ELECTRIC WORM GEAR WINCHES







ZE WORM GEAR WINCHES



Model ZE is a DC electric worm gear winch with steel spur gear reduction. Designed for extended life and gives best safe duty. This winch is built according with higher safety standards in compliance with Directive Machinery 2006/42/CE EN 14492-1. The special aluminium alloy bronze gear match to an hardened steel ground polished worm. Worm gear provides load reversing protection. It is suitable to be mounted on vehicle where hydraulic system is not available. Its particular design makes it proper for front end or rear trucks mounting.



FEATURES



□ TOUGH

The special aluminium alloy bronze gear match to an hardened steel around polished worm

□ MOUNTING

Designed for either foot or side mounting, make it proper for front end or rear vehicles mounting

□ LIGHT AND STRONG

Body manufactured from hardened special aluminium castings, reducing weight and increasing strength Powder coat finished

□ BRAKE

Worm gear provides load reversing protection



WINCHES RANGE



MODEL	PULLING CAPACITY
ZEC 2700 - ZEL 2700	2.700 Kgs. (6.000 Lbs.)
ZEC 3600 - ZEL 3600	3.600 Kgs. (8.000 Lbs.)

□ DRUM SIZE AVAILABLE

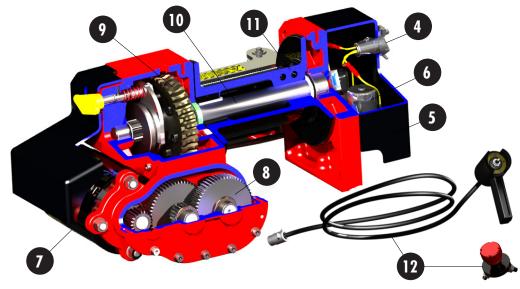
Short: 160 mm (6.3 inch) for ZEC Long: 240 mm (9.4 inch) for ZEL

☐ TOTALLY OIL COOLED

Worm and gear in oil bath and Spur gears lubricated for the entire life with grease, give best performance and extending parts life

ACCESSORIES:

- ☐ Zinc plated Heavy-duty roller fairlead
- ☐ Zinc plated Cable tensioner
- ☐ Spacers (for winch mounting)





COMPONENTS (



1. LOAD LIMITING DEVICE

Load limiting device, designed to provide mechanical overload protection as safety measures. It doesn't suffer overheating as electronic devices does.

2. HEAVY-DUTY ROLLER FAIRLEAD

Zinc plated heavy-duty roller fairlead.

3. MANUAL CLUTCH

Manual clutch for drum free spooling.

- SOCKET
- **POWER SUPPLY STUD (+)**
- 6. SOLENOIDS

Heavy-duty metal case solenoids switch.

7. ELECTRIC MOTOR

Electric motor IP 55 protection. Ground wired onto the body. Painted finish.

8. PRIMARY GEAR REDUCTION

Steel shaving spur gears in hardened special aluminium castinas.

9. FINAL GEAR REDUCTION

A special aluminium alloy bronze gear match to an hardened steel ground polished worm in hardened special aluminium castings.

10. MAIN SHAFT

Hardened steel main shaft.

11. DRUM

Dual rope anchor point based on Vime's own design in compliance with CE Directive Machinery to prevent rope release.

12. REMOTE CONTROL

Remote control switch assembly (includes plug and cable 4 Mt.(13,12 Ft.) provides control of the forward or reverse rotation of the spooling drum.

Battery leads 2 Mt.(6,56 Ft.), Battery switch. Ground cable 2 Mt.(6,56 Ft.).

ELECTRIC WORM GEAR WINCHES





12V

MANUAL CLUTCH VERSION

ZE winches are equipped with manual clutch shifter.

