
 CE  
 EN 14492-1


### JE ELECTRIC WORM GEAR WINCHES

Models JE are DC electric worm gear winch with steel spur gear reduction, designed for long life, offer best safe duty. These winches are 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. They are suitable to be mounted on vehicle where hydraulic system is not available. Particularly fit for front end or rear trucks mounting.

### FEATURES

- TOUGH**  
The special aluminium alloy bronze gear match to an hardened steel ground polished worm
- LOW MOUNTING**  
Its particular design, make it proper for front end or rear vehicles mounting
- LIGHT AND STRONG**  
Body manufactured from hardened special aluminum castings, which reduces weight and increases strength  
Powder coat finished
- BRAKE**  
Worm gear provides load reversing protection

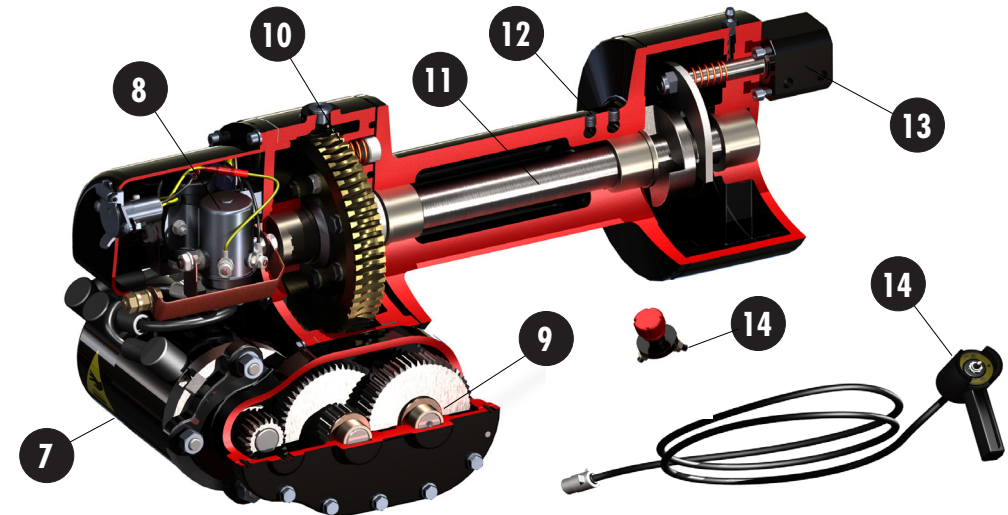
### WINCHES RANGE

MODEL	PULLING CAPACITY
JEC 2700 - JEM 2700 JEL 2700	2.700 Kgs. (6.000 Lbs.)
JEC 3600 - JEM 3600 JEL 3600	3.600 Kgs. (8.000 Lbs.)
JEM 5100 - JEL 5100	5.100 Kgs. (11.244 Lbs.)

- DRUM SIZE AVAILABLE**  
Short: 162 mm (6,4 inch) JEC  
Medium: 211 mm (8,3 inch) JEM  
Long: 350 mm (13,8 inch) JEL
- TOTALLY OIL COOLED**  
Worm and gear in oil bath, give best performance and extending components life span

### ACCESSORIES :

- Zinc plated Standard or Heavy-duty roller fairlead
- Zinc plated Cable tensioner
- Air clutch shifter - drum free spooling



### 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. MOUNTING ANGLES**  
Standard mounting angles.
- 3. SOCKET**
- 4. POWER SUPPLY STUD (+)**
- 5. MANUAL CLUTCH**  
Manual clutch for drum free spooling.
- 6. STANDARD ROLLER FAIRLEAD**  
Zinc plated standard roller fairlead.  
**HEAVY-DUTY ROLLER FAIRLEAD**  
Zinc plated heavy-duty roller fairlead.
- 7. ELECTRIC MOTOR**  
Electric motor IP 55 protection. Ground wired onto the body. Painted finish.
- 8. SOLENOIDS**  
Heavy-duty metal case solenoids switch.
- 9. PRIMARY GEAR REDUCTION**  
Steel shaving spur gears in hardened special aluminium castings.
- 10. FINAL GEAR REDUCTION**  
A special aluminium alloy bronze gear match to an hardened steel ground polished worm in hardened special aluminium castings.
- 11. MAIN SHAFT**  
Hardened steel main shaft.
- 12. DRUM**  
Dual rope anchor point based on Vime's own design in compliance with CE Directive Machinery to prevent rope release.
- 13. AIR CLUTCH**  
Dual action air-cylinder with aluminum body based on Vime's own design. Chromium plated out put shaft is visible when drum is in the disengaged position.
- 14. 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.

