC = BATTERY MAIN SWITCH

CR1 = SOLENOID

1CR2 = SOLENOID 2

M = ELECTRIC MOTOR

E = SAFETY STOP BUTTON

P1-P2 = "WINDING/UNWINDING" BUTTONS

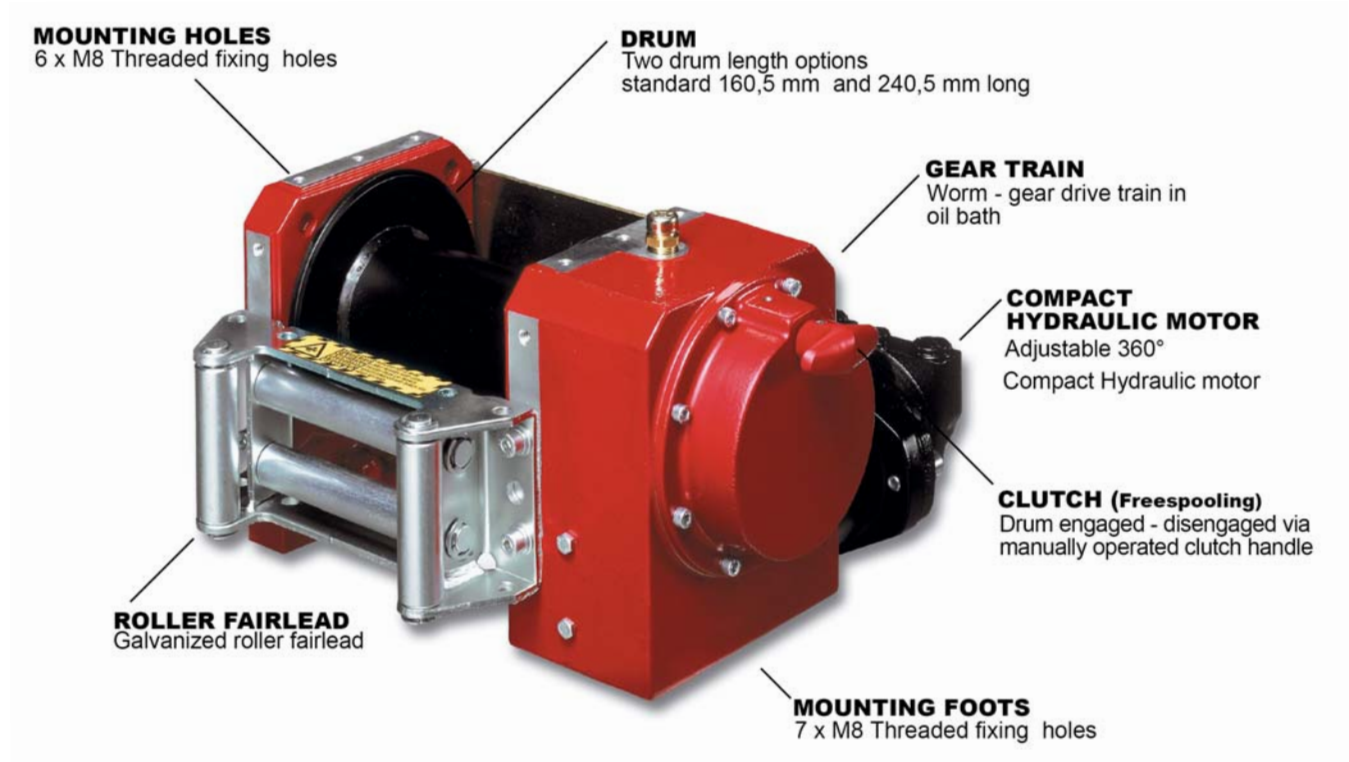
SCR1 = SOLENOID COIL CR1

SCR2 = SOLENOID COIL CR2

F = FUSIBLE PLUG 15A

SJ = SELF-LOCKING PLUG

Hydraulic Winch ZH 3.000 - ZH 2.200 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model ZH 2.200 = **2.200 kg**
 - for model ZH 3.000 = **3.000 kg**
- Hydraulic orbit motor
- Working pressure : = 130 bar
- Worm gear .
- Weight without cable
 - Short model ZH = **26 kg**
 - Long model ZH / L = **29 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch ZH 3.000 - ZH 2.200 Hydraulic worm gear winch

Technical data

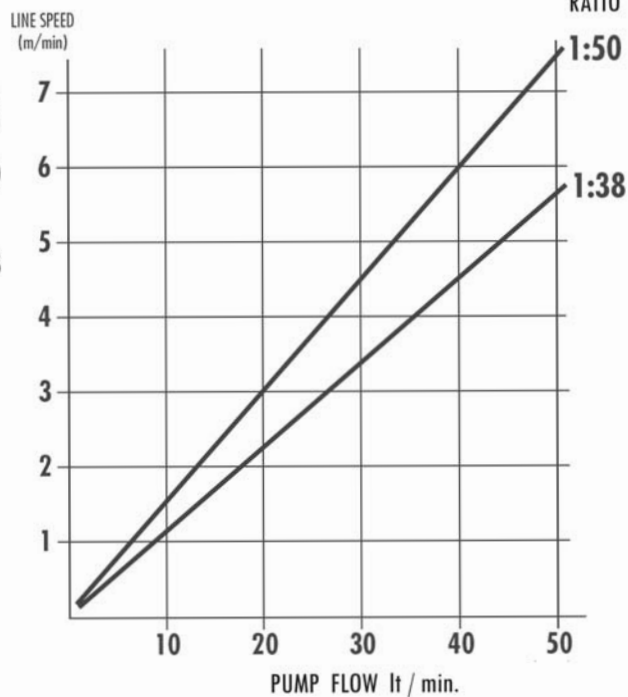
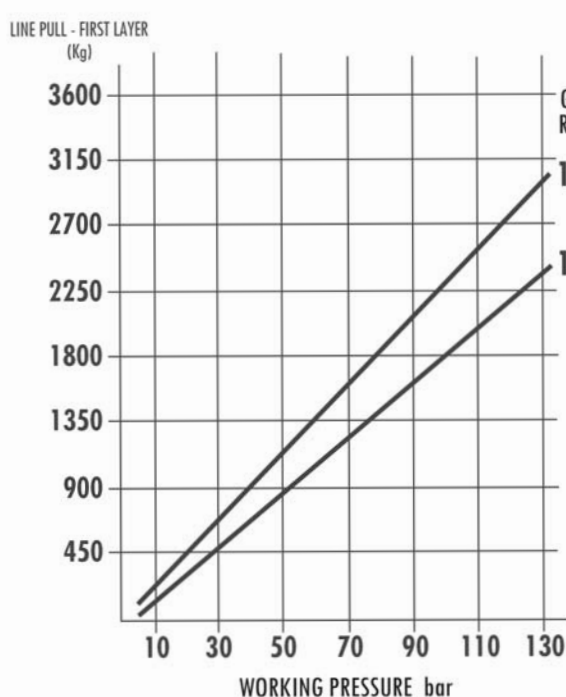
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:38	8	1	2200
		2	1860
		3	1620
		4	1435
		5	-
1:50	10	1	3000
		2	2460
		3	2090
		4	1820
		-	-

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.					
		LAYERS					
		1°	2°	3°	4°	5°	
20	10.5	2.98	3.51	4.03	4.57	-	
30	15.8	4.48	5.28	6.07	6.87	-	
40	21.0	5.96	7.02	8.07	9.13	-	

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.					
		LAYERS					
		1°	2°	3°	4°	5°	
20	8.2	2.38	2.89	3.41	3.93	-	
30	12.4	3.60	4.38	5.16	5.94	-	
40	16.5	4.79	5.82	6.87	7.90	-	

DRUM		WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
		kg	8 mm.	10 mm.	8 mm.	10 mm.
STANDARD	ZH	26	25	18	28	21
LONG	ZH/L	29	40	24	50	30

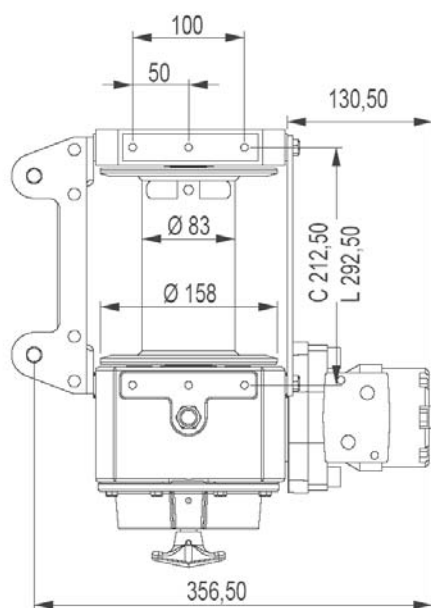
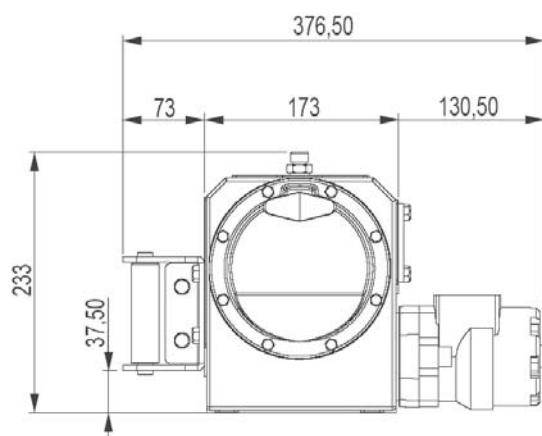
Performance charts at the 1° layer



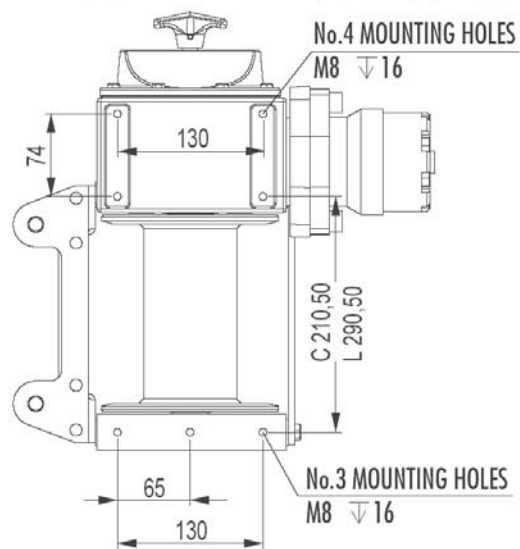
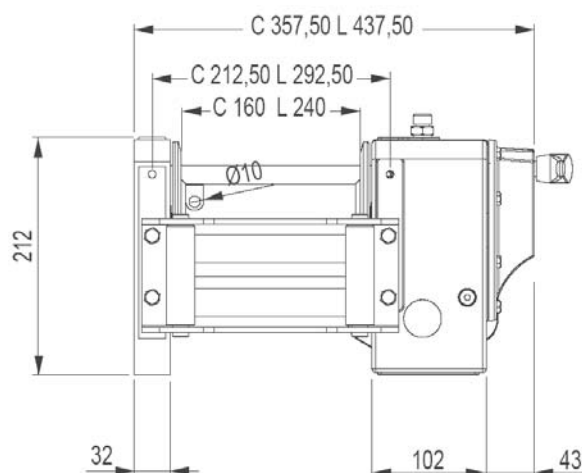
Hydraulic Winch ZH 3.000 - ZH 2.200 (compact hydraulic motor) Hydraulic worm gear winch

Dimensions

MANUAL CLUTCH SHIFTER



TOP VIEW



BOTTOM VIEW

DRUM DIMENSIONS

ZHC = Short	160 mm
ZHL = Long	240 mm

Hydraulic Winch ZH 3.000 - ZH 2.200 Hydraulic worm gear winch

⚠ IMPORTANT

It is most important that this winch be mounted securely so that the motor end, the cable drum and the gear housing end are properly aligned.

Disassemble the first tie plate (at least one tie plate must remain mounted to maintain alignment) and attached it to the mounting feet at the bottom of the winch to maintain the alignment.

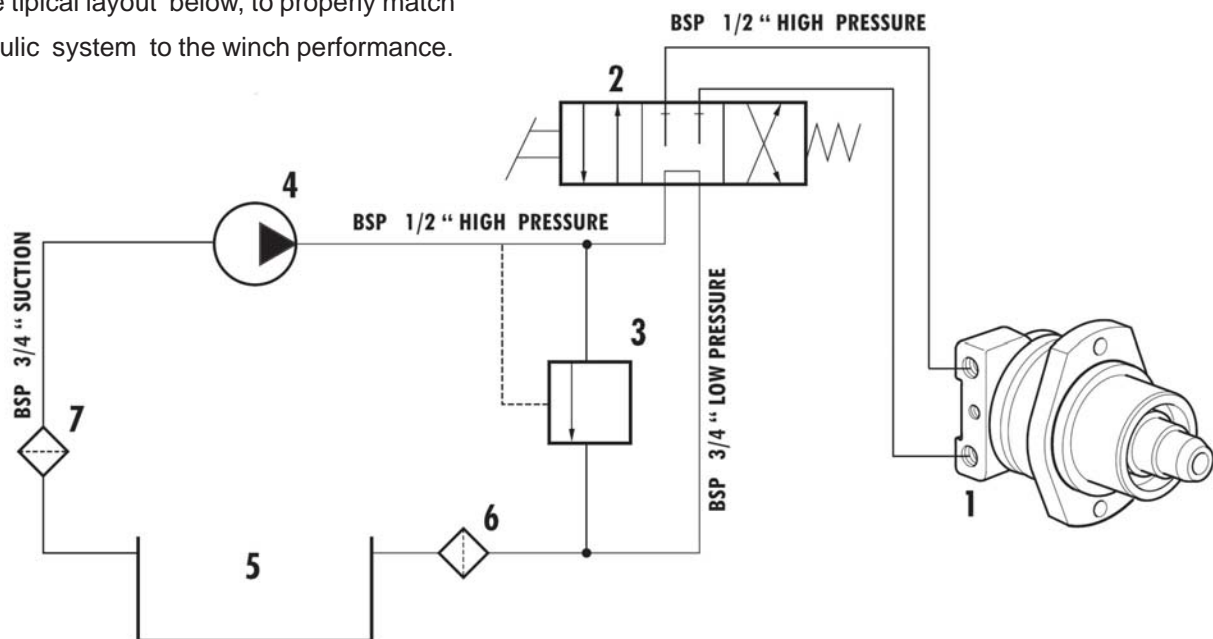
Then disassemble the second tie plate. It is always desirable to use both tie plates in the final installed configuration. At the end check if alignment is still maintained.

⚠ IMPORTANT

Excessive bushing wear and difficulty in freespooling are usually symptoms of misalignment.

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

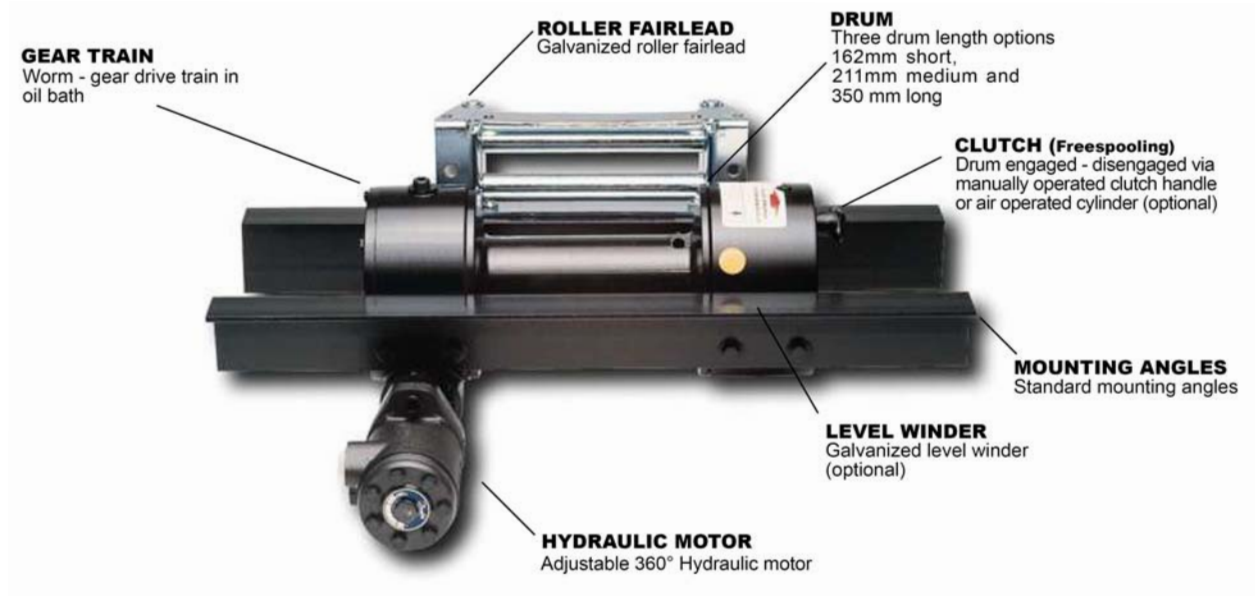
- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

⚠ WARNING :
Before operating check the oil level and add if necessary.

⚠ WARNING :
Do not exceed 40 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch JH 3.600 - 2.700

Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model JH 3.600 = **3.600 kg**
 - for model JH 2.700 = **2.700 kg**
- Hydraulic orbit motor
- Working pressure = **130 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Weight without cable :
 - for model JHC (short) = **30 kg**
 - for model JHM (medium) = **35kg**
 - for model JHL (long) = **45 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch JH 3.600 - 2.700 Hydraulic worm gear winch

Technical data

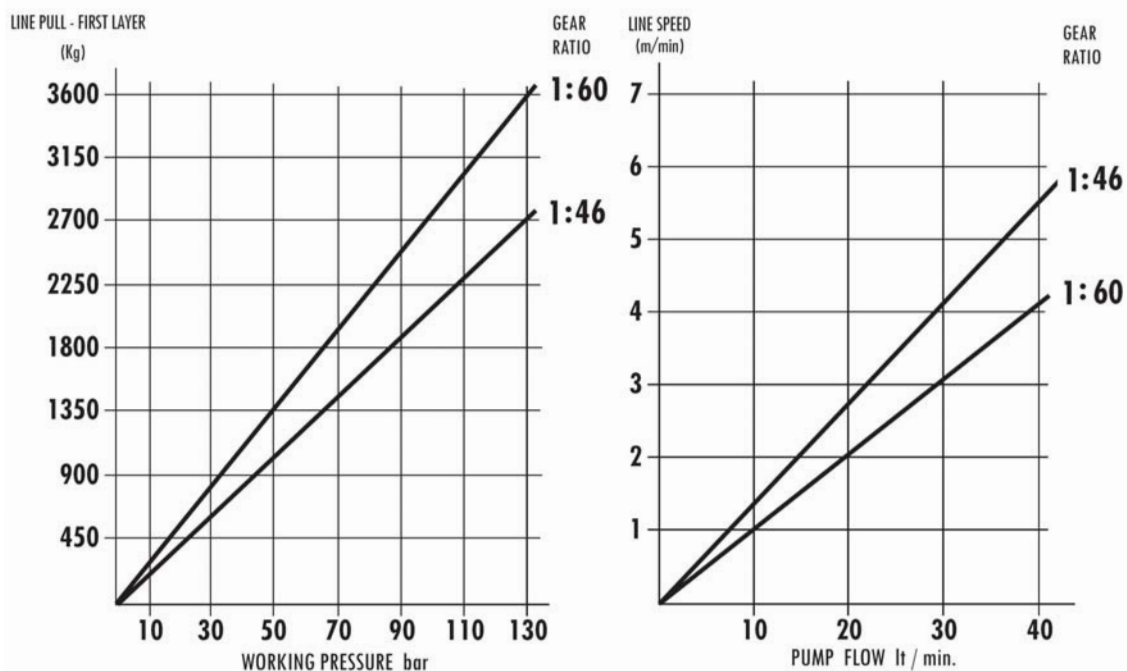
MODEL - RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	
	mm.		kg	
JH 2.700 - 1 : 46	8	1	2700	
		2	2300	
		3	2000	
		4	1780	
		5	1600	
JH 3.600 - 1 : 60	10	1	3600	
		2	2950	
		3	2500	
		4	2200	
		5	1950	

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
20	9	2.7	3.1	3.6	4.1	4.5
30	14	4.2	4.9	5.6	6.3	7.0
40	18	5.4	6.3	7.2	8.1	9.0

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
20	7	2.1	2.6	3.0	3.5	3.9
30	11	3.3	4.0	4.7	5.4	6.1
40	14	4.2	5.1	6.0	6.9	7.7

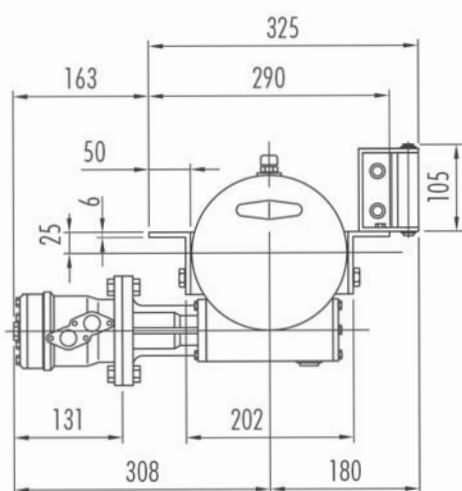
MODEL JH	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	kg	8 mm.	10 mm.	8 mm.	10 mm.
JHC (short drum)	30	30	20	38	25
JHM (medium drum)	35	40	28	48	32
JHL (long drum)	45	50	40	85	55

Performance charts at the 1° layer



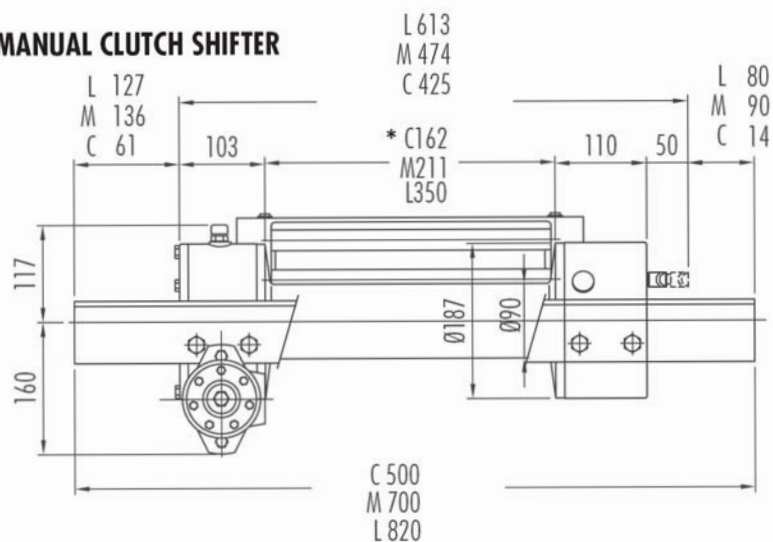
Hydraulic Winch JH 3.600 - 2.700 Hydraulic worm gear winch

Dimensions

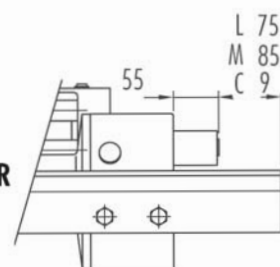


* DRUM Length : Short C 162 mm
Medium M 211 mm
Long L 350 mm

MANUAL CLUTCH SHIFTER



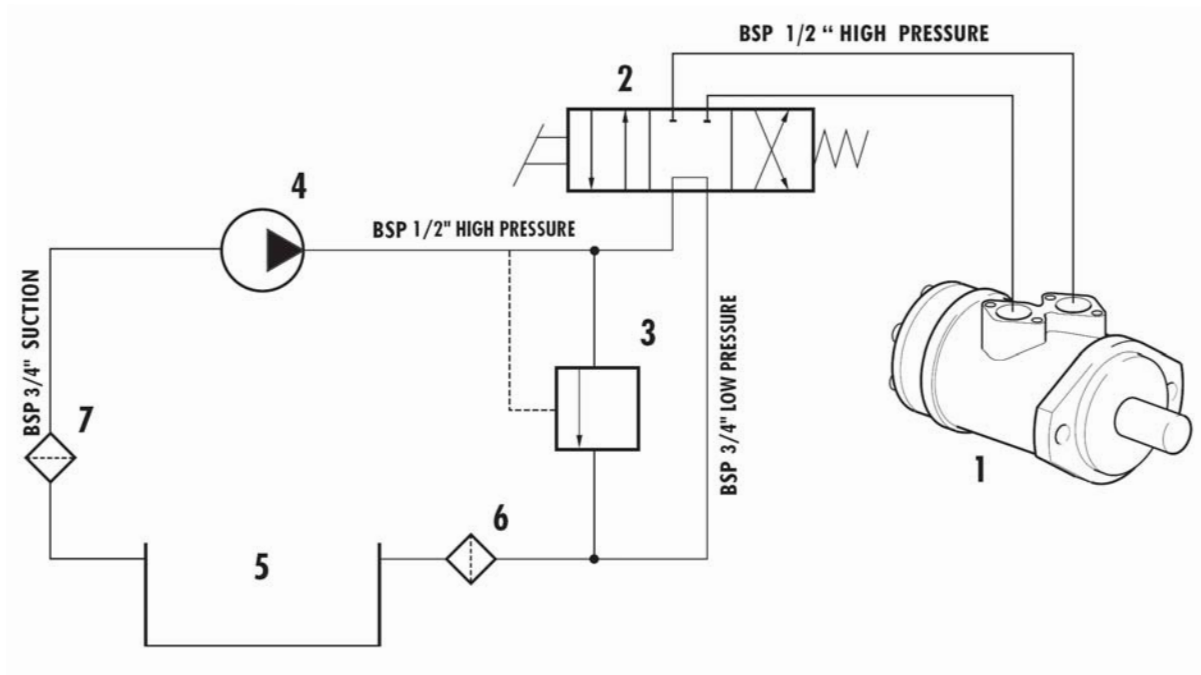
AIR-CYLINDER CLUTCH SHIFTER



Hydraulic Winch JH 3.600 - 2.700 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER



WARNING :

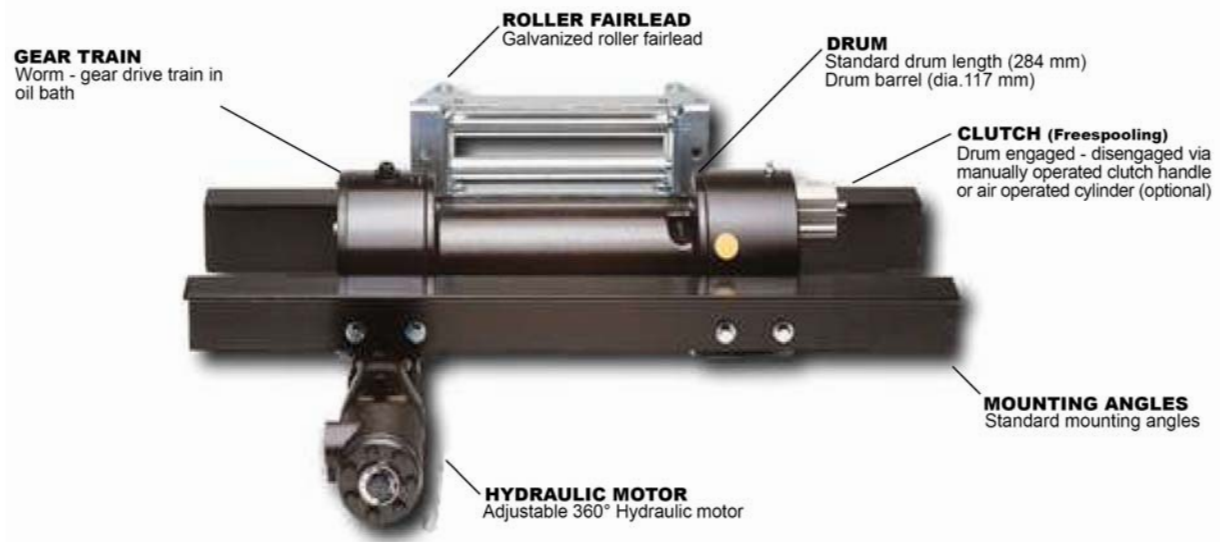
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 40 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch JHD 2.300 - 2.000 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model JHD 2.300 = **2.300 kg**
 - for model JHD 2.000 = **2.000 kg**
- Hydraulic orbit motor
- Working pressure = **120 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Weight without cable = **39 kg**



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch JHD 2.300 - 2.000 Hydraulic worm gear winch

Technical data

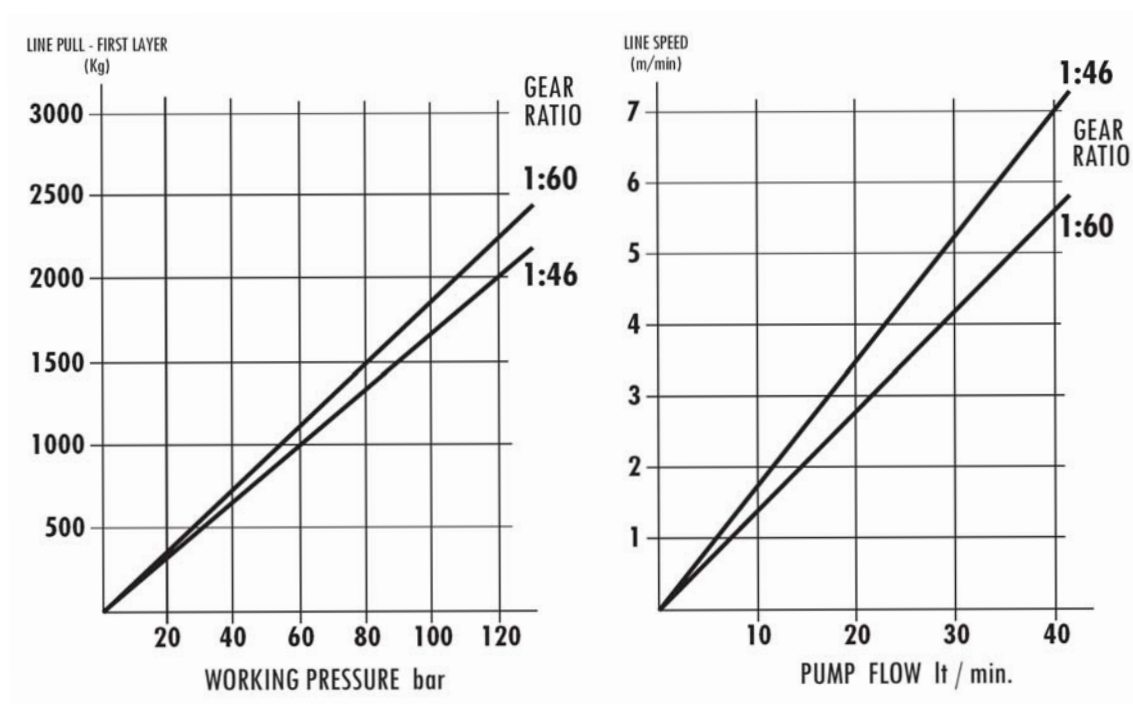
MODEL - RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
JHD 2.000 - 1 : 46	9	1	2.000
		2	1.740
		3	1.540
		4	1.380
		5	—
JHD 2.300 - 1 : 60	10	1	2.300
		2	2.000
		3	1.750
		4	1.550
		5	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
20	9	3,5	4,0	4,5	5,0	—
30	14	5,4	6,2	7,0	7,2	—
40	18	6,9	7,9	8,9	10,0	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
20	7	2,7	3,2	3,6	4,0	—
30	11	4,3	4,9	5,6	6,3	—
40	14	5,4	6,3	7,2	8,0	—

