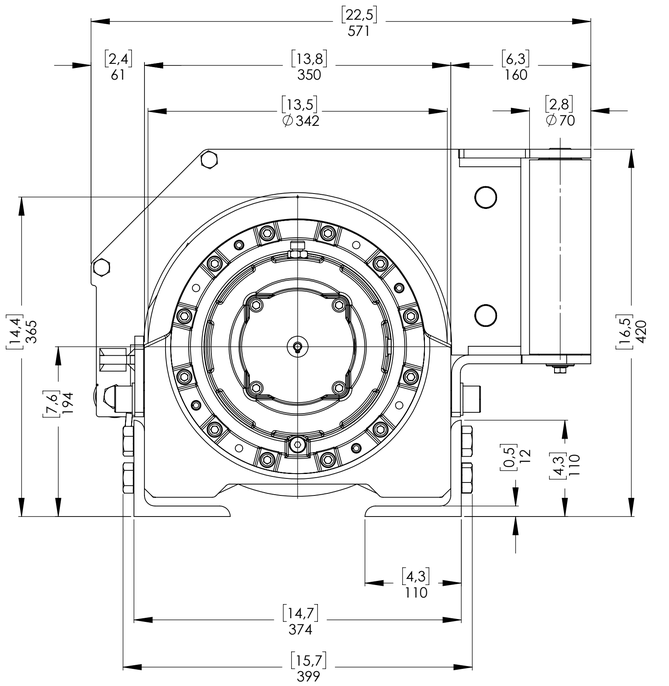
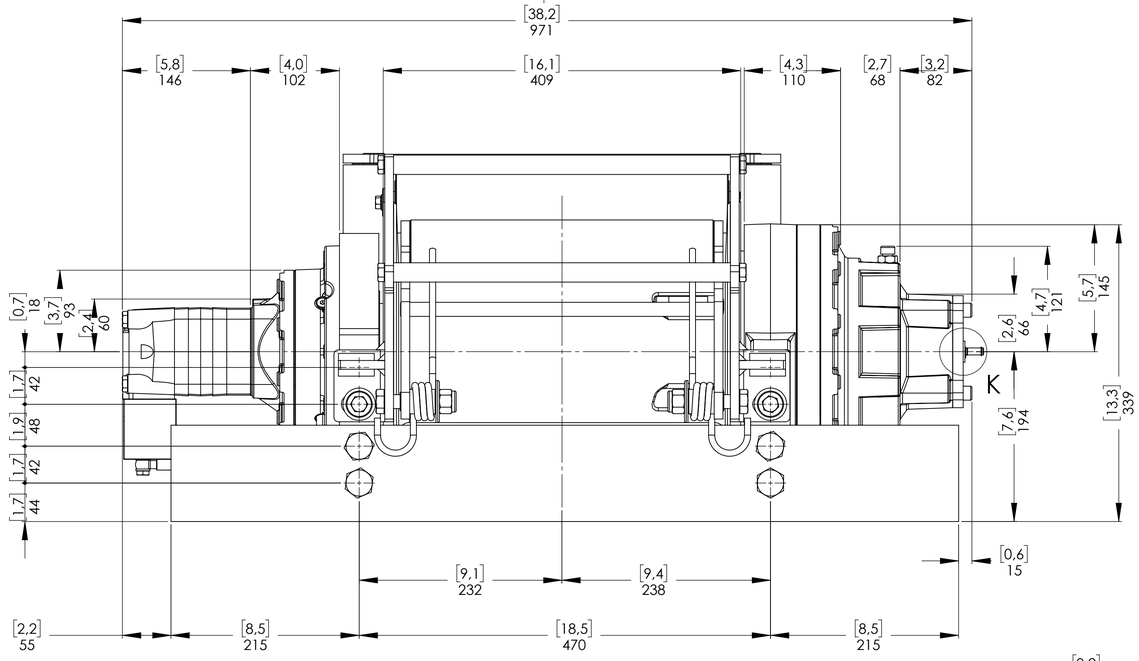