## JE 3600 2700 MANUAL CLUTCH VERSION

### 12V

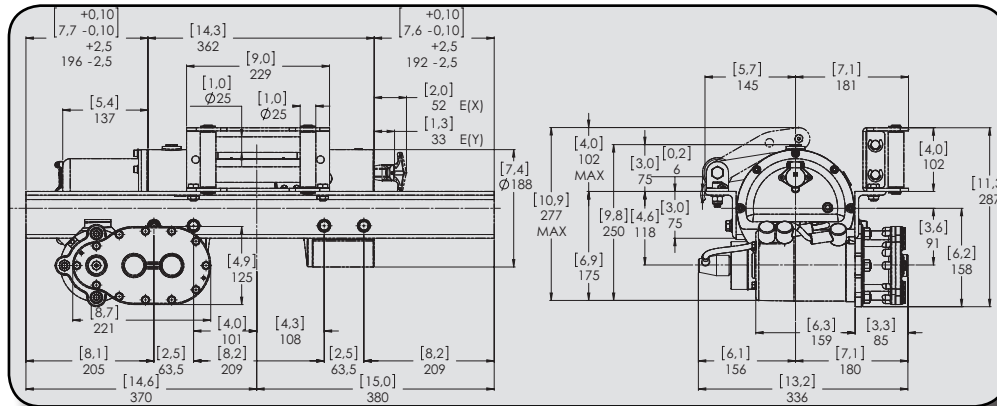
CE  
EN 14492-1

JE 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. Air clutch shifter is considered such an optional accessory.



Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



## JE 3600 2700 AIR CLUTCH VERSION

### 12V

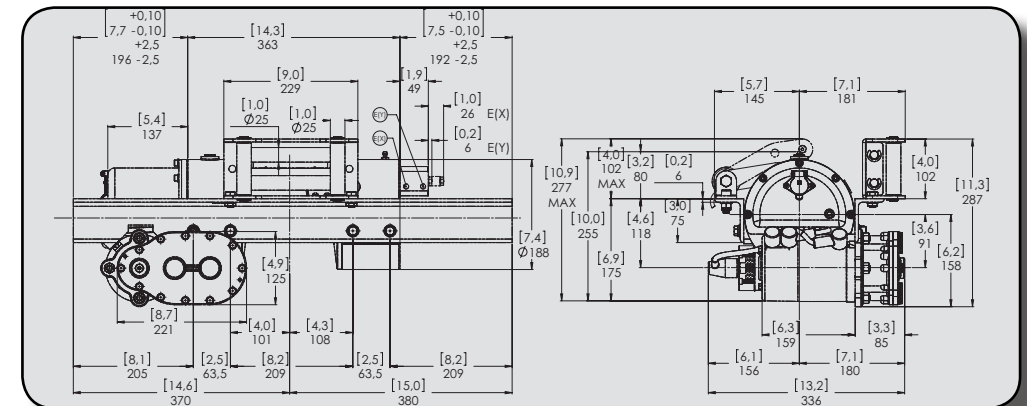
CE  
EN 14492-1

On request at the order, JE winches can be 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.



Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX.LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **	DESCRIPTION	WEIGHT						
	1st LAYER	2nd LAYER		LINE SPEED	CURRENT	LINE SPEED	CURRENT			FT	MT			FT	MT	LBS	KGS			
[V]	LBS	KGS		FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]	INCH	MM	FT	MT	FT	MT					
12V	8.000	3.600	470:1	14,8	4,5	65	3,6	1,1	280	-	10	82,0	25	78,7	24	108,3	33	WINCH (without wire rope)	87,1	39,5
	6.000	2.700	360:1	17,1	5,2	70	4,6	1,4	270	-	8	98,4	30	128,0	39	164,0	50	ACCESSORY: ROLLER FAIRLEAD	5,1	2,3
																		ACCESSORY: CABLE TENSIONER	4,0	1,8

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

Electric motor.....12V DC (1,9 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>. Wire rope minimum breaking load must be at least double of winch max. pulling capacity. Max.wire rope capacity according with EN 14492-1.



### WARNING

Do not use winch to lift support or transport personnel.



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## JE 3600 2700 MANUAL CLUTCH VERSION