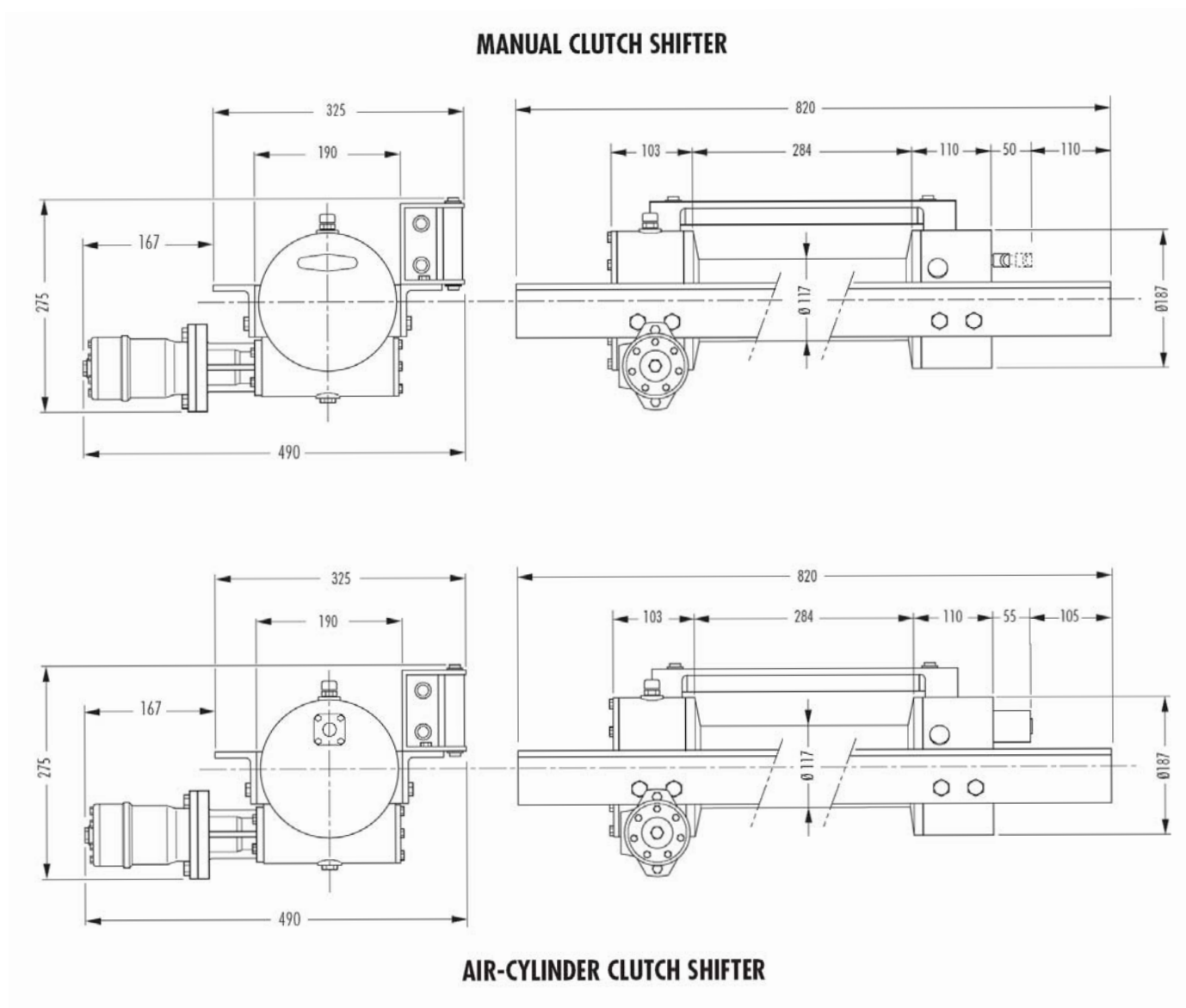
WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	10 mm	9 mm.	10 mm	9 mm.
kg				
39	30	35	50	55

Performance charts at the 1° layer



Hydraulic Winch JHD 2.300 - 2.000 Hydraulic worm gear winch

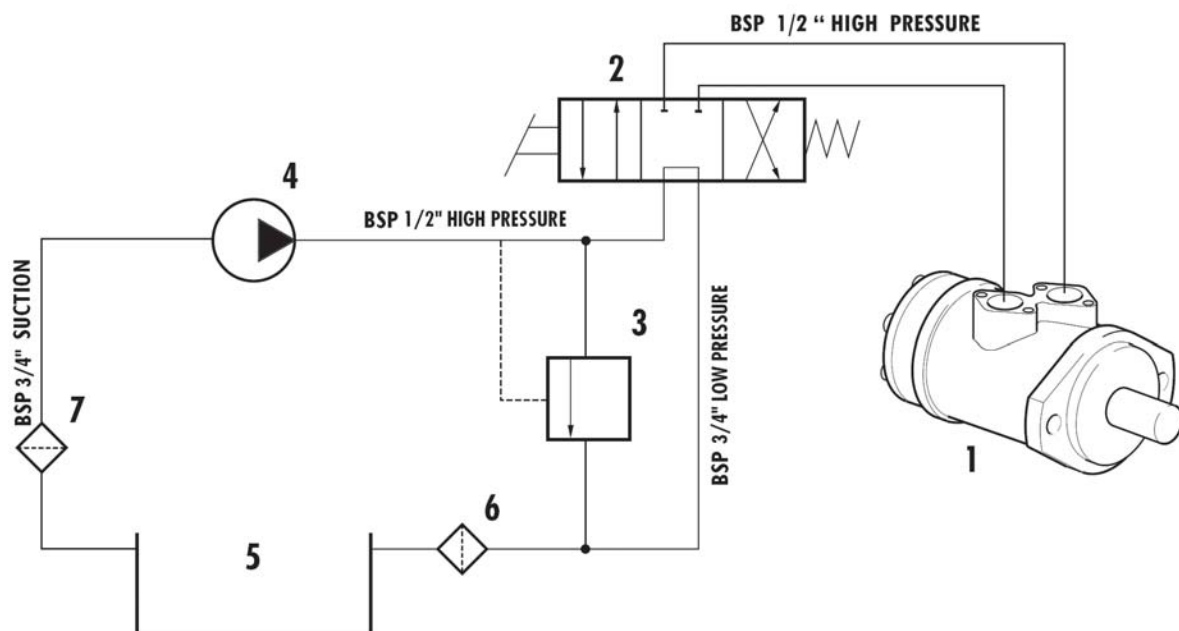
Dimensions



Hydraulic Winch JHD 2.300 - 2.000 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER



WARNING :

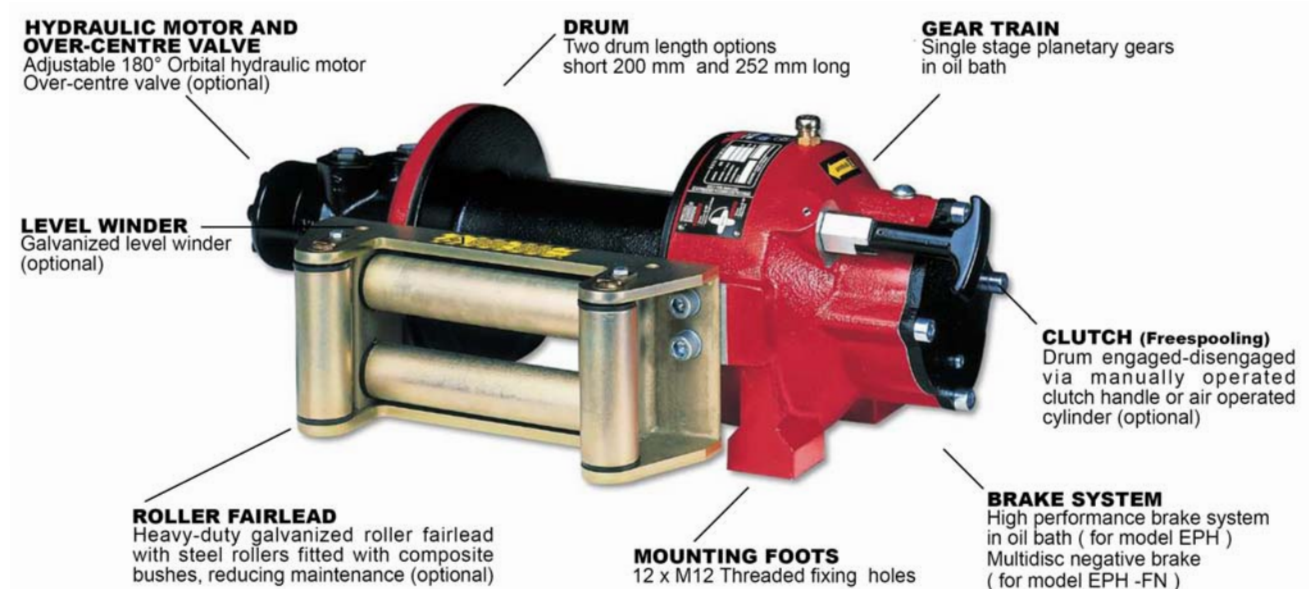
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 40 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 3.600 - EPH 3.600 FN Hydraulic planetary gear winch



SPECIFICATIONS

- Rated line pull (1° layer) • **3.600 kg**
- Hydraulic orbit motor
- Working pressure with over-centre valve (optional) = **160 bar**
- Automatic safety brake (oil bath - no needs adjusting) (for model **EPH**)
- Multidisc negative brake (for model **EPH FN**)
- Hardened steel one stage planetary gear train .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Pressure line for clutch shifter air-cylinder (on request) = **6 bar**
- Weight without cable :

EPH	=	39 kg
EPH / L	=	44 kg
EPH FN	=	49 kg
EPH FN / L	=	50 kg



· DANGER:

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 3.600 - EPH 3.600 FN Hydraulic planetary gear winch

Technical data

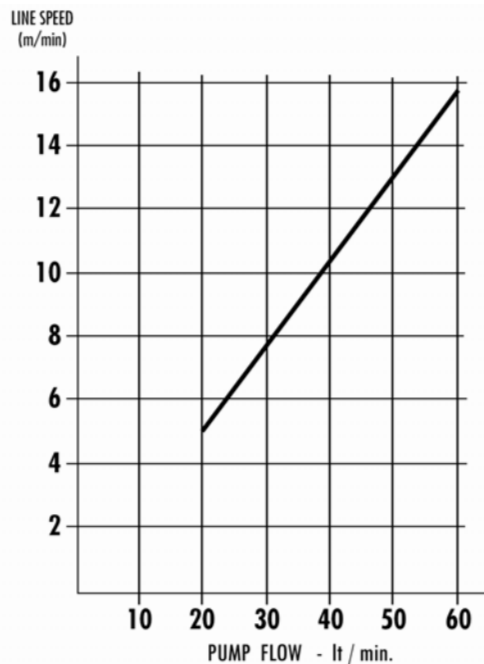
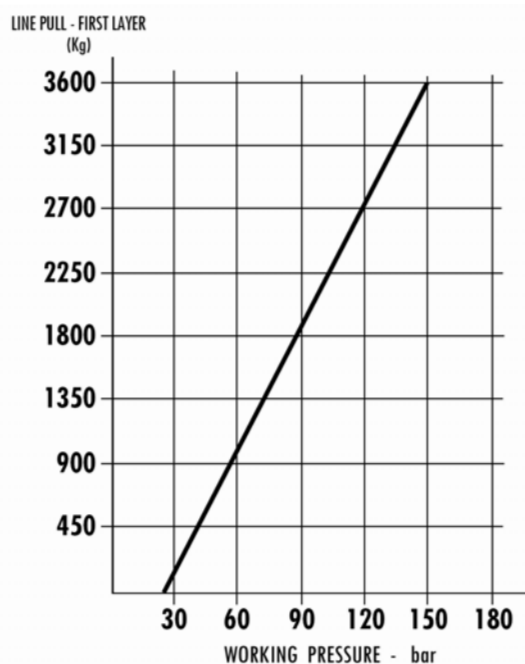
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 5,3	10	1	3600
		2	3050
		3	2650
		4	2350
		5	2100
1 : 5,3	12 DIN 15020	1	3600
		2	2970
		3	2530
		4	2200
		5	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
		LAYERS					
lt / min.	n / min.	1°	2°	3°	4°	5°	
40	30.56	10.74	12.66	14.58	16.50	18.42	
50	38.67	13.59	16.02	18.45	20.88	23.31	
60	47.16	16.58	19.54	22.50	25.47	28.43	

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
		LAYERS					
lt / min.	n / min.	1°	2°	3°	4°	5°	
40	30.56	10.93	13.24	15.54	17.84	—	
50	38.67	13.84	16.75	19.67	22.58	—	
60	47.16	16.88	20.43	23.98	27.54	—	

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	kg	10 mm.	12 mm	10 mm.	12 mm
EPH	39	35	25	45	30
EPH/L LONG	44	45	30	55	35

Performance charts at the 1° layer

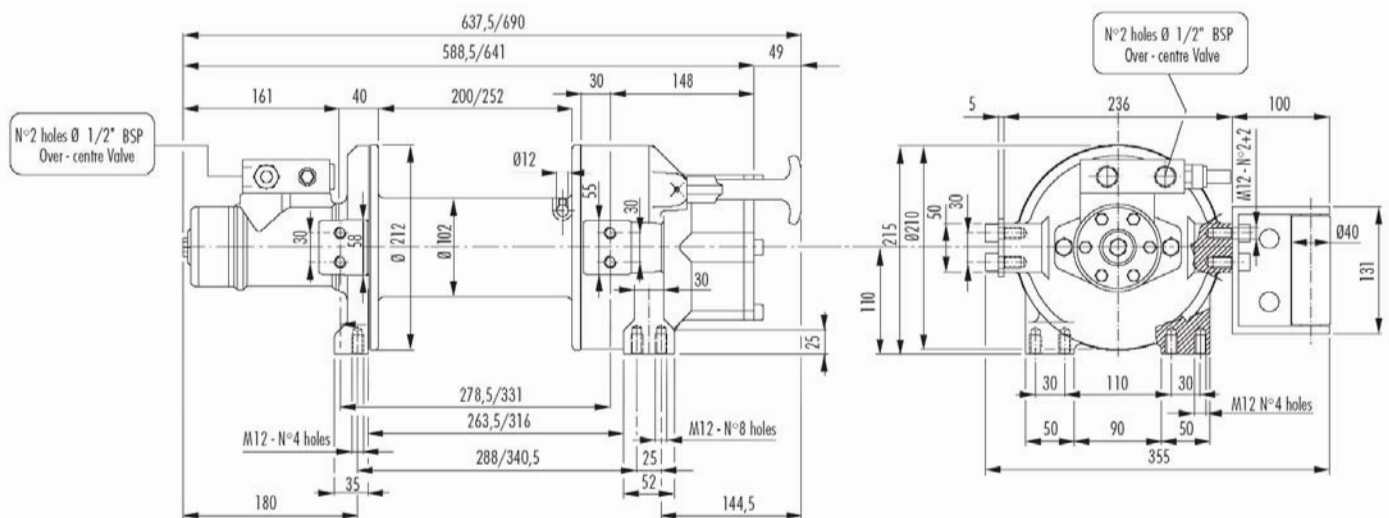


Hydraulic Winch EPH 3.600

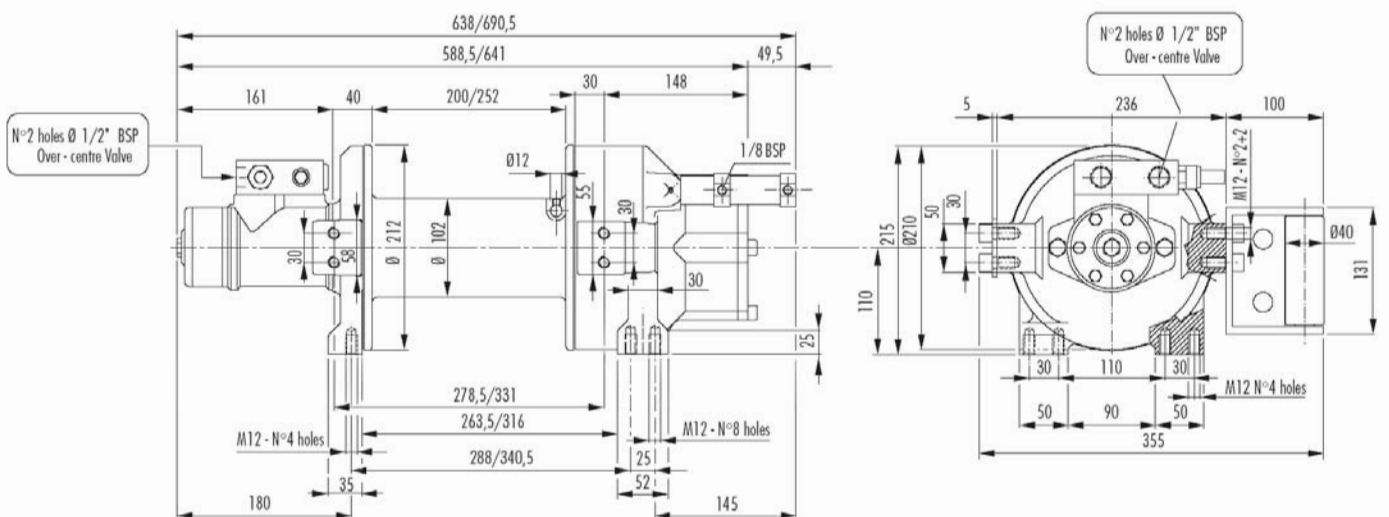
Hydraulic planetary gear winch

Dimensions

MANUAL CLUTCH SHIFTER



DRUM DIMENSION	EPH	200 mm
	EPH/L	252 mm

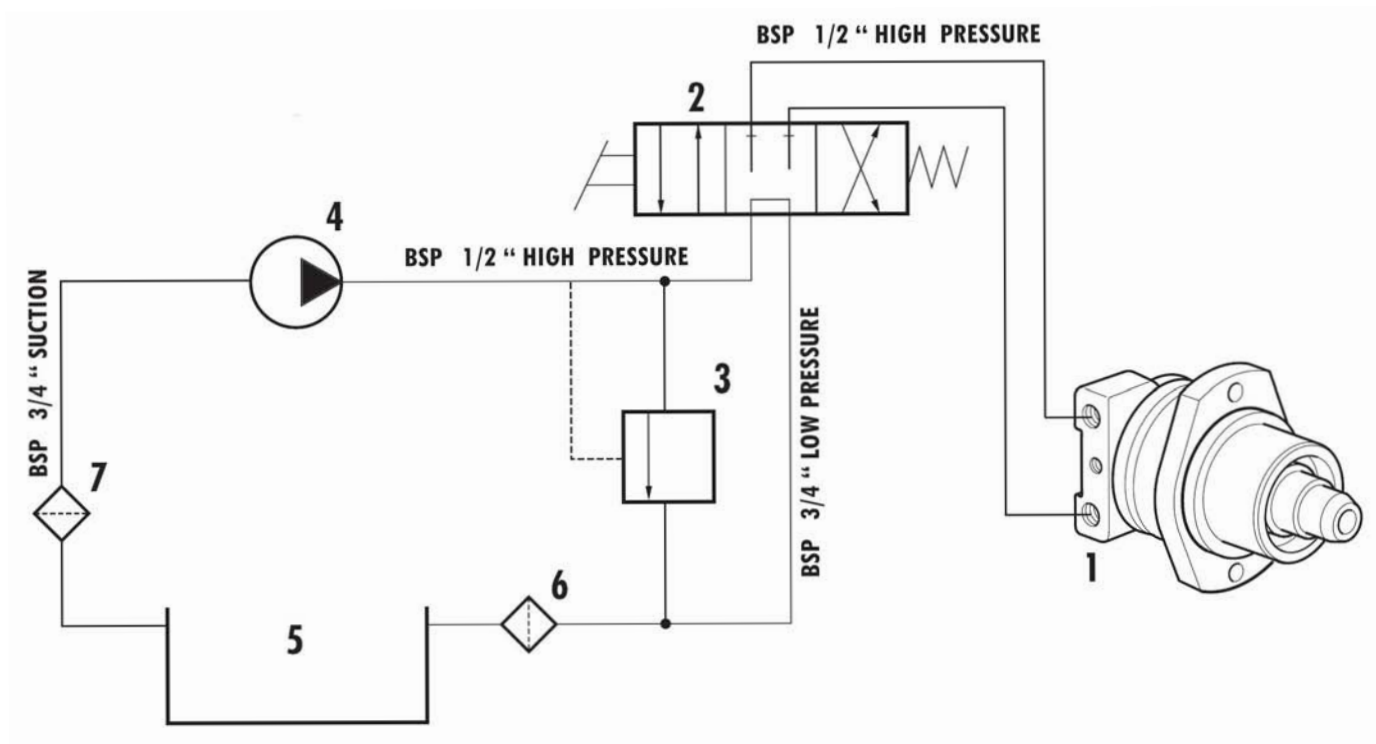


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 3.600 Hydraulic planetary gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- | | |
|------------------------------------|--|
| 1 = HYDRAULIC ORBIT MOTOR | 5 = HYDRAULIC PUMP |
| 2 = OVER-CENTRE VALVE (optional) | 6 = FLUID RESERVOIR |
| 3 = DIRECTIONAL CONTROL VALVE | 7 = RETURN FLUID FILTER (10 microns) |
| 4 = RELIEF VALVE | 8 = SUCTION FLUID FILTER |



WARNING :

Before operating check the oil level and add if necessary.



WARNING :

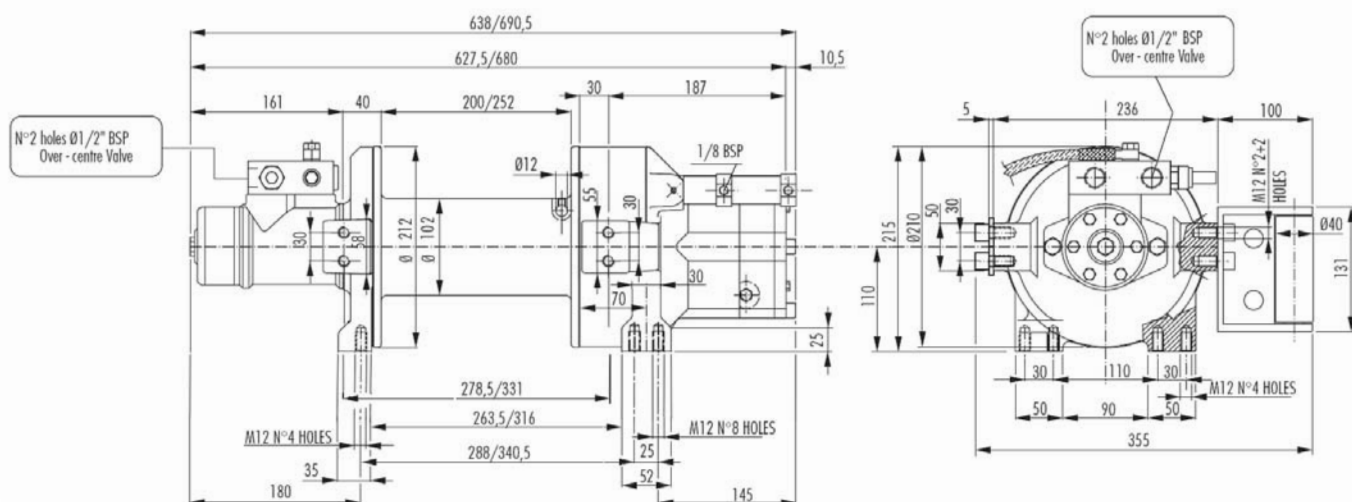
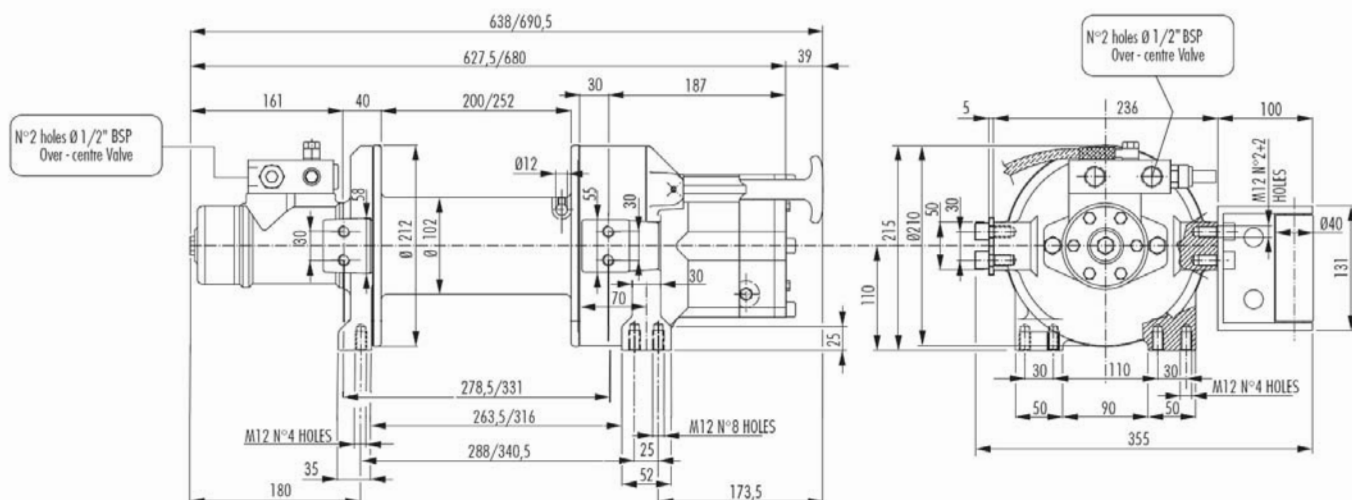
Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 3.600 FN

Hydraulic planetary gear winch with multidisc negative brake

Dimensions

MANUAL CLUTCH SHIFTER



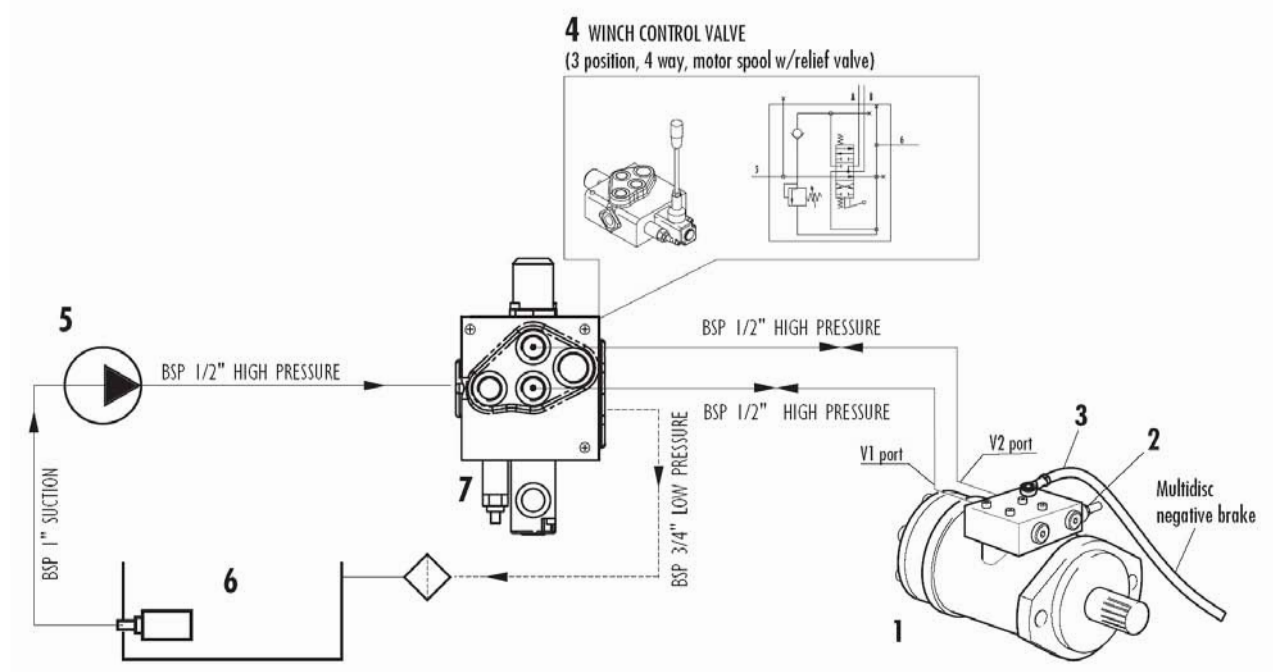
AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 3.600 FN

Hydraulic planetary gear winch with multidisc negative brake

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC MOTOR
- 2 = OVER-CENTRE VALVE
- 3 = HYDRAULIC PIPE TO NEGATIVE BRAKE
- 4 = CONTROL VALVE
- 5 = HYDRAULIC PUMP
- 6 = FLUID RESERVOIR
- 7 = RELIEF VALVE

Technical data:

- Minimum pressure for the brake release = **30 bar**.
- Max. pressure in the return line with stopped winch measured at the control valve exhaust manifold = **5 bar**.



