

# **VEVOR<sup>®</sup>**

## **TOUGH TOOLS, HALF PRICE**

Technical Support and E-Warranty Certificate

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## **Portable Power Electric Hoist User Manual**

**MODEL:LES-500**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

# VEVOR®

TOUGH TOOLS, HALF PRICE

Portable Power  
Electric Hoist

MODEL:LES-500








## NEED HELP? CONTACT US!


Have product questions? Need technical support? Please feel free to contact us:

**Technical Support and E-Warranty Certificate**  
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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

## IMPORTANT SAFEGUARDS

	<p>Warning-To reduce the risk of injury, user must read instructions manual carefully.</p>
	<p>This symbol, placed before a safety comment, indicates a kind of precaution, warning, or danger. Ignoring this warning may lead to an accident. To reduce the risk of injury, fire, or electrocution, please always follow the recommendations shown below.</p>
	<p>Warning- Be sure to wear gloves when using this product.</p>
	<p>Wear head protection</p>
	<p><b>CORRECT DISPOSAL</b>          This product is subject to the provision of european Directive 2012/19/EU. The symbol showing a wheelie bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to acollection point for recycling electrical and electronic devices.</p>

 **WARNING:** Read all safety warnings, instructions, illustrations and specifications provided with this machine. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

### Basic Safety Information

1. Please read the operation manual carefully before using the electric hoist.
2. To Reduce the Risk of Electric Shock or Injury, Use Indoors Only.

- 3.The installation position of the electric hoist must be selected at a place that meets the needs and is convenient for operation.
- 4.Regularly check whether the hoist is firmly installed.
5. Please do not overload and do not use the hoist when the weight of the lifted object is not clear.
- 6.Do not operate hoist with twisted, kinked, or damaged wire rope. Inspect wire rope carefully before every use.
- 7.During lifting, it is not allowed to pull or lift heavy objects at an angle to avoid danger.
8. Do not operate a damaged or malfunctioning hoist. Inspect hoist carefully and test operation before every use.
9. Do not lift people or lift loads over people. Falling loads can injure or kill people.
- 10.No one is allowed to stand under the lifting object when lifting the heavy object with the hoist.
- 11.When operating the wire rope, please wear thickened gloves, and do not let the wire rope slip through your hand, so as to avoid slipping or stabbing.
- 12.This electric hoist shall not carry people in any way or be used as an elevator lifting tool.
13. The operator should not operate the electric hoist under the condition of drinking, taking medicine or being ill.
- 14.Do not modify or weld the parts of the electric hoist at will.
- 15.When lifting the hoist, ensure that at least 3 coils of wire rope are retained on the rope barrel to prevent the wire rope from falling off the rope barrel due to excessive stress.
16. Before starting the work,make sure that the steel cable is correctly winded around the reel and that the pitch is equal to the cable diameter.
- 17.The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

**SAVE THESE INSTRUCTIONS**



# 1.PRODUCT PARAMETERS

Model: LES-500

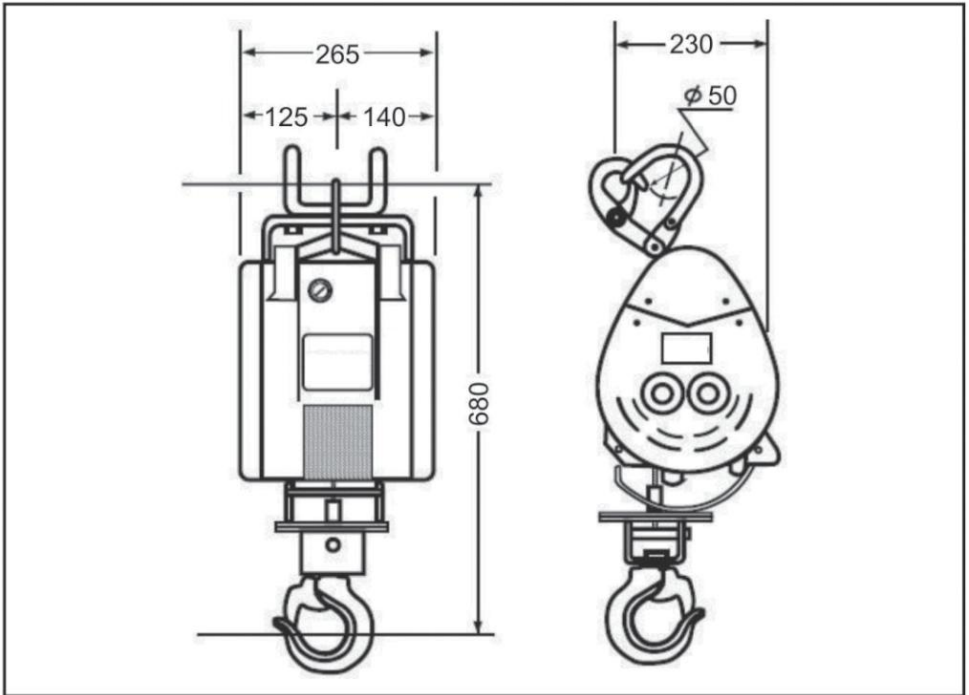
Rating(s): 120V~, 60Hz ,1800W OR 220-240V~, 50Hz, 1800W

Lifting Capacity: 1100Lbs(500kg) Max.

Lifting Speed: 36Ft/min (11m/min)

Lifting Height: 98Ft(30m)

Control Methods:Wired/Wireless



- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conastruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C high temperature above 40°C or humidity above 90% conditions.



- In heavy acid or salty conditions

※Cause malfunction of spare part

- In a organic chemistry of explosive power conditions



※Cause explosion

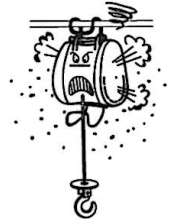
- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b+T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

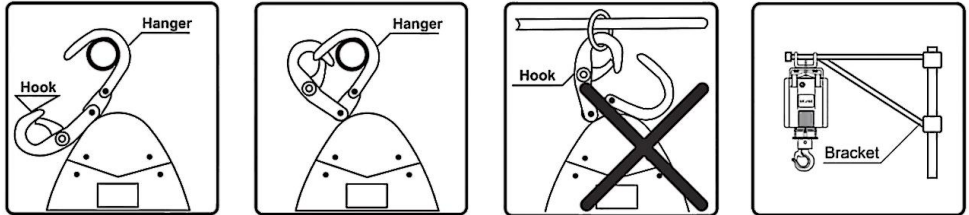
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



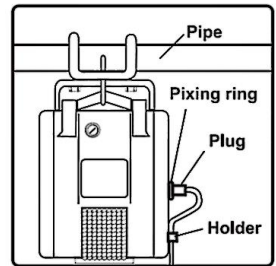
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

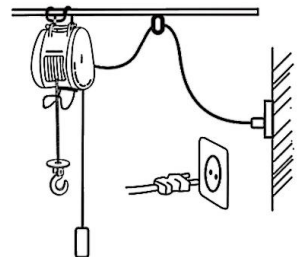
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



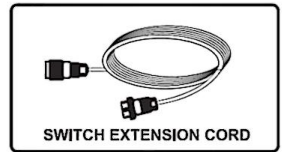
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extension cord (10M).

# 3. WORKING METHODS

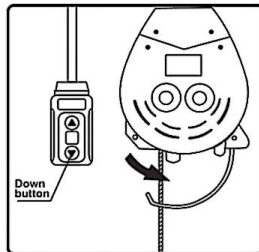
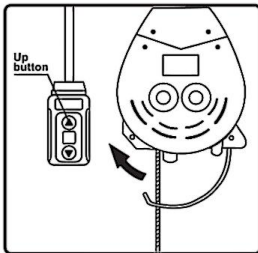
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.

To lower a load, press  $\downarrow$  button and drun will rotate as shown below.



When the button is released, the drum will stop moving

# 4. HANDING PRECAUTION

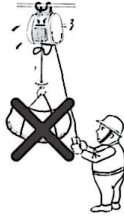
## 4. 1 ENVIRONMENT PRECAUTION:

### ⚠ WARNING



• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- ※ Winches are not to be used for lifting or lowering people.

- Don't work, walk or stand under an operating winch.



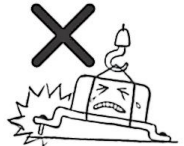
- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

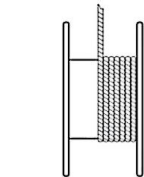


- Never gravitate a load freely.



- Always look up when working around winch, there is potential danger overhead.

- ※ Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fall, and after confirming the safety of function.



- A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.

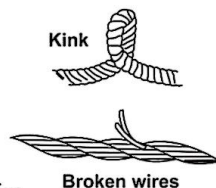
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.



- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

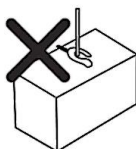
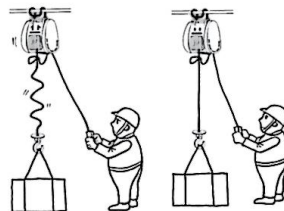
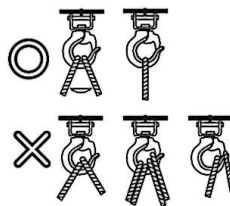
- Do not pull the switch cord to move a load.
- Do not over continuous ratings.



- Never plugging (istant reverse-wind) and inching.



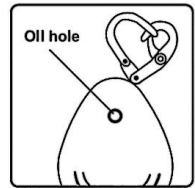
- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.
- Use a winch by fixing so securely that the rope around the drum is uneven.
- Be sure to fix a rope in the center of swivel hook.
- Be sure to stop operation immediately when the wire rope become fully slackened.
- Avoid catching the hook or lifting a load on a fixed obstruction.
- Always leave the push button switch positioned immediately after use.
- Make sure that the load being lifting are well balacnced and secured before starting.
- Avoid water splashes on the push button switch.
- Never wrap the load with the wire rope.





## 5. 1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



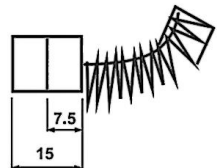
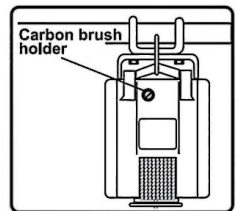
## 5. 2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

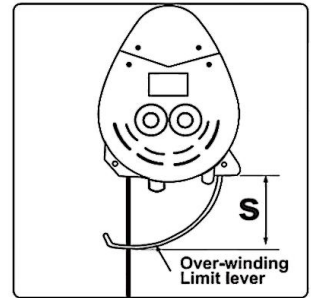


## 5. 3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

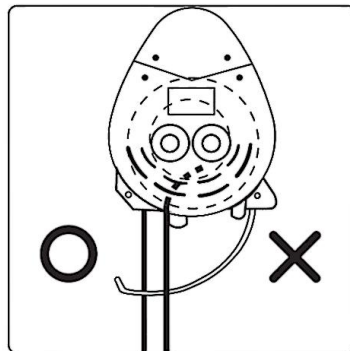
## 5. 4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

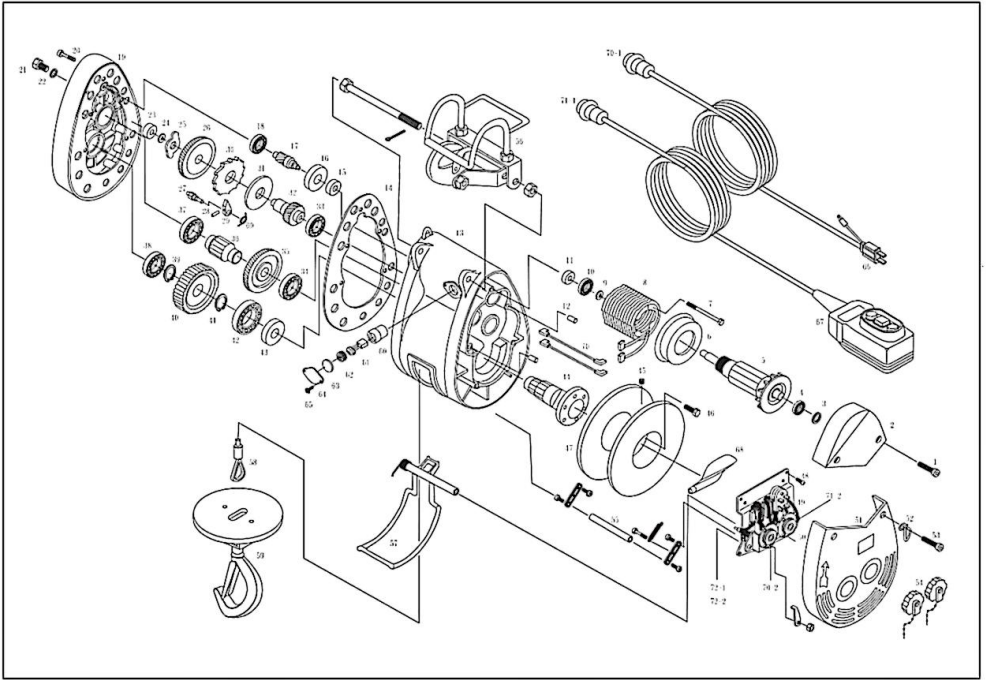


## 5. 5 REVERSE WINDING PREVENTION DEVICE:

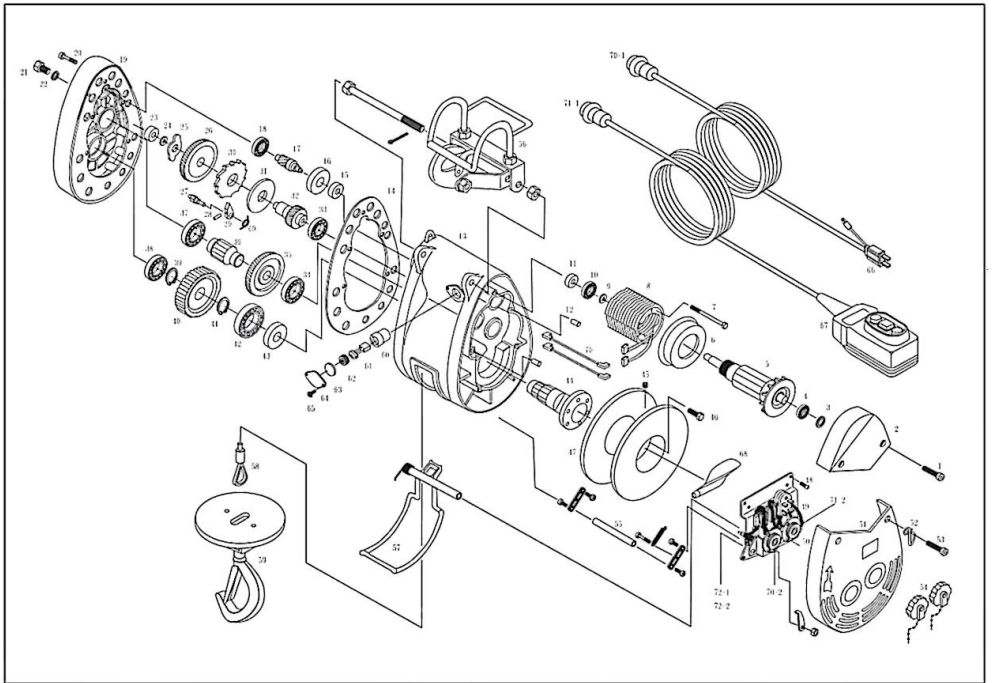
- A special mechaning provonts a over reverse-winding when lowering.
- Whan lawsning, a wire rope is fully extended, the wire rope will be shifted its position form to X.
- When a wire rope thouches the limit lever of over-winding prevention device. Lowing will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



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2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
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21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			

## **FCC Information (FCC ID:2BCH8-YTK) :**

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

**Note:** This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, it may cause harmful interference in radiocommunications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and the receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

**Manufacturer:** Shanghaimuxinmuyeyouxiangongsi

**Address:** Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, shanghai 200000 CN.

**Imported to AUS:** SIHAO PTY LTD. 1 ROKEVA STREETEASTWOOD NSW 2122 Australia

**Imported to USA:** Sanven Technology Ltd. Suite 250, 9166 Anaheim Place, Rancho Cucamonga, CA 91730

<b>EC</b>	<b>REP</b>
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Mainzer Landstr.69, 60329 Frankfurt am Main.

<b>UK</b>	<b>REP</b>
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# VEVOR®

**TOUGH TOOLS, HALF PRICE**

**Technical Support and E-Warranty Certificate**

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# VEVOR<sup>®</sup>

## TOUGH TOOLS, HALF PRICE

Assistance technique et certificat de garantie

électronique [www.vevor.com/support](http://www.vevor.com/support)

### Palan électrique portatif

#### Manuel d'utilisation

MODEL:LES-500

Nous continuons à nous engager à vous fournir des outils à des prix compétitifs.

« Économisez la moitié », « Moitié prix » ou toute autre expression similaire utilisée par nous ne représente qu'une estimation des économies que vous pourriez réaliser en achetant certains outils chez nous par rapport aux grandes marques et ne couvre pas nécessairement toutes les catégories d'outils que nous proposons.

Nous vous rappelons de bien vouloir vérifier soigneusement lorsque vous passez une commande chez nous si vous économisez réellement la moitié par rapport aux grandes marques.