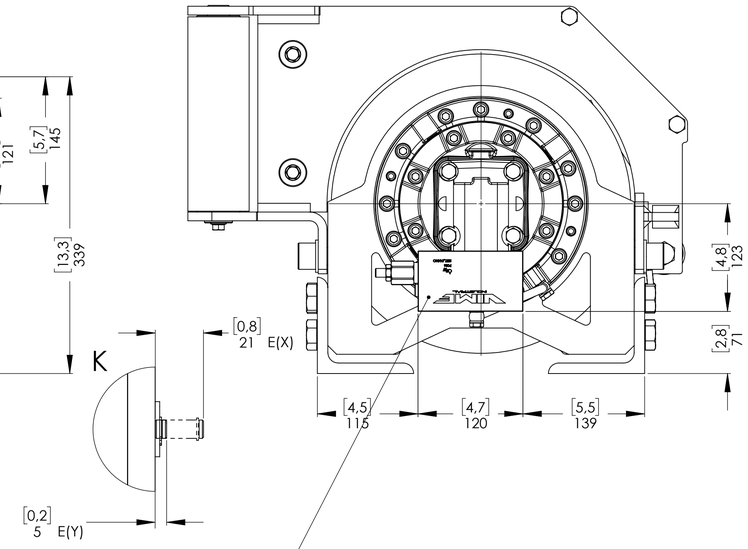
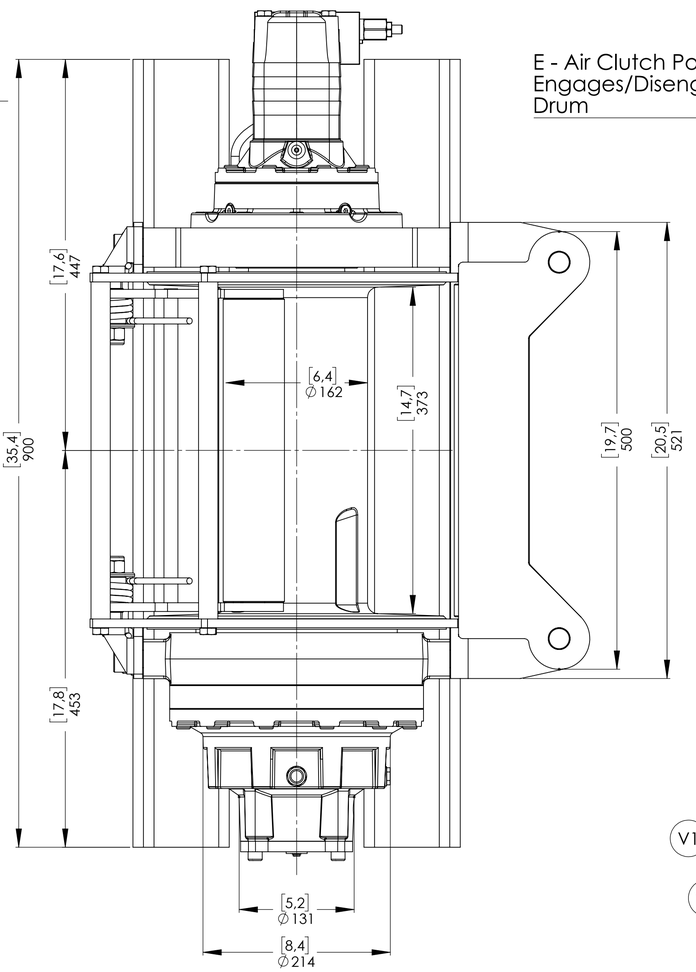