### 24V

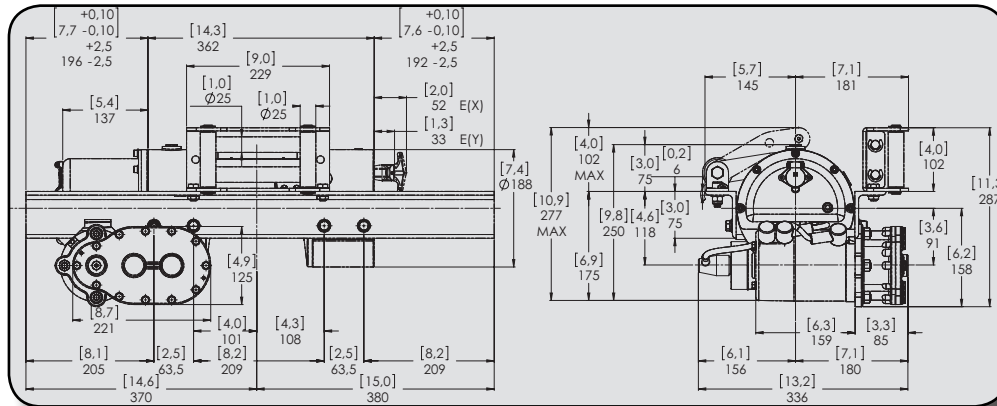
CE  
EN 14492-1



JE 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. Air clutch shifter is considered such an optional accessory.

### DIMENSIONAL DATA

Dimensions are :  
Inch  
Millimeters



## JE 3600 2700 AIR CLUTCH VERSION

### 24V

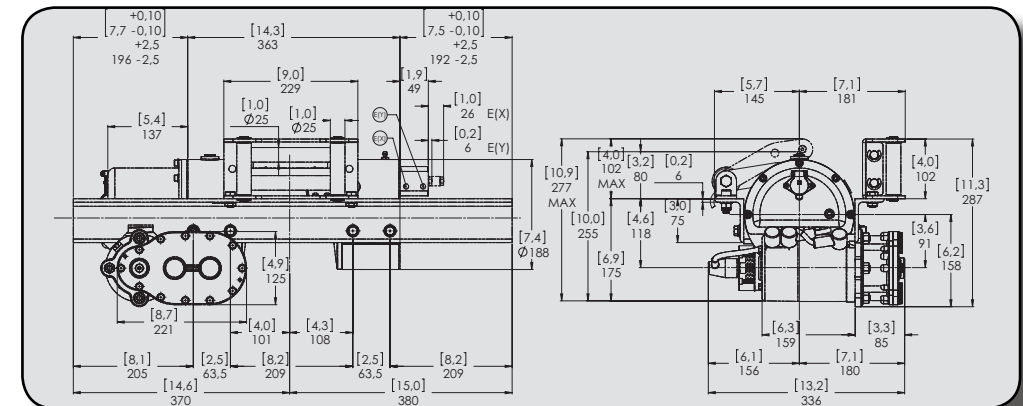
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### DIMENSIONAL DATA

Dimensions are :  
Inch  
Millimeters



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE		WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	WEIGHT				
	1st LAYER					1st LAYER		INCH	MM		FT	MT	FT	MT		FT	MT	LBS	KGS	
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT							WINCH (without wire rope)				
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]											
24V	8.000	3.600	470:1	14,8	4,5	30	3,6	1,1	140	-	10	82,0	25	78,7	24	108,3	33	ACCESSORY: ROLLER FAIRLEAD	5,1	2,3
	6.000	2.700	360:1	17,1	5,2	35	4,6	1,4	135	-	8	98,4	30	128,0	39	164,0	50	ACCESSORY: CABLE TENSIONER	4,0	1,8

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

Electric motor.....24V DC (2,5 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>. Wire rope minimum breaking load must be at least double of winch max. pulling capacity. Max.wire rope capacity according with EN 14492-1.



### WARNING

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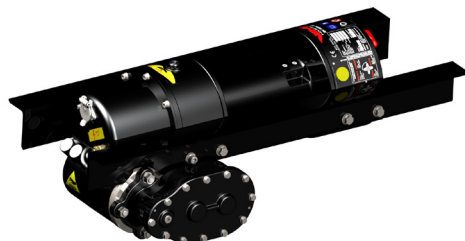
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## JEM 3600 2700 MANUAL CLUTCH VERSION

### 12V

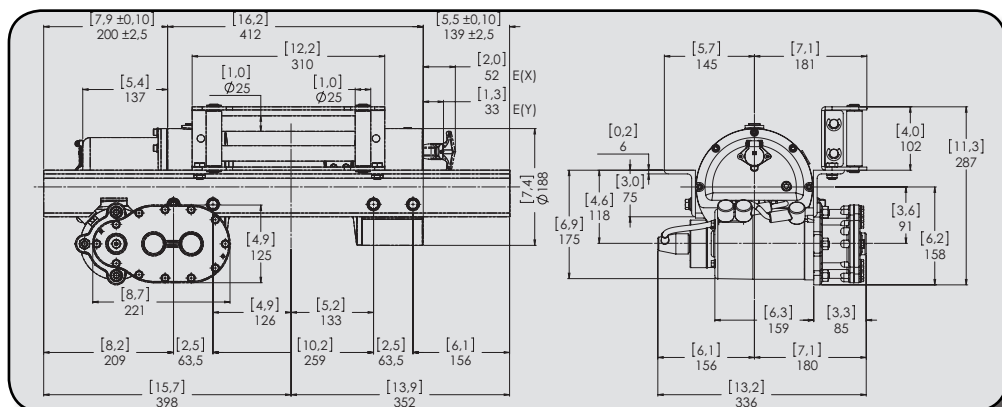


JE winches are equipped with manual clutch shifter. Clutch allows the operator to manually disengage the spooling drum from the gear train, enabling the drum to rotate freely (freespooling). Engaging the clutch, it locks the winch drum back onto the gear train. Air clutch shifter is considered such an optional accessory.



Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



## JEM 3600 2700 AIR CLUTCH VERSION

### 12V

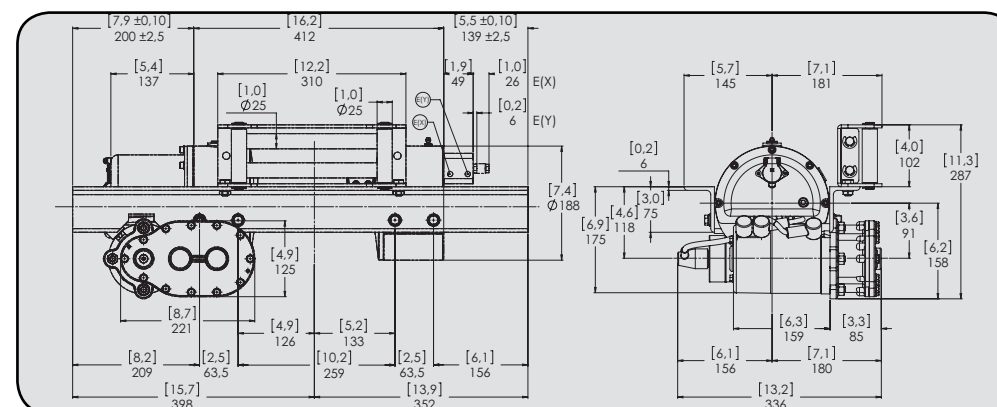


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Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	WEIGHT					
	1st LAYER					1st LAYER									LBS	KGS				
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT	INCH	MM	FT	MT	FT	MT					
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]											
12V	8.000	3.600	470:1	14,8	4,5	65	3,6	1,1	280	-	10	98,4	30	105	32	144,4	44	WINCH (without wire rope)	89,3	40,5
	6.000	2.700	360:1	17,1	5,2	70	4,6	1,4	270	-	8	131	40	167,3	51	210	64	ACCESSORY: ROLLER FAIRLEAD	8,2	3,7
																		ACCESSORY: CABLE TENSIONER	-	-

Electric motor.....12V DC (1,9 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>. Wire rope minimum breaking load must be at least double of winch max. pulling capacity. Max.wire rope capacity according with EN 14492-1.



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Do not use winch to lift support or transport personnel.



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

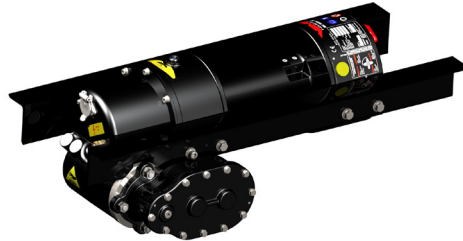


## JEM 3600 2700 MANUAL CLUTCH VERSION

### 24V

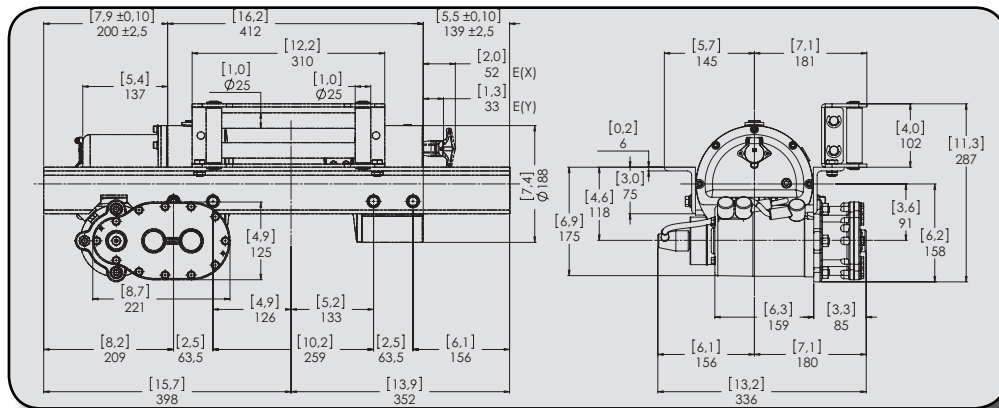
CE  
EN 14492-1

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Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