**VEVOR**<sup>®</sup>  
TOUGH TOOLS, HALF PRICE

Alimentation portable  
Palans électriques

MODEL:LES-500



**BESOIN D'AIDE? CONTACTEZ-NOUS!**

Vous avez des questions sur nos produits ? Vous avez besoin d'assistance technique ? N'hésitez pas à nous contacter :

Assistance technique et certificat de garantie  
électronique [www.vevor.com/support](http://www.vevor.com/support)

Il s'agit de la notice d'utilisation d'origine. Veuillez lire attentivement toutes les instructions du manuel avant de l'utiliser. VEVOR se réserve le droit d'interpréter clairement notre manuel d'utilisation. L'apparence du produit dépend du produit que vous avez reçu. Veuillez nous excuser, nous ne vous informerons plus en cas de mise à jour technologique ou logicielle de notre produit.

## MESURES DE SÉCURITÉ IMPORTANTES

	<p>Avertissement - Pour réduire le risque de blessure, l'utilisateur doit lire les instructions</p> <p>Lisez attentivement le manuel.</p>
	<p>Ce symbole, placé avant un commentaire de sécurité, indique un type de précaution, avertissement ou danger. Ignorer cet avertissement peut entraîner un accident. Pour réduire le risque de blessure, d'incendie ou d'électrocution, veuillez suivre toujours les recommandations ci-dessous.</p>
	<p>Avertissement – Assurez-vous de porter des gants lorsque vous utilisez ce produit.</p>
	<p>Porter une protection pour la tête</p>
	<p><b>ÉLIMINATION CORRECTE</b></p> <p>Ce produit est soumis aux dispositions de la directive européenne 2012/19/UE. Le symbole représentant une poubelle à roulettes barrée indique que le produit nécessite une collecte séparée des déchets dans le Union européenne. Ceci s'applique au produit et à tous les accessoires marqués de ce symbole. Les produits marqués comme tels ne peuvent pas être jeté avec les ordures ménagères normales, mais doit être apporté à un point de collecte pour le recyclage des appareils électriques et électroniques.</p>



**AVERTISSEMENT** : Lisez tous les avertissements de sécurité, instructions, illustrations et spécifications fournies avec cette machine. Le non-respect de toutes les instructions répertoriées ci-dessous peut entraîner un choc électrique, un incendie et/ou des blessures graves.

### Informations de sécurité de base

1. Veuillez lire attentivement le manuel d'utilisation avant d'utiliser le palan électrique.
2. Pour réduire le risque de choc électrique ou de blessure, utilisez uniquement à l'intérieur.

3. La position d'installation du palan électrique doit être choisie à un endroit qui répond aux besoins et est pratique à utiliser.
4. Vérifiez régulièrement si le palan est fermement installé.
5. Veuillez ne pas surcharger et n'utilisez pas le palan lorsque le poids de la charge soulevée l'objet n'est pas clair.
6. N'utilisez pas le palan avec un câble métallique tordu, plié ou endommagé. Inspectez le câble  
Vérifiez soigneusement la corde avant chaque utilisation.
7. Lors du levage, il n'est pas permis de tirer ou de soulever des objets lourds en biais pour éviter danger.
8. N'utilisez pas un palan endommagé ou défectueux. Inspectez soigneusement le palan et tester le fonctionnement avant chaque utilisation.
9. Ne soulevez pas de personnes et ne soulevez pas de charges au-dessus de personnes. La chute de charges peut blesser ou tuer des personnes.
10. Personne n'est autorisé à se tenir sous l'objet soulevé lors du levage de l'objet lourd avec le palan.
11. Lorsque vous utilisez le câble métallique, veuillez porter des gants épais et ne laissez pas le laissez glisser le câble métallique dans votre main, afin d'éviter de glisser ou de vous poignarder.
12. Ce palan électrique ne doit en aucun cas transporter des personnes ni être utilisé comme ascenseur. outil de levage.
13. L'opérateur ne doit pas utiliser le palan électrique dans des conditions boire, prendre des médicaments ou être malade.
14. Ne pas modifier ni souder les pièces du palan électrique à volonté.
15. Lors du levage du palan, assurez-vous qu'au moins 3 bobines de câble métallique sont maintenues sur le tambour à câble pour empêcher le câble métallique de tomber du tambour à câble en raison de stress excessif.
16. Avant de commencer le travail, assurez-vous que le câble en acier est correctement enroulé autour de la bobine et que le pas est égal au diamètre du câble.
17. Les avertissements, précautions et instructions décrits dans cette instruction  
Le manuel ne peut pas couvrir toutes les conditions et situations possibles qui peuvent se produire. Il doit être compris par l'opérateur que le bon sens et la prudence sont des facteurs qui ne peut pas être intégré à ce produit, mais doit être fourni par l'opérateur.

**CONSERVEZ CES INSTRUCTIONS**



# 1. PARAMÈTRES DU PRODUIT

Model: LES-500

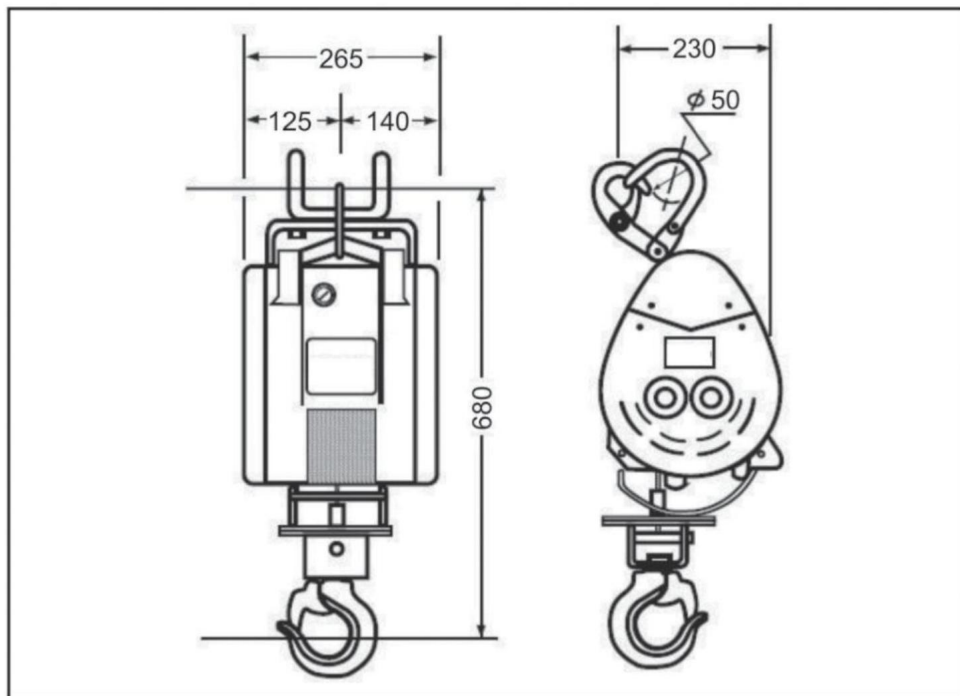
Puissance nominale : , 60 Hz, 1 800 W ou 220-240 V~, 50 Hz, 1 800 W

120 V~ Capacité de levage : 1 100 lb (500 kg) max.

Vitesse de levage : 36 pi/min (11 m/min)

Hauteur de levage : 98 pi (30 m)

Méthodes de contrôle : filaire/sans fil




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

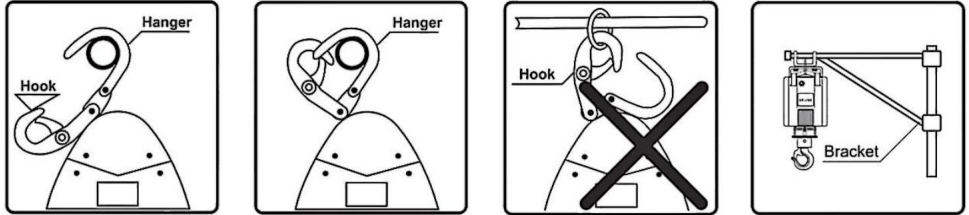
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



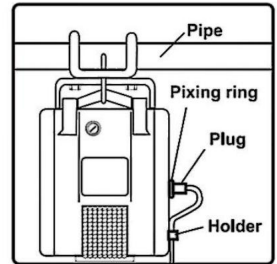
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

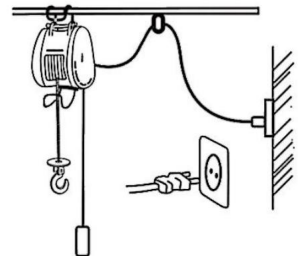
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



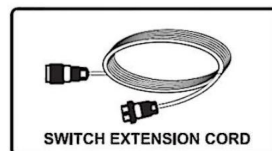
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extension cord (10M).