WARNING :

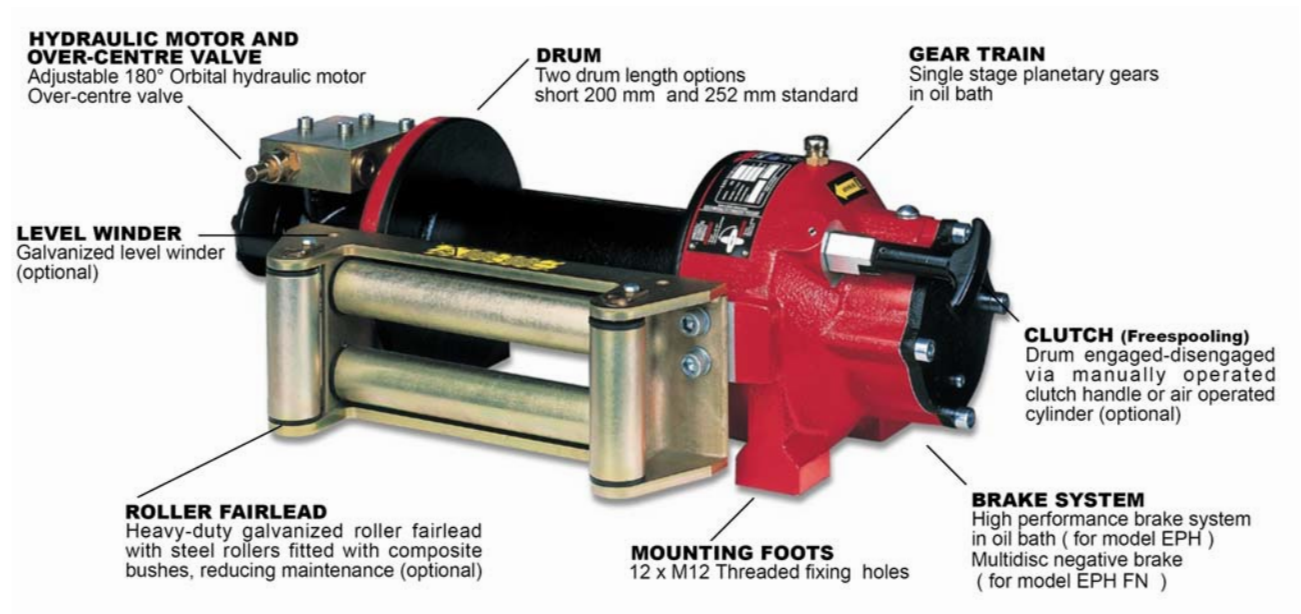
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 4.500 - EPH 4.500 FN Hydraulic planetary gear winch



SPECIFICATIONS

- Rated line pull (1° layer) • **4.500 kg**
- Hydraulic orbit motor
- Working pressure with over-centre valve (optional) = **150 bar**
- Automatic safety brake (oil bath - no needs adjusting) (for model **EPH**)
- Multidisc negative brake (for model **EPH FN**)
- Hardened steel one stage planetary gear train .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Pressure line for clutch shifter air-cylinder (on request) = **6 bar**
- Weight without cable :

EPH/C	= 42,5 kg
EPH	= 47,5 kg
EPH FN /C	= 49 kg
EPH FN	= 50 kg



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 4.500 - EPH 4.500 FN Hydraulic planetary gear winch

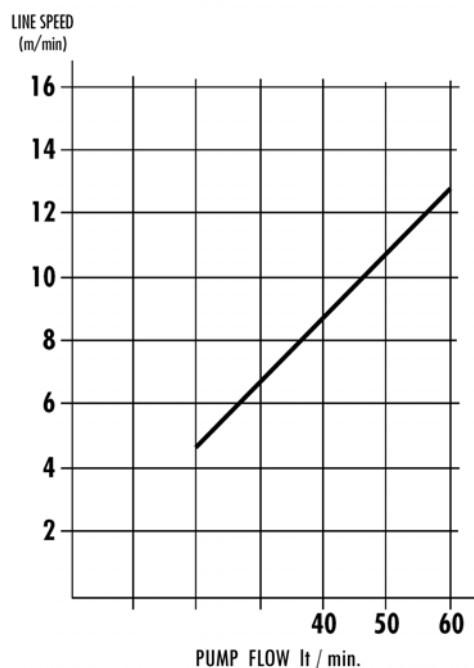
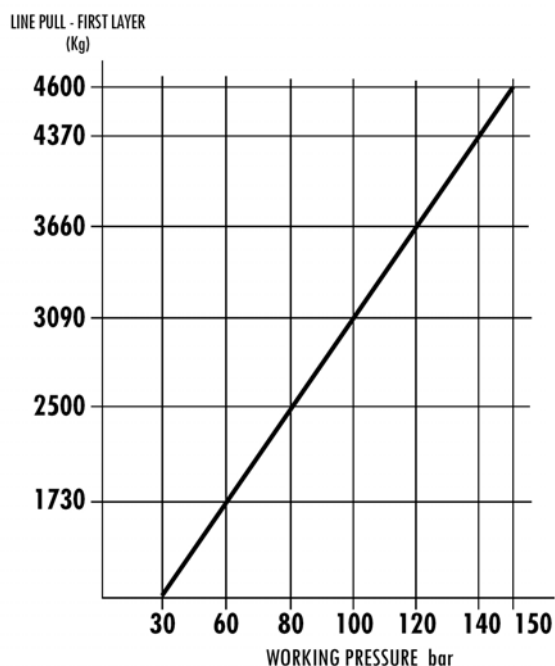
Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 5,3	12	1	4500
		2	3700
		3	3165
		4	2760
		5	-

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
40	24.7	8.8	10.7	12.5	14.4	-
50	31.1	11.1	13.4	15.8	18.1	-
60	37.1	13.3	16.0	18.8	21.6	-

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m	MAX. WIRE ROPE CAPACITY m
	kg	12 mm.	12 mm.
EPH/C SHORT	42.5	25	35
EPH	47.5	30	35

Performance charts at the 1° layer

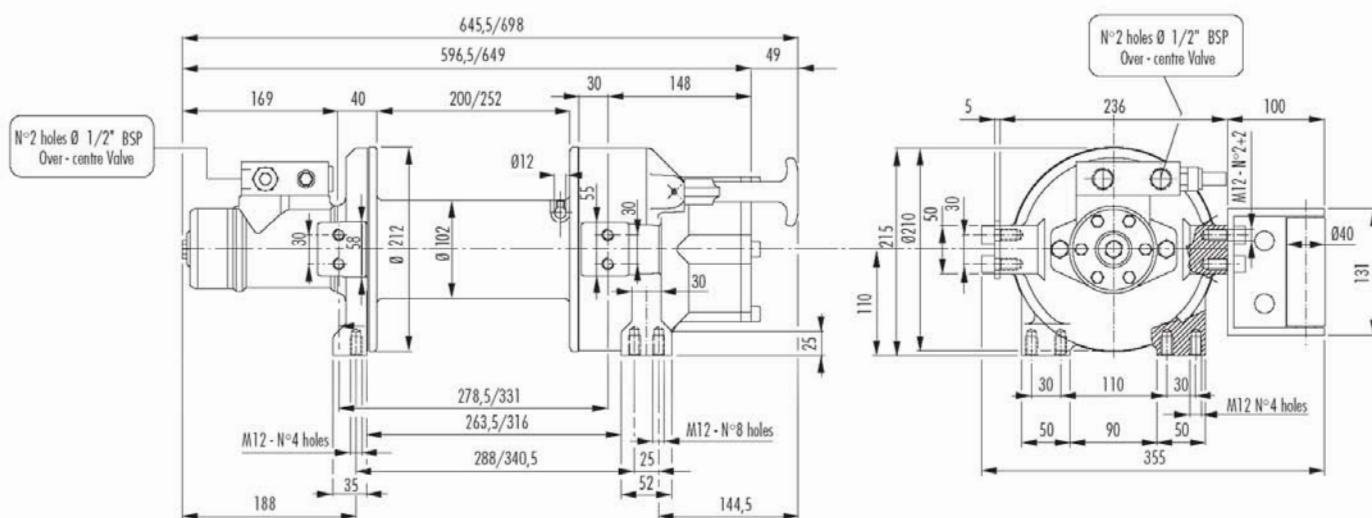


Hydraulic Winch EPH 4.500

Hydraulic planetary gear winch

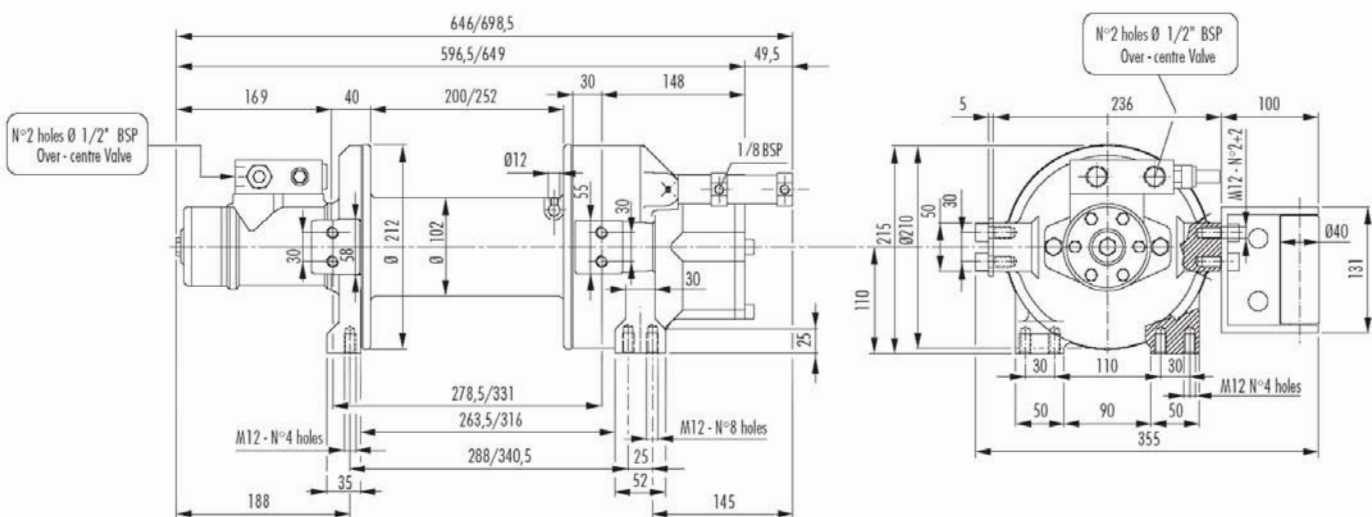
Dimensions

MANUAL CLUTCH SHIFTER



DRUM DIMENSION

EPH	200 mm
EPH/L	252 mm

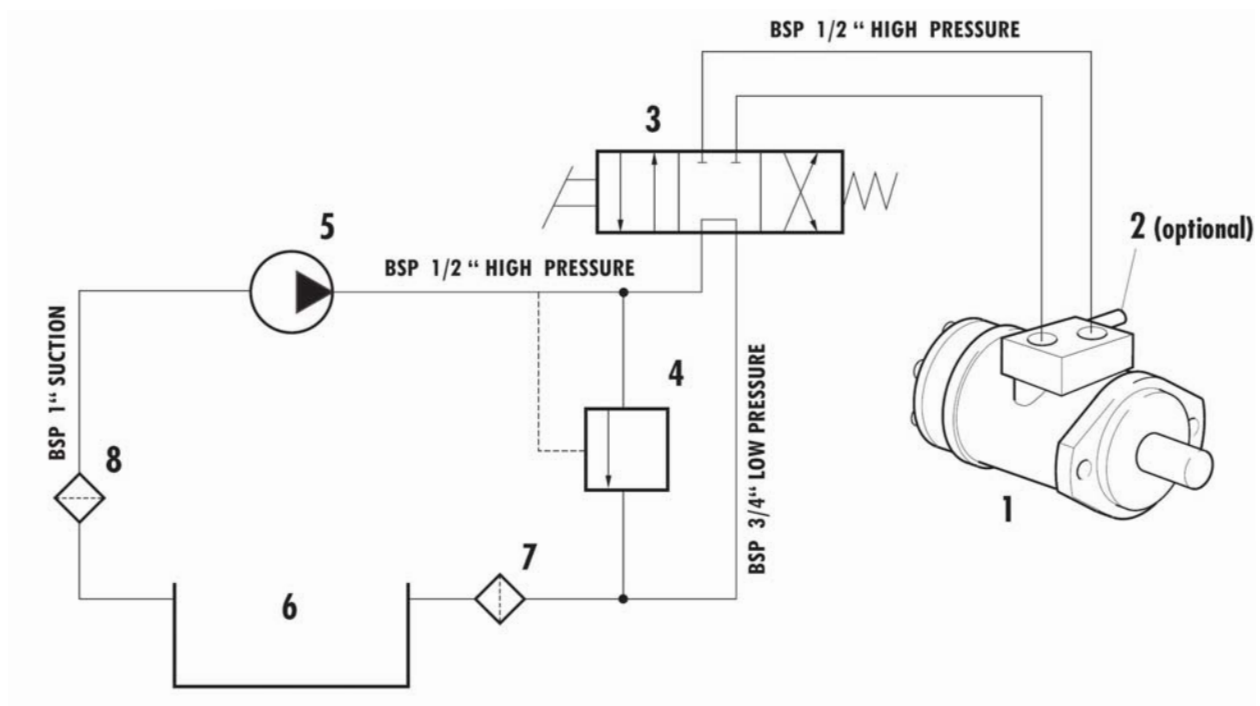


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 4.500 Hydraulic planetary gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = OVER-CENTRE VALVE (optional)
- 3 = DIRECTIONAL CONTROL VALVE
- 4 = RELIEF VALVE

- 5 = HYDRAULIC PUMP
- 6 = FLUID RESERVOIR
- 7 = RETURN FLUID FILTER (10 microns)
- 8 = SUCTION FLUID FILTER



WARNING :

Before operating check the oil level and add if necessary.



WARNING :

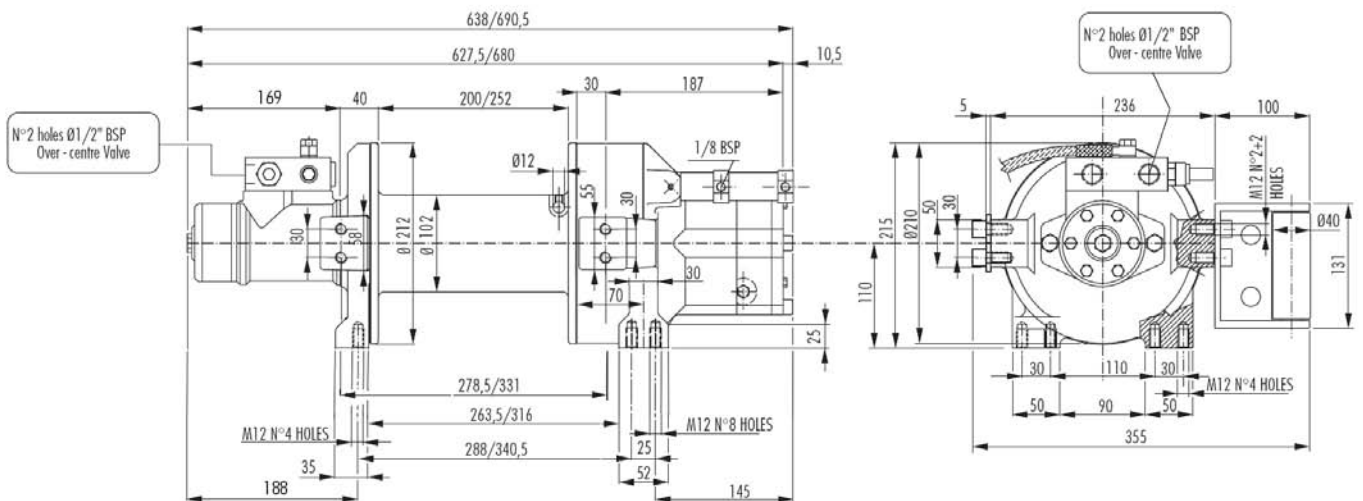
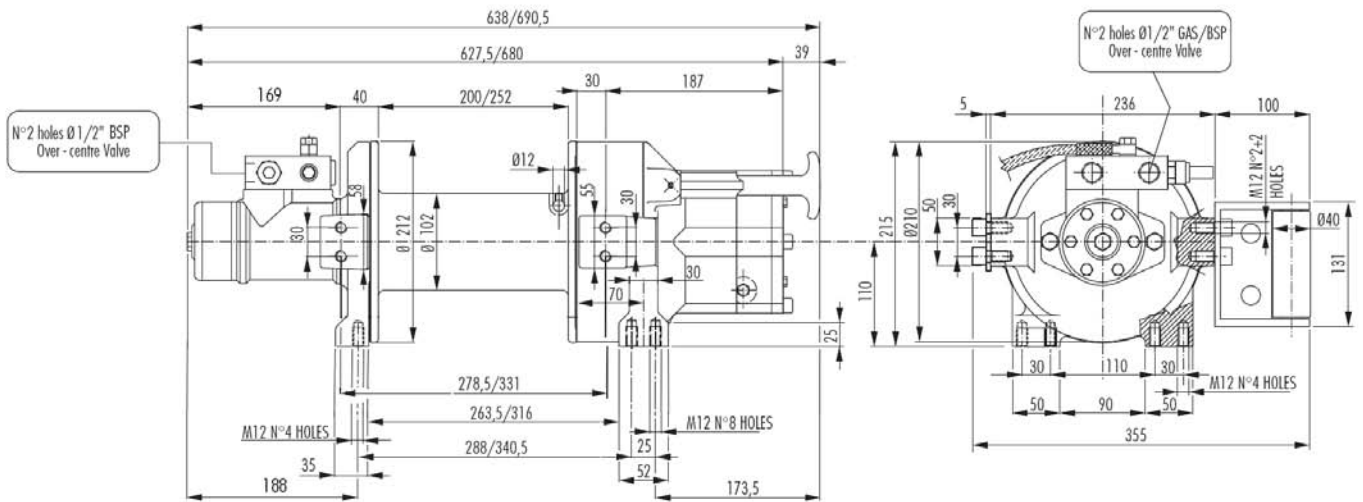
Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 4.500 FN

Hydraulic planetary gear winch with multidisc negative brake

Dimensions

MANUAL CLUTCH SHIFTER



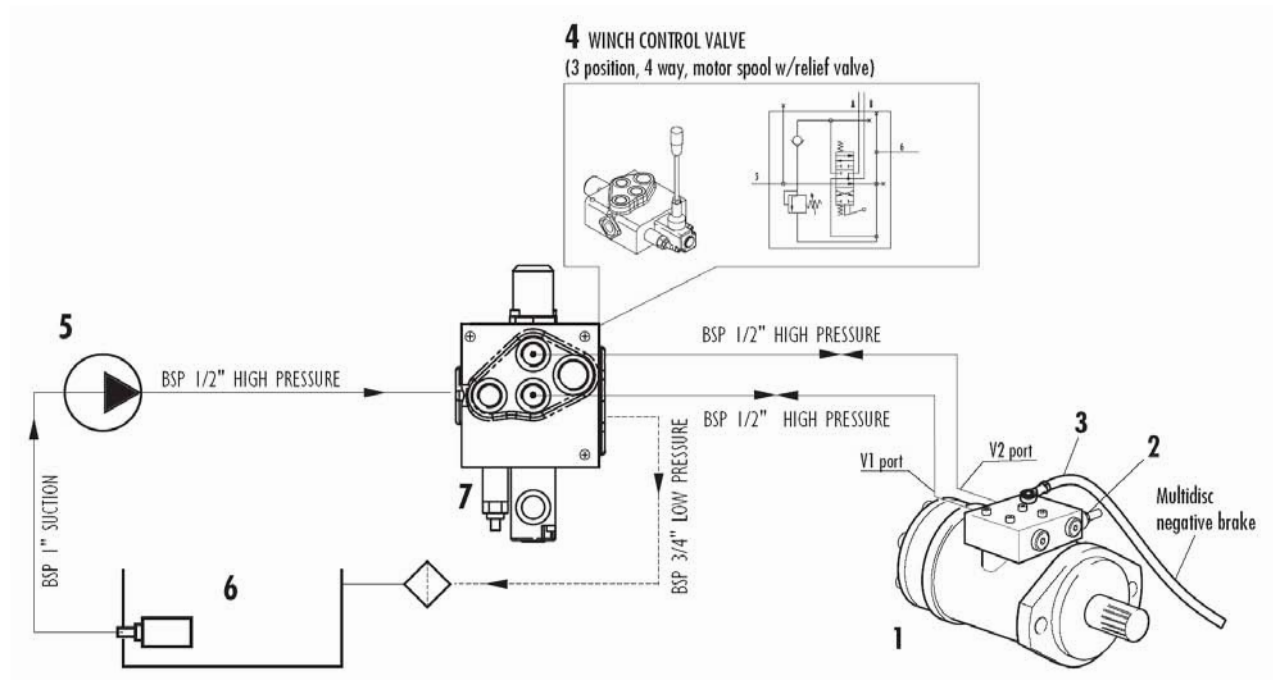
AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 4.500 FN

Hydraulic planetary gear winch with multidisc negative brake

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC MOTOR
- 2 = OVER-CENTRE VALVE
- 3 = HYDRAULIC PIPE TO NEGATIVE BRAKE
- 4 = CONTROL VALVE
- 5 = HYDRAULIC PUMP
- 6 = FLUID RESERVOIR
- 7 = RELIEF VALVE

Technical data:

- Minimum pressure for the brake release = **30 bar**.
- Max. pressure in the return line with stopped winch measured at the control valve exhaust manifold = **5 bar**.



WARNING :

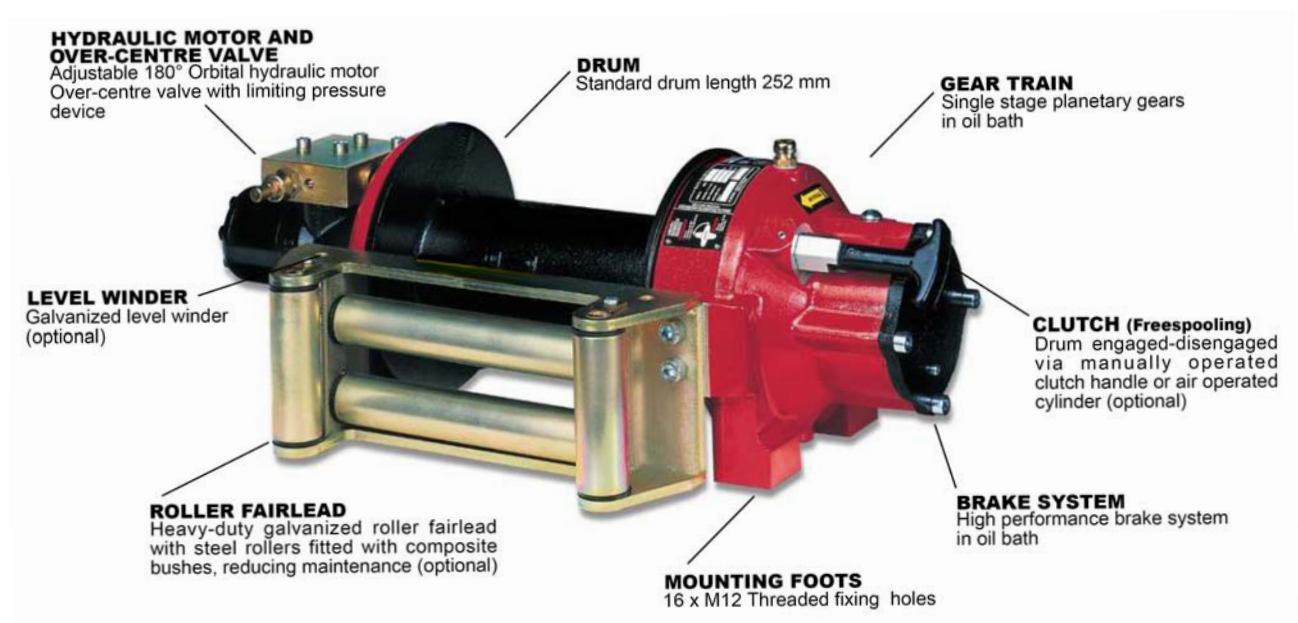
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 5.200 Hydraulic planetary gear winch



SPECIFICATIONS

- Rated line pull (1° layer) = **5.200 kg**
- Hydraulic orbit motor
- Working pressure with over-centre valve (optional) = **130 bar**
- Automatic safety brake (oil bath - no needs adjusting)
- Hardened steel one stage planetary gear train .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Pressure line for clutch shifter air-cylinder (on request) = **6 bar**
- Weight without cable = **49 kg**



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 5.200 Hydraulic planetary gear winch

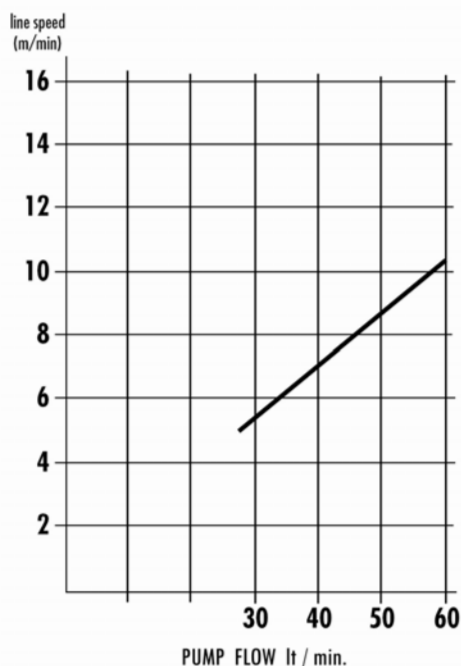
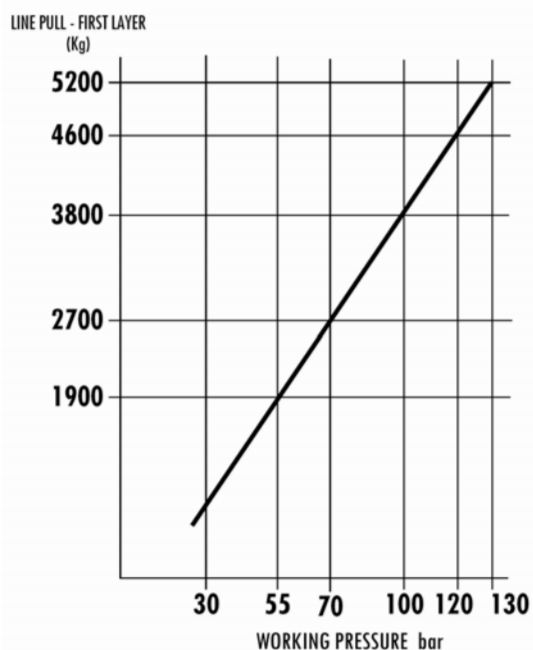
Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:5,3	12	1	5.200
		2	4.300
		3	3.650
		4	3.200
		5	2.800

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
40	19,8	7,1	8,6	10,1	11,6	13,0
50	24,5	8,7	10,6	12,5	14,3	16,1
60	29,2	10,4	12,7	14,9	17,0	19,3

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY
kg	12 mm.	12 mm.
49	35	40

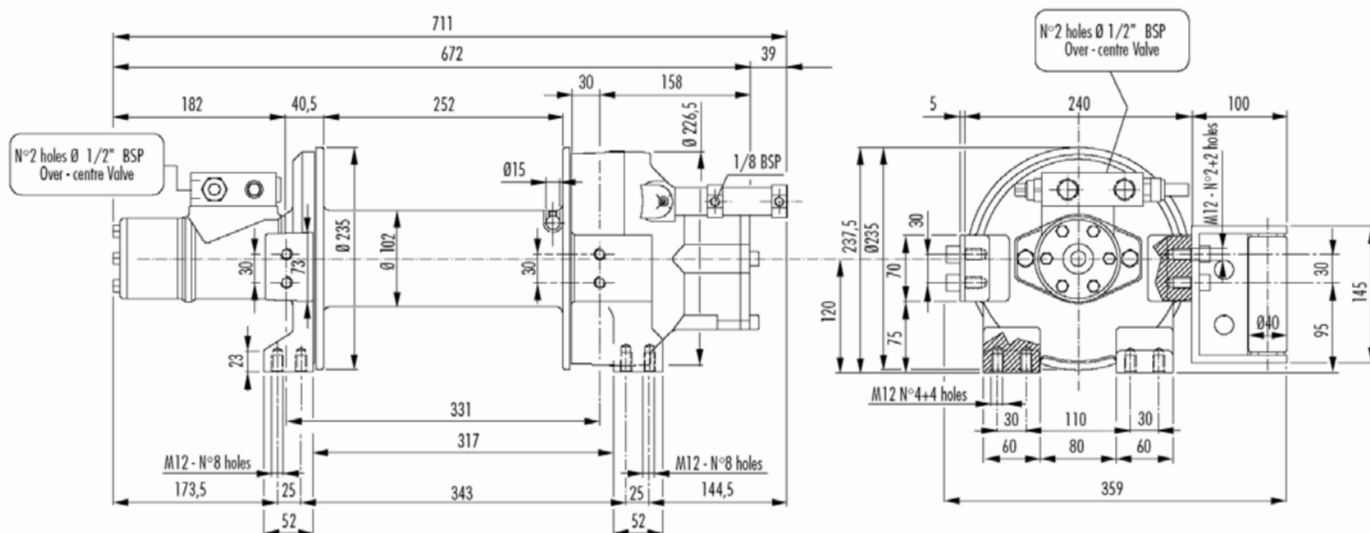
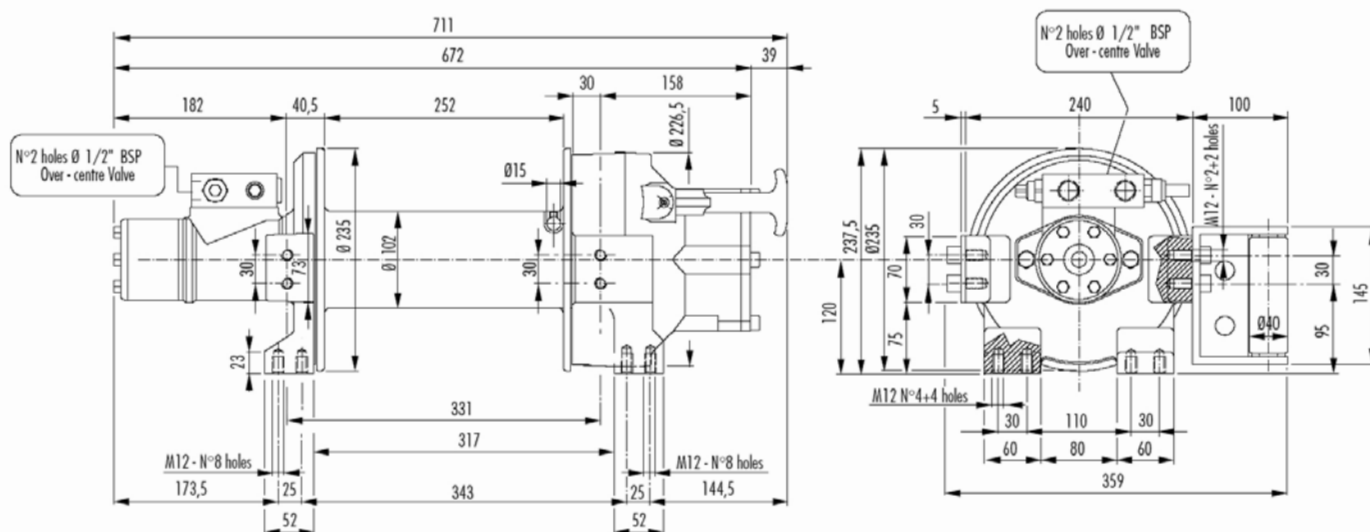
Performance charts at the 1° layer



Hydraulic Winch EPH 5.200 Hydraulic planetary gear winch

Dimensions

MANUAL CLUTCH SHIFTER

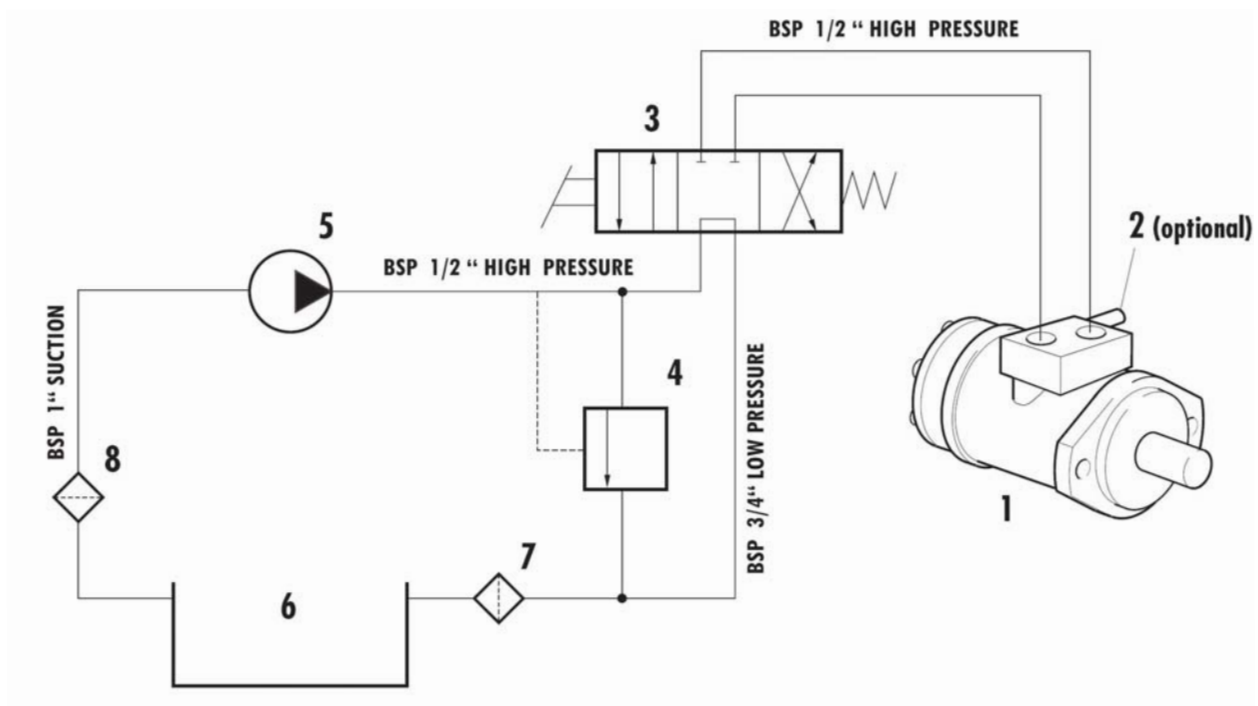


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 5.200 Hydraulic planetary gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = OVER-CENTRE VALVE (optional)
- 3 = DIRECTIONAL CONTROL VALVE
- 4 = RELIEF VALVE

- 5 = HYDRAULIC PUMP
- 6 = FLUID RESERVOIR
- 7 = RETURN FLUID FILTER (10 microns)
- 8 = SUCTION FLUID FILTER



WARNING :

Before operating check the oil level and add if necessary.