## JEM 3600 2700 AIR CLUTCH VERSION

### 24V

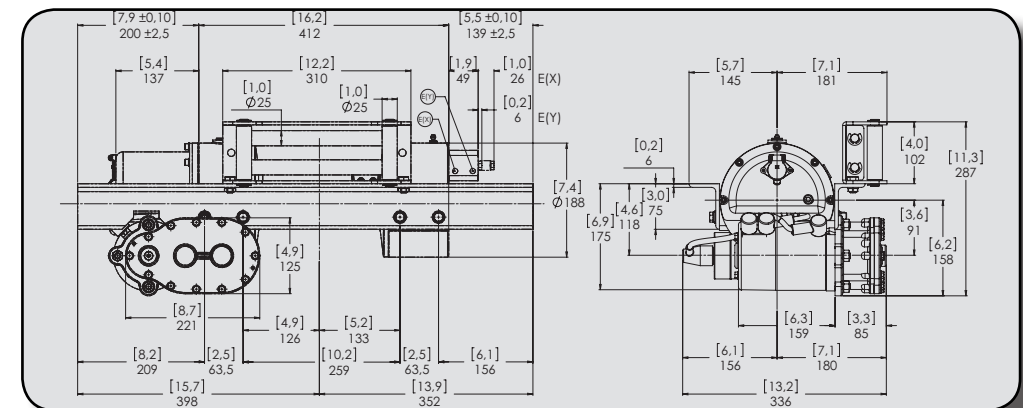
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Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1	MAX. WIRE ROPE CAPAC. **	DESCRIPTION	WEIGHT							
	1st LAYER	2nd LAYER		LINE SPEED	CURRENT	LINE SPEED	CURRENT						LBS	KGS						
[V]	LBS	KGS		FT/MIN	MT/MIN	FT/MIN	MT/MIN	[A]	[A]	INCH	MM	FT	MT	FT	MT					
24V	8.000	3.600	470:1	14,8	4,5	30	3,6	1,1	140	-	10	98,4	30	105	32	144,4	44	WINCH (without wire rope)	89,3	40,5
	6.000	2.700	360:1	17,1	5,2	35	4,6	1,4	135	-	8	131	40	167,3	51	210	64	ACCESSORY: ROLLER FAIRLEAD	8,2	3,7
																		ACCESSORY: CABLE TENSIONER	-	-

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

Electric motor.....24V DC (2,5 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>. Wire rope minimum breaking load must be at least double of winch max. pulling capacity. Max.wire rope capacity according with EN 14492-1.



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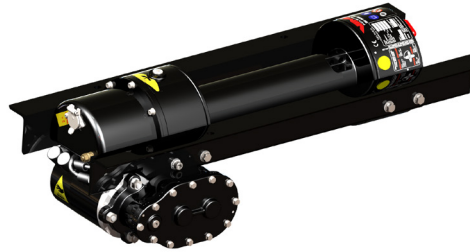
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## JE 3600 2700 MANUAL CLUTCH VERSION

### 12V

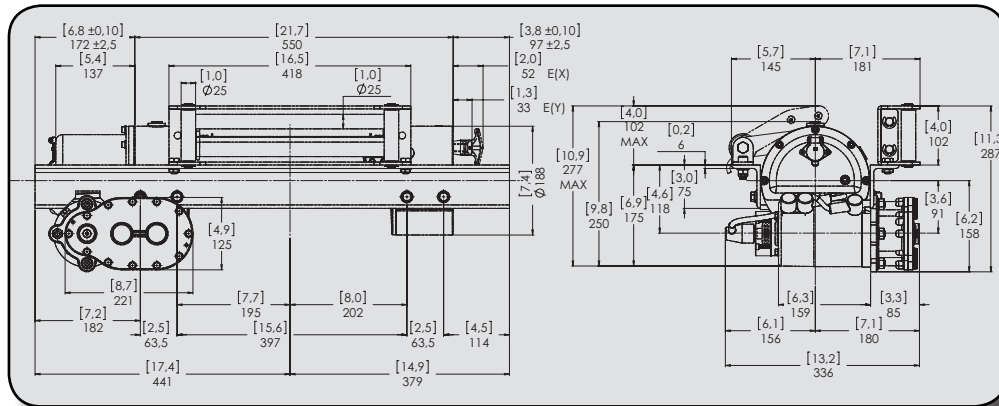
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Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