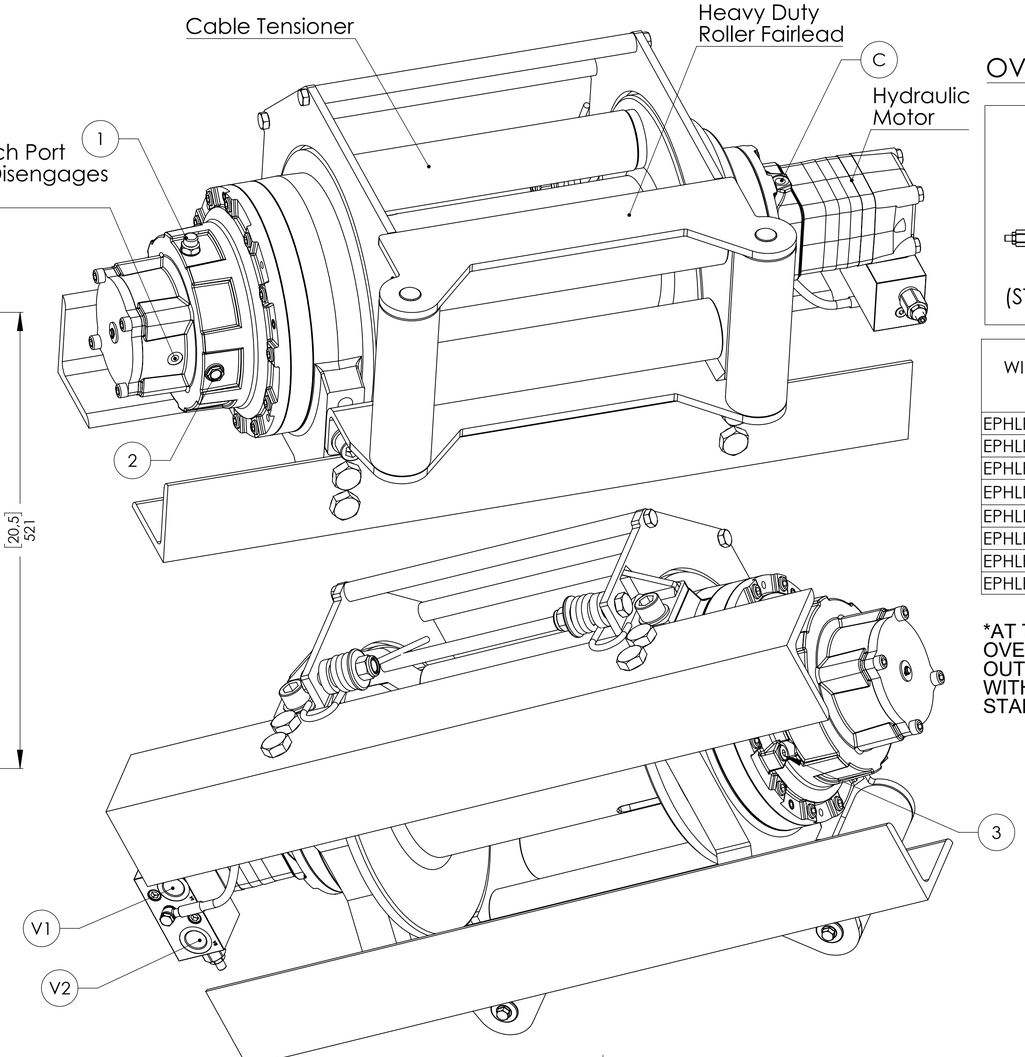
Machinery Directive 2006/42/CE
EN 14492-1