# 3. WORKING METHODS

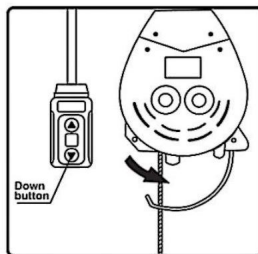
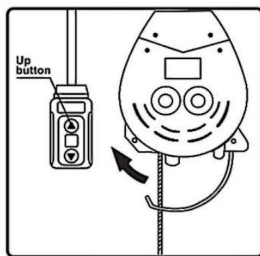
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.

To lower a load, press  $\downarrow$  button and drum will rotate as shown below.



When the button is released, the drum will stop moving

## 4. HANDING PRECAUTION

### 4. 1 ENVIRONMENT PRECAUTION:

#### WARNING



• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- Don't work, walk or stand under an operating winch.



- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

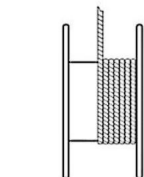
- Always look up when working around winch, there is potential danger overhead.



- Never gravitate a load freely.



- Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fall, and after confirming the safety of function.



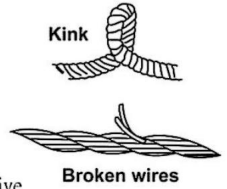
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

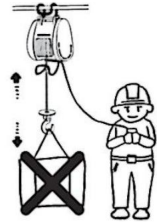


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.

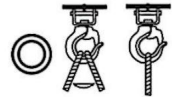


- Never plugging (istant reverse-wind) and inching.



- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



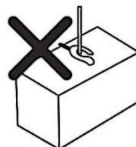
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

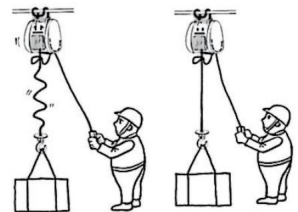
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacned and secured before starting.

- Avoid water splashes on the push button switch.



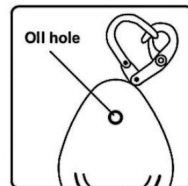
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



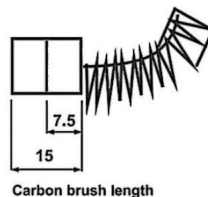
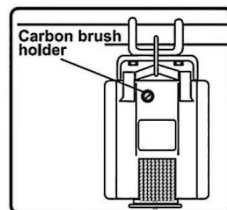
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

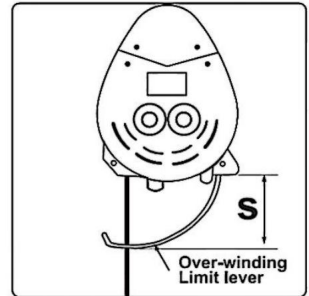


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

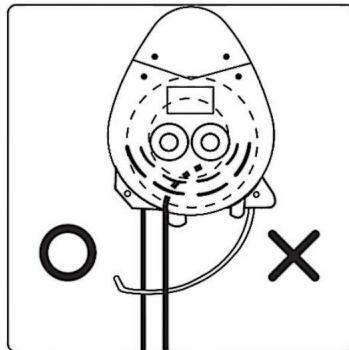
## 5.4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

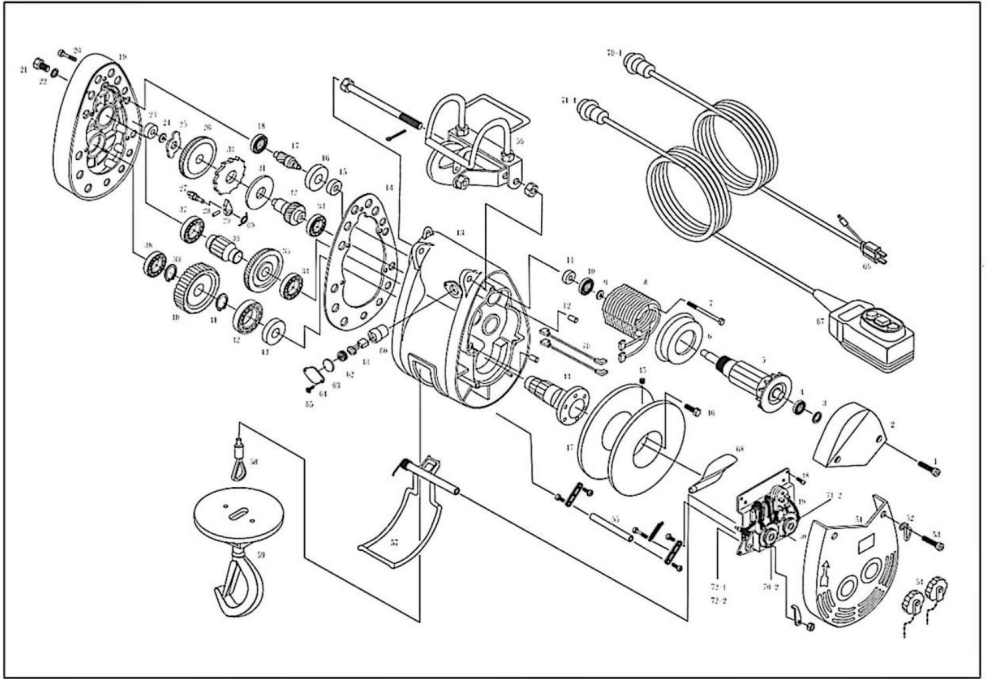


## 5.5 REVERSE WINDING PREVENTION DEVICE:

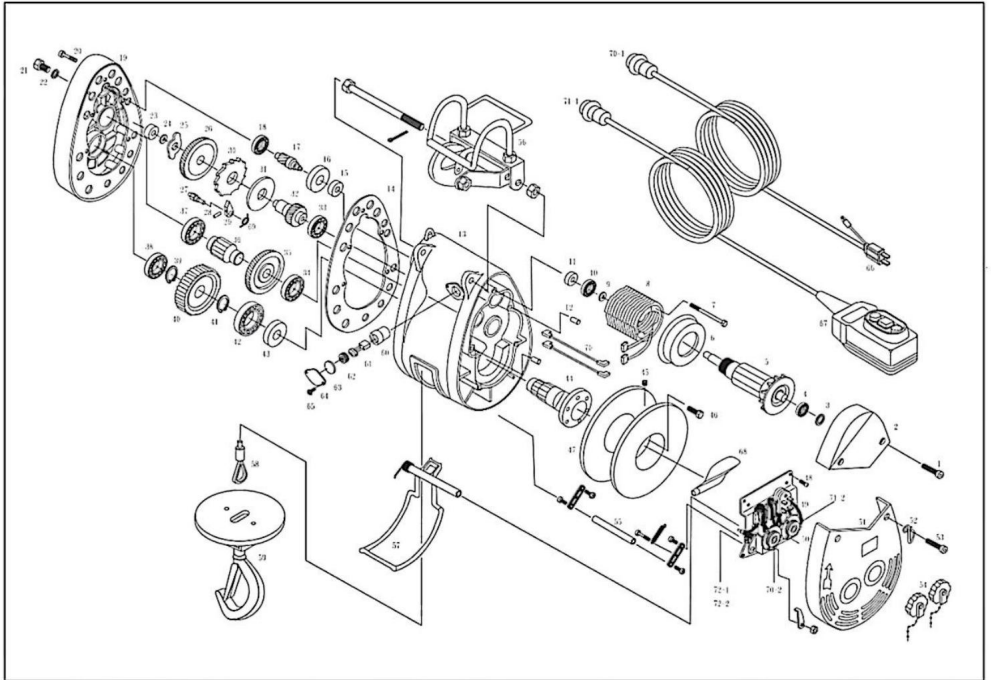
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
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5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
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22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			

## Informations FCC ( ID FCC : 2BCH8-YTK) :

ATTENTION : Les changements ou modifications non expressément approuvés par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à exploiter le équipement!

Cet appareil est conforme à la partie 15 des règles de la FCC. Son fonctionnement est soumis aux les deux conditions suivantes :

- 1) Ce produit peut provoquer des interférences nuisibles.
- 2) Ce produit doit accepter toute interférence reçue, y compris les interférences qui peut provoquer un fonctionnement indésirable.

AVERTISSEMENT : Les changements ou modifications apportés à ce produit non expressément approuvés par la partie responsable de la conformité pourrait annuler l'autorité de l'utilisateur à exploiter le produit.

Remarque : Ce produit a été testé et jugé conforme aux limites d'une classe

Appareil numérique B conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans un environnement résidentiel installation.

Ce produit génère, utilise et peut émettre de l'énergie radiofréquence, et s'il ne l'est pas installé et utilisé conformément aux instructions, il peut causer des dommages interférences dans les radiocommunications. Cependant, il n'existe aucune garantie que aucune interférence ne se produira dans une installation particulière. Si ce produit provoque interférence nuisible à la réception radio ou télévision, qui peut être déterminée par en éteignant et en rallumant le produit, l'utilisateur est encouragé à essayer de corriger le problème. interférence par une ou plusieurs des mesures suivantes.