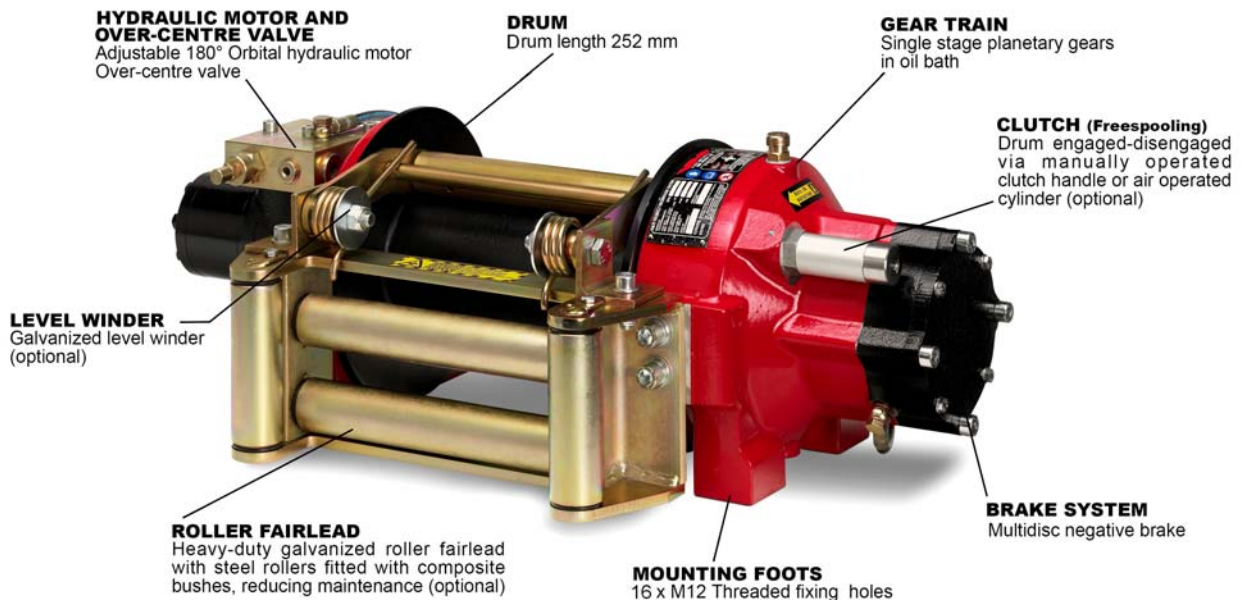


WARNING :

**Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.**

Hydraulic Winch EPH 6.000 FN

Hydraulic planetary gear winch with multidisc negative brake



SPECIFICATIONS

- Rated line pull (1° layer) = **6.000 kg**
- Hydraulic orbit motor
- Working pressure with over-centre valve = **160 bar**
- Multidisc negative brake
- Hardened steel one stage planetary gear train .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Pressure line for clutch shifter air-cylinder (on request) = **6 bar**
- Weight without cable = **54 kg**



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 6.000 FN

Hydraulic planetary gear winch with multidisc negative brake

Technical data

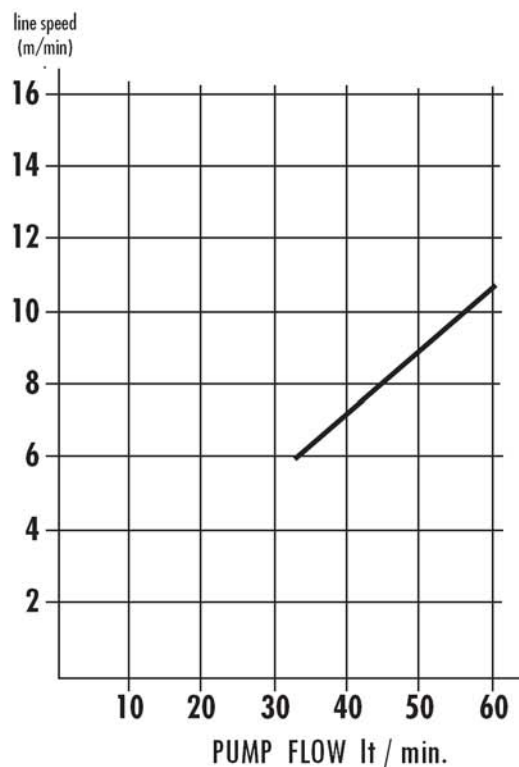
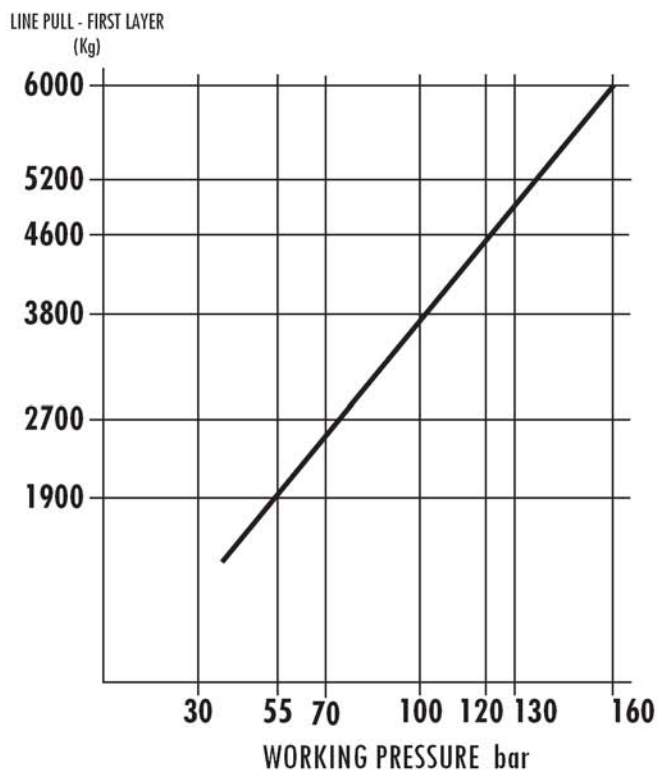
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 5,3	13	1	6000
		2	4900
		3	4200
		4	3575
		5	3150
1 : 5,3	14	1	6000
		2	4900
		3	4100
		4	3500
		5	—

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m / min.				
		LAYERS				
		1°	2°	3°	4°	5°
40	18.8	7.1	8.7	10.3	12.0	13.6
50	24.5	8.8	10.8	12.8	14.8	16.8
60	29.2	10.5	12.9	15.3	17.7	20.0

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m / min.				
		LAYERS				
		1°	2°	3°	4°	5°
40	18.8	7.2	8.9	10.7	12.4	—
50	24.5	8.9	11.0	13.2	15.3	—
60	29.2	10.6	13.2	15.7	18.3	—

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	kg	13 mm	14 mm	13 mm	14 mm
	54	35	25	40	30

Performance charts at the 1° layer

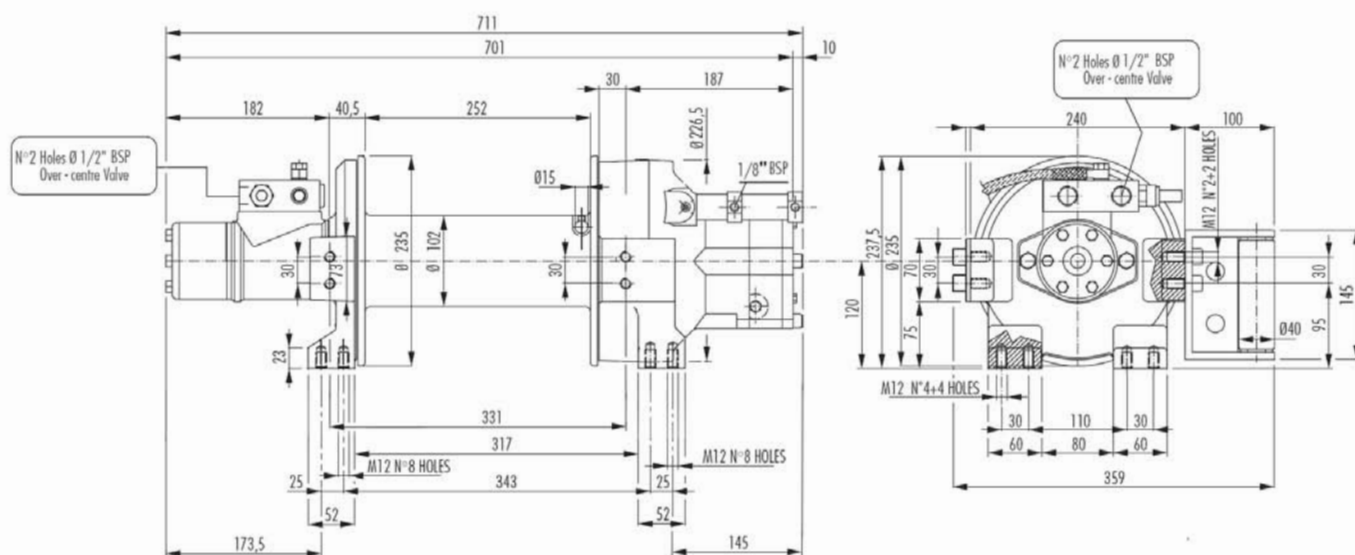
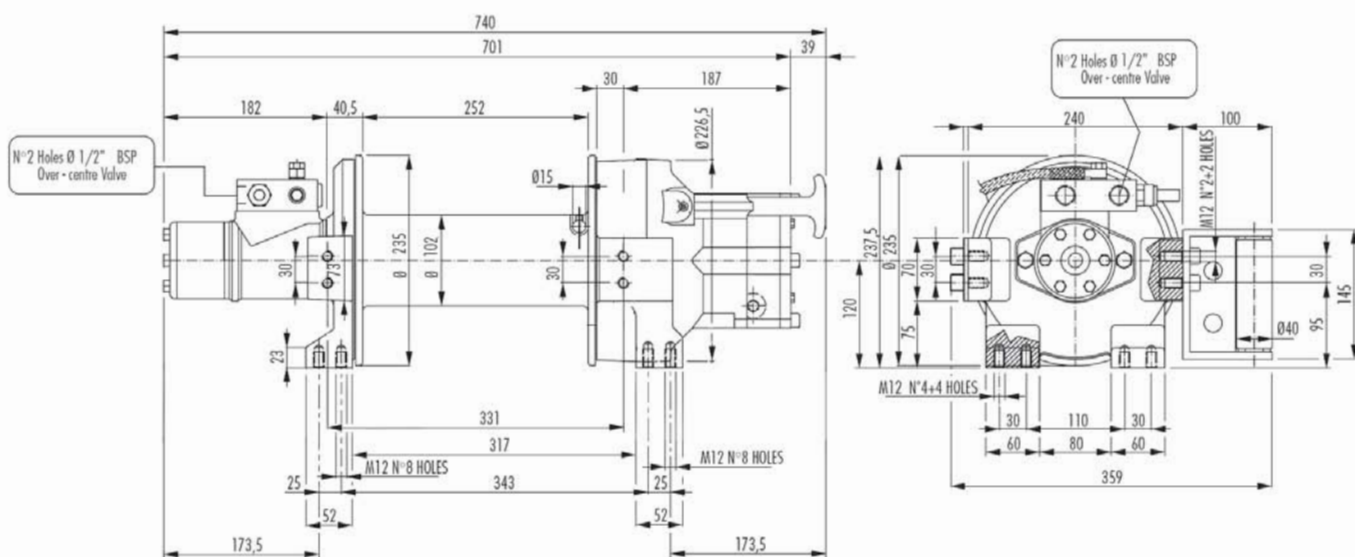


Hydraulic Winch EPH 6.000 FN

Hydraulic planetary gear winch with multidisc negative brake

Dimensions

MANUAL CLUTCH SHIFTER



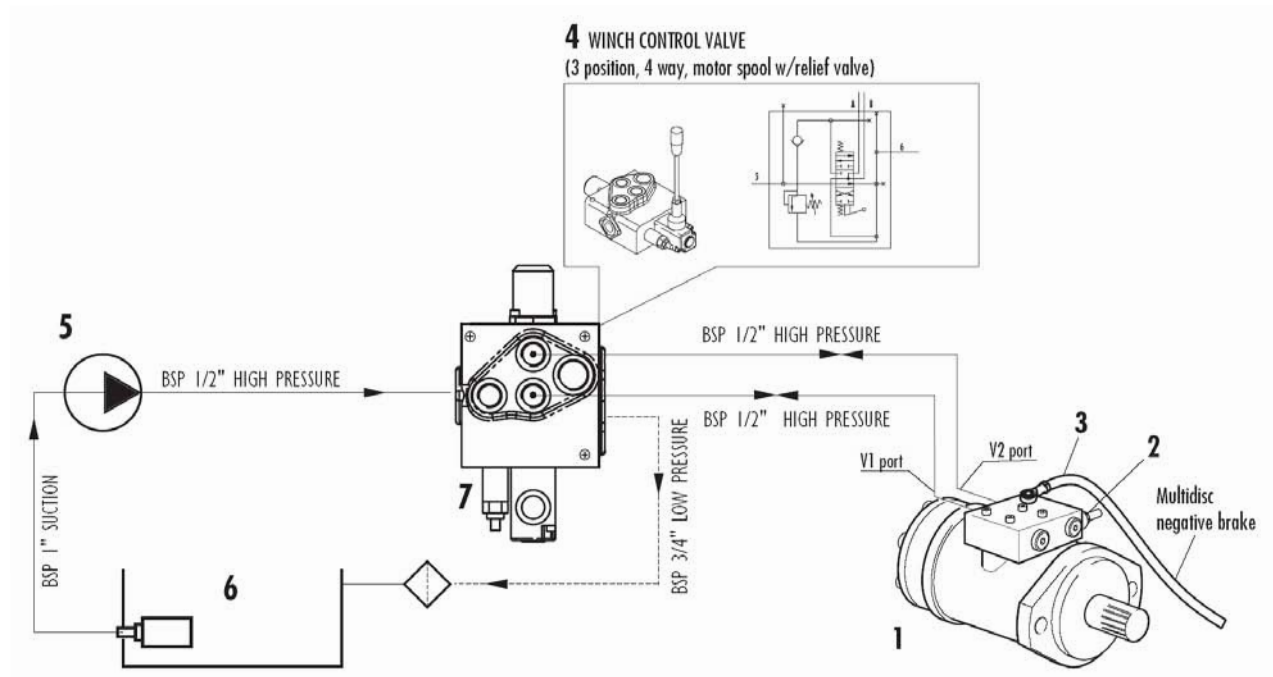
AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch EPH 6.000 FN

Hydraulic planetary gear winch with multidisc negative brake

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC MOTOR
- 2 = OVER-CENTRE VALVE
- 3 = HYDRAULIC PIPE TO NEGATIVE BRAKE
- 4 = CONTROL VALVE
- 5 = HYDRAULIC PUMP
- 6 = FLUID RESERVOIR
- 7 = RELIEF VALVE

Technical data:

- Minimum pressure for the brake release = **30 bar**.
- Max. pressure in the return line with stopped winch measured at the control valve exhaust manifold = **5 bar**.



WARNING :

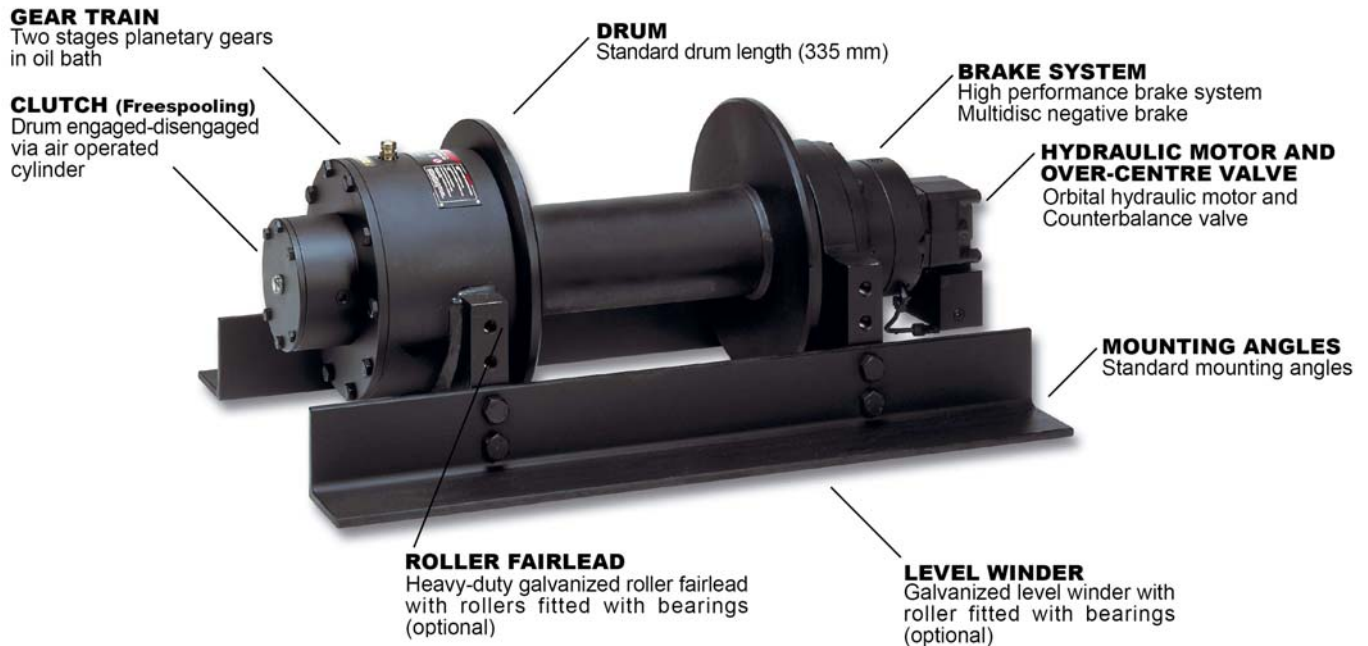
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 10.000 Hydraulic planetary gear winch



SPECIFICATIONS

- Rated line pull (1° layer) • **10.000 kg**
- Hydraulic orbit motor **OMSU 160**
- Working pressure = **190 bar**
- Multidisc negative brake
- Hardened steel two stage planetary gear train .
- Air-cylinder clutch shifter
- Pressure line for clutch shifter air-cylinder = **6 bar**
- Weight without cable = **190 kg**

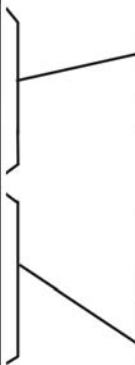


DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 10.000 Hydraulic planetary gear winch

Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	
	mm.		kg	
1:22,1	15	1	10.000	
		2	8.250	
		3	7.030	
		4	6.120	
		5	5.420	
		6	4.860	
	16	1	10.000	
		2	8.170	
		3	6.900	
		4	5.980	
		5	5.270	
		-	-	

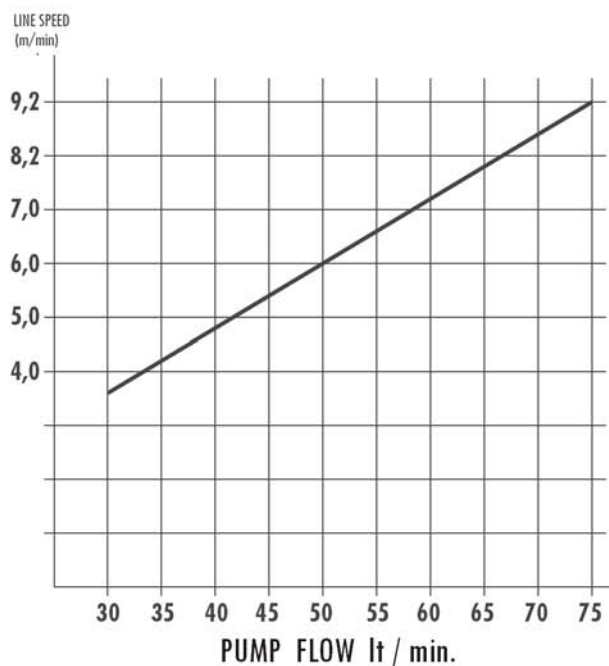
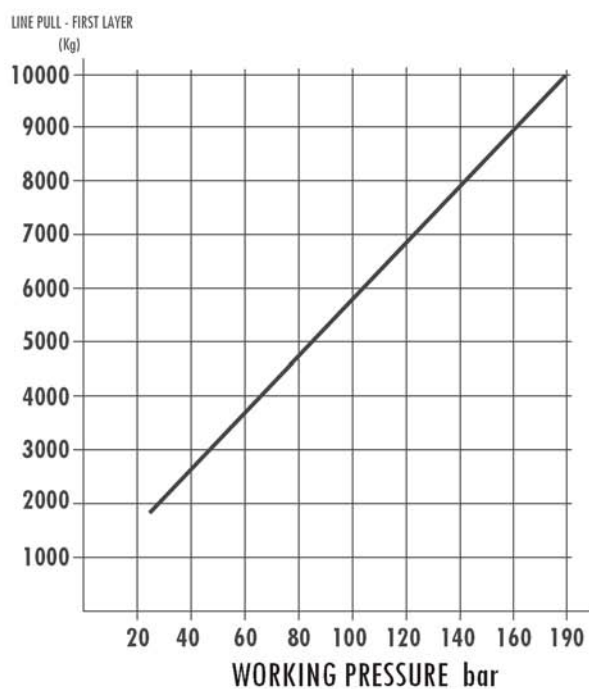
OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
lt / min.	n / min.	LAYERS					
		1°	2°	3°	4°	5°	6°
40	10,5	4,7	5,7	6,7	7,7	8,7	9,7
60	16,2	7,2	8,8	10,3	11,8	13,3	14,9
75	20,4	9,1	11,1	13,0	14,9	16,8	18,8

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
lt / min.	n / min.	LAYERS					
		1°	2°	3°	4°	5°	6°
40	10,5	4,7	5,8	6,9	7,9	9,0	-
60	16,2	7,3	8,9	10,5	12,2	13,8	-
75	20,4	9,0	11,0	13,0	15,0	17,0	-

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	kg	15 mm	16 mm	15 mm	16 mm
	190	67	47	87	64

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	kg	15 mm	16 mm	15 mm	16 mm
	190	67	47	87	64

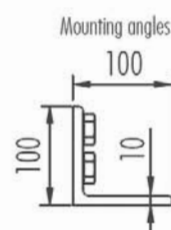
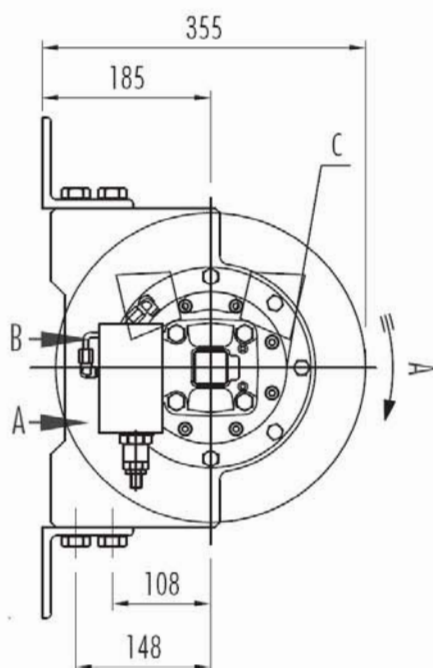
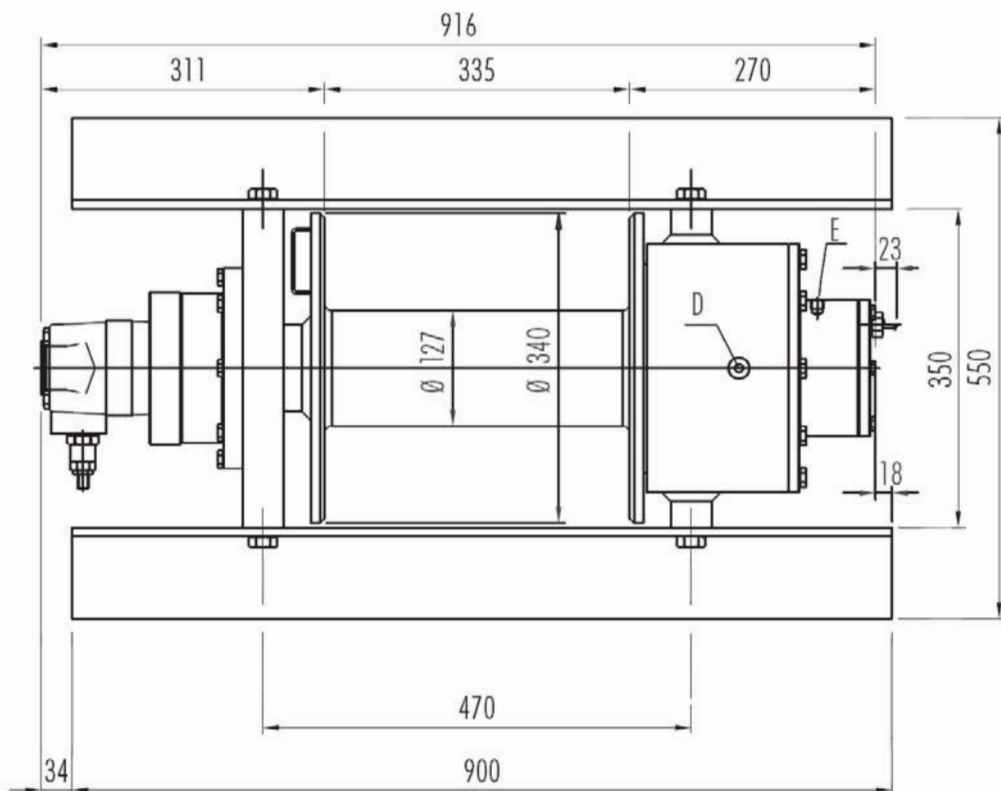
Performance charts at the 1° layer



Hydraulic Winch EPH 10.000 Hydraulic planetary gear winch

Dimensions

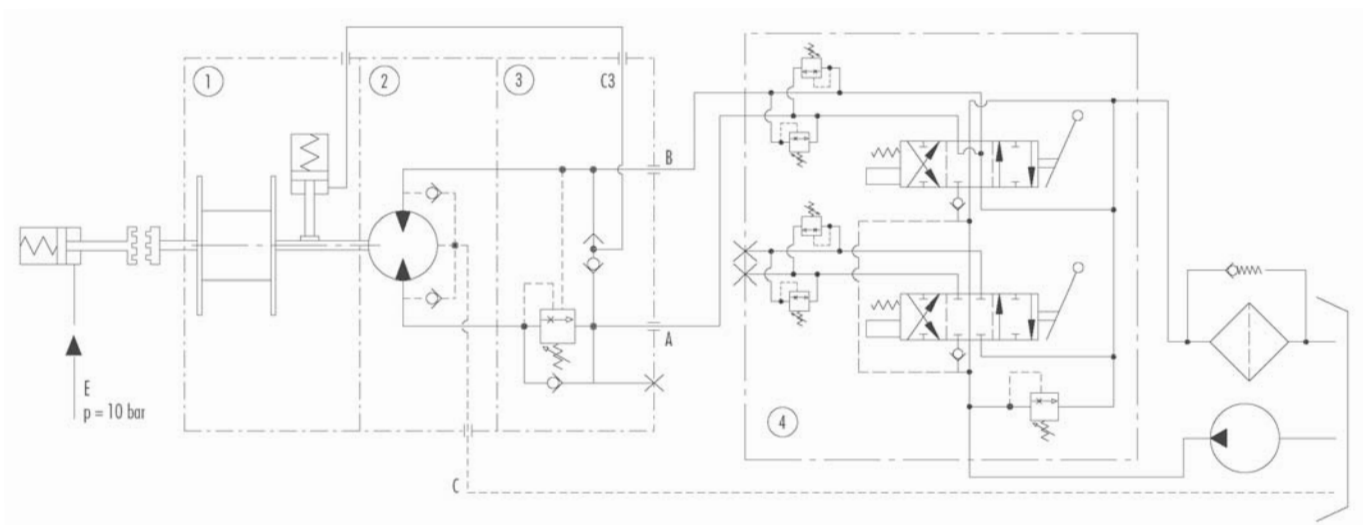
AIR-CYLINDER CLUTCH SHIFTER



Hydraulic Winch EPH 10.000 Hydraulic planetary gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



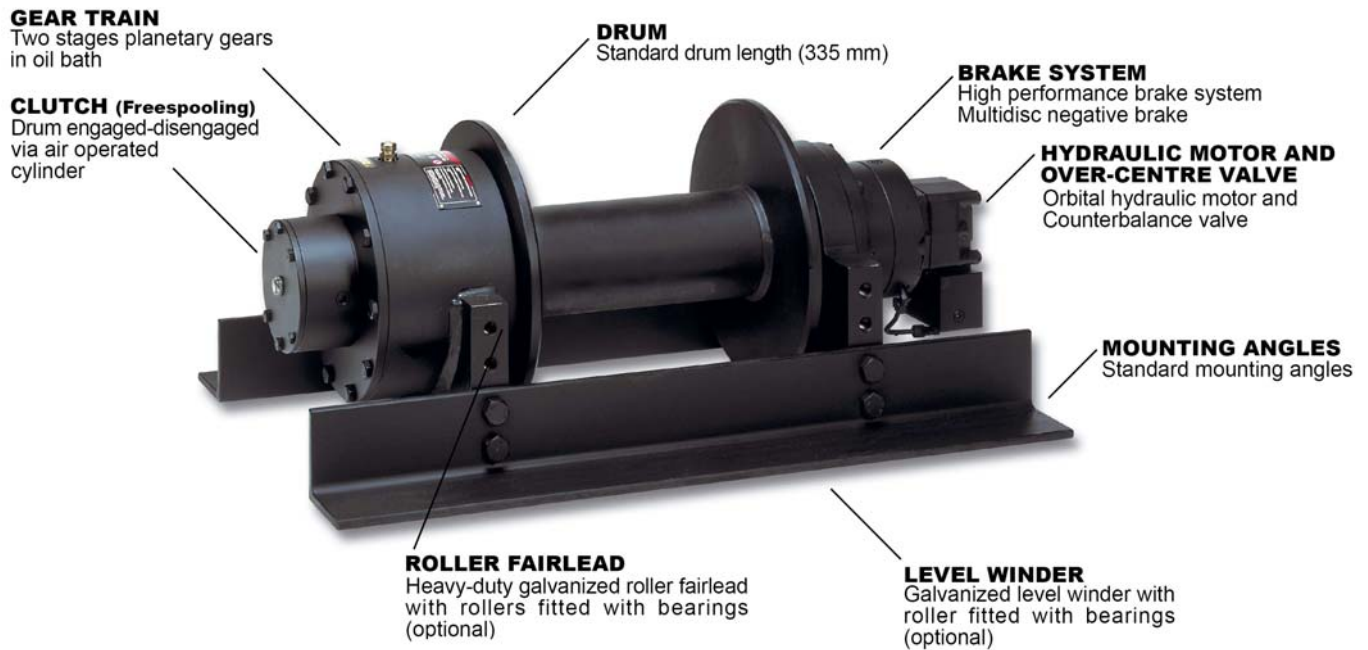
- 1 = WINCH
- 2 = HYDRAULIC ORBIT MOTOR
- 3 = OVER-CENTRE VALVE (optional)
- 4 = DIRECTIONAL CONTROL VALVE
- A = WINDING OPERATION

- B = UNWINDING OPERATION
- C = DRAINAGE
- C3 = BRAKE
- E = DRUM ENGAGED / DISENGAGED
VIA AIR OPERATED CYLINDER

⚠ WARNING :
Before operating check the oil level and add if necessary.

