

EPH PLANETARY WINCHES

Model EPH 20000 is an hydraulic planetary winch. Designed for extend life and give best safe duty.

This winch is built according with higher safety standards in compliance with Directive Machinery 2006/24/CE Harmonized EN 14492-1. The high efficiency planetary gear train assure fast payout and rewind winching operational and the innovative brake system, make this winch reliable and great for industrial applications.

FEATURES

- COMPACT**
Hardened steel three stage planetary gear train class M4 L1 T5 (FEM.1.001/1987)
- FAST WINCHING SPEED**
Fast payout and rewind
- VERSATILE MOUNTING**
Designed for either base or side mounting
- STRONG**
Strong Body for extended heavy-duty cycle
- MULTI-DISC PRESSURE RELEASED BRAKE**
Gives a reliable and effective full brake capacity

WINCHES RANGE

MODEL	RATED LINE PULL
EPH 20000	20.000 Kgs. (44.092 Lbs.)

- DRUM SIZE AVAILABLE**
Standard: 350 mm (13.8 inch)
 - TOTALLY OIL COOLED**
Gears and brake in oil bath for best performance, quiet operation and extended component life
- ACCESSORIES :**
- Zinc plated heavy-duty roller fairlead
 - Zinc plated Cable tensioner
 - Manual clutch shifter - drum free spooling

COMPONENTS

- 1. HEAVY-DUTY ROLLER FAIRLEAD**
Heavy duty mounting frame with zinc plated finish. Large diameter rollers, fitted with bearings, for reduced maintenance and increased rope life.
- 2. CABLE TENSIONER**
Strong frame with heavy duty springs, zinc plated finish with roller working on bearings, prevents wire rope tangling when free spooling.
- 3. BASE MOUNTING ANGLES**
Standard base mounting angles
- 4. AIR-CLUTCH**
Compact air - cylinder based on Vime's own design. Out put shaft is visible when the drum is in the disengaged position.
- 5. DRUM**
Multi cable clamps system in according with CE Machinery Directive to prevent rope release.
- 6. FULL LOAD HOLDING BRAKE**
Multi-disc pressure released brake, designed using special heavy duty components to assure full brake performance and reliability, controlled by a noiseless, overcenter valve.
- 7. HYDRAULIC MOTOR**
Orbital hydraulic motor, splined output shaft.
- 8. OVERCENTER VALVE**
Special noiseless overcenter valve based on Vime's design.

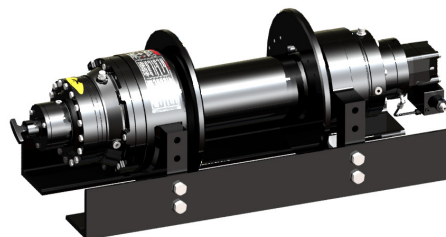
2 HYDRAULIC PLANETARY GEAR WINCHES

EPH
20000

MANUAL CLUTCH VERSION

On request at the order, EPH winches can be equipped with manual clutch shifter.

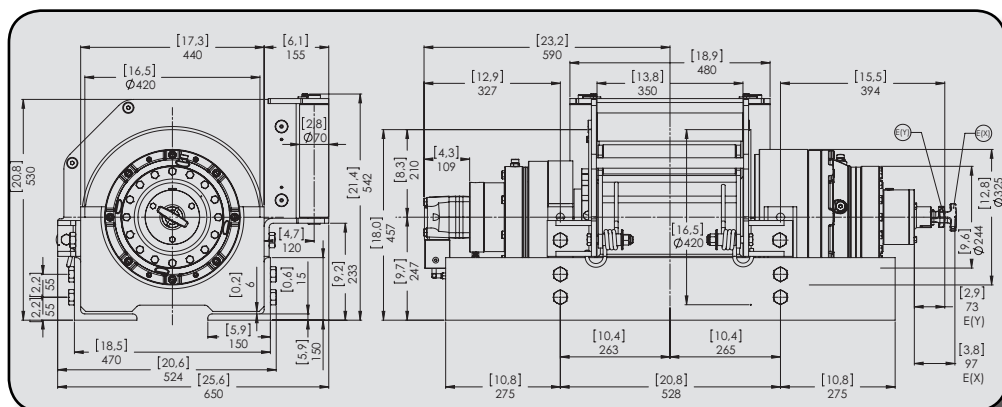
Clutch allows the operator to manually disengage the spooling drum from the gear train, enabling the drum to rotate freely (freespooling). Engaging the clutch, it locks the winch drum back onto the gear train.



CE
EN 14492-1

DIMENSIONAL DATA

Dimensions :
Inch
Millimeters



TECHNICAL DATA

LINE PULL 1st LAYER		GEAR RATIO	WORKING PRESSURE	LINE SPEED 1st LAYER		WIRE ROPE SIZE		WIRE ROPE CAPACITY		MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPACITY **		DESCRIPTION	WEIGHT	
LBS	KGS		PSI	BAR	FT/MIN	MT/MIN	INCH	MM	FT	MT	FT	MT	FT	MT		
44.092	20.000	99:1	2,611	180	15,7	4,8	-	20	131,2	40	196,9	60	262,5	80	WINCH (without wire rope)	892,87 lbs 405 kgs
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ACCESSORY : ROLLER FAIRLEAD	127,87 lbs 58 kgs
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ACCESSORY : CABLE TENSIONER	24,25 lbs 11 kgs

Hydraulic Motor.....(6,1 cu in)...100 cc
 Max. oil flow.....(21,13 GPM)...80 Lt./Min.
 Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



WARNING

Do not use winch to lift support or transport personnel.

EPH
20000

AIR CLUTCH VERSION

EPH winches are equipped with Air clutch shifter. An air cylinder allows to pneumatically disengage the spooling drum from the gear train, enabling the drum to rotate freely (freespooling).

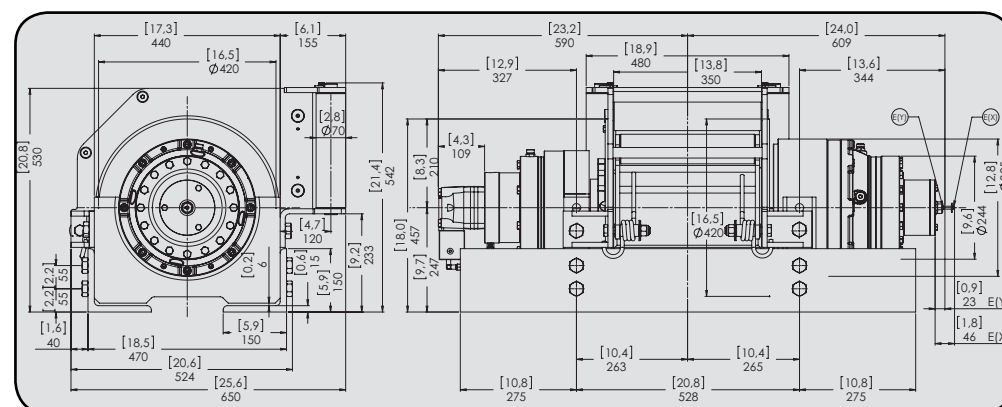
The pneumatic system works if air system is available on vehicle only. Manual clutch shifter is considered such an optional accessory.



CE
EN 14492-1

DIMENSIONAL DATA

Dimensions :
Inch
Millimeters



** Max wire rope capacity corresponding to the full drum condition.



NOTE: 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.



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.