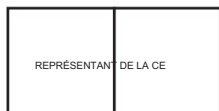
- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre le produit et le récepteur.
- Branchez le produit sur une prise d'un circuit différent de celui auquel le le récepteur est connecté.
- Consultez le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

Fabricant : Shanghaimuxinmuyeyouxiangongsi

Adresse : Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, Shanghai  
200000 CN.

Importé en Australie : SIHAO PTY LTD. 1 ROKEVA STREET EASTWOOD NSW  
2122 Australie

Importé aux États-Unis : Sanven Technology Ltd. Suite 250, 9166 Anaheim Place, Rancho  
Cucamonga, CA 91730



E-CrossStu GmbH

Mainzer Landstr.69, 60329 Francfort-sur-le-Main.



YH CONSULTING LIMITÉE.

C/O YH Consulting Limited Bureau 147, Centurion House,

Route de Londres, Staines-upon-Thames, Surrey, TW18 4AX

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### **Tragbarer elektrischer Hebezeug**

#### **Bedienungsanleitung**

**MODELL:LES-500**

Wir sind weiterhin bestrebt, Ihnen Werkzeuge zu wettbewerbsfähigen Preisen anzubieten. „Sparen Sie die Hälfte“, „Halber Preis“ oder andere ähnliche Ausdrücke, die wir verwenden, stellen nur eine Schätzung der Ersparnis dar, die Sie beim Kauf bestimmter Werkzeuge bei uns im Vergleich zu den großen Topmarken erzielen können, und decken nicht unbedingt alle von uns angebotenen Werkzeugkategorien ab. Wir möchten Sie freundlich daran erinnern, bei Ihrer Bestellung bei uns sorgfältig zu prüfen, ob Sie im Vergleich zu den großen Topmarken tatsächlich die Hälfte sparen.

**VEVOR**<sup>®</sup>  
TOUGH TOOLS, HALF PRICE

Tragbare Stromversorgung  
Elektrisches Hebezeug

MODELL:LES-500







**Brauchen Sie Hilfe? Kontaktieren Sie uns!**

Sie haben Fragen zu unseren Produkten? Sie benötigen technischen Support? Dann kontaktieren Sie uns gerne:

**Technischer Support und E-Garantie-Zertifikat**  
**[www.vevor.com/support](http://www.vevor.com/support)**

Dies ist die Originalanleitung. Bitte lesen Sie alle Anweisungen sorgfältig durch, bevor Sie das Gerät in Betrieb nehmen. VEVOR behält sich eine klare Auslegung unserer Bedienungsanleitung vor. Das Erscheinungsbild des Produkts richtet sich nach dem Produkt, das Sie erhalten haben. Bitte verzeihen Sie uns, dass wir Sie nicht erneut informieren, wenn es Technologie- oder Software-Updates für unser Produkt gibt.

## WICHTIGE SICHERHEITSHINWEISE

	<p>Warnung - Um das Verletzungsrisiko zu verringern, muss der Benutzer die Anweisungen lesen</p> <p>Lesen Sie das Handbuch sorgfältig durch.</p>
	<p>Dieses Symbol vor einem Sicherheitshinweis weist auf eine Art Vorsichtsmaßnahme, Warnung oder Gefahr. Das Ignorieren dieser Warnung kann zu einem Unfallgefahr. Um das Risiko von Verletzungen, Feuer oder Stromschlag zu verringern, Befolgen Sie immer die unten aufgeführten Empfehlungen.</p>
	<p>Achtung: Tragen Sie bei der Verwendung dieses Produkts unbedingt Handschuhe.</p>
	<p>Kopfschutz tragen</p>
	<p><b>KORREKTE ENTSORGUNG</b></p> <p>Dieses Produkt unterliegt den Bestimmungen der europäischen Richtlinie 2012/19/EU. Das Symbol einer durchgestrichenen Mülltonne weist darauf hin, dass das Produkt einer getrennten Müllentsorgung im Europäische Union. Dies gilt für das Produkt und alle Zubehörteile gekennzeichnet. Produkte, die mit diesem Symbol gekennzeichnet sind, dürfen nicht nicht mit dem normalen Hausmüll entsorgt werden, sondern müssen eine Sammelstelle für das Recycling von elektrischen und elektronischen Geräten.</p>



**WARNUNG:** Lesen Sie alle Sicherheitswarnungen, Anweisungen, Abbildungen und

Spezifikationen, die mit dieser Maschine geliefert werden. Nichtbefolgen aller aufgeführten Anweisungen

Die folgenden Hinweise können zu Stromschlägen, Bränden und/oder schweren Verletzungen führen.

### Grundlegende Sicherheitsinformationen

1. Bitte lesen Sie die Bedienungsanleitung sorgfältig durch, bevor Sie den elektrischen Hebezug verwenden.
2. Um das Risiko eines Stromschlags oder einer Verletzung zu verringern, verwenden Sie das Gerät nur in Innenräumen.

3. Der Einbauort des Elektrozuges muss so gewählt werden, dass erfüllt die Anforderungen und ist bequem zu bedienen.
4. Überprüfen Sie regelmäßig, ob der Hebezug fest montiert ist.
5. Bitte überlasten Sie den Hebezug nicht und verwenden Sie ihn nicht, wenn das Gewicht des zu hebenden Objekts nicht klar.
6. Betreiben Sie den Hebezug nicht mit verdrehtem, geknicktem oder beschädigtem Drahtseil. Seil vor jedem Gebrauch sorgfältig prüfen.
7. Während des Anhebens ist es nicht erlaubt, schwere Gegenstände in einem Winkel zu ziehen oder anzuheben, um zu vermeiden Gefahr.
8. Betreiben Sie keinen beschädigten oder defekten Hebezeug. Überprüfen Sie das Hebezeug sorgfältig und Testen Sie den Betrieb vor jedem Gebrauch.
9. Heben Sie keine Personen hoch und heben Sie keine Lasten über Personen. Herabfallende Lasten können Personen verletzen oder töten.
10. Beim Anheben des schweren Gegenstandes darf niemand unter dem zu hebenden Gegenstand stehen mit dem Hebezeug.
11. Wenn Sie das Drahtseil bedienen, tragen Sie bitte dicke Handschuhe und lassen Sie das Drahtseil durch die Hand gleiten lassen, um ein Abrutschen oder Stechen zu vermeiden.
12. Dieser elektrische Hebezug darf in keiner Weise Personen befördern oder als Aufzug verwendet werden. Hebewerkzeug.
13. Der Bediener sollte den elektrischen Hebezeug nicht unter den Bedingungen betreiben, Trinken, Medikamente einnehmen oder krank sein.
14. Verändern oder schweißen Sie die Teile des Elektrohebezeugs nicht willkürlich.
15. Beim Anheben des Hebezeugs ist darauf zu achten, dass mindestens 3 Drahtseilspulen am die Seiltrommel, um zu verhindern, dass das Drahtseil von der Seiltrommel fällt, weil übermäßiger Stress.
16. Stellen Sie vor Beginn der Arbeiten sicher, dass das Stahlkabel richtig aufgewickelt ist um die Rolle herum und dass die Steigung dem Kabeldurchmesser entspricht.
17. Die in dieser Anleitung beschriebenen Warnungen, Vorsichtsmaßnahmen und Anweisungen Das Handbuch kann nicht alle möglichen Bedingungen und Situationen abdecken, die auftreten können. Es muss Der Bediener muss verstehen, dass gesunder Menschenverstand und Vorsicht Faktoren sind, können bei diesem Produkt nicht eingebaut werden, sondern müssen vom Betreiber bereitgestellt werden.

**BEWAHREN SIE DIESE ANWEISUNGEN AUF**



# 1.PRODUKTPARAMETER

Modell: LES-500

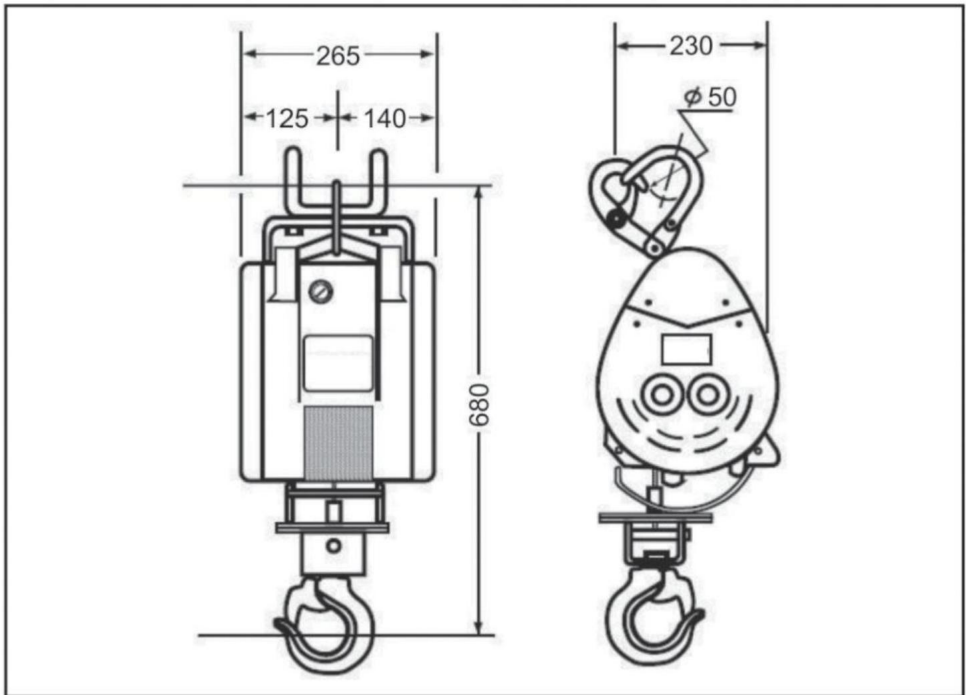
Nennleistung: 120 , 60 Hz, 1800 W ODER 220–240 V~, 50 Hz, 1800 W

V~. Hubkapazität: 1100 Pfund (500 kg) max.