⚠ WARNING :
Do not exceed 75 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch EPH 12.200 Hydraulic planetary gear winch



SPECIFICATIONS

- Rated line pull (1° layer) • **12.200 kg**
- Hydraulic orbit motor **OMSU 250**
- Working pressure = **175 bar**
- Multidisc negative brake
- Hardened steel two stage planetary gear train .
- Air-cylinder clutch shifter
- Pressure line for clutch shifter air-cylinder = **6 bar**
- Weight without cable = **190 kg**



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch EPH 12.200 Hydraulic planetary gear winch

Technical data

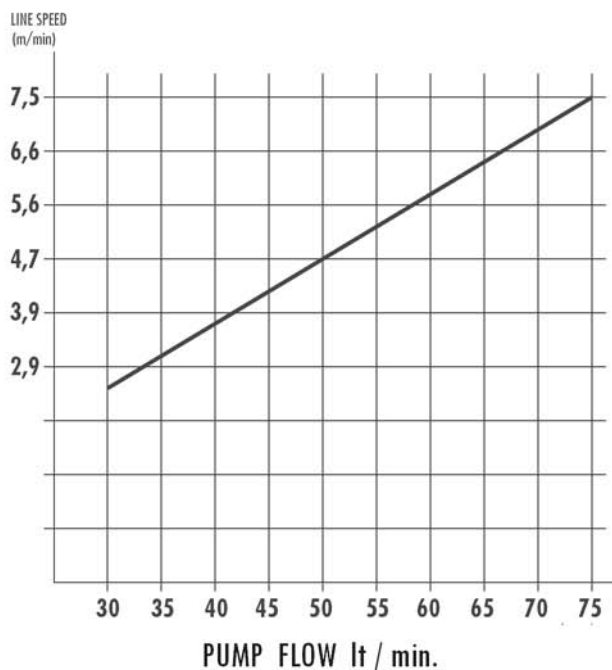
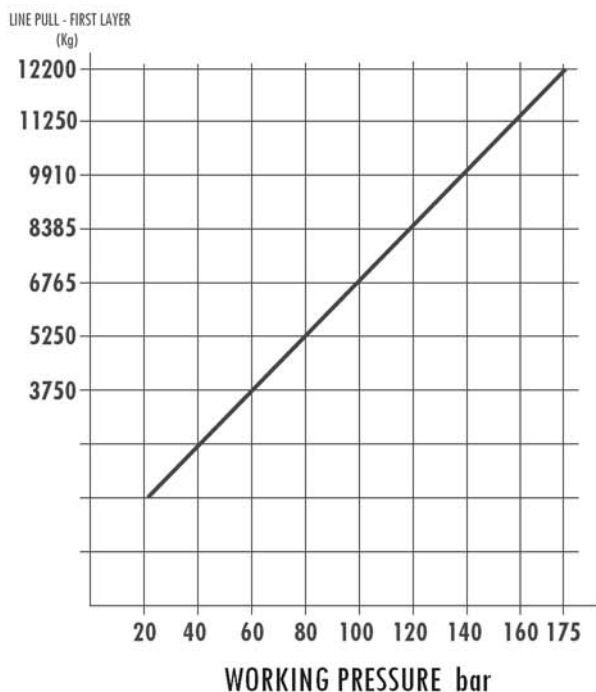
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:16,68	16	1	12.200
		2	9.970
		3	8.430
		4	7.300
		5	6.440
		-	-
	18	1	12.200
		2	9.770
		3	8.150
		4	6.990
		5	6.120
		-	-

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.					
		LAYERS					
		1°	2°	3°	4°	5°	6°
40	8,0	3,6	4,4	5,2	6,0	6,8	-
60	12,8	5,8	7,1	8,3	9,6	10,9	-
75	16,4	7,4	9,0	10,7	12,3	14,0	-

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.					
		LAYERS					
		1°	2°	3°	4°	5°	6°
40	8,0	3,6	4,6	5,5	6,4	7,3	-
60	12,8	5,8	7,3	8,7	10,2	11,6	-
75	16,4	7,5	9,3	11,2	13,0	14,9	-

DRUM	WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
	kg	16 mm	18 mm	16 mm	18 mm
	190	47	43	64	59

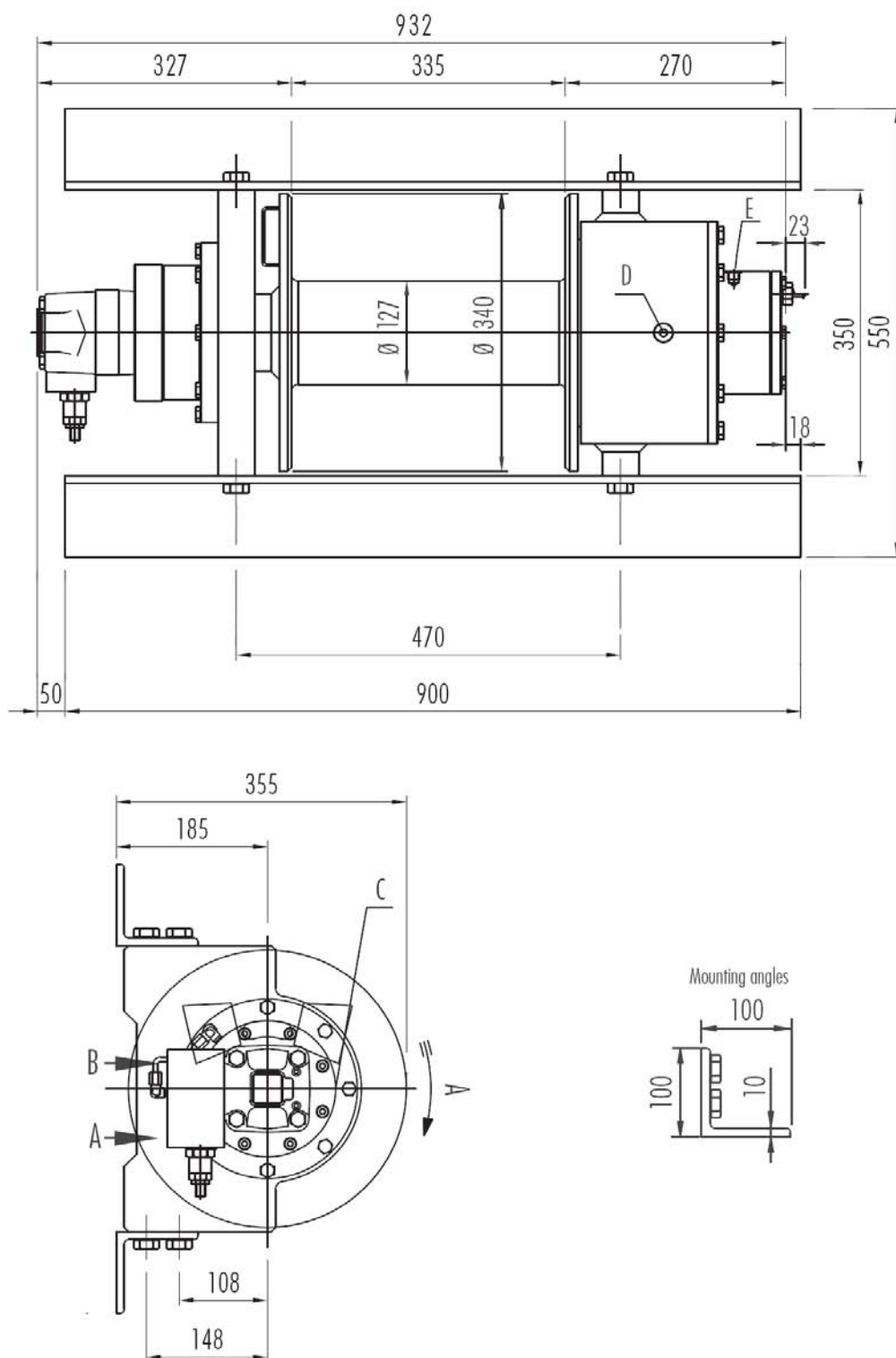
Performance charts at the 1° layer



Hydraulic Winch EPH 12.200 Hydraulic planetary gear winch

Dimensions

AIR-CYLINDER CLUTCH SHIFTER

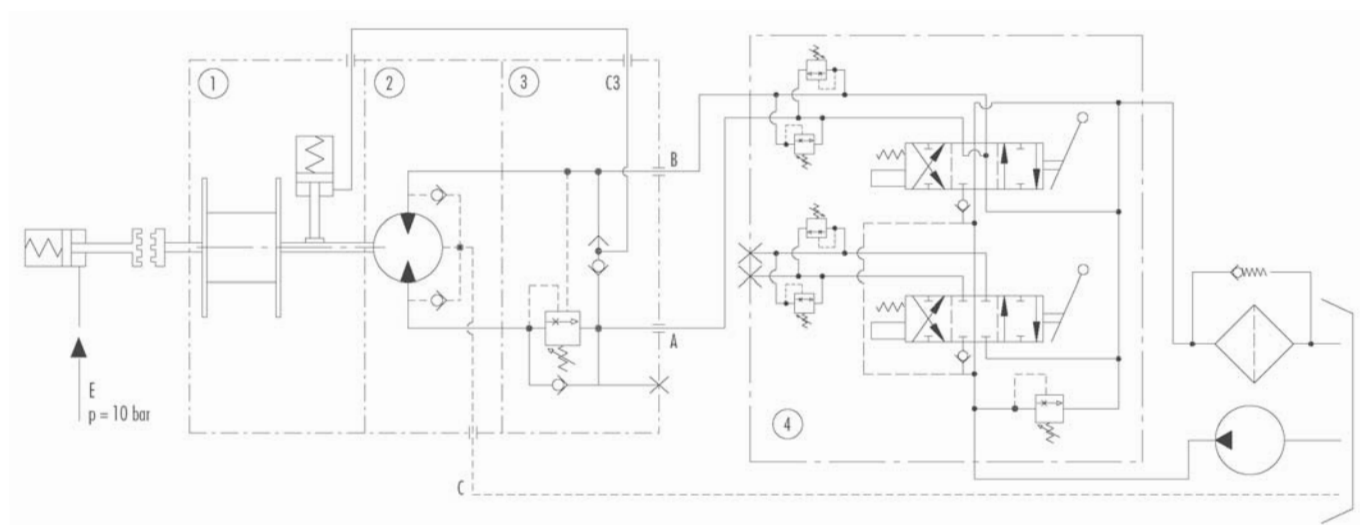


Hydraulic Winch EPH 12.200

Hydraulic planetary gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = WINCH
2 = HYDRAULIC ORBIT MOTOR
3 = OVER-CENTRE VALVE (optional)
4 = DIRECTIONAL CONTROL VALVE
A = WINDING OPERATION

- B = UNWINDING OPERATION
C = DRAINAGE
C3 = BRAKE
E = DRUM ENGAGED / DISENGAGED
VIA AIR OPERATED CYLINDER



WARNING :

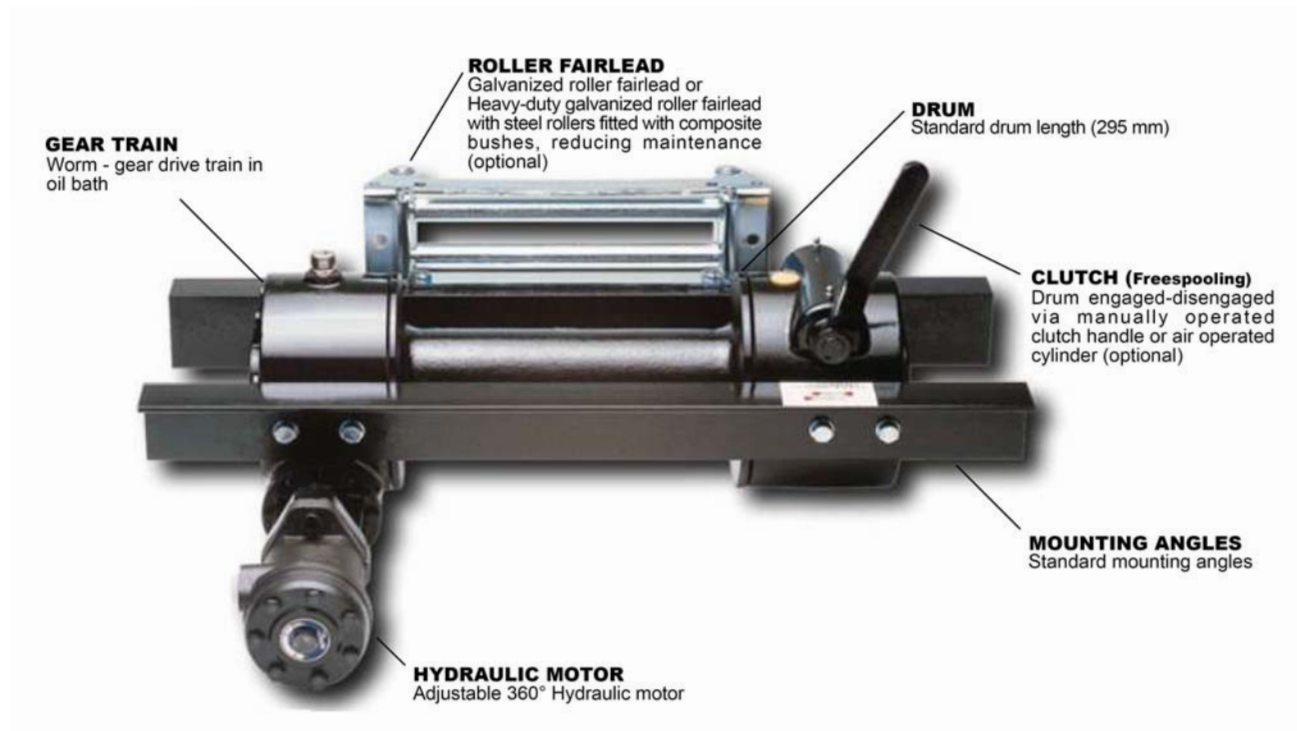
Before operating check the oil level and add if necessary.



WARNING :

**Do not exceed 75 lt / min.
If exceeded the hydraulic motor
may be damaged.**

Hydraulic Winch RNH 5.400 - RNH 4.500 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model RNH 4.500 = **4.500 kg**
 - for model RNH 5.400 = **5.400 kg**
- Hydraulic orbit motor
- Working pressure :
 - for model RNH 4.500 = **140 bar**
 - for model RNH 5.400 = **145 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)



DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch RNH 4.500 Hydraulic worm gear winch

Technical data

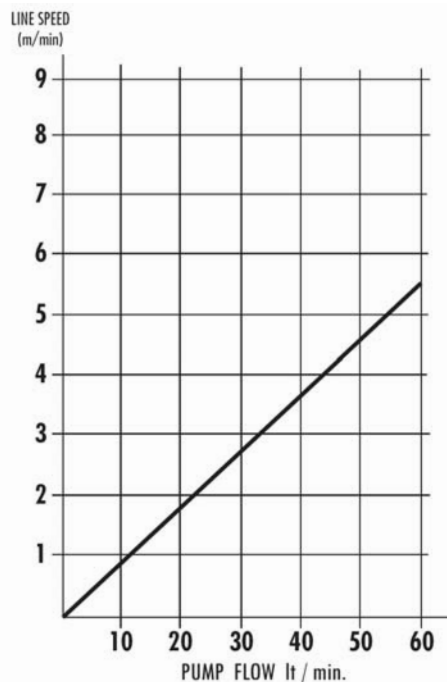
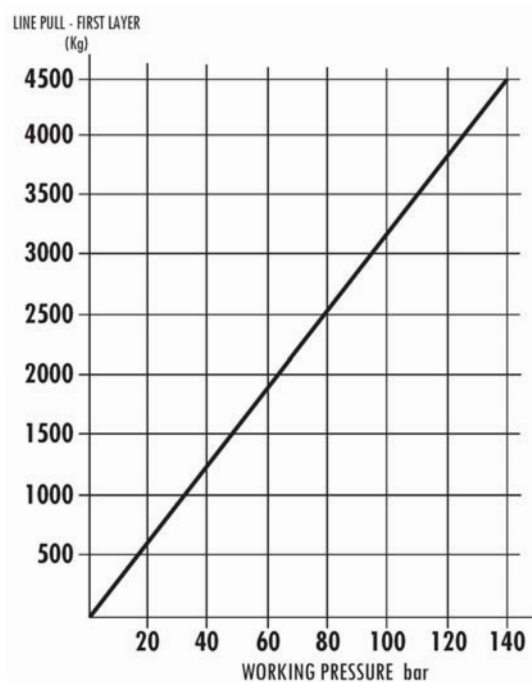
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 29	12	1	4500
		2	3680
		3	3100
		4	2700
		5	—
1 : 29	13 DIN 15020	1	4500
		2	3600
		3	3000
		4	2600
		5	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min				
		LAYERS				
		1°	2°	3°	4°	5°
30	8.2	2.6	3.2	3.8	4.5	—
40	11.0	3.5	4.3	5.2	6.0	—
60	16.4	5.2	6.5	7.7	8.9	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
30	8.2	2.7	3.3	4.0	4.7	—
40	11.0	3.6	4.5	5.4	6.2	—
60	16.4	5.3	6.6	8.0	9.3	—

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	12 mm.	13 mm.	12 mm.	13 mm.
kg	35	25	40	30

Performance charts at the 1° layer



Hydraulic Winch RNH 5.400 Hydraulic worm gear winch

Technical data

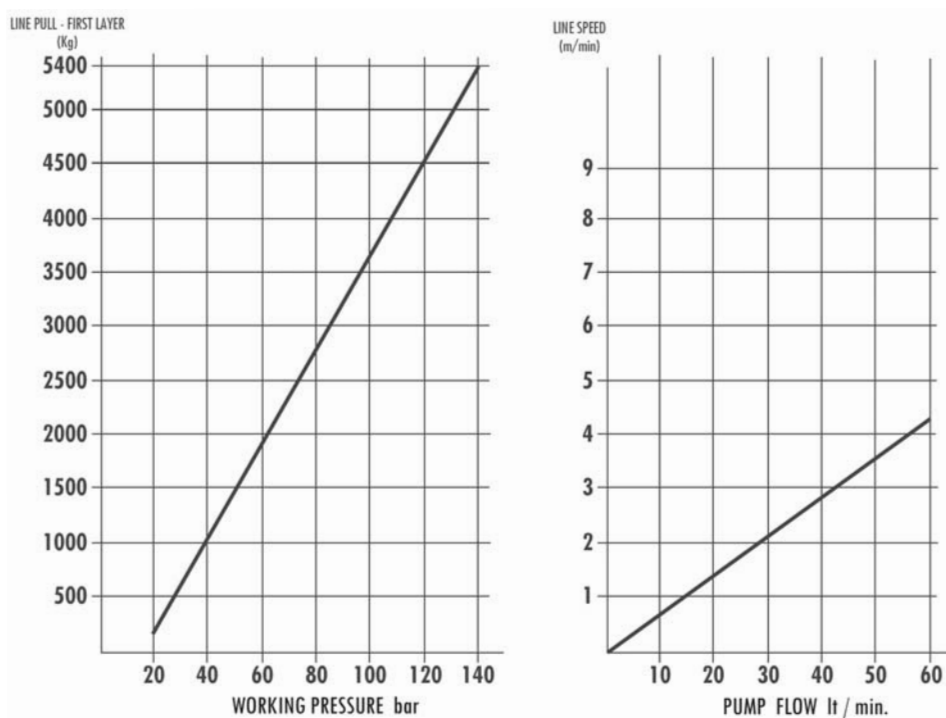
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 29	12	1	5400
		2	4400
		3	3730
		4	3230
		5	—
1 : 29	13 DIN 15020	1	5400
		2	4350
		3	3640
		4	3130
		5	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min					
		LAYERS					
lt / min.	n / min.	1°	2°	3°	4°	5°	
30	6.2	2.1	2.6	3.0	3.5	—	
40	8.6	2.9	3.6	4.2	4.8	—	
60	13	4.4	5.4	6.3	7.3	—	

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
		LAYERS					
lt / min.	n / min.	1°	2°	3°	4°	5°	
30	6.2	2.1	2.6	3.1	3.6	—	
40	8.6	2.9	3.6	4.3	5.0	—	
60	13	4.4	5.5	6.5	7.5	—	

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	12 mm.	13 mm.	12 mm.	13 mm.
kg				
60	35	25	40	30

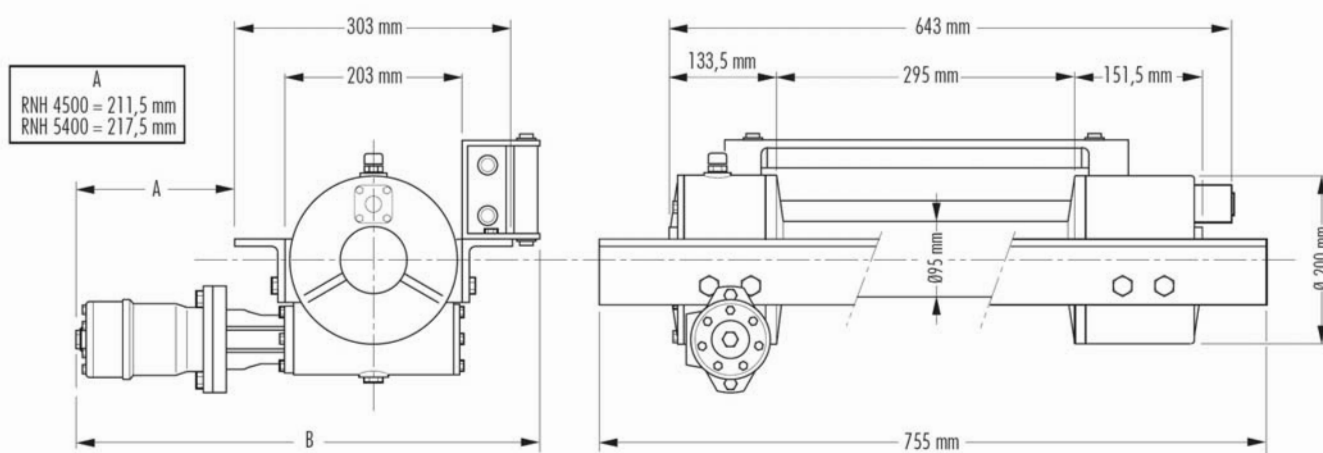
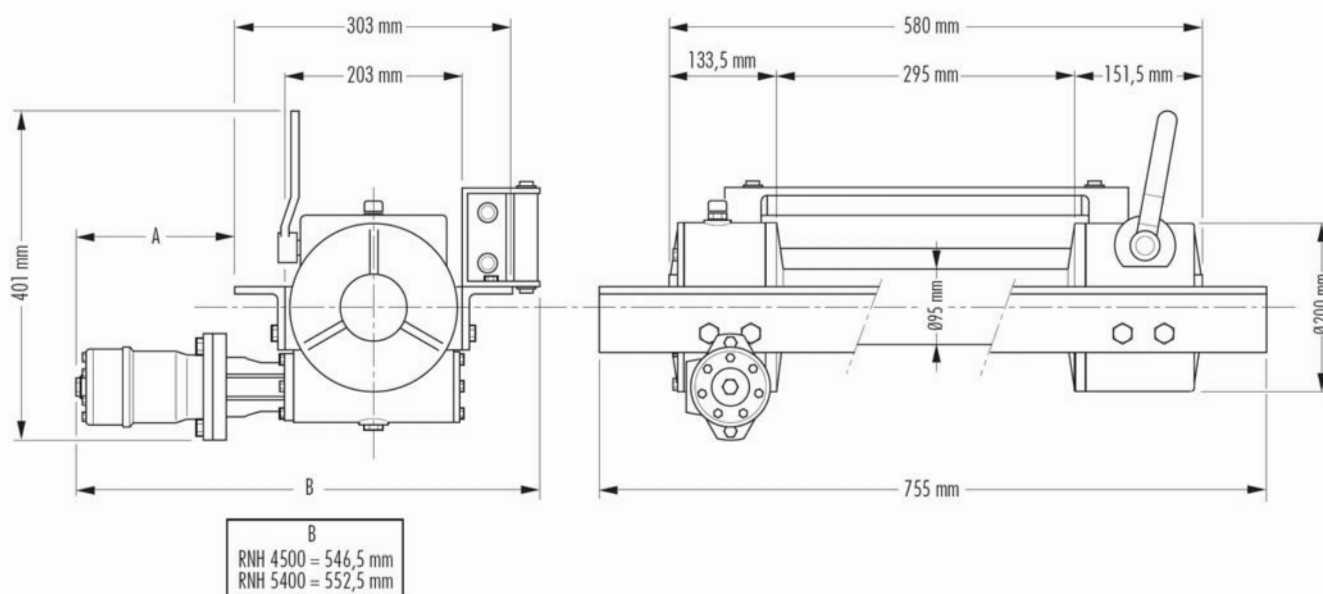
Performance charts at the 1° layer



Hydraulic Winch RNH 5.400 - RNH 4.500 Hydraulic worm gear winch

Dimensions

MANUAL CLUTCH SHIFTER

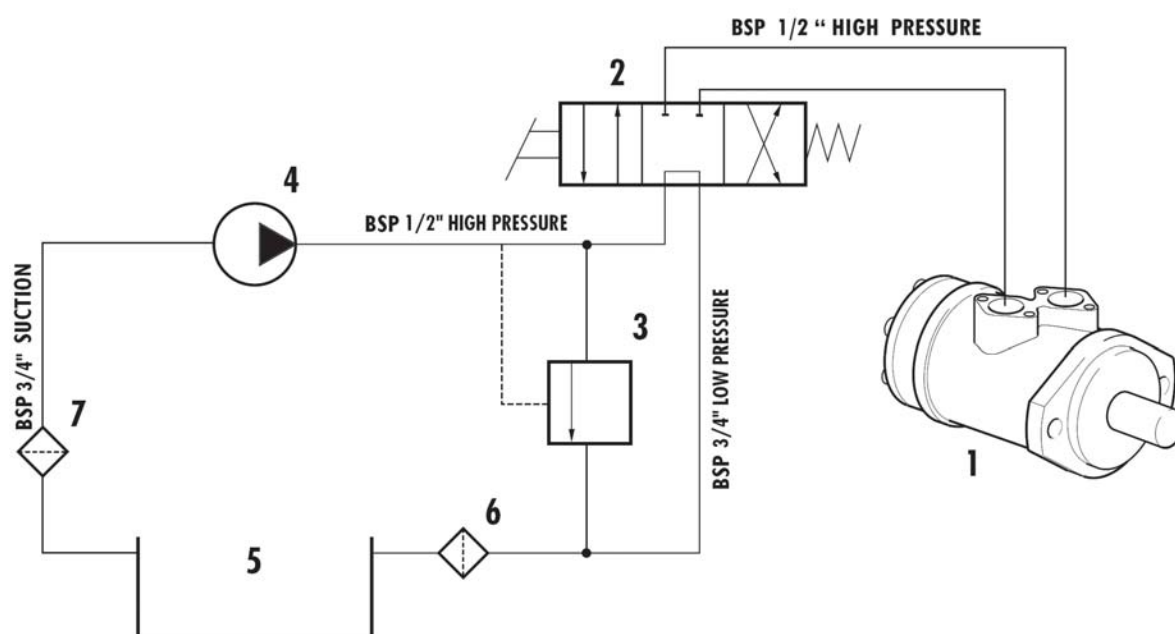


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch RNH 5.400 - RNH 4.500 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



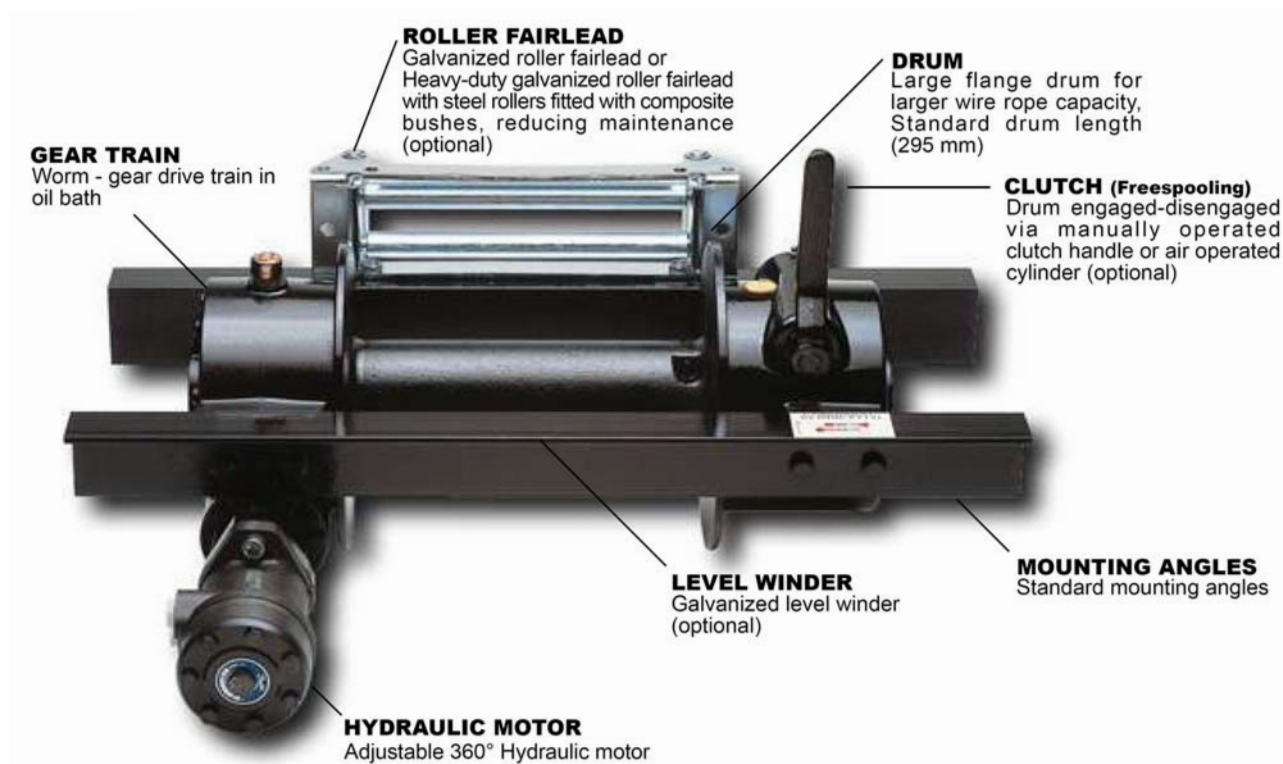
- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

⚠ WARNING :
Before operating check the oil level and add if necessary.

⚠ WARNING :
Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch RSH 5.400 - RSH 4.500 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model RSH 4.500 = **4.500 kg**
 - for model RSH 5.400 = **5.400 kg**
- Hydraulic orbit motor
- Working pressure :
 - for model RSH 4.500 = **140 bar**
 - for model RSH 5.400 = **145 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

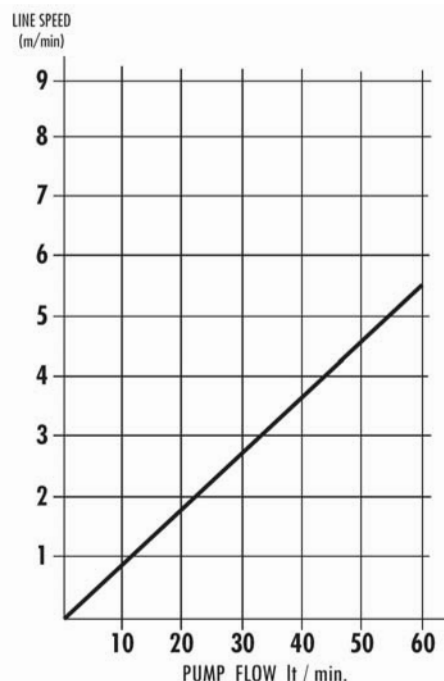
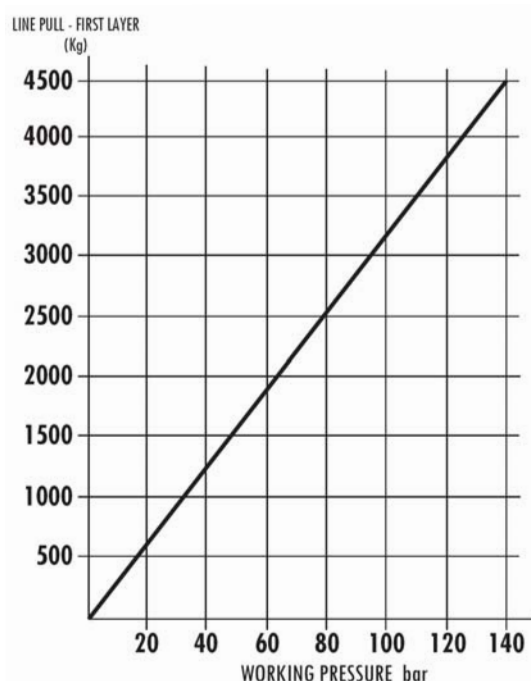
Hydraulic Winch RSH 4.500 Hydraulic worm gear winch

Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min					
	mm.		kg			LAYERS					
1 : 29	12	1	4500	30	8.2	1°	2°	3°	4°	5°	
		2	3680			2.6	3.2	3.8	4.5	—	
		3	3100			40	11.0	3.5	4.3	5.2	6.0
		4	2700			60	16.4	5.2	6.5	7.7	8.9
		5	—								
1 : 29	13 DIN 15020	1	4500	30	8.2	1°	2°	3°	4°	5°	
		2	3600			2.7	3.3	4.0	4.7	—	
		3	3000			40	11.0	3.6	4.5	5.4	6.2
		4	2600			60	16.4	5.3	6.6	8.0	9.3
		5	—								

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	12 mm.	13 mm.	12 mm.	13 mm.
kg				
60	35	25	40	30

Performance charts at the 1° layer



Hydraulic Winch RSH 5.400 Hydraulic worm gear winch

Technical data

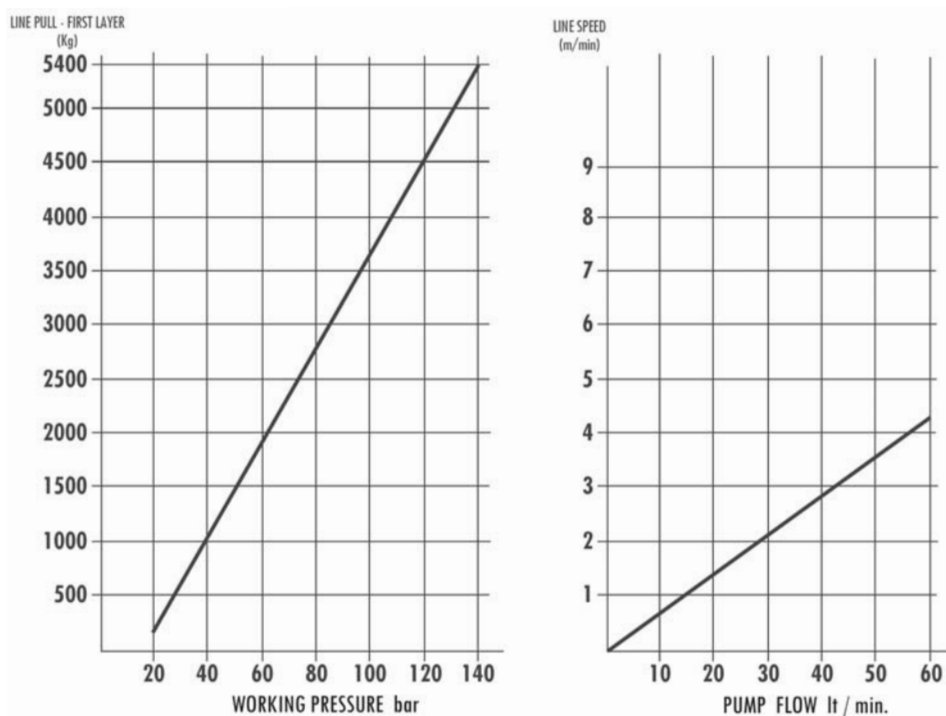
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1 : 29	12	1	5400
		2	4400
		3	3730
		4	3230
		5	—
1 : 29	13 DIN 15020	1	5400
		2	4350
		3	3640
		4	3130
		5	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED				
		m/min				
lt / min.	n / min.	LAYERS				
		1°	2°	3°	4°	5°
30	6.2	2.1	2.6	3.0	3.5	—
40	8.6	2.9	3.6	4.2	4.8	—
60	13	4.4	5.4	6.3	7.3	—