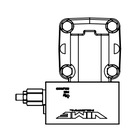
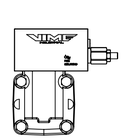
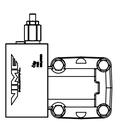
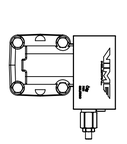








OVERCENTER VALVE POSITION*

V6	V	V9	V3
			
(STANDARD)	(ON REQUEST)	(ON REQUEST)	(ON REQUEST)

WINCH ORDERING CODE	AIR CLUTCH (STANDARD)	MANUAL CLUTCH (ON REQUEST)	HEAVY DUTY ROLLER FAIRLEAD (ON REQUEST)	CABLE TENSIONER (ON REQUEST)	OVER CENTER VALVE POSITION* (STANDARD V6)
EPHLFN165U31EAV6	X				X
EPHLFN165U31EAPV6	X			X	X
EPHLFN165U31EAGV6	X		X		X
EPHLFN165U31EAGPV6	X		X	X	X
EPHLFN165U31EV6		X			X
EPHLFN165U31EPV6		X		X	X
EPHLFN165U31EGV6		X	X		X
EPHLFN165U31EGPV6		X	X	X	X

*AT THE MOMENT OF ORDER IS POSSIBILE REQUEST THE OVERCENTER VALVE PORTS ORIENTED ACCORDING TO THE LAY OUT ABOVE. IF NOT SPECIFIED, THE WINCH WILL BE SUPPLIED WITH THE OVERCENTER VALVE PORTS ORIENTED AS PER OUR STANDARD CONFIGURATION V6.

CONNECTIONS	
V1 OUT LET	G 3/4
V2 IN LET	G 3/4
C CASE DRAIN	G 1/4
E (X) DISENGAGED	G 1/8
E (Y) ENGAGED	RETURN SPRING

PLUGS	
1.Fill	G 3/8
2.Level	G 3/8
3.Drain	G 1/4
SCALE	1:3.5

WINCH MODEL	EPHL 165FN
Pulling capacity	16500 Kg
Max.Oil flow	75 Lt./Min.
Speed Line - first layer	5,6 Mt./Min.
Speed Line - top layer	8,9 Mt./Min.

WINCH GROUP	PLANETARY GEAR
Date	Modification

DANGEROUS: Do not use winch to lift support or transport personnel.

Gear ratio	1/22,69
Orbital hydr. motor	315 cc
Working pressure	180 bar
Drum size	373 mm
Drum clutch	Air-operated

WEIGHTS	
Winch (without oil)	210 Kg
Heavy-duty Roller fairlead	42 Kg
Cable tensioner	10 Kg