## JE 3600 2700 AIR CLUTCH VERSION

### 12V

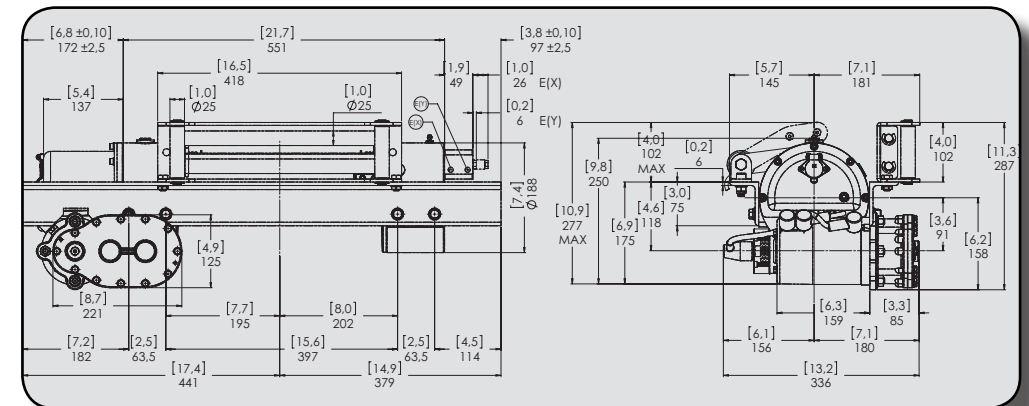
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Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	WEIGHT					
	1st LAYER					1st LAYER									LBS	KGS				
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT	INCH	MM	FT	MT	FT	MT	WINCH (without wire rope)	94,8	43		
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]							ACCESSORY: ROLLER FAIRLEAD	10,4	4,7		
12V	8.000	3.600	470:1	14,8	4,5	65	3,6	1,1	280	-	10	131	40	180,5	55	242,8	74	ACCESSORY: CABLE TENSIONER	5,5	2,5
	6.000	2.700	360:1	17,1	5,2	70	4,6	1,4	270	-	8	164	50	285,4	87	357,6	109			

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

Electric motor.....12V DC (1,9 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar

**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>.  
Wire rope minimum breaking load must be at least double of winch max. pulling capacity.  
Max.wire rope capacity according with EN 14492-1.

**WARNING**  
Do not use winch to lift support or transport personnel.

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## JE 3600 2700 MANUAL CLUTCH VERSION

### 24V

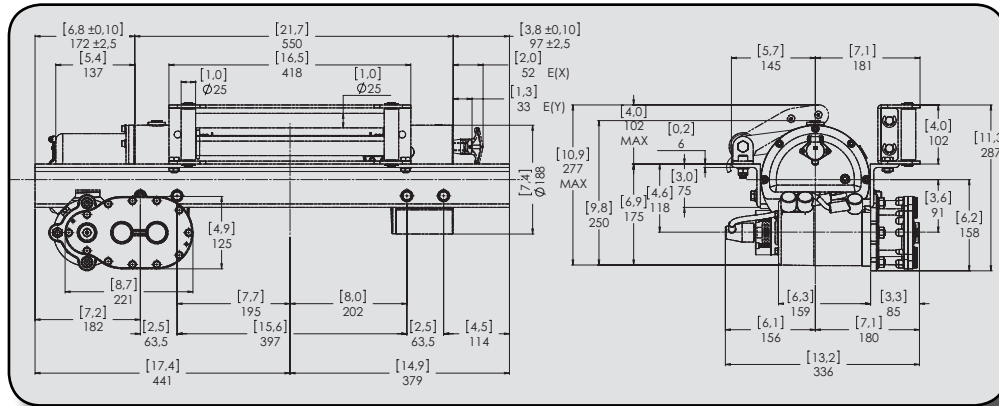
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Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



## JE 3600 2700 AIR CLUTCH VERSION

### 24V

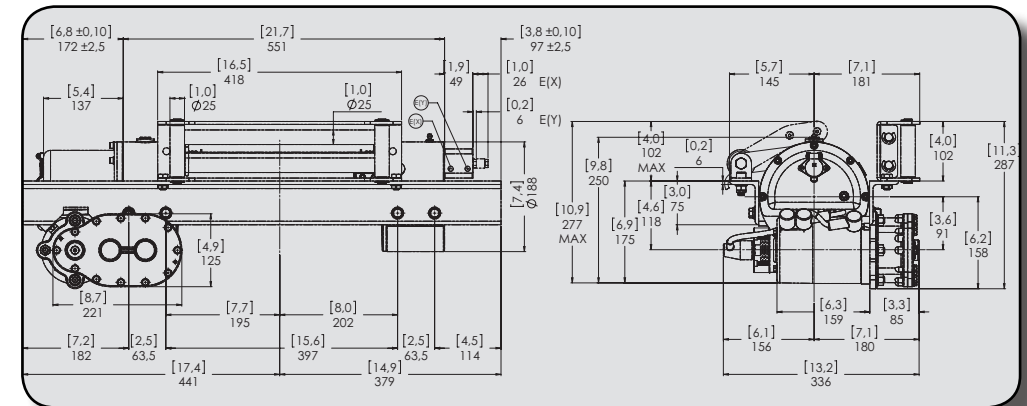
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Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	WEIGHT					
	1st LAYER					1st LAYER									LBS	KGS				
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT	INCH	MM	FT	MT	FT	MT					
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]											
24V	8.000	3.600	470:1	14,8	4,5	30	3,6	1,1	140	-	10	131	40	180,5	55	242,8	74	WINCH (without wire rope)	94,8	43
	6.000	2.700	360:1	17,1	5,2	35	4,6	1,4	135	-	8	164	50	285,4	87	357,6	109	ACCESSORY: ROLLER FAIRLEAD	10,4	4,7
																		ACCESSORY: CABLE TENSIONER	5,5	2,5