Hubgeschwindigkeit: 36 Fuß/min (11 m/min)

Hubhöhe: 98 Fuß (30 m)

Steuerungsmethoden: Kabelgebunden/Kabellos





- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency. In the long time operation, make sure to use the machine within its continuous ratings. Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

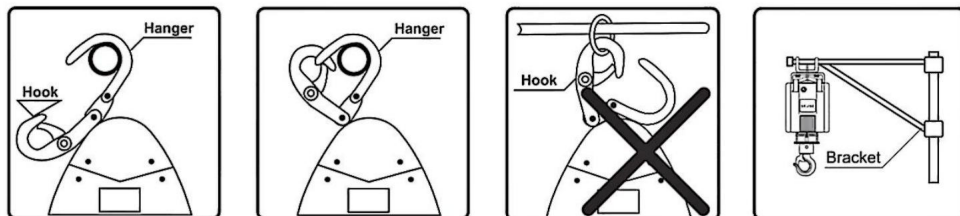
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



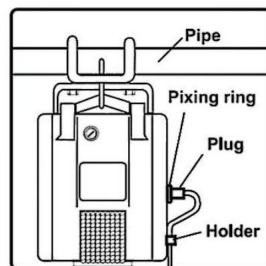
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

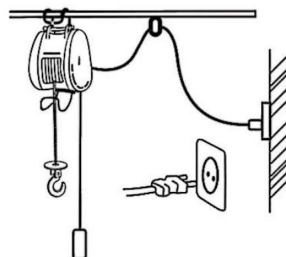
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



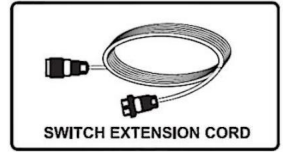
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extension cord (10M).

# 3. WORKING METHODS

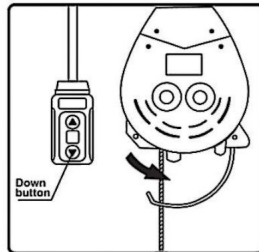
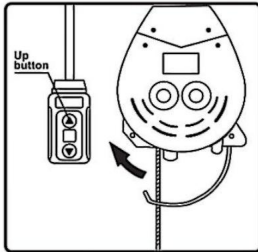
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.



To lower a load, press  $\downarrow$  button and drum will rotate as shown below.



When the button is released, the drum will stop moving

# 4. HANDING PRECAUTION

## 4. 1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>• Pay best attention to the following instruction. Obvious mistakes in operaton may result in personal inquiry or equipment damage.</li> </ul>

- Never try to lift a load more than the rated cap.

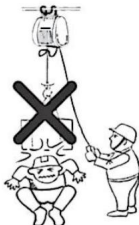


- Never hitch a ride on the hook, sling or load being moving.



- ※Winches are not to be used for lifting or lowering people.

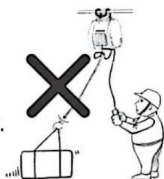
- Don't work, walk or stand under an operating winch.



- Always remain in control, Never negiect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

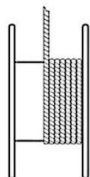


- Never gravitate a load freely.



- Always look up when working around winch, thers is potential danger overhead.

- ※Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to staring of use, carry out the dally checking without fall, and after confirming the safety of function.



- A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.

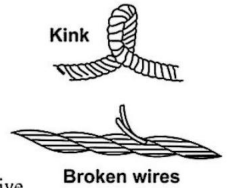
- If having a counter rotation incurred, make sure to correct its tuning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

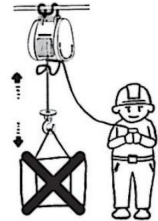


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.

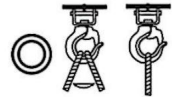


- Never plugging (istant reverse-wind) and inching.

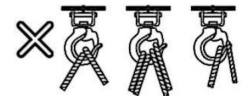


- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



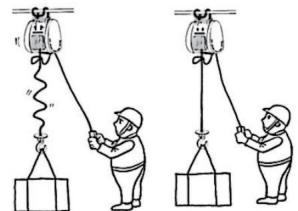
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

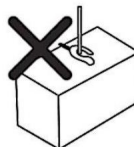
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacned and secured before starting.

- Avoid water splashes on the push button switch.



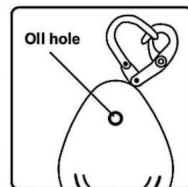
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



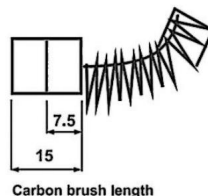
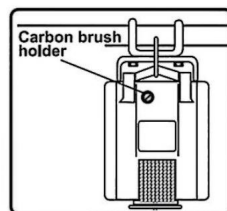
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

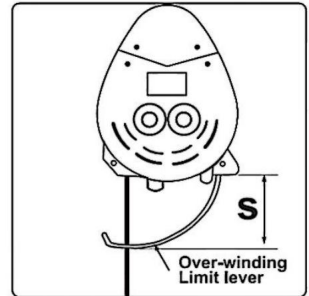


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

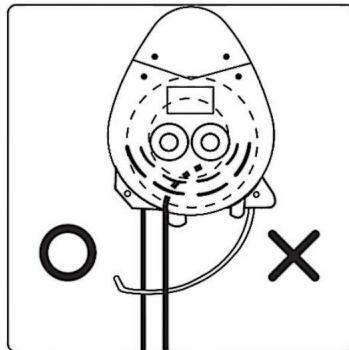
## 5.4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