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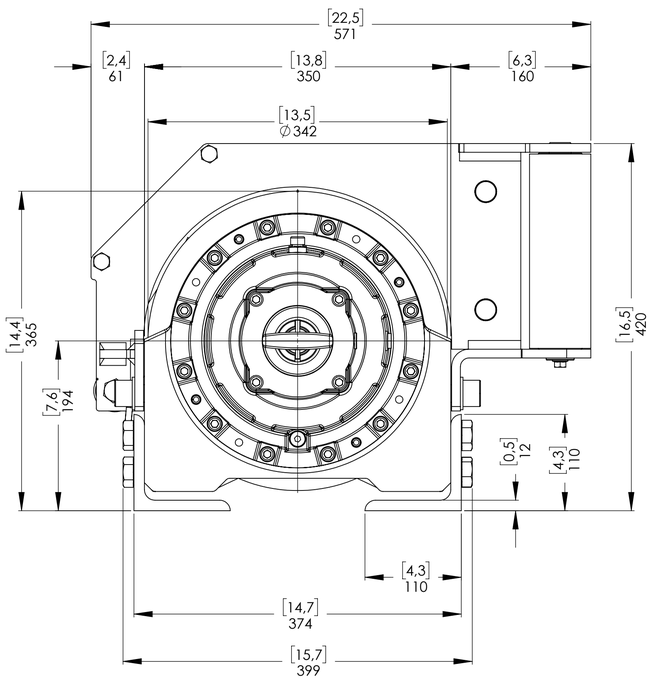
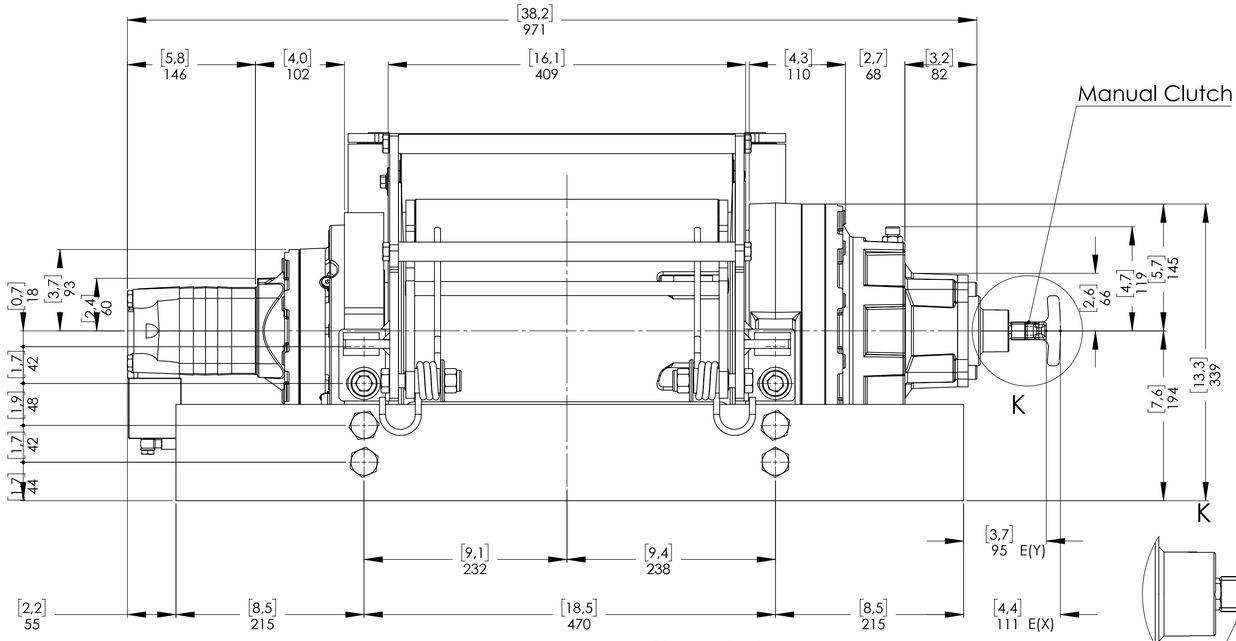
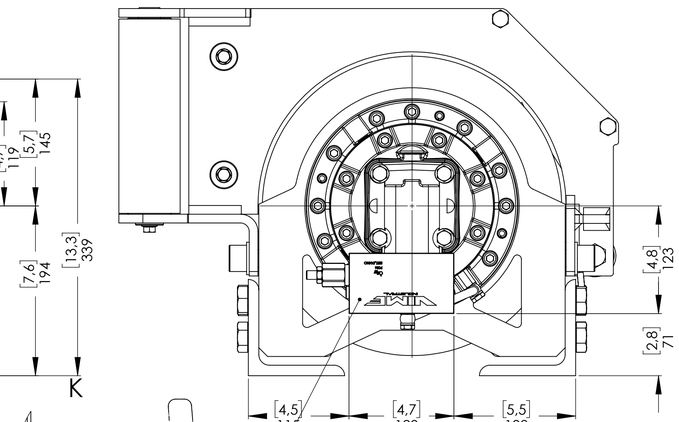
DATA 19/09/2016