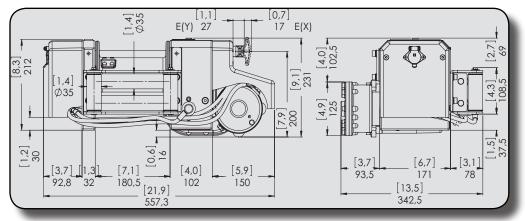
Clutch allows the operator to manually disengage the spooling drum from the gear train, enabling the drum to rotate freely (freespooling) Engaging the clutch, it locks the winch drum back onto the gear train.



DIMENSIONAL DATA









12V

MANUAL CLUTCH VERSION

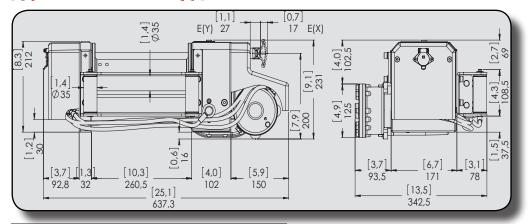
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DIMENSIONAL DATA





Max wire rope capacity corresponding to the full drum condition.

VOLTAGE	LINE 1st L		GEAR RATIO	NO LOAD		MAX.LINE PULL 1st LAYER		WIRE ROPE SIZE		WIRE ROPE CAPACITY			MAX. WIRE ROPE CAPAC. EN 14492-1				AX. WII .PAC. **	RE ROPE *		DESCRIPTION	WEIGI	WEIGHT LBS		HT KGS			
												ZI	EC	ZE	EL	ZE	C	ZEL		ZEC	ZE	L		ZEC	ZEL	ZEC	ZEL
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT	INCH	MM	FT	MT	FT	MT	FT	MT	FT /	NT FT	MT	FT	MT	WINCH (without wire rope)	47.2	88,2	30,5	40,0
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]														winch (willout wife tope)	67,2	00,2	30,3	40,0
12V	8.000	3.600	392:1	18,0	5,5	65	2,3	0,7	290	-	9	49	15	82	25	56	17	85 2	26 7	5 23	167	51	ACCESSORY: ROLLER FAIRLEAD	8,8	11,0	4,0	5,0
TZV	6.000	2.700	298:1	23,6	7,2	70	6,2	1,9	260	-	8	55	17	82	25	62	19	95 2	29 9	30	180	55	ACCESSORY: CABLE TENSIONER	3,1	4,2	1,4	1,8



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.



WARNING

TECHNICAL DATA





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

ELECTRIC WORM GEAR WINCHES





24V

MANUAL CLUTCH VERSION

ZE winches are equipped with manual clutch shifter.

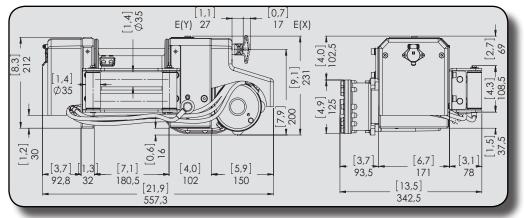
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DIMENSIONAL DATA

11







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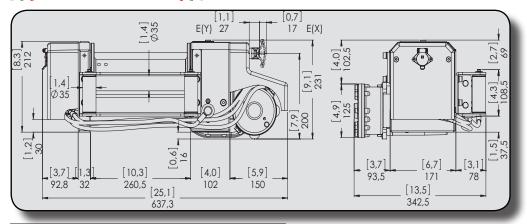
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DIMENSIONAL DATA



ensions are : Inch



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241	8.000	3.600	392:1	18,0	5,5	30	2,3	0,7	145	-	9	49	15	82	25	56	17	85	26 7	23	167	51	ACCESSORY: ROLLER FAIRLEAD	8,8	11,0	4,0	5,0
24V	6.000	2.700	298:1	23,6	7,2	35	6,2	1,9	135	-	8	55	17	82	25	62	19	95	29 98	30	180	55	ACCESSORY: CABLE TENSIONER	3,1	4,2	1,4	1,8

Flectric motor.

...24V DC (2,5 Hp)



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WARNING

TECHNICAL DATA