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED				
		m/min.				
lt / min.	n / min.	LAYERS				
		1°	2°	3°	4°	5°
30	6.2	2.1	2.6	3.1	3.6	—
40	8.6	2.9	3.6	4.3	5.0	—
60	13	4.4	5.5	6.5	7.5	—

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	kg		kg	
		12 mm.	13 mm.	12 mm.
60	35	25	40	30

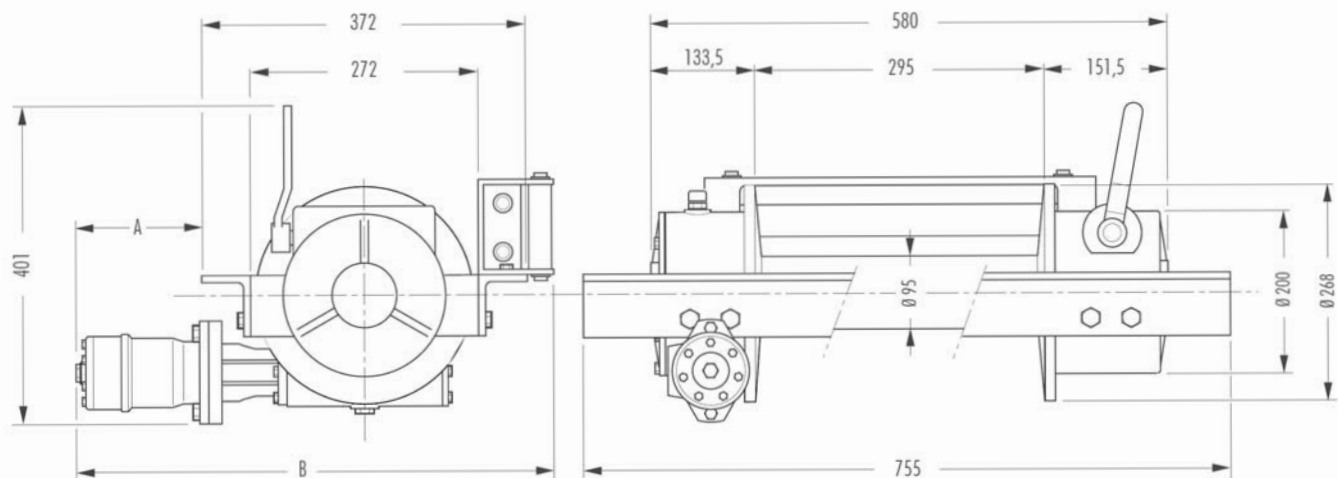
Performance charts at the 1° layer



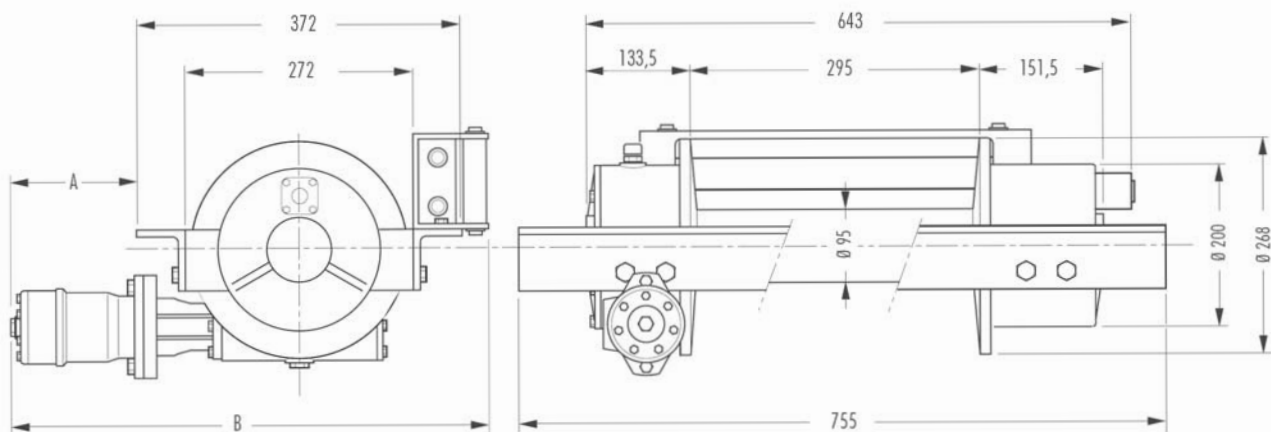
Hydraulic Winch RSH 5.400 - RSH 4.500 Hydraulic worm gear winch

Dimensions

MANUAL CLUTCH SHIFTER



A	B
RSH 4500 = 177 mm	RSH 4500 = 581 mm
RSH 5400 = 184 mm	RSH 5400 = 587 mm

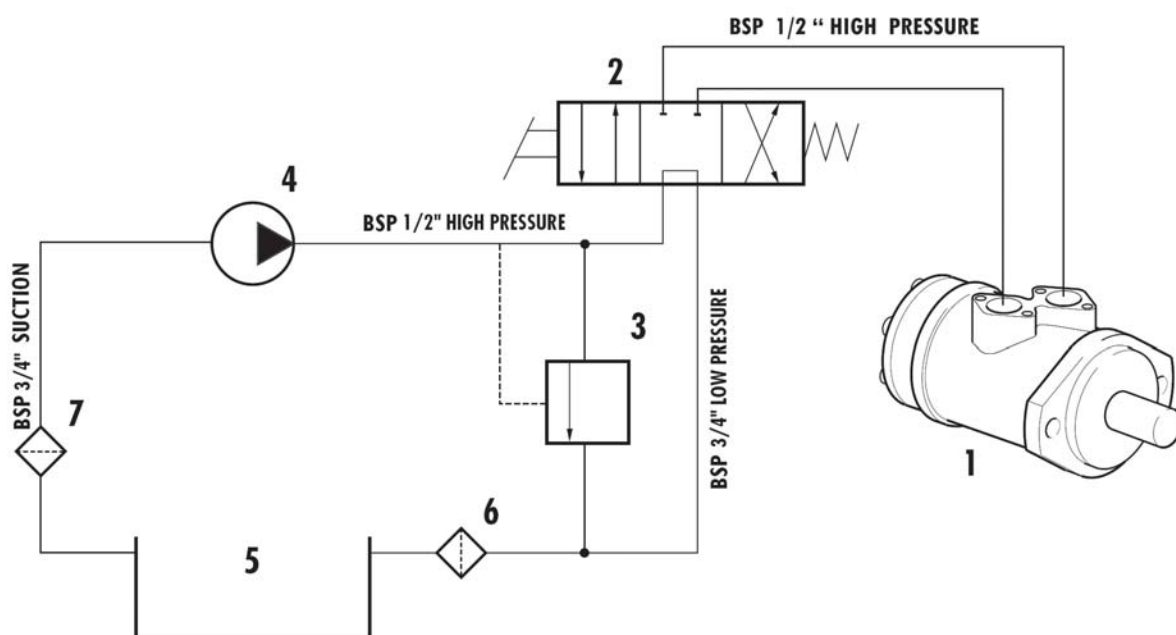


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch RSH 5.400 - RSH 4.500 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER



WARNING :

Before operating check the oil level and add if necessary.

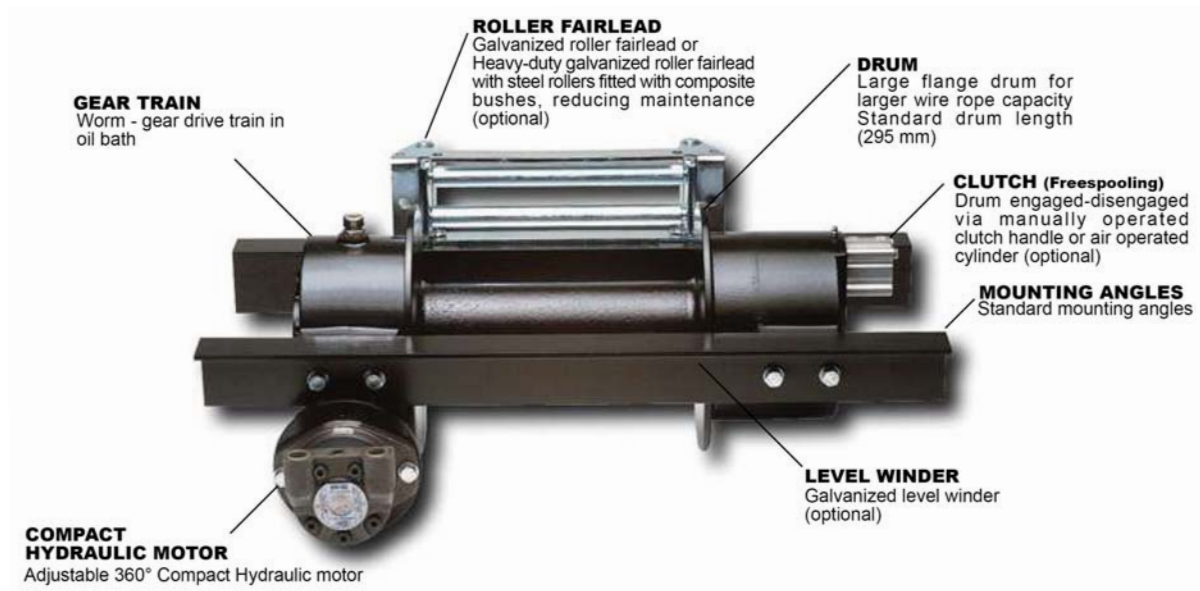


WARNING :

Do not exceed 60 lt / min.

If exceeded the hydraulic motor may be damaged.

Hydraulic Winch RCH 5.400 - RCH 4.500 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model RCH 4.500 = **4.500 kg**
 - for model RCH 5.400 = **5.400 kg**
- Hydraulic orbit motor
- Working pressure = **150 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Pressure line for clutch shifter air-cylinder = **6 bar**
- Weight without cable = **62,5 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch RCH 4.500 Hydraulic worm gear winch

Technical data

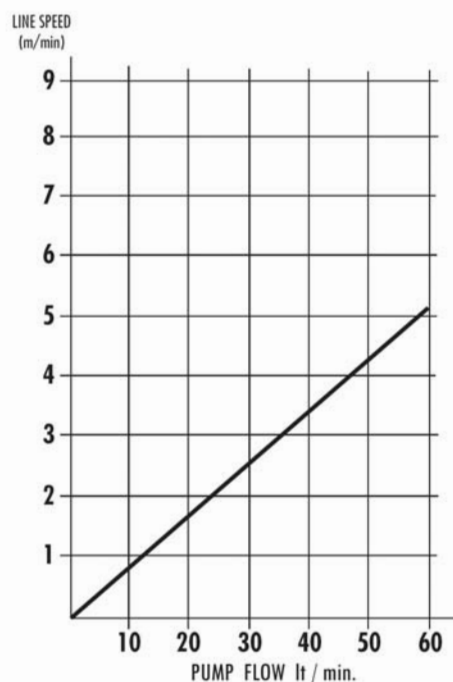
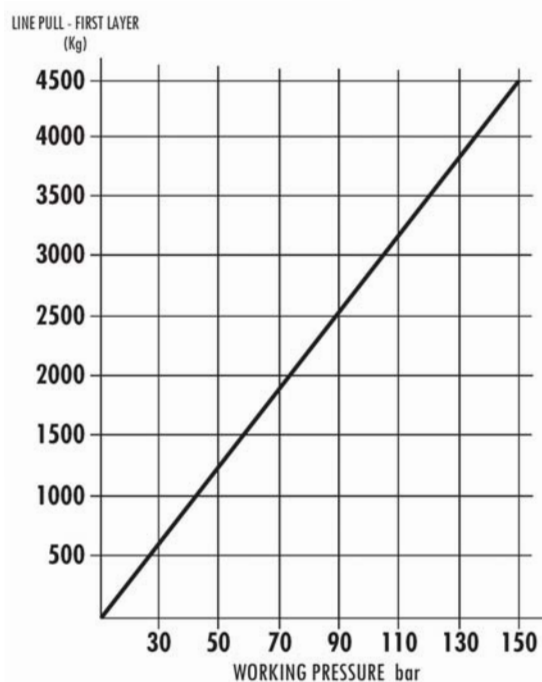
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:29	12	1	4500
		2	3650
		3	3100
		4	2700
		5	2350
1:29	13 DIN 15020	1	4500
		2	3600
		3	3000
		4	2600
		5	2300

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
30	7.9	2.5	3.1	3.7	4.3	4.9
40	10.5	3.3	4.1	4.9	5.7	6.5
60	15.9	5.0	6.3	7.5	8.7	9.9

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
30	7.9	2.6	3.2	3.9	4.5	5.1
40	10.5	3.4	4.3	5.1	6.0	6.2
60	15.9	5.1	6.7	7.7	9.0	10.3

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
kg	12 mm.	13 mm.	12 mm.	13 mm.
62,5	55	50	75	70

Performance charts at the 1° layer



Hydraulic Winch RCH 5.400 Hydraulic worm gear winch

Technical data

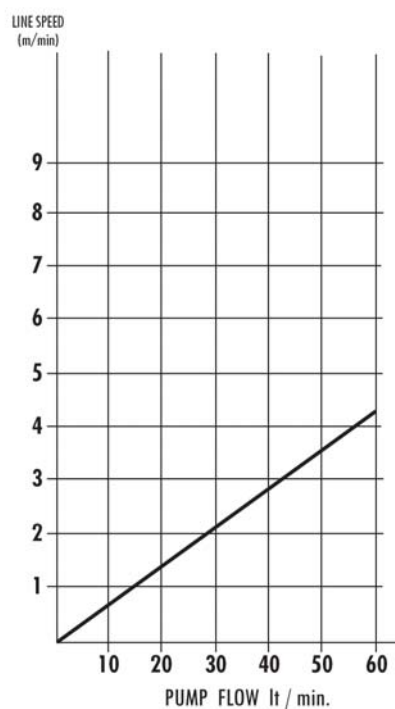
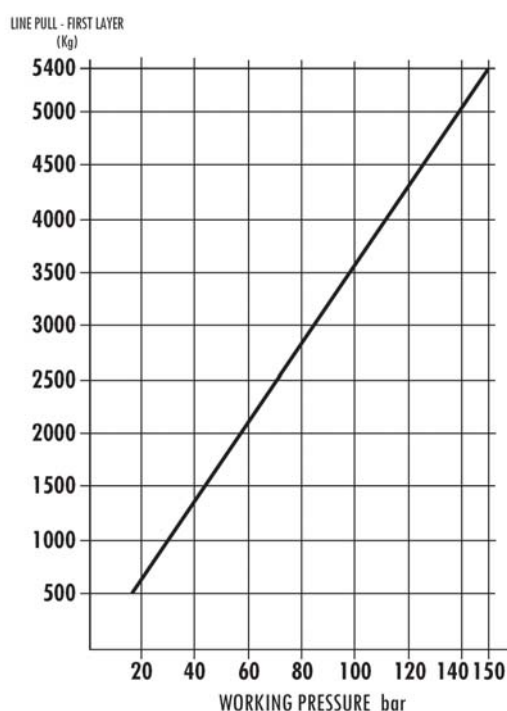
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:29	12	1	5400
		2	4400
		3	3730
		4	3230
		5	2850
1:29	13	1	5400
		2	4350
		3	3640
		4	3130
		5	2750

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
30	6.2	2.1	2.6	3.0	3.5	4.0
40	8.6	2.9	3.6	4.2	4.8	5.5
60	13	4.4	5.4	6.3	7.3	8.3

OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
30	6.2	2.1	2.6	3.1	3.6	4.1
40	8.6	2.9	3.6	4.3	5.0	5.7
60	13	4.4	5.5	6.5	7.5	8.7

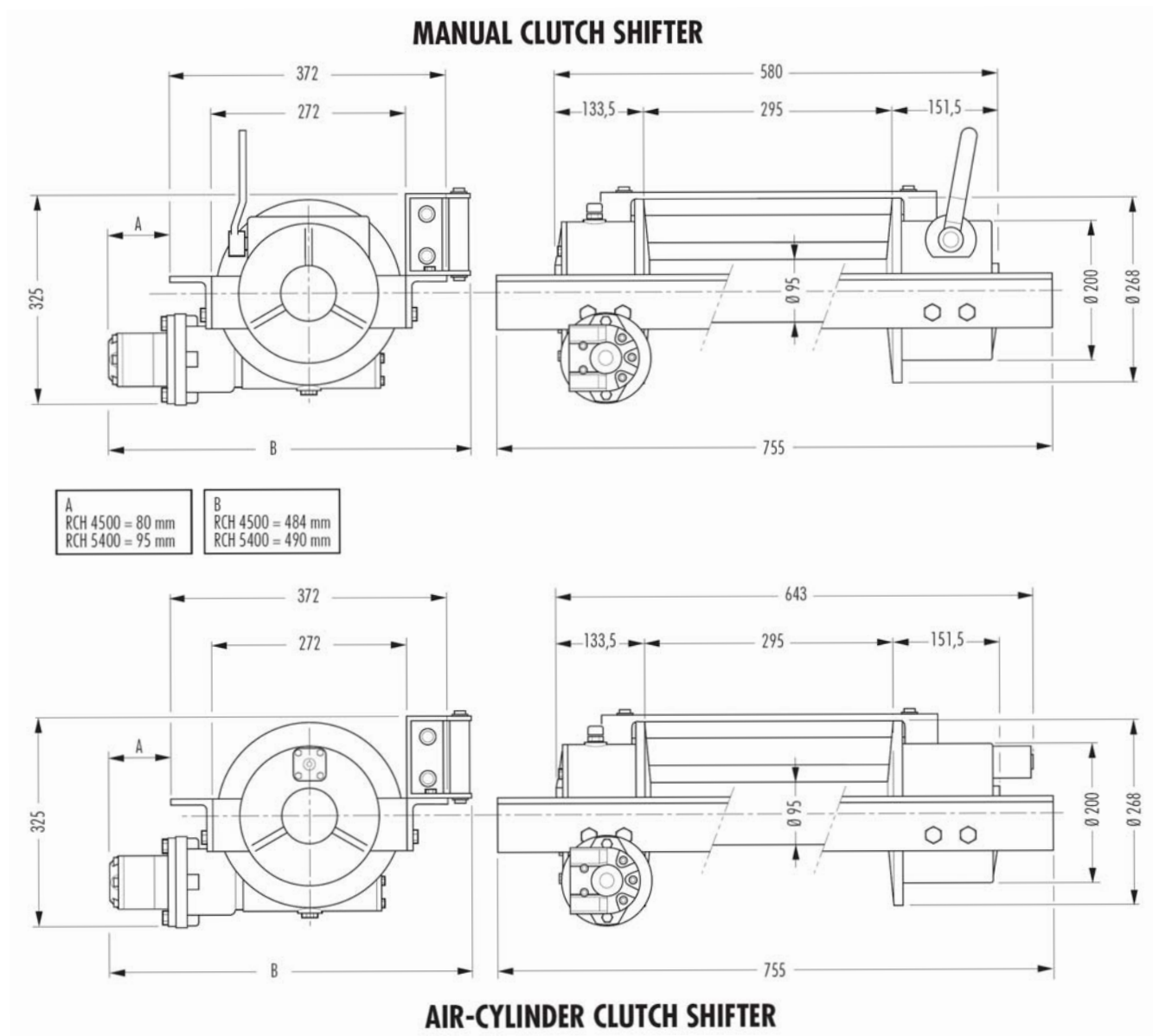
WEIGHT WITHOUT CABLE kg	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
	12 mm.	13 mm.	12 mm.	13 mm.
62,5	55	50	75	70

Performance charts at the 1° layer



Hydraulic Winch RCH 5.400 - RCH 4.500 Hydraulic worm gear winch

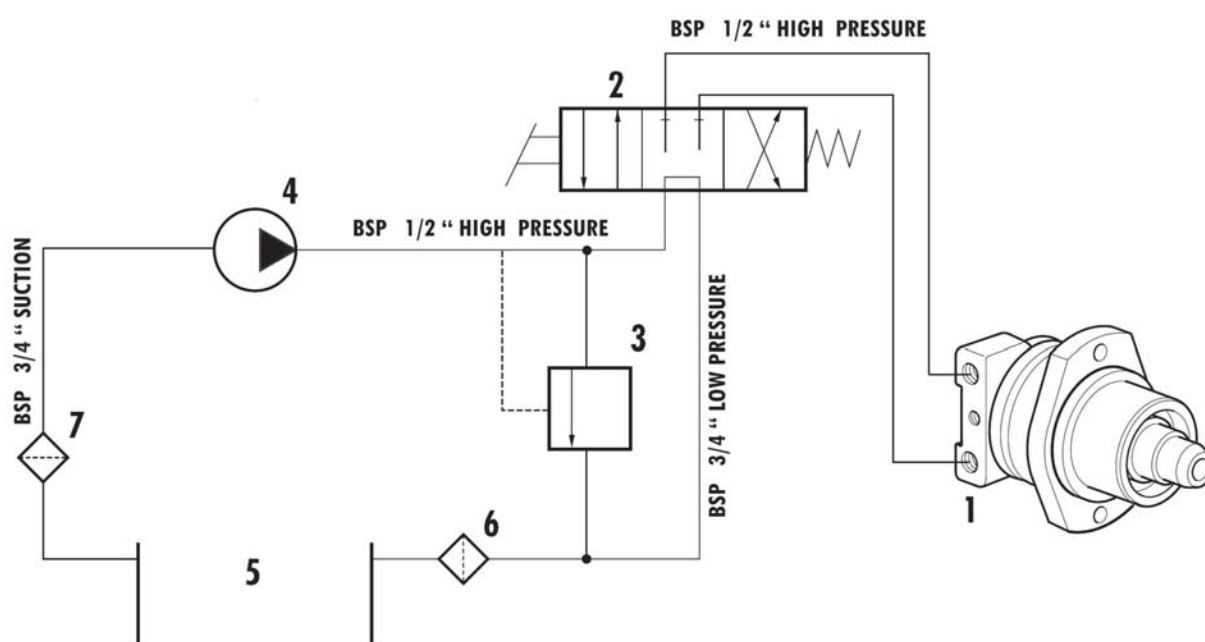
Dimensions



Hydraulic Winch RCH 5.400 - RCH 4.500 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER



WARNING :

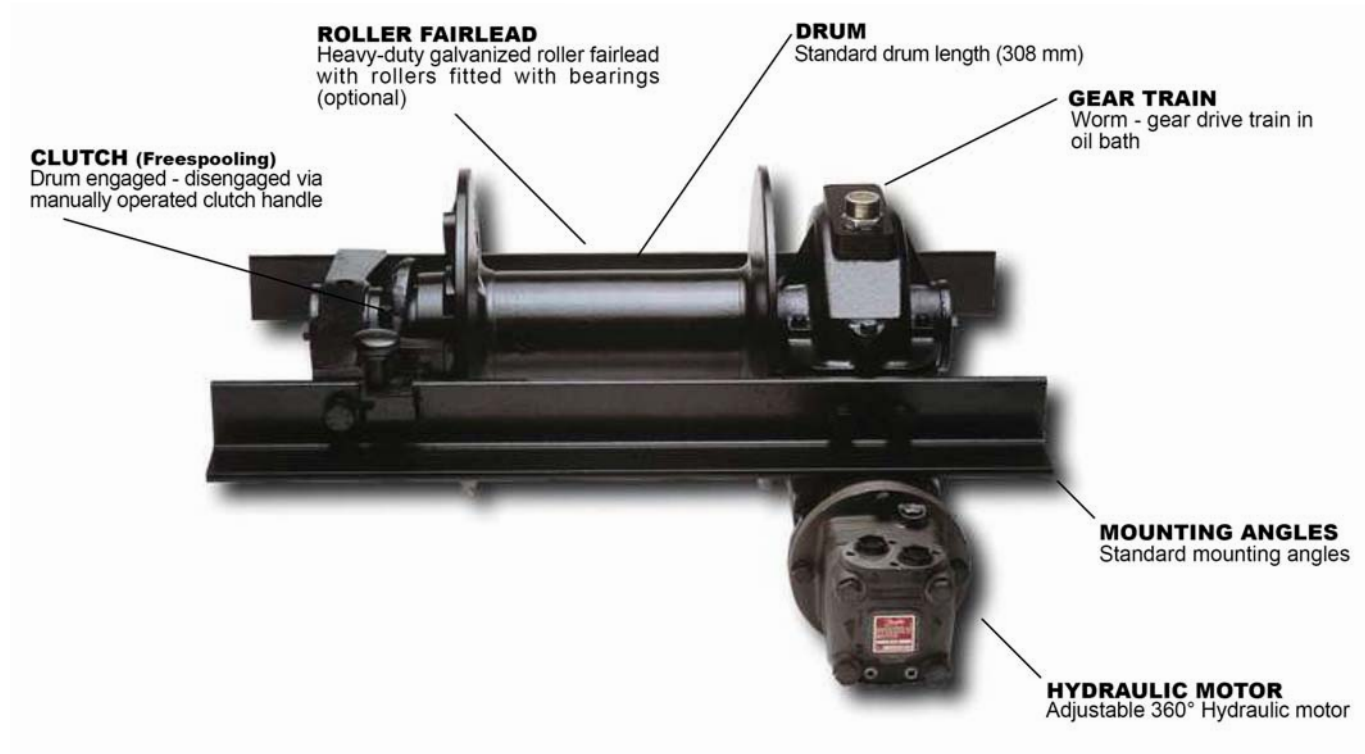
Before operating check the oil level and add if necessary.



WARNING :

Do not exceed 60 lt / min.
If exceeded the hydraulic motor may be damaged.

Hydraulic Winch TH 6.000 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) = **6.000 kg**
- Hydraulic orbit motor
- Working pressure = **120 bar**
- Worm gear .
- Manual clutch shifter
- Heavy-duty roller fairlead on request
- Weight without cable = **158 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch TH 6.000 Hydraulic worm gear winch

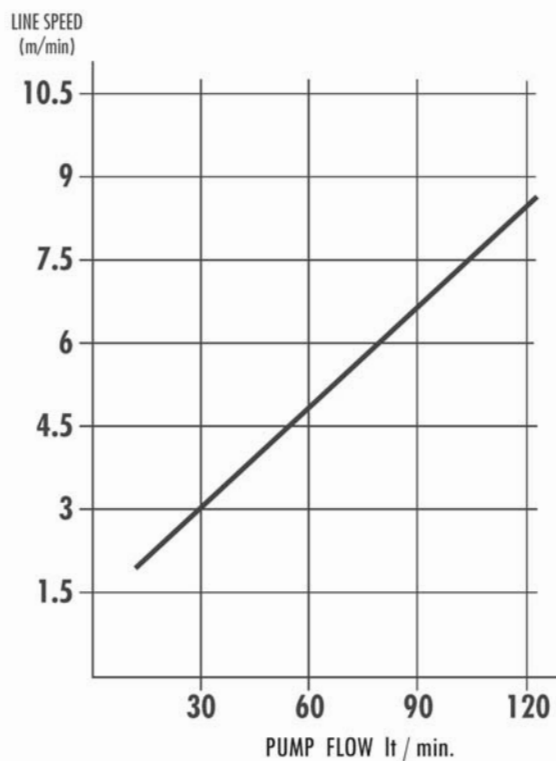
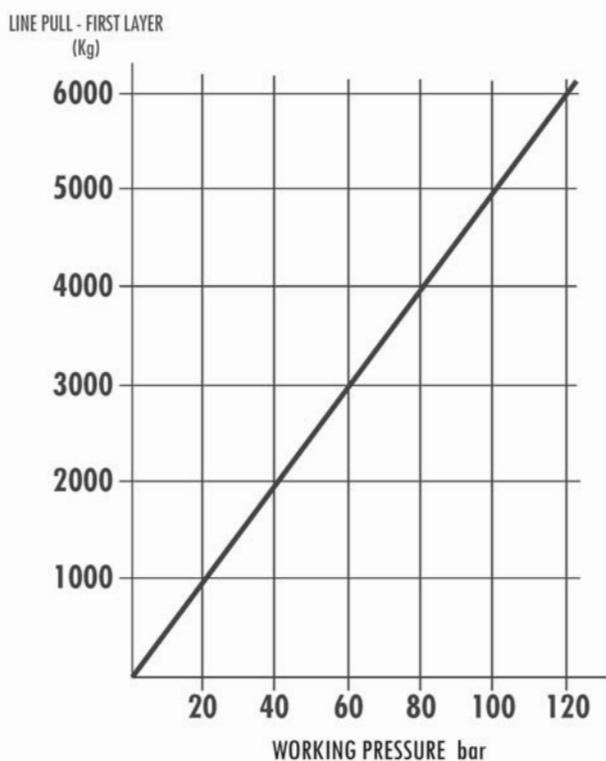
Technical data

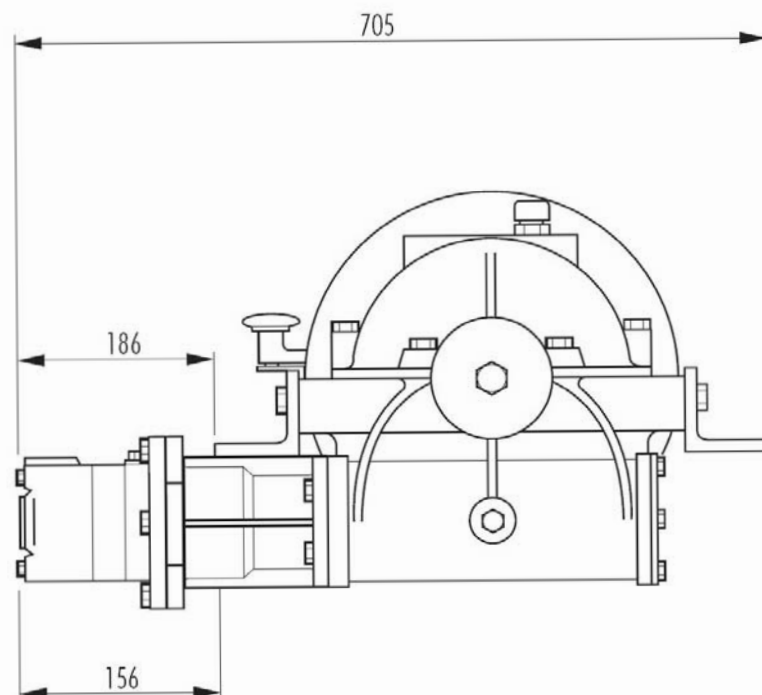
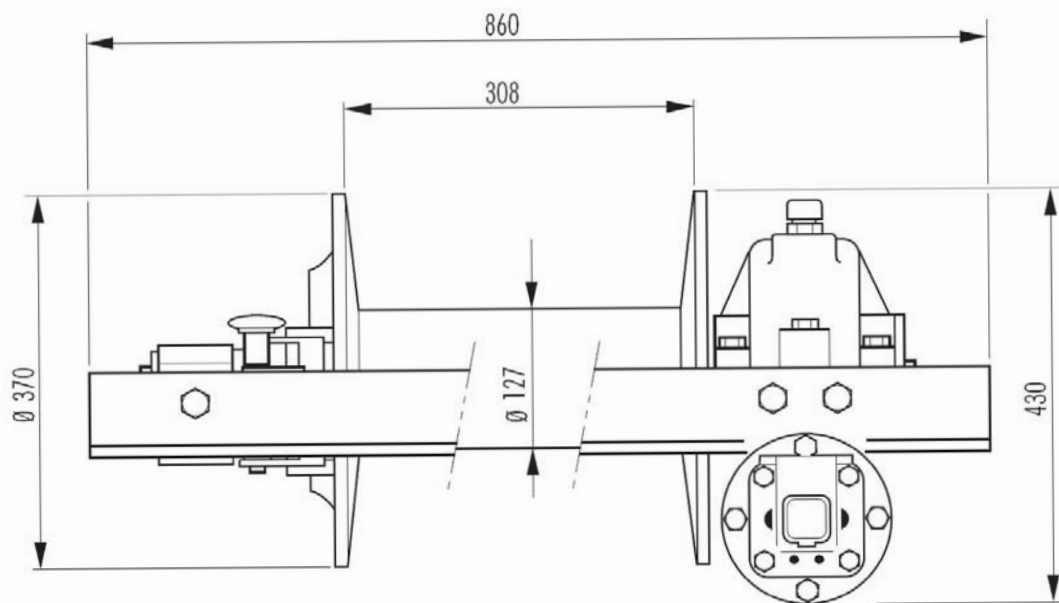
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:29	16	1	6000
		2	4850
		3	4100
		4	3500
		5	3100

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
60	10.4	4.5	5.5	6.5	7.5	8.6
80	13.8	5.9	7.3	8.7	10.0	11.4
100	16.9	7.2	8.9	10.6	12.3	14.0

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m	MAX. WIRE ROPE CAPACITY m
kg	16 mm.	16 mm.
158	60	115