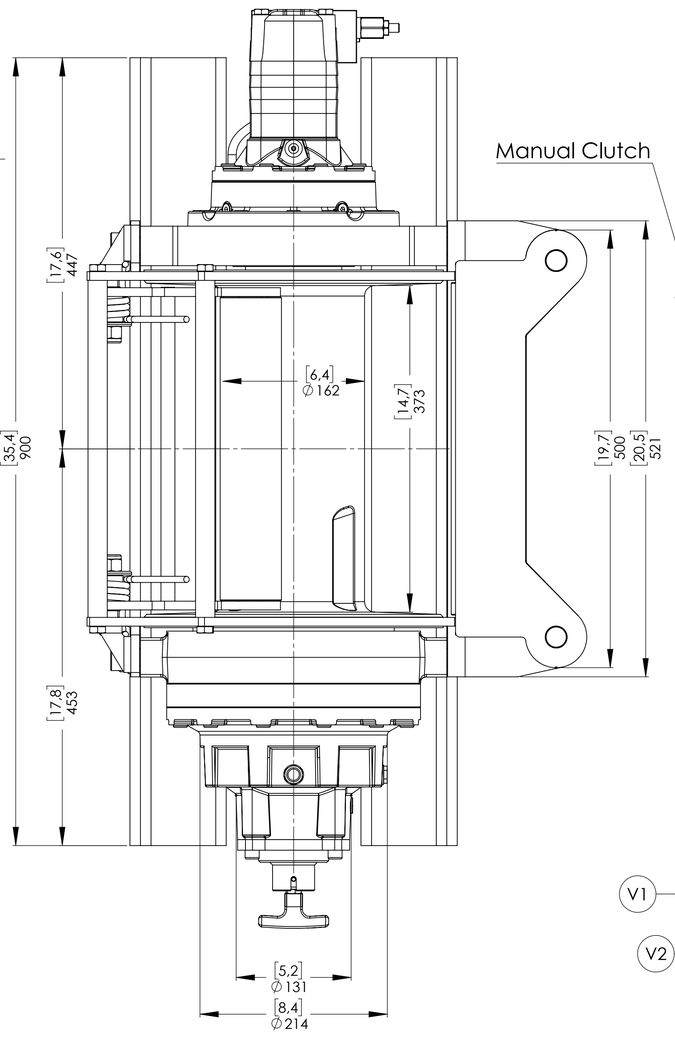
COD. EPHLFN165U31EAGPV6

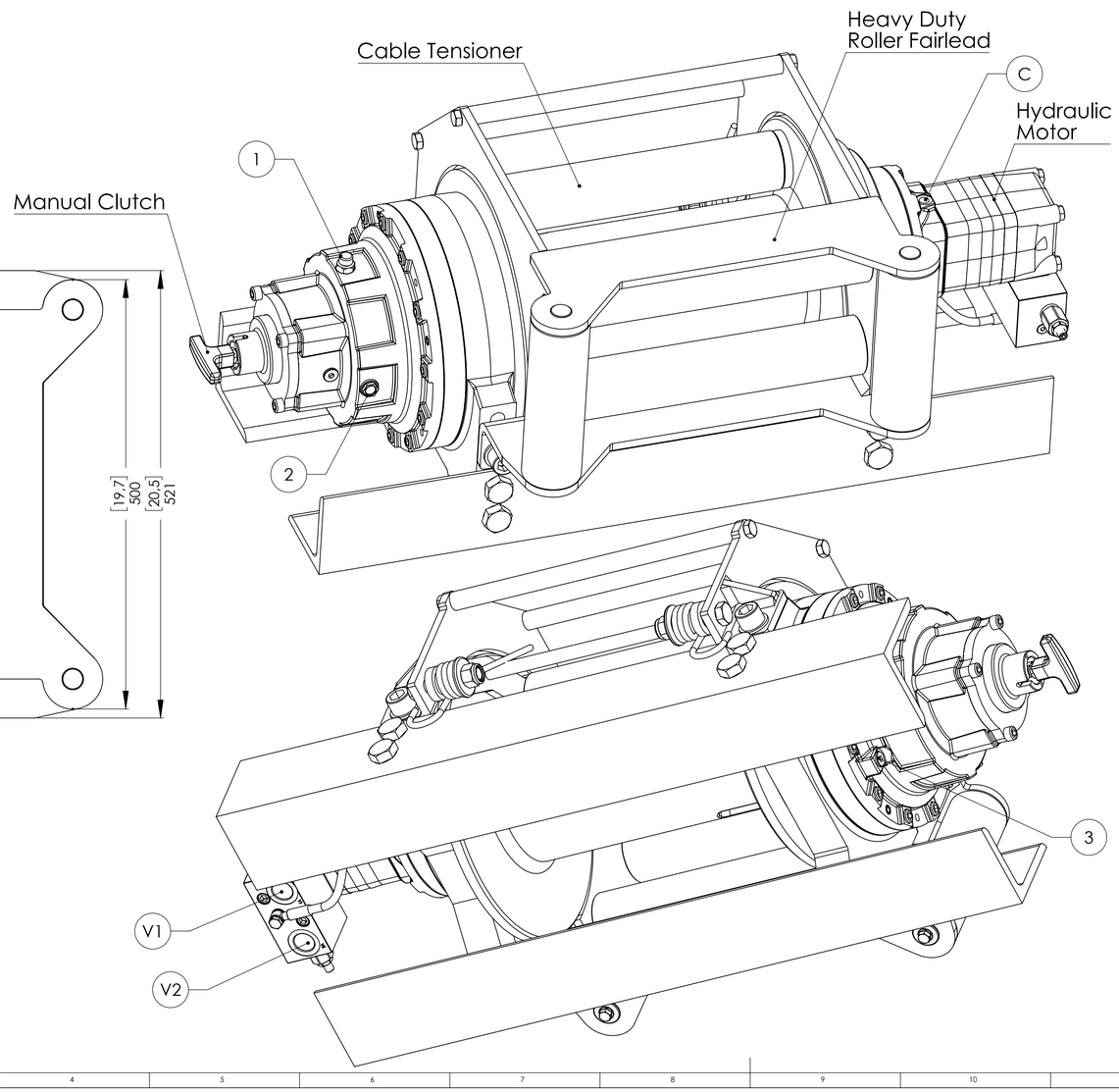
Machinery Directive 2006/42/CE
EN 14492-1