Electric motor.....24V DC (2,5 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar



**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>. Wire rope minimum breaking load must be at least double of winch max. pulling capacity. Max.wire rope capacity according with EN 14492-1.



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## 5700M

### 24V

CE  
EN 14492-1

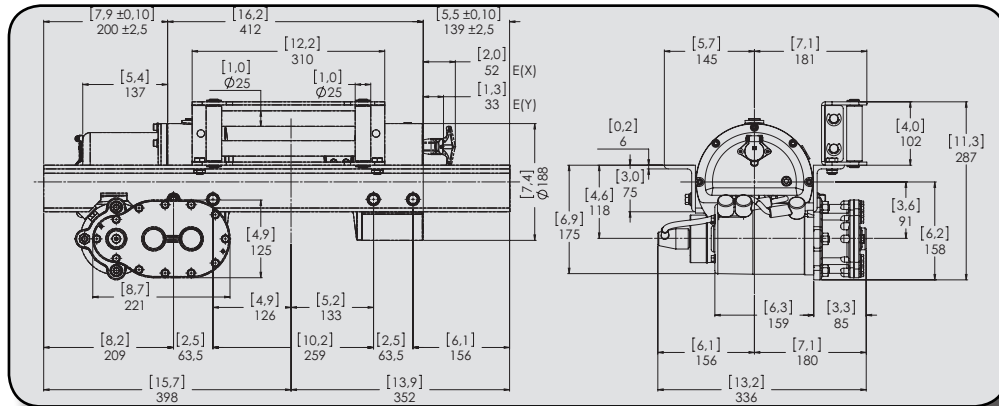
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Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



## 5700M

### 24V

CE  
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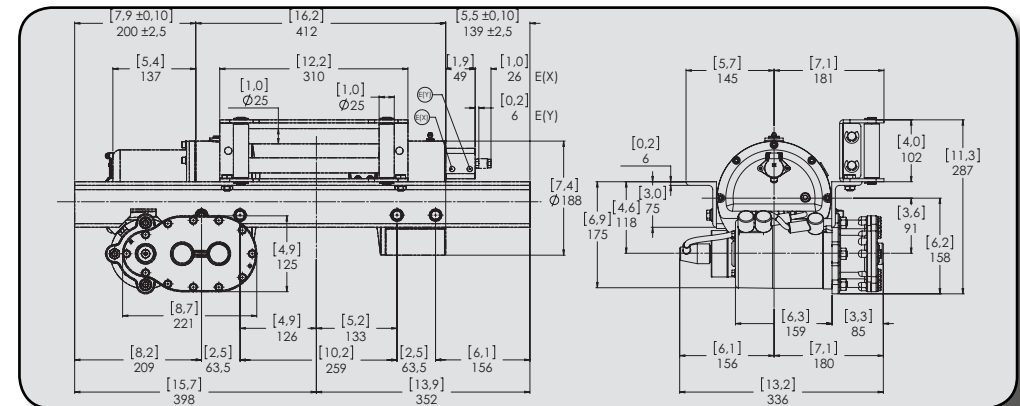
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Dimensions are :  $\frac{\text{Inch}}{\text{Millimeters}}$

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	WEIGHT					
	1st LAYER					1st LAYER									LBS	KGS				
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT	INCH	MM	FT	MT	FT	MT					
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]											
24V	11.244	5.100	470:1	14,8	4,5	30	2,0	0,6	180	-	10	98,4	30	105	32	144,4	44	WINCH (without wire rope)	89,3	40,5
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ACCESSORY: ROLLER FAIRLEAD	8,2	3,7
																		ACCESSORY: CABLE TENSIONER	-	-

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

Electric motor.....24V DC (3,6 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar