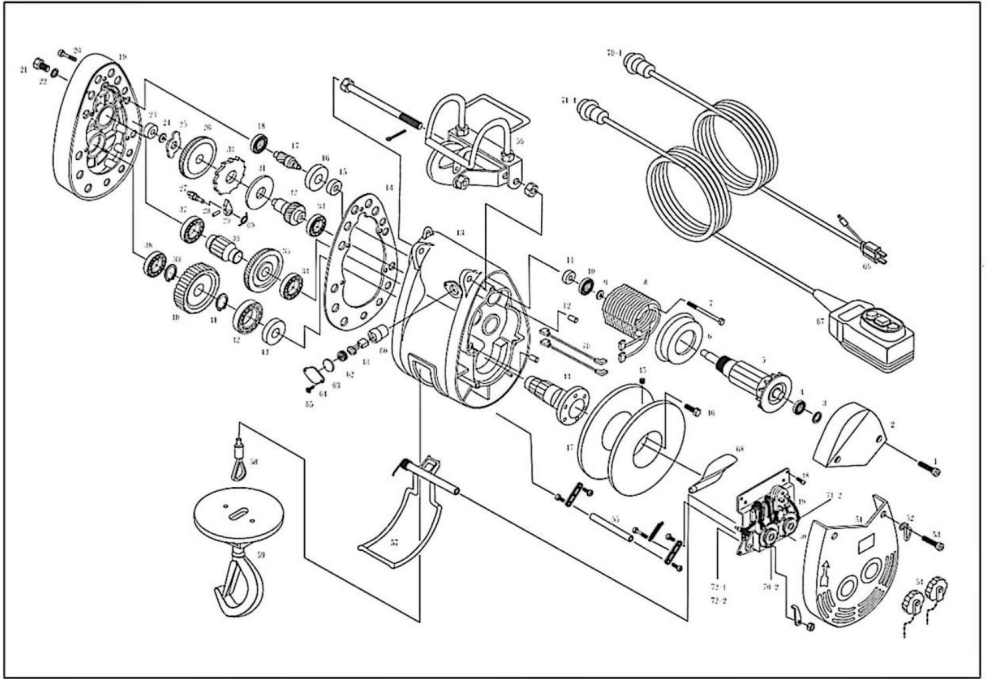


## 5.5 REVERSE WINDING PREVENTION DEVICE:

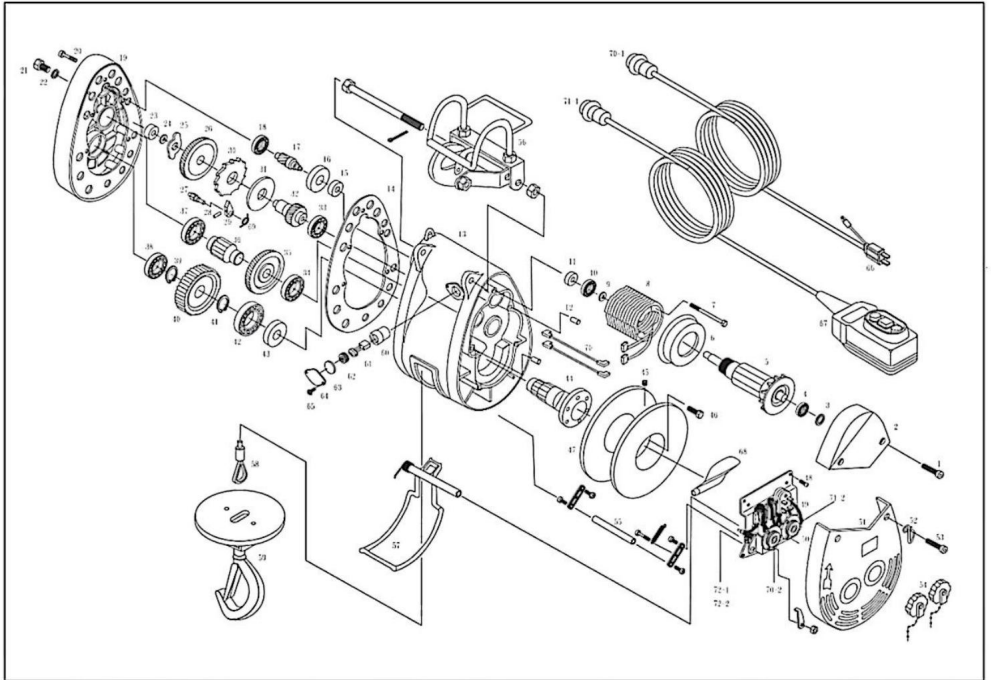
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



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6	FAN COVER	1	29	PAWL	1	52	RING	1
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10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
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## FCC-Informationen (FCC -ID: 2BCH8-YTK):

**ACHTUNG:** Änderungen oder Modifikationen, die nicht ausdrücklich von der Partei genehmigt wurden Konformitätsverantwortung kann zum Erlöschen der Berechtigung des Benutzers zum Betrieb des Ausrüstung!

Dieses Gerät entspricht Teil 15 der FCC-Bestimmungen. Der Betrieb unterliegt den die folgenden zwei Bedingungen:

- 1) Dieses Produkt kann schädliche Störungen verursachen.
- 2) Dieses Produkt muss alle empfangenen Störungen akzeptieren, einschließlich Störungen, die kann zu unerwünschtem Betrieb führen.

**ACHTUNG:** Änderungen oder Modifikationen an diesem Produkt, die nicht ausdrücklich von Die für die Einhaltung der Vorschriften verantwortliche Partei kann die Berechtigung des Benutzers zum Betrieb des Produkt.

**Hinweis:** Dieses Produkt wurde getestet und entspricht den Grenzwerten für eine Klasse B digitales Gerät gemäß Teil 15 der FCC-Regeln. Diese Grenzwerte sind so ausgelegt, bieten einen angemessenen Schutz gegen schädliche Störungen in einem Wohngebiet Installation.

Dieses Produkt erzeugt, verwendet und kann Hochfrequenzenergie ausstrahlen.

Wenn das Gerät nicht gemäß den Anweisungen installiert und verwendet wird, kann es zu Störungen im Funkverkehr. Es gibt jedoch keine Garantie dafür, dass

Störungen treten bei einer bestimmten Installation nicht auf. Wenn dieses Produkt dennoch Störungen verursacht, schädliche Störungen des Radio- oder Fernsehempfangs, die festgestellt werden können durch Nach dem Aus- und Einschalten des Produkts wird dem Benutzer empfohlen, das Problem zu beheben.

Störungen durch eine oder mehrere der folgenden Maßnahmen.

- Empfangsantenne neu ausrichten oder verlegen.
- Vergrößern Sie den Abstand zwischen Produkt und Empfänger.
- Schließen Sie das Produkt an eine Steckdose eines anderen Stromkreises an als den, an den das Empfänger ist angeschlossen.
- Wenden Sie sich an den Händler oder einen erfahrenen Radio-/Fernsehtechniker.

**Hersteller:** Shanghaimuxinmuyeyouxiangongsi

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# VEVOR®

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# **VEVOR<sup>®</sup>**

## **TOUGH TOOLS, HALF PRICE**

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### **Paranco elettrico portatile**

### **Manuale d'uso**

**MODELLO:LES-500**

Continuiamo a impegnarci per fornirvi strumenti a prezzi competitivi.

"Risparmia la metà", "Metà prezzo" o qualsiasi altra espressione simile da noi utilizzata rappresenta solo una stima del risparmio che potresti ottenere acquistando determinati utensili con noi rispetto ai principali marchi principali e non significa necessariamente coprire tutte le categorie di utensili da noi offerti. Ti ricordiamo gentilmente di verificare attentamente quando effettui un ordine con noi se stai effettivamente risparmiando la metà rispetto ai principali marchi principali.

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TOUGH TOOLS, HALF PRICE

Potenza portatile  
Paranco elettrico

MODELLO:LES-500



**HAI BISOGNO DI AIUTO? CONTATTACI!**

Hai domande sui prodotti? Hai bisogno di supporto tecnico? Non esitare a contattarci:

**Supporto tecnico e certificato di garanzia  
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Questa è l'istruzione originale, si prega di leggere attentamente tutte le istruzioni del manuale prima di utilizzare. VEVOR si riserva una chiara interpretazione del nostro manuale utente. L'aspetto del prodotto sarà soggetto al prodotto ricevuto. Vi preghiamo di perdonarci se non vi informeremo di nuovo se ci sono aggiornamenti tecnologici o software sul nostro prodotto.

## IMPORTANTI MISURE DI SICUREZZA

	<p>Attenzione: per ridurre il rischio di lesioni, l'utente deve leggere le istruzioni manuale con attenzione.</p>
	<p>Questo simbolo, posto prima di un commento di sicurezza, indica un tipo di precauzione, avvertimento o pericolo. Ignorare questo avvertimento può portare a un incidente. Per ridurre il rischio di lesioni, incendi o folgorazione, si prega di seguire sempre le raccomandazioni riportate di seguito.</p>
	<p>Attenzione: assicurarsi di indossare guanti quando si utilizza questo prodotto.</p>
	<p>Indossare una protezione per la testa</p>
	<p><b>SMALTIMENTO CORRETTO</b></p> <p>Questo prodotto è soggetto alle disposizioni della Direttiva Europea 2012/19/UE. Il simbolo raffigurante un bidone della spazzatura barrato indica che il prodotto richiede una raccolta differenziata dei rifiuti Unione Europea. Ciò si applica al prodotto e a tutti gli accessori contrassegnati con questo simbolo. I prodotti contrassegnati come tali non possono essere smaltiti insieme ai normali rifiuti domestici, ma deve essere portato un punto di raccolta per il riciclaggio di apparecchiature elettriche ed elettroniche.</p>



**ATTENZIONE:** leggere tutte le avvertenze di sicurezza, le istruzioni, le illustrazioni e specifiche fornite con questa macchina. La mancata osservanza di tutte le istruzioni elencate di seguito può causare scosse elettriche, incendi e/o lesioni gravi.

### Informazioni di base sulla sicurezza

1. Leggere attentamente il manuale d'uso prima di utilizzare il paranco elettrico.
2. Per ridurre il rischio di scosse elettriche o lesioni, utilizzare solo in ambienti chiusi.