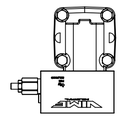
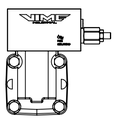
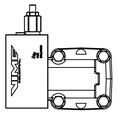
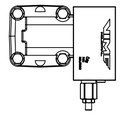








OVERCENTER VALVE POSITION*

V6	V	V9	V3
			
(STANDARD)	(ON REQUEST)	(ON REQUEST)	(ON REQUEST)

WINCH ORDERING CODE	AIR CLUTCH (STANDARD)	MANUAL CLUTCH (ON REQUEST)	HEAVY DUTY ROLLER FAIRLEAD (ON REQUEST)	CABLE TENSIONER (ON REQUEST)	OVER CENTER VALVE POSITION* (STANDARD V6)
EPHLFN165U31EAV6	X				X
EPHLFN165U31EAPV6	X			X	X
EPHLFN165U31EAGV6	X		X		X
EPHLFN165U31EAGPV6	X		X	X	X
EPHLFN165U31EV6		X			X
EPHLFN165U31EPV6		X		X	X
EPHLFN165U31EGV6		X	X		X
EPHLFN165U31EGPV6		X	X	X	X

*AT THE MOMENT OF ORDER IS POSSIBILE REQUEST THE OVERCENTER VALVE PORTS ORIENTED ACCORDING TO THE LAY OUT ABOVE. IF NOT SPECIFIED, THE WINCH WILL BE SUPPLIED WITH THE OVERCENTER VALVE PORTS ORIENTED AS PER OUR STANDARD CONFIGURATION V6.

CONNECTIONS	
V1 OUT LET	G 3/4
V2 IN LET	G 3/4
C CASE DRAIN	G 1/4
E (X) DISENGAGED	-----
E (Y) ENGAGED	-----

WINCH MODEL	EPHL 165 FN
Pulling capacity	16500 Kg
Max.Oil flow	75 Lt./Min.
Speed Line - first layer	5,6 Mt./Min.
Speed Line - top layer	8,9 Mt./Min.

WINCH GROUP	PLANETARY GEAR
Date	Modification

DANGEROUS: Do not use winch to lift support or transport personnel.