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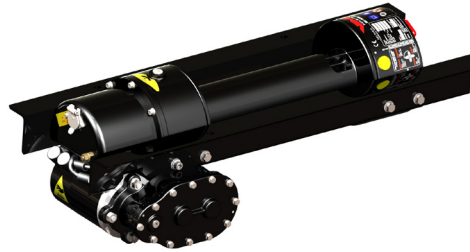
## JE 5100

24V



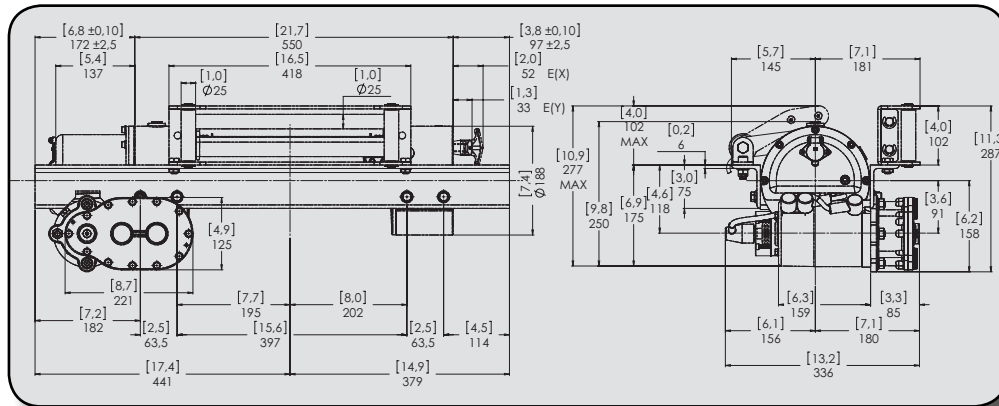
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Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



## JE 5100

24V



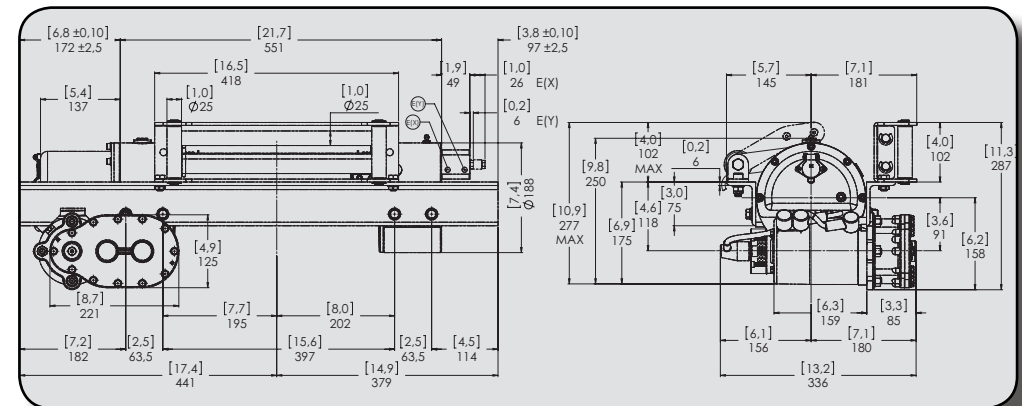
### AIR CLUTCH VERSION

On request at the order, JE winches can be 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.



Dimensions are :  
Inch  
Millimeters

### DIMENSIONAL DATA



### TECHNICAL DATA

VOLTAGE	LINE PULL		GEAR RATIO	NO LOAD		MAX. LINE PULL		WIRE ROPE SIZE	WIRE ROPE CAPACITY	MAX. WIRE ROPE CAPACITY EN 14492-1		MAX. WIRE ROPE CAPAC. **		DESCRIPTION	PESO					
	1st LAYER					1st LAYER				INCH	MM	FT	MT		FT	MT	LBS	KGS		
[V]	LBS	KGS		LINE SPEED		CURRENT	LINE SPEED		CURRENT					WINCH (without wire rope)	94,8	43				
				FT/MIN	MT/MIN	[A]	FT/MIN	MT/MIN	[A]					ACCESSORY: ROLLER FAIRLEAD	10,4	4,7				
24V	11.244	5.100	470:1	14,8	4,5	30	2,0	0,6	180	-	10	131	40	180,5	55	242,8	74	ACCESSORY: CABLE TENSIONER	5,5	2,5

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

Electric motor.....24V DC (3,6 Hp)  
Air clutch working pressure.....Min...(87 Psi)...6 Bar.....Max...(145 Psi)...10 Bar

**NOTE:** Wire rope size must be respected. Recommended wire rope min.tensile strength 2160 N/mm<sup>2</sup>.  
Wire rope minimum breaking load must be at least double of winch max. pulling capacity.  
Max.wire rope capacity according with EN 14492-1.

**WARNING**  
Do not use winch to lift support or transport personnel.

**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.