Performance charts at the 1° layer

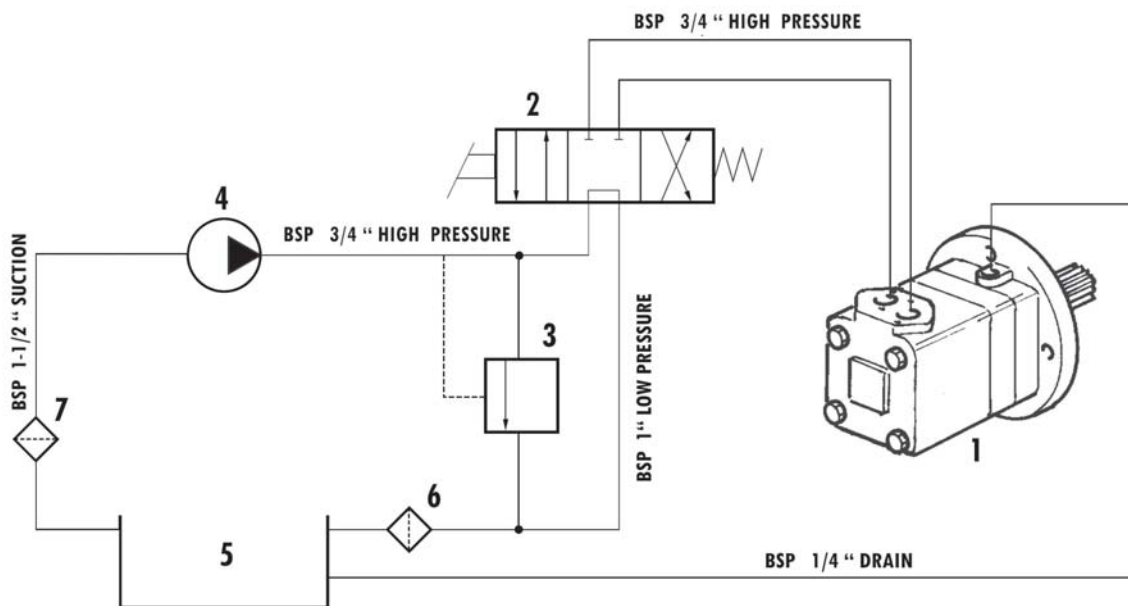


Hydraulic Winch TH 6.000
Hydraulic worm gear winch**Dimensions**

Hydraulic Winch TH 6.000 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

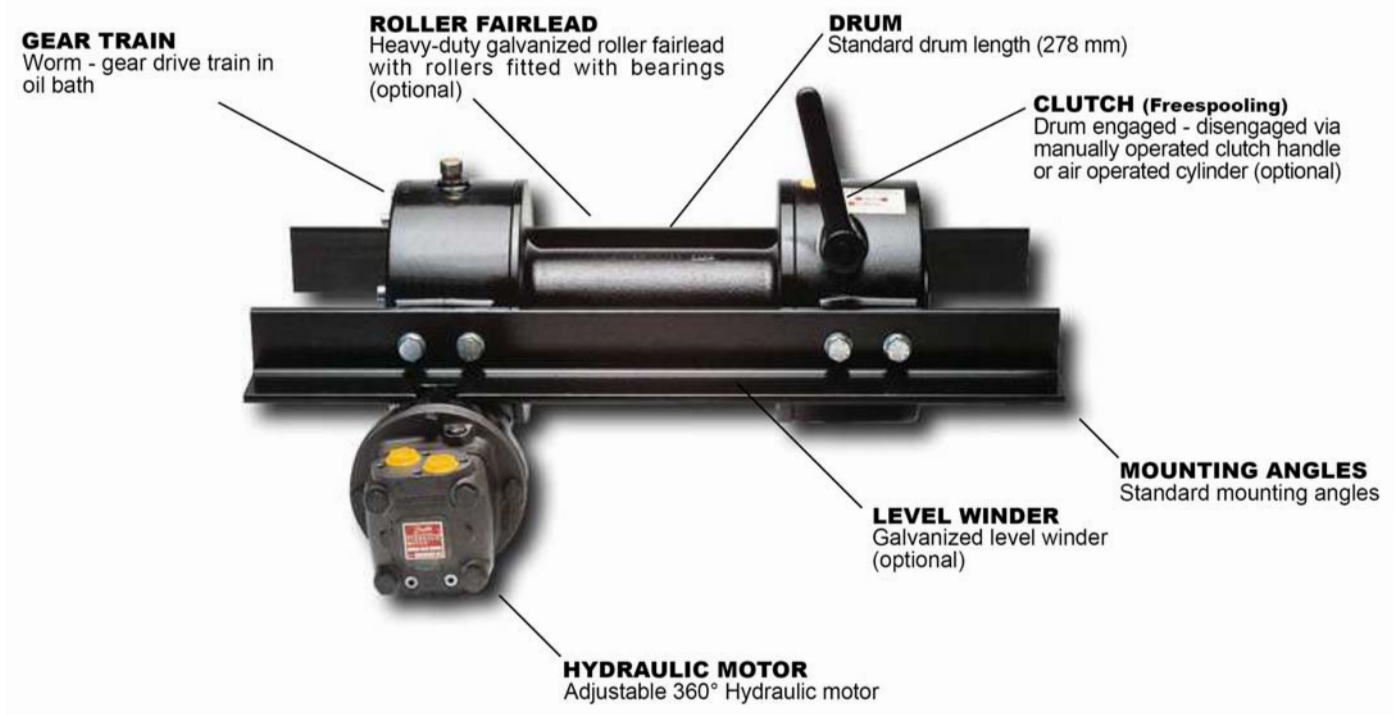
- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

WARNING :
Before operating check the oil level and add if necessary.

WARNING :
Do not exceed 100 lt / min.
If exceeded the hydraulic motor may be damaged.

WARNING :
Hydraulic motor drainage will be connected with return line to the reservoir.

Hydraulic Winch MH 8.000 - MH 6.500 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model MH 6.500 = **6.500 kg**
 - for model MH 8.000 = **8.000 kg**
- Hydraulic orbit motor
- Working pressure :
 - for model MH 6.500 = **130 bar**
 - for model MH 8.000 = **150 bar**
- Worm gear .
- Manual clutch shifter (air-cylinder clutch shifter on request)
- Heavy-duty roller fairlead on request
- Weight without cable = **112 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch MH 6.500 Hydraulic worm gear winch

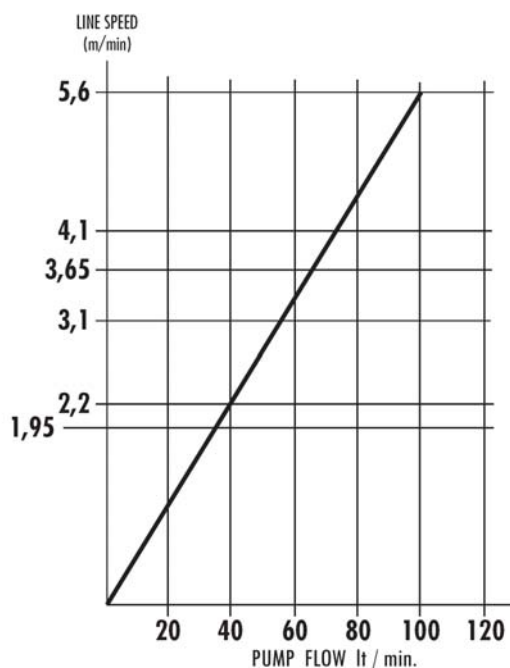
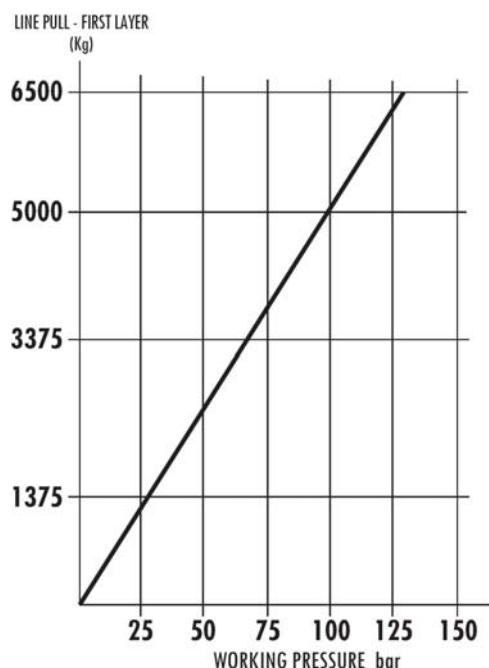
Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.				
	mm.		kg			LAYERS				
1:35	15	1	6500	60	8.6	1°	2°	3°	4°	5°
		2	5300			3.3	4.1	4.9	5.7	6.5
		3	4450			4.4	5.5	6.6	7.7	8.7
		4	3850			5.5	6.8	8.2	9.5	10.9
		5	3400							
1:35	16 DIN 15020	1	6500	80	11.5					
		2	5200							
		3	4300							
		4	3700							
		-	-							

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
kg	15 mm.	16 mm.	15 mm.	16 mm.
112	35	30	40	35

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
lt / min.	n / min.	LAYERS				
60	8.6	1°	2°	3°	4°	5°
80	11.5	3.3	4.2	5.1	6.0	-
100	14.3	4.4	5.6	6.8	8.0	-
		5.5	7.0	8.4	9.9	-

Performance charts at the 1° layer



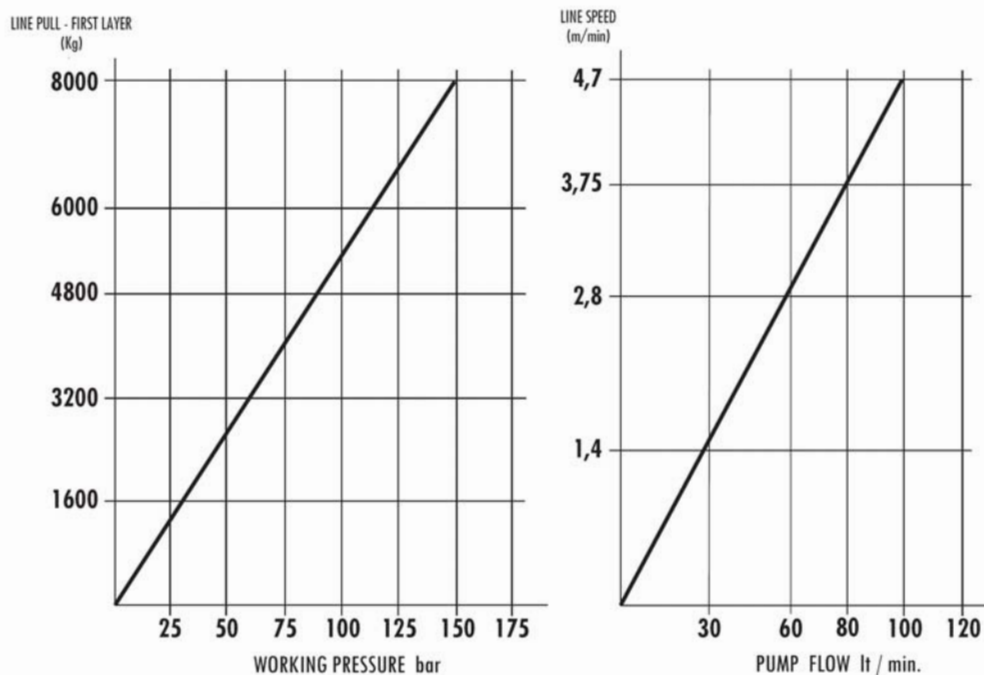
Hydraulic Winch MH 8.000 Hydraulic worm gear winch

Technical data

RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	OIL SUPPLY lt / min.	DRUM REVOLUTION n / min.	LINE SPEED m/min.					
	mm.		kg			LAYERS					
1:35	15	1	8.000	60	6,85	1°	2°	3°	4°	5°	
		2	6.500			2,80	3,44	4,09	4,73	-	
		3	5.470			3,73	4,59	5,45	6,31	-	
		4	4.725			4,66	5,73	6,81	7,89	-	
		5	-								
1:35	16	1	8.000	80	9,14	1°	2°	3°	4°	5°	
		2	6.430			2,81	3,50	4,19	4,88	-	
		3	5.380			3,75	4,68	5,60	6,51	-	
		4	4.620			4,70	5,84	6,99	8,13	-	
		-	-								

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY	
kg	15 mm.	16 mm.	15 mm.	16 mm.
-	35	30	40	35

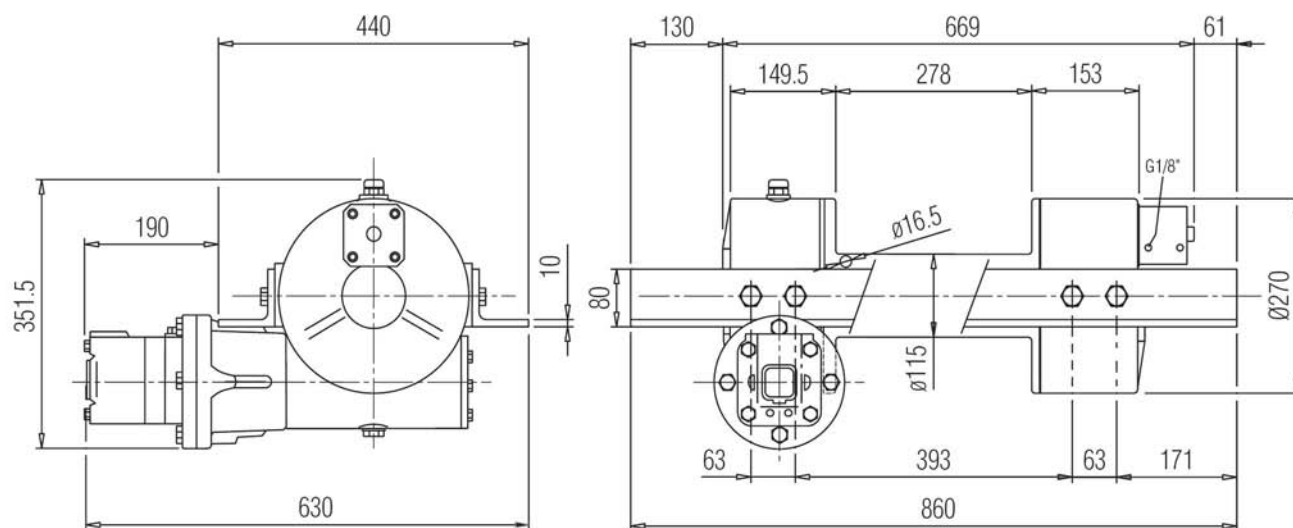
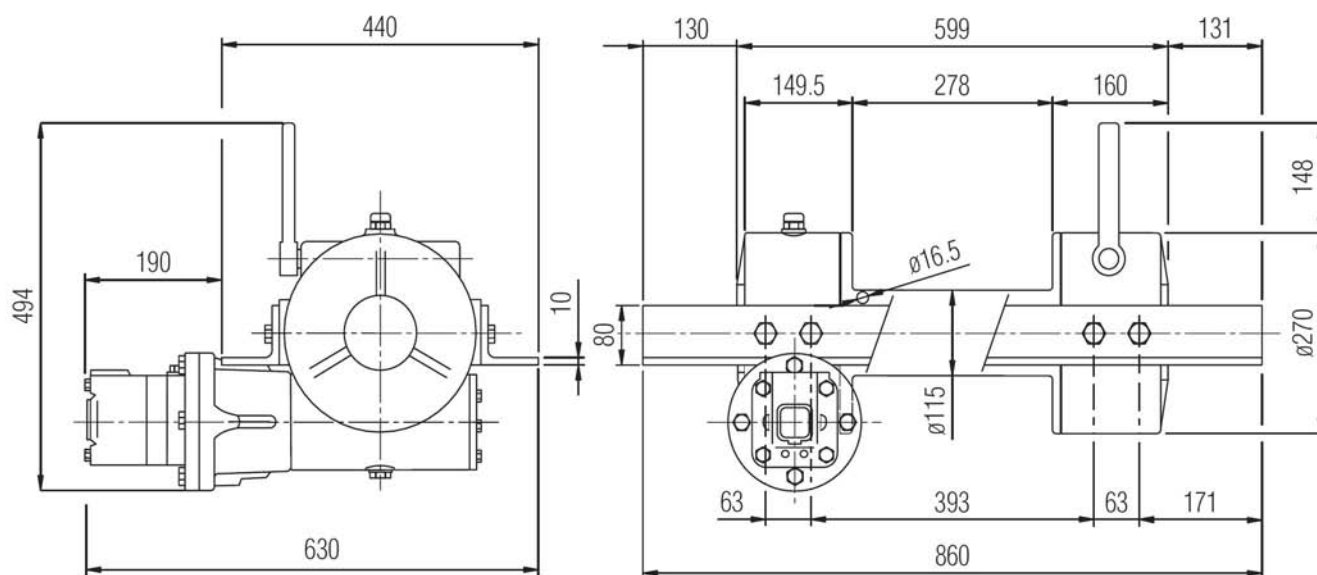
Performance charts at the 1° layer



Hydraulic Winch MH 8.000 - MH 6.500 Hydraulic worm gear winch

Dimensions

MANUAL CLUTCH SHIFTER

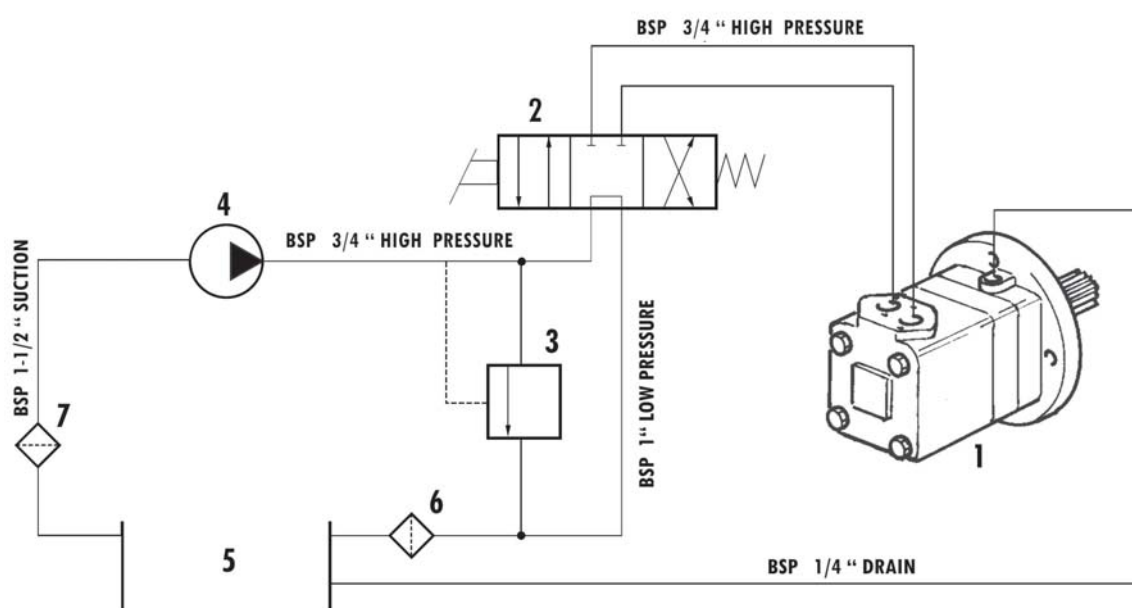


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch MH 8.000 - MH 6.500 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

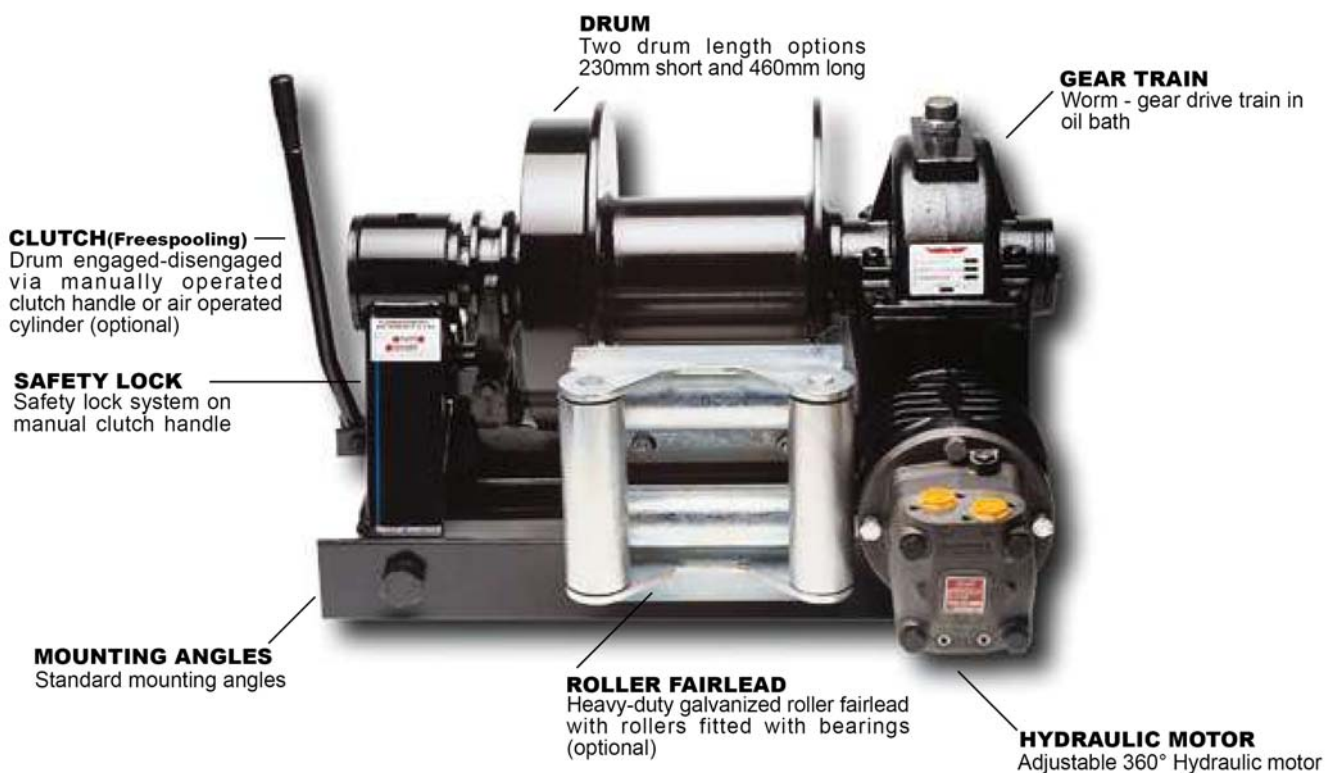
- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

⚠ WARNING :
Before operating check the oil level and add if necessary.

⚠ WARNING :
Do not exceed 100 lt / min.
If exceeded the hydraulic motor may be damaged.

⚠ WARNING :
Hydraulic motor drainage will be connected with return line to the reservoir.

Hydraulic Winch WH 15.000 - WH 12.500 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) :
 - for model WH 12.500 = **12.500 kg**
 - for model WH 15.000 = **15.000 kg**
- Hydraulic orbit motor
- Working pressure :
 - for model WH 12.500 = **140 bar**
 - for model WH 15.000 = **160 bar**
- Worm gear .
- Clutch with safety lock into engaged position
- Weight without cable
 - Short model = **266 kg**
 - Long model = **290 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch WH 12.500 Hydraulic worm gear winch

Technical data

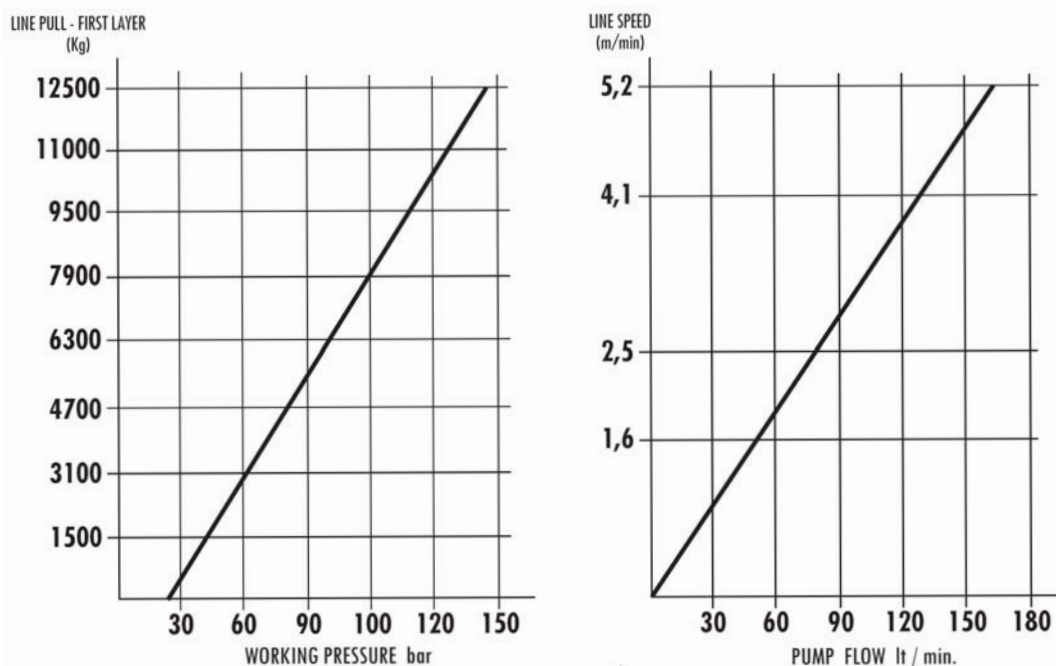
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL	
	mm.		kg	
1:35	20	1	12500	
		2	10300	
		3	8700	
		4	7500	
		5	6650	
1:35	22 DIN 15020	1	12500	
		2	10100	
		3	8500	
		4	7300	
		5	6400	

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
		LAYERS					
lt / min.	n/ min.	1°	2°	3°	4°	5°	
75	4.3	2.5	3.0	3.5	4.0	4.6	
125	7.2	4.1	5.0	5.9	6.8	7.7	
160	9.2	5.2	6.4	7.5	8.7	9.8	

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.					
		LAYERS					
lt / min.	n/ min.	1°	2°	3°	4°	5°	
75	4.3	2.5	3.4	3.7	4.3	4.9	
125	7.2	4.1	5.1	6.1	7.1	8.1	
160	9.2	5.2	6.5	7.8	9.1	10.3	

DRUM		WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
		kg	20 mm.	22 mm.	20 mm.	22 mm.
SHORT	WHC	266	30	30	54	50
LONG	WHL	290	60	60	110	100

Performance charts at the 1° layer



Hydraulic Winch WH 15.000 Hydraulic worm gear winch

Technical data

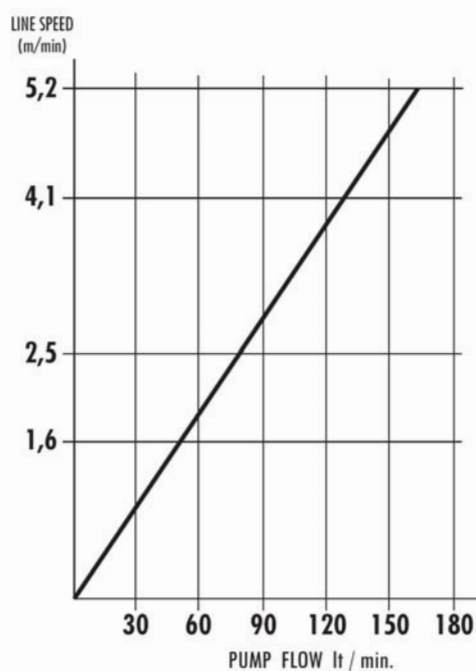
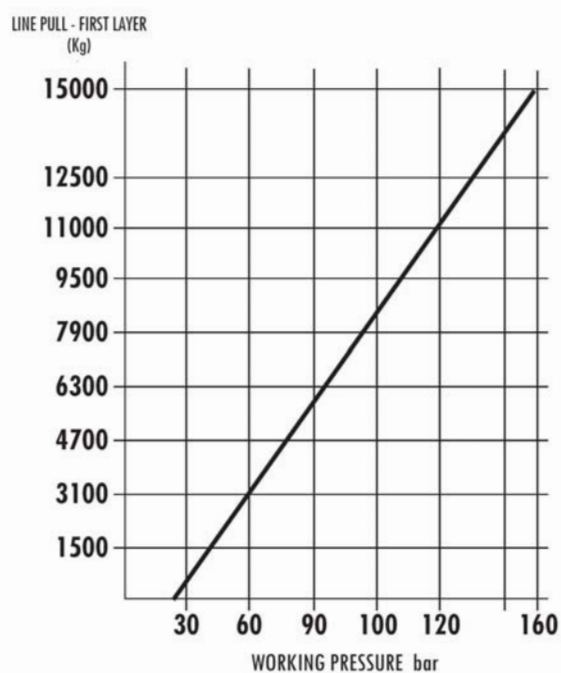
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:35	20	1	15000
		2	12270
		3	10380
		4	9000
		5	7950
1:35	22 DIN 15020	1	15000
		2	12000
		3	10100
		4	8670
		5	7600

OIL SUPPLY lt / min.	DRUM REVOLUTION n/ min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
75	4.3	2.5	3.0	3.5	4.0	4.6
125	7.2	4.1	5.0	5.9	6.8	7.7
160	9.2	5.2	6.4	7.5	8.7	9.8

OIL SUPPLY lt / min.	DRUM REVOLUTION n/ min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
75	4.3	2.5	3.4	3.7	4.3	4.9
125	7.2	4.1	5.1	6.1	7.1	8.1
160	9.2	5.2	6.5	7.8	9.1	10.3

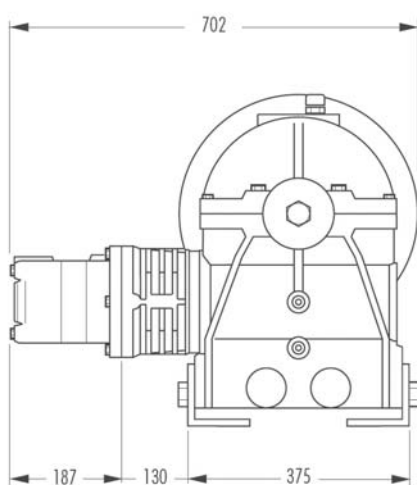
DRUM		WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
		kg	20 mm.	22 mm.	20 mm.	22 mm.
SHORT	WHC	266	30	30	54	50
LONG	WHL	290	60	60	110	100

Performance charts at the 1° layer

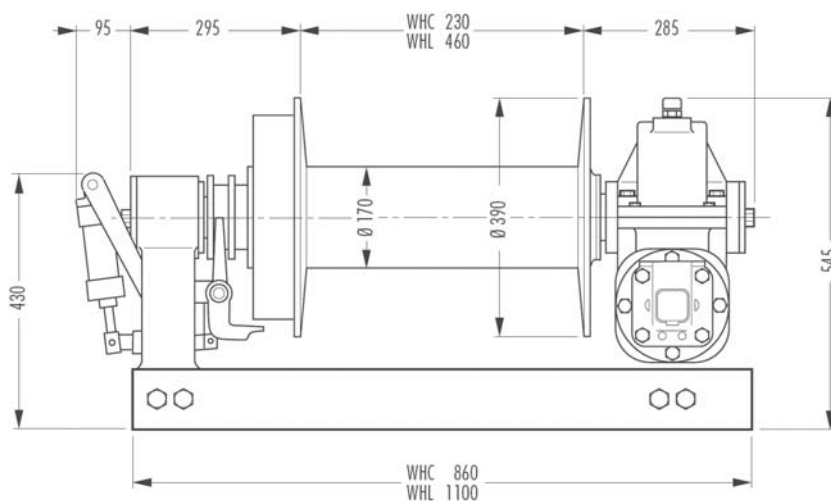
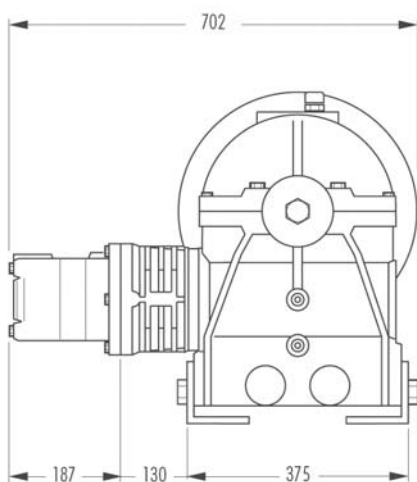
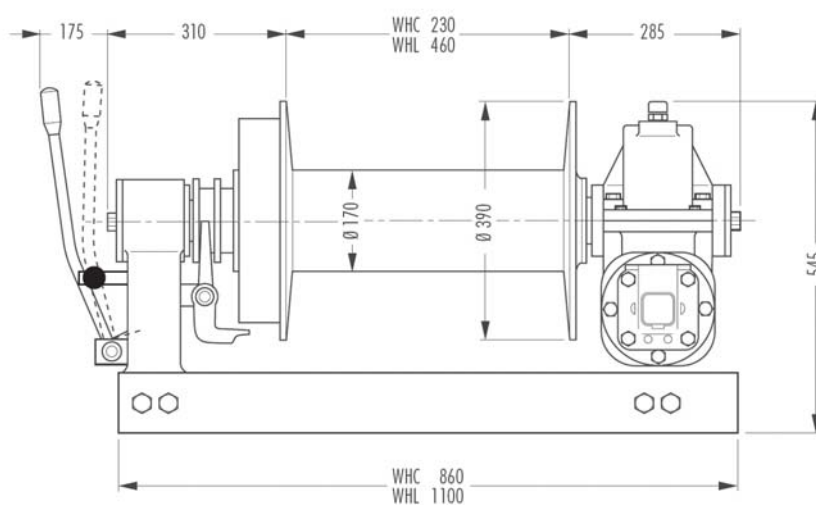