PLUGS	
1.Fill	G 3/8
2.Level	G 3/8
3.Drain	G 1/4

SCALE 1:3.5

Gear ratio	1/22,69
Orbital hydr. motor	315 cc
Working pressure	180 bar
Drum size	373 mm
Drum clutch	Manual

WEIGHTS

Winch (without oil)	210 Kg
Heavy-duty Roller fairlead	42 Kg
Cable tensioner	10 Kg

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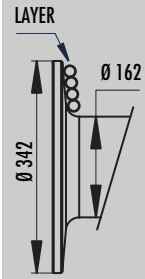
DATA 19/09/2016

COD. EPHLFN165U31EGPV6

1.4.13 EPHL 165 FN CE TECHNICAL DATA

FEATURES EPHL 165 FN CE (315 cc.)	
LINE PULL FIRST LAYER	16.500 KGF
LINE SPEED FIRST LAYER	5,6 MT/MIN.
MAX. WORKING PRESSURE	180 BAR
MAX. OIL SUPPLY	75 LT/MIN
MIN. OIL SUPPLY	20 LT/MIN
WIRE ROPE SIZE (EN 14492-1)	*18 MM
WIRE ROPE MINIMUN BREAKING ROPE (EN 14492-1)	33.000 KG
MAX. WIRE ROPE CAPACITY (EN 14492-1)	**55 MT

WIRE ROPE QUANTITY ON LAYER (DRUM LENGTH EPHL FN= 373 MM)							
	LAYER	DRUM DIAMETER [MM]		WIRE ROPE ON LAYER [MT]		WIRE ROPE QUANTITY [MT]	
		18 MM	-	18 MM	-	18 MM	-
	6	-	-	-	-	-	-
	5	324	-	20,1	-	78,1	-
	4	288	-	17,8	-	58	-
	3	252	-	15,6	-	40,1	-
	2	216	-	13,4	-	24,5	-
	1	180	-	11,2	-	11,2	-
	0	162	-	-	-	-	-

NOTE

Specifications are subject to change without notification and without incurring obligation. Specifications in this publication are theoretical and may vary depending on hydraulic system, environment, etc.

*Wire rope size must be respected. Recommended wire rope min. tensile strength 2160 N/mm². Wire rope minimum breaking load must be at least double of winch max. pulling capacity.

** Max. wire rope capacity according with EN 14492-1.

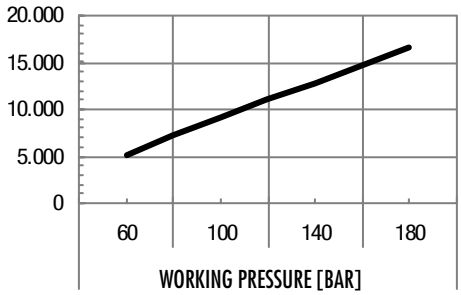
	LINE SPEED [MT/MIN]						
	OIL SUPPLY [LT/MIN]	DRUM REVOLUTION [RPM]	LINE SPEED PER LAYER [MT/MIN]				
			1	2	3	4	5
ROPE 18 MM	40	4,9	2,8	3,4	3,9	4,5	5
	60	7,8	4,4	5,3	6,1	7	7,9
	75	9,9	5,6	6,7	7,8	8,9	10,1
-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-

	LINE PULL [KGF]		
	RATIO	LAYER	LINE PULL [KGF]
ROPE 18 MM	22,69:1	1	16.500
		2	13.750
		3	11.780
		4	10.300
		5	9.160
-	-	-	-
		-	-
		-	-
		-	-
		-	-

WEIGHT [KG]	
WINCH (WITHOUT CABLE)	210
ACCESSORY : ROLLERFAIRLEAD	42
ACCESSORY : CABLE TENSIONER	10

1.4.14 EPHL 165 FN CE WINCH PERFORMANCE CHARTS AT THE 1ST LAYER

LINE PULL FIRST LAYER [KG]



LINE SPEED [MT/MIN]