Hydraulic Winch WH 15.000 - WH 12.500 Hydraulic worm gear winch

Dimensions



MANUAL CLUTCH SHIFTER

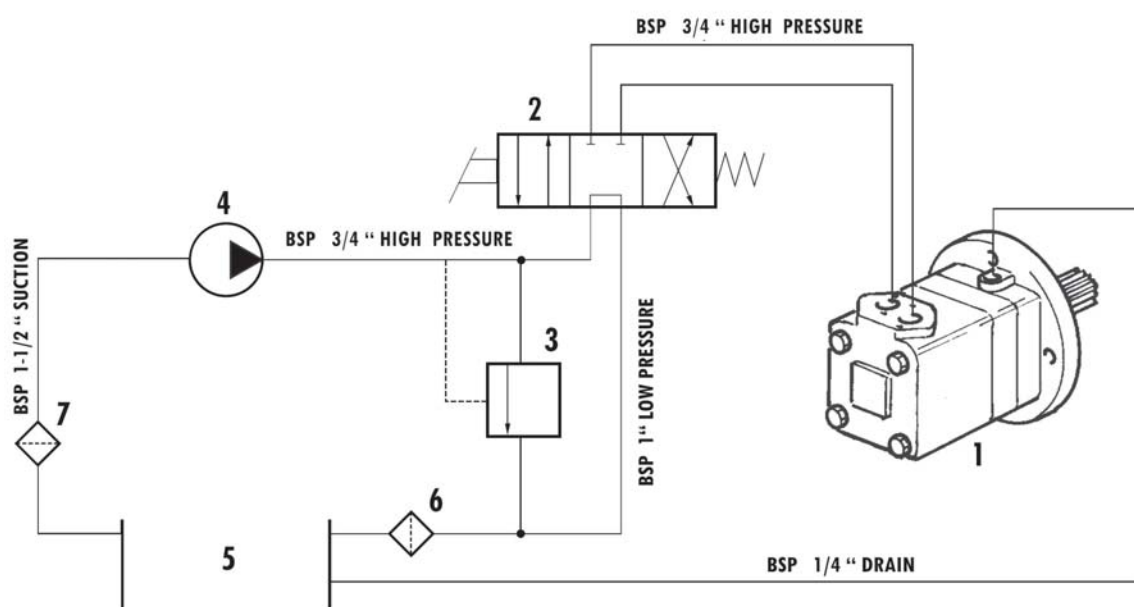


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch WH 15.000 - WH 12.500 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC ORBIT MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

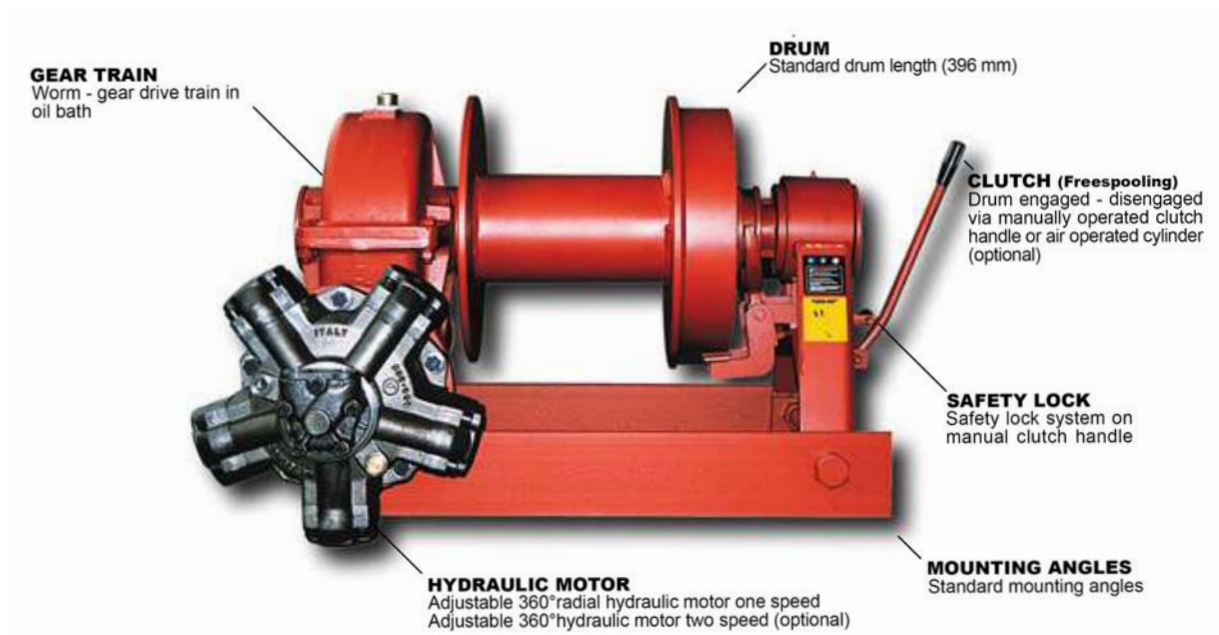
- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

WARNING :
Before operating check the oil level and add if necessary.

WARNING :
Do not exceed 160 lt / min.
If exceeded the hydraulic motor may be damaged.

WARNING :
Hydraulic motor drainage will be connected with return line to the reservoir.

Hydraulic Winch NH 20.000 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) : = **20.000 kg**
- Hydraulic radial piston motor
- Working pressure = **170 bar**
- Worm gear .
- Clutch with safety lock into engaged position
- Weight without cable = **530 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch NH 20.000 Hydraulic worm gear winch

Technical data

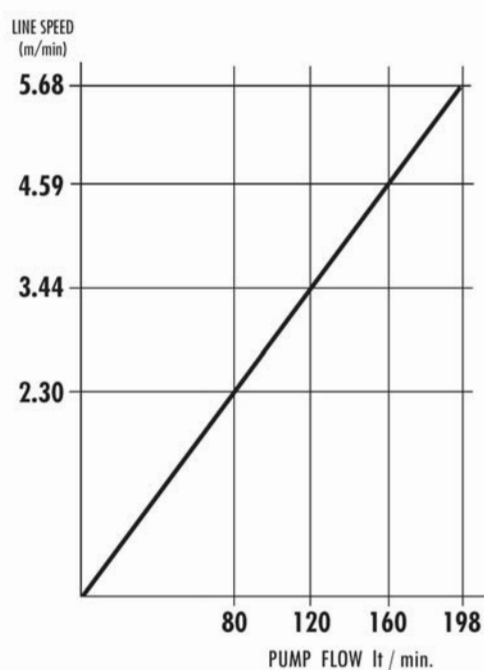
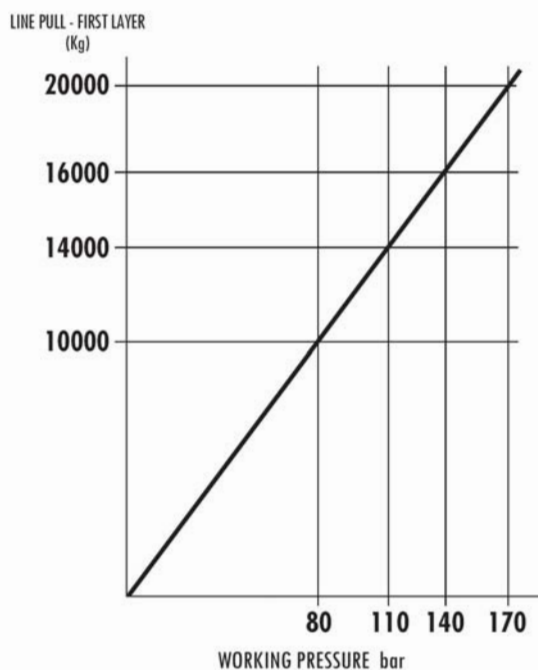
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:30	22	1	20000
		2	16650
		3	14250
		4	12450
		5	11000
1:30	24	1	20000
		2	16400
		3	13900
		4	12000
		5	10650

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m	
kg	22 mm.	24 mm.	22 mm.	24 mm.
530	70	60	-	-

OIL SUPPLY lt / min.	DRUM REVOLUTION n/ min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
79	3.33	2.27	2.73	3.19	3.65	4.11
158	6.66	4.54	5.46	6.38	7.30	8.22
198	8.33	5.68	6.83	7.98	9.13	10.28

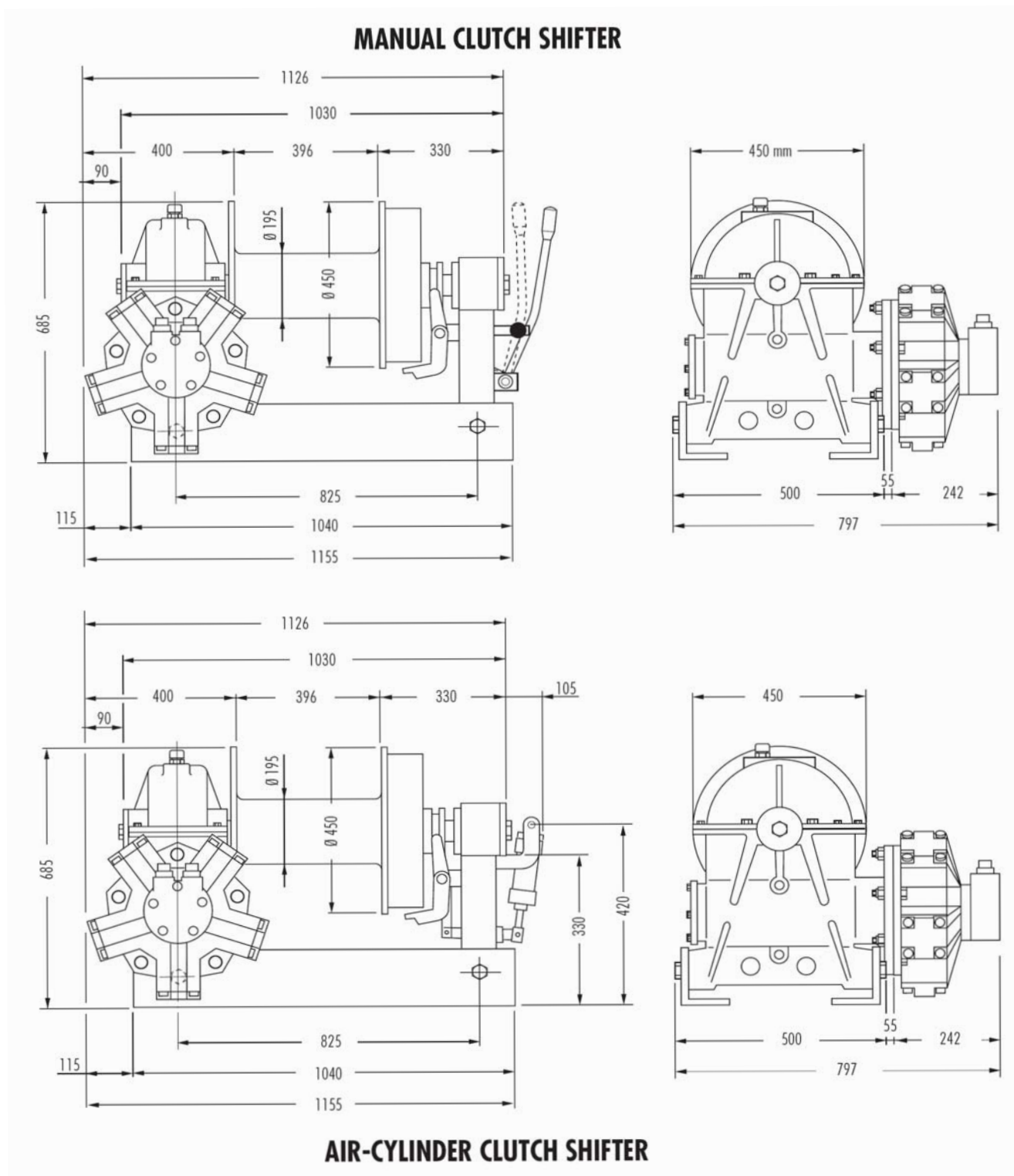
OIL SUPPLY lt / min.	DRUM REVOLUTION n/ min.	LINE SPEED m/min.				
		LAYERS				
		1°	2°	3°	4°	5°
79	3.33	2.29	2.80	3.30	3.80	4.30
158	6.66	4.58	5.59	6.59	7.60	8.60
198	8.33	5.73	6.99	8.24	9.50	10.75

Performance charts at the 1° layer



Hydraulic Winch NH 20.000 Hydraulic worm gear winch

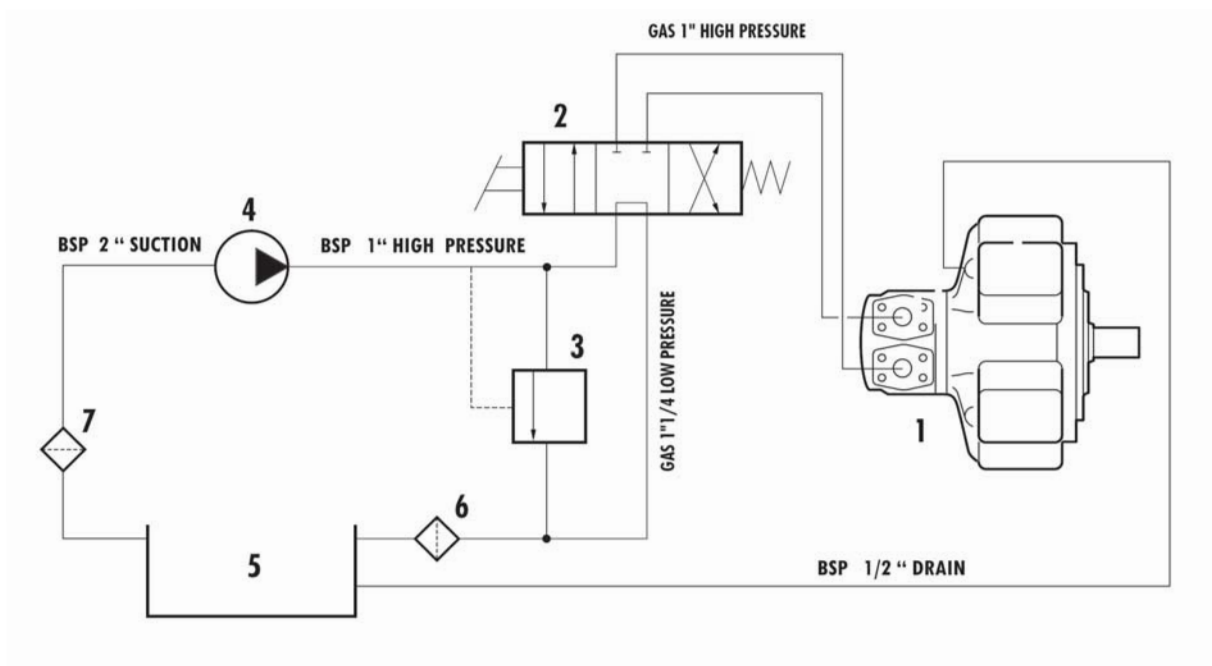
Dimensions



Hydraulic Winch NH 20.000 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC RADIAL PISTON MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER



WARNING :

Before operating check the oil level and add if necessary.



WARNING :

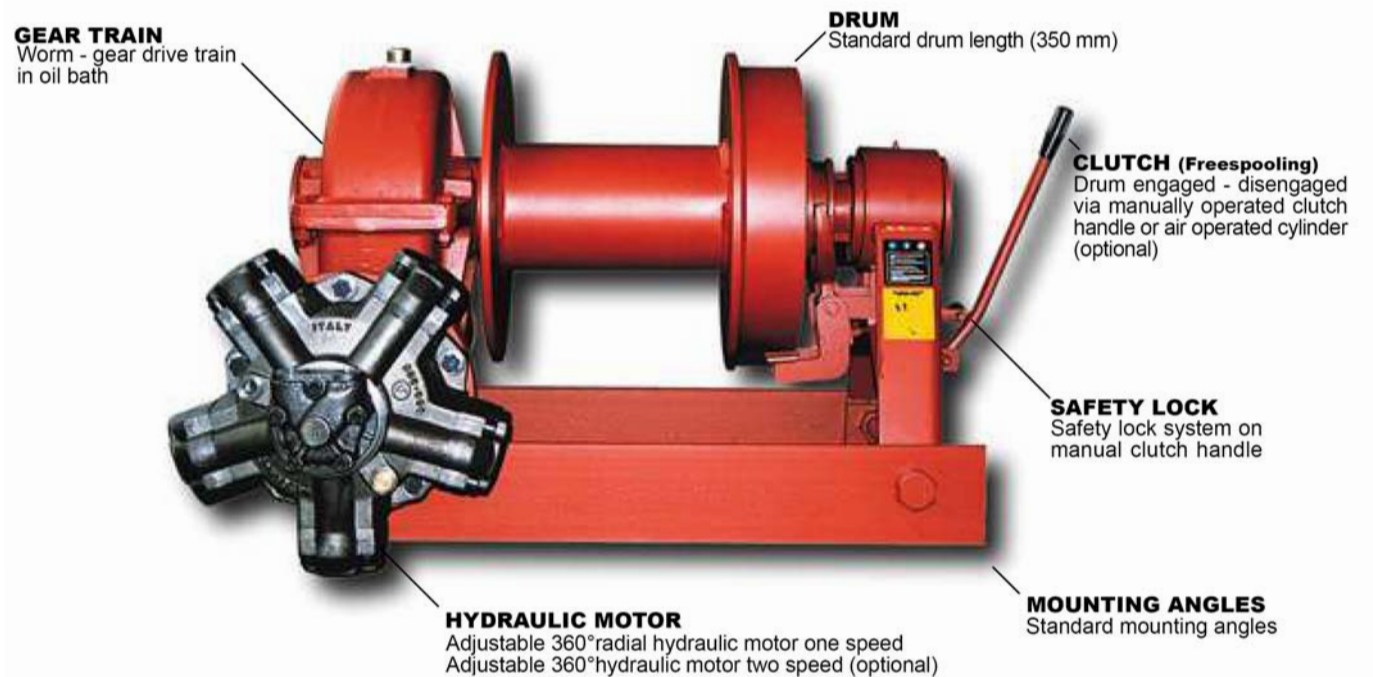
Do not exceed 200 lt / min.
If exceeded the hydraulic motor may be damaged.



WARNING :

Hydraulic motor drainage will be connected with return line to the reservoir.

Hydraulic Winch PH 30.000 Hydraulic worm gear winch



SPECIFICATIONS

- Rated line pull (1° layer) : = **30.000 kg**
- Hydraulic radial piston motor
- Working pressure = **180 bar**
- Worm gear .
- Clutch with safety lock into engaged position
- Weight without cable = **630 kg**



- DANGER :

Do not use winch to lift support or otherwise transport personnel.

Hydraulic Winch PH 30.000 Hydraulic worm gear winch

Technical data

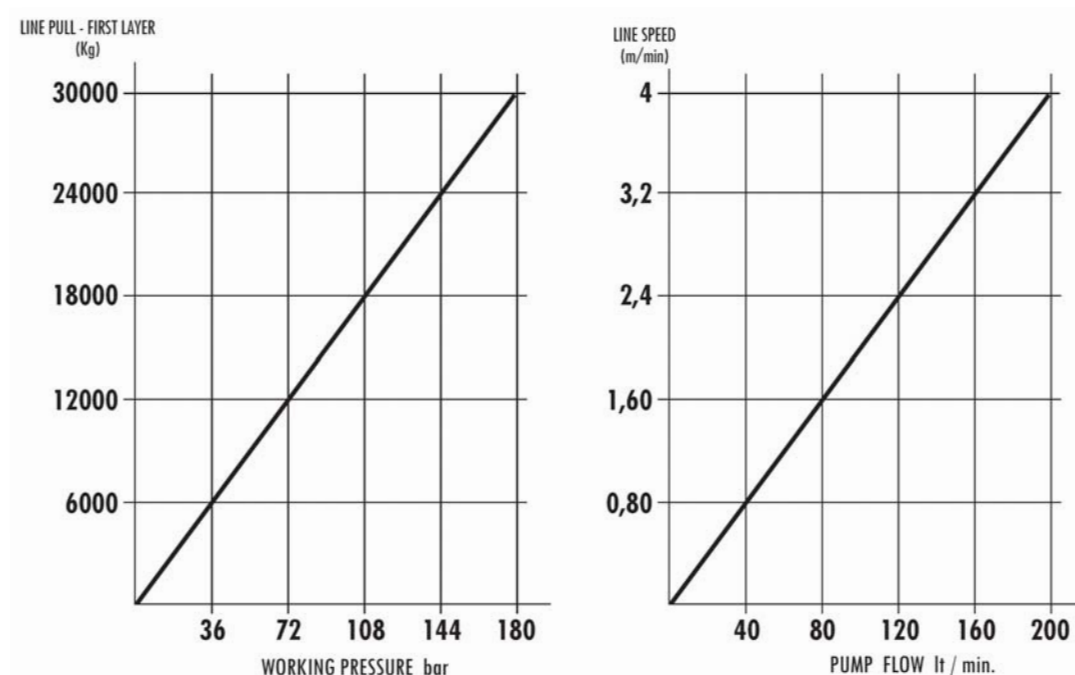
RATIO	WIRE ROPE SIZE	LAYER	LINE PULL
	mm.		kg
1:37	24	1	30000
		2	24900
		3	21300
		4	18600
		5	16500
1:37	26	1	30000
		2	24600
		3	20900
		4	18100
		5	-

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
100	2.8	2.0	2.4	2.8	3.2	3.6
150	4.0	3.0	3.6	4.2	4.8	5.4
200	5.4	4.0	4.8	5.6	6.4	7.3

OIL SUPPLY	DRUM REVOLUTION	LINE SPEED m/min.				
		LAYERS				
lt / min.	n / min.	1°	2°	3°	4°	5°
100	2.8	2.0	2.6	3.0	3.5	-
150	4.0	3.0	3.7	4.3	5.0	-
200	5.4	4.0	4.9	5.8	6.7	-

WEIGHT WITHOUT CABLE	WIRE ROPE CAPACITY m		MAX. WIRE ROPE CAPACITY m		
	kg	24 mm.	26 mm.	24 mm.	26 mm.
630	50	50	72	68	

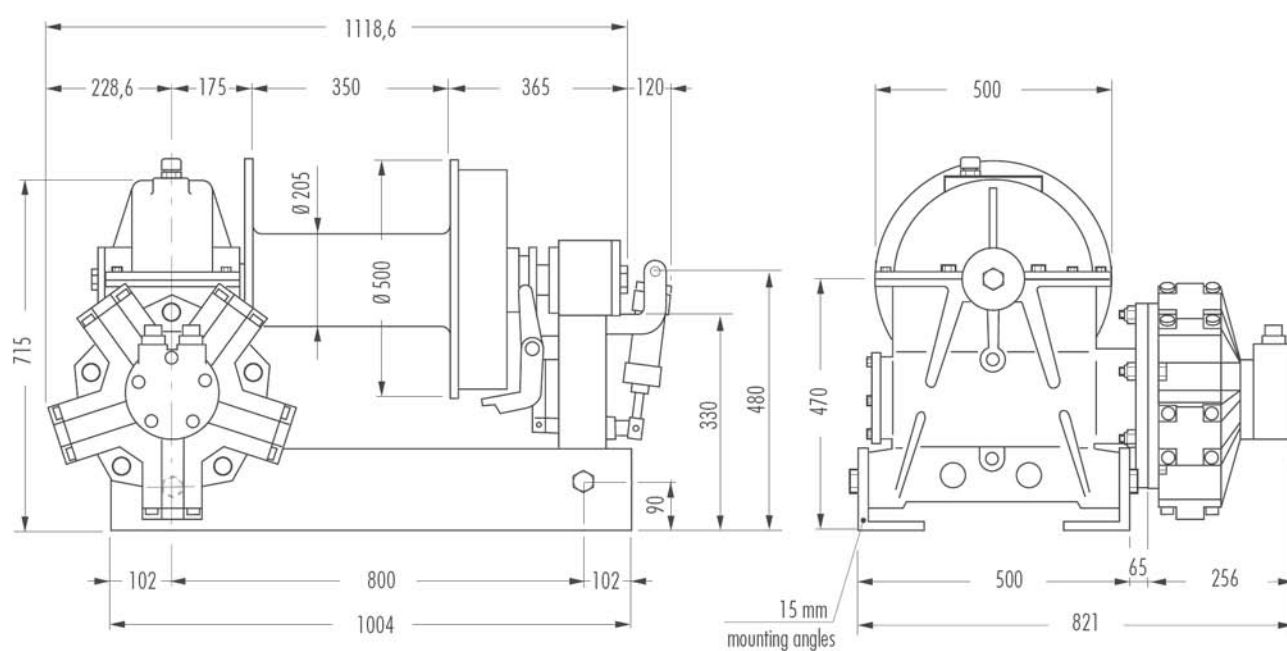
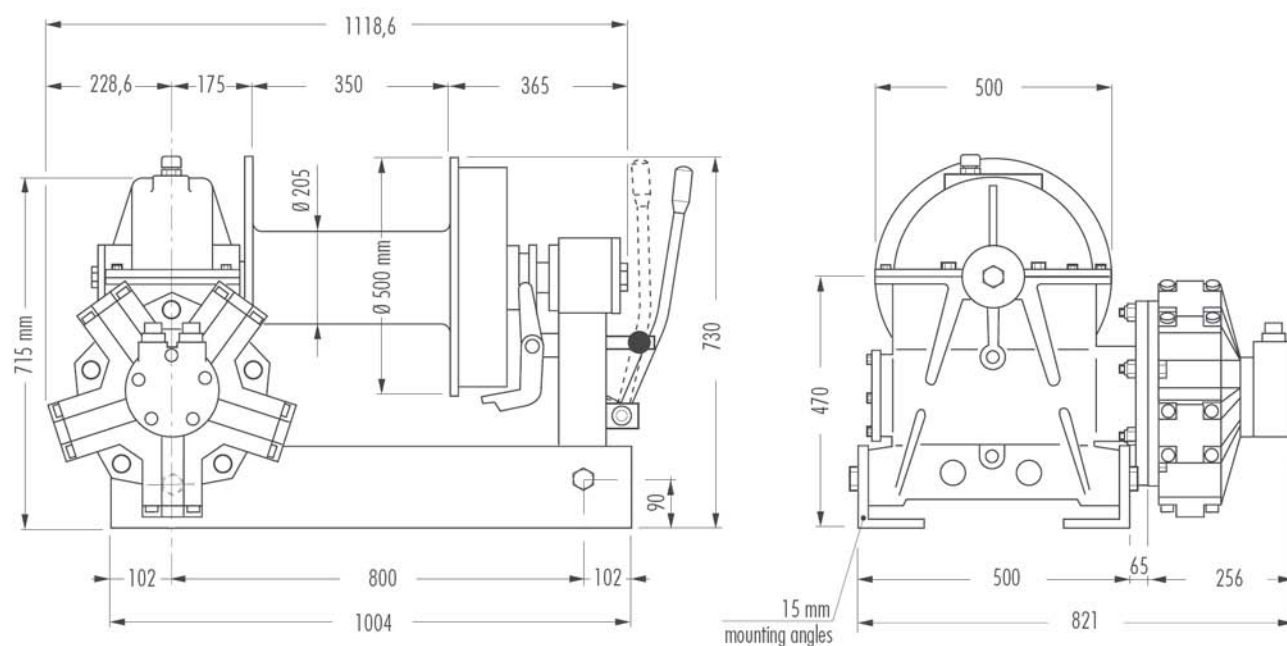
Performance charts at the 1° layer



Hydraulic Winch PH 30.000 Hydraulic worm gear winch

Dimensions

MANUAL CLUTCH SHIFTER

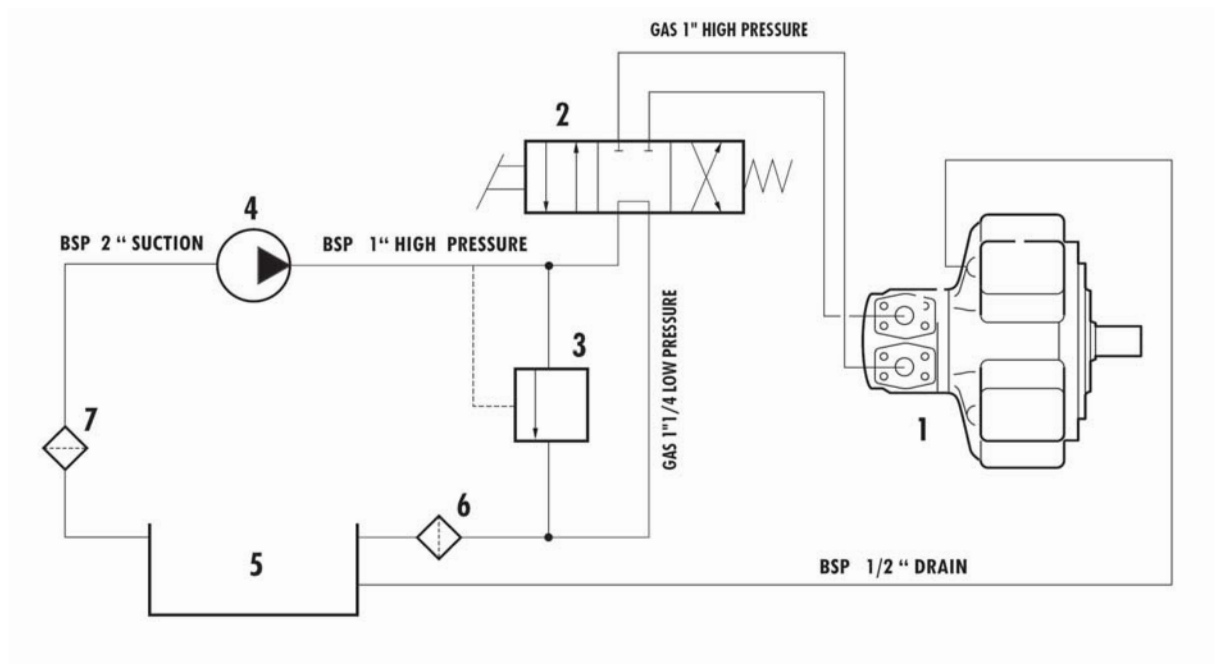


AIR-CYLINDER CLUTCH SHIFTER

Hydraulic Winch PH 30.000 Hydraulic worm gear winch

Hydraulic wiring diagram

Refer to the typical layout below, to properly match your hydraulic system to the winch performance.



- 1 = HYDRAULIC RADIAL PISTON MOTOR
- 2 = DIRECTIONAL CONTROL VALVE
- 3 = RELIEF VALVE
- 4 = HYDRAULIC PUMP

- 5 = FLUID RESERVOIR
- 6 = RETURN FLUID FILTER (10 microns)
- 7 = SUCTION FLUID FILTER

⚠ WARNING :
Before operating check the oil level and add if necessary.

⚠ WARNING :
Do not exceed 200 lt / min.
If exceeded the hydraulic motor may be damaged.

⚠ WARNING :
Hydraulic motor drainage will be connected with return line to the reservoir.

As HANSA-TMP has a very extensive range of products and some products have a variety of applications, the information supplied may often only apply to specific situations.

If the catalogue does not supply all the information required, please contact HANSA-TMP. In order to provide a comprehensive reply to queries we may require specific data regarding the proposed application.

Whilst every reasonable endeavour has been made to ensure accuracy, this publication cannot be considered to represent part of any contract, whether expressed or implied.

HANSA-TMP reserves the right to amend specifications at their discretion.

Poichè HANSA-TMP offre una gamma di prodotti molto estesa ed alcuni di questi vengono impiegati per più tipi di applicazioni, le informazioni riportate possono riferirsi solo a determinate situazioni.

Se nel catalogo non sono riportati tutti i dati necessari, si prega di contattare HANSA-TMP. Al fine di poter fornire una risposta esauriente potrà rendersi necessaria la richiesta di dati specifici riguardanti l'applicazione in questione.

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