3. La posizione di installazione del paranco elettrico deve essere selezionata in un luogo che soddisfa le esigenze ed è comodo da usare.
  4. Controllare regolarmente che il paranco sia installato saldamente.
  5. Si prega di non sovraccaricare e di non utilizzare il paranco quando il peso sollevato l'oggetto non è chiaro.
  6. Non azionare il paranco con fune metallica attorcigliata, piegata o danneggiata. Ispezionare il cavo corda con cura prima di ogni utilizzo.
  7. Durante il sollevamento, non è consentito tirare o sollevare oggetti pesanti in obliquo per evitare Pericolo.
  8. Non azionare un paranco danneggiato o malfunzionante. Ispezionare attentamente il paranco e testare il funzionamento prima di ogni utilizzo.
  9. Non sollevare persone o sollevare carichi sopra le persone. I carichi che cadono possono ferire o uccidere le persone.
  10. Non è consentito a nessuno di sostare sotto l'oggetto da sollevare quando si solleva un oggetto pesante. con l'argano.
  11. Quando si utilizza il cavo metallico, indossare guanti spessi e non lasciare che il cavo metallico scivoli attraverso la mano, in modo da evitare di scivolare o ferirsi.
  12. Questo paranco elettrico non deve trasportare persone in alcun modo né essere utilizzato come ascensore.
- attrezzo di sollevamento.
13. L'operatore non deve azionare il paranco elettrico in condizioni di bere, prendere medicine o ammalarsi.
  14. Non modificare o saldare a piacimento le parti del paranco elettrico.
  15. Quando si solleva il paranco, assicurarsi che almeno 3 bobine di fune metallica siano trattenute su il cilindro della fune per evitare che il cavo metallico cada dal cilindro della fune a causa di stress eccessivo.
  16. Prima di iniziare il lavoro, assicurarsi che il cavo d'acciaio sia correttamente avvolto attorno alla bobina e che il passo sia uguale al diametro del cavo.
  17. Le avvertenze, le precauzioni e le istruzioni discusse in questa istruzione il manuale non può coprire tutte le possibili condizioni e situazioni che possono verificarsi. Deve essere compreso dall'operatore che il buon senso e la cautela sono fattori che non può essere integrato in questo prodotto, ma deve essere fornito dall'operatore.

**SALVA QUESTE ISTRUZIONI**



## 1.PARAMETRI DEL PRODOTTO

Modello: LES-500

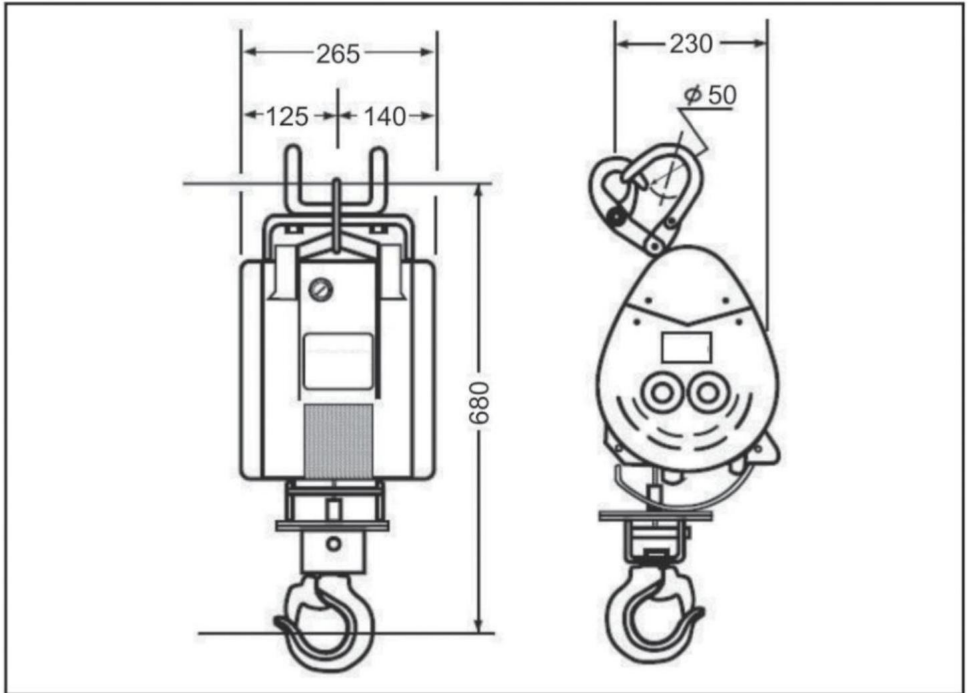
Potenza nominale: 120 , 60Hz, 1800W O 220-240V~, 50Hz, 1800W

V~ Capacità di sollevamento: 1100 libbre (500 kg) max.

Velocità di sollevamento: 36 piedi/min (11 m/min)

Altezza di sollevamento: 98 piedi (30 m)

Metodi di controllo: cablato/wireless




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b+T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

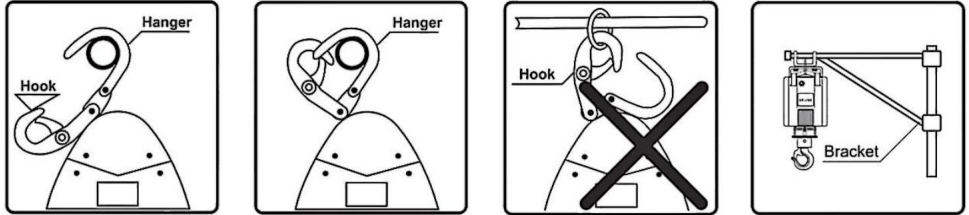
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



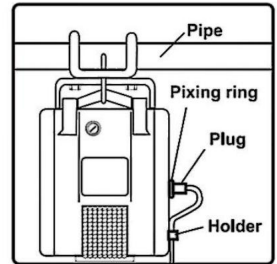
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

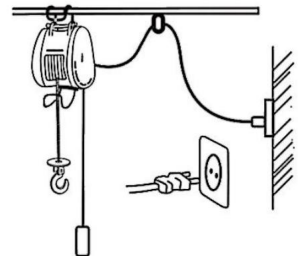
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



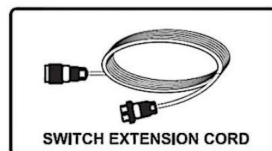
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extension cord (10M).

# 3. WORKING METHODS

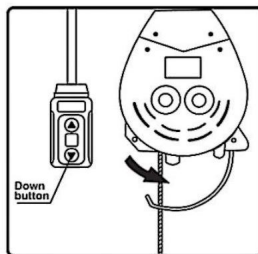
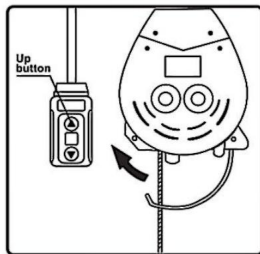
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.

To lower a load, press  $\downarrow$  button and drum will rotate as shown below.



When the button is released, the drum will stop moving

## 4. HANDING PRECAUTION

### 4. 1 ENVIRONMENT PRECAUTION:

#### ⚠ WARNING



• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



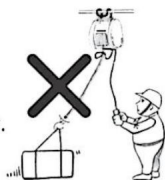
- Don't work, walk or stand under an operating winch.



- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

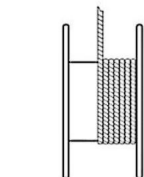


- Never gravitate a load freely.



- Always look up when working around winch, there is potential danger overhead.

- Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fail, and after confirming the safety of function.



- A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.

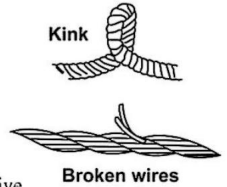
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

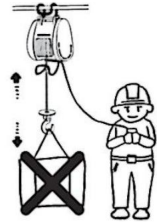


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.



- Never plugging (istant reverse-wind) and inching.



- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



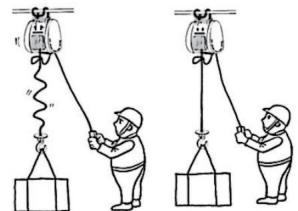
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

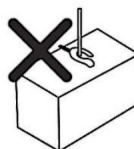
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacnced and secured before starting.

- Avoid water splashes on the push button switch.



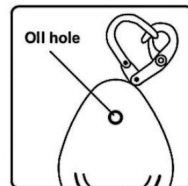
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



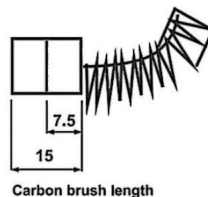
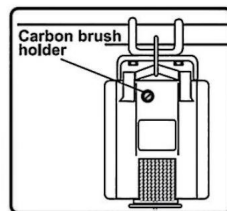
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

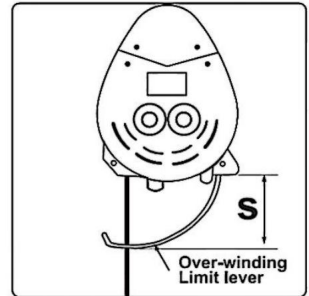


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

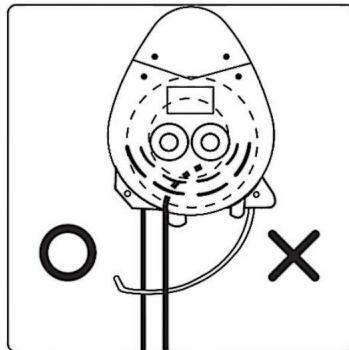
## 5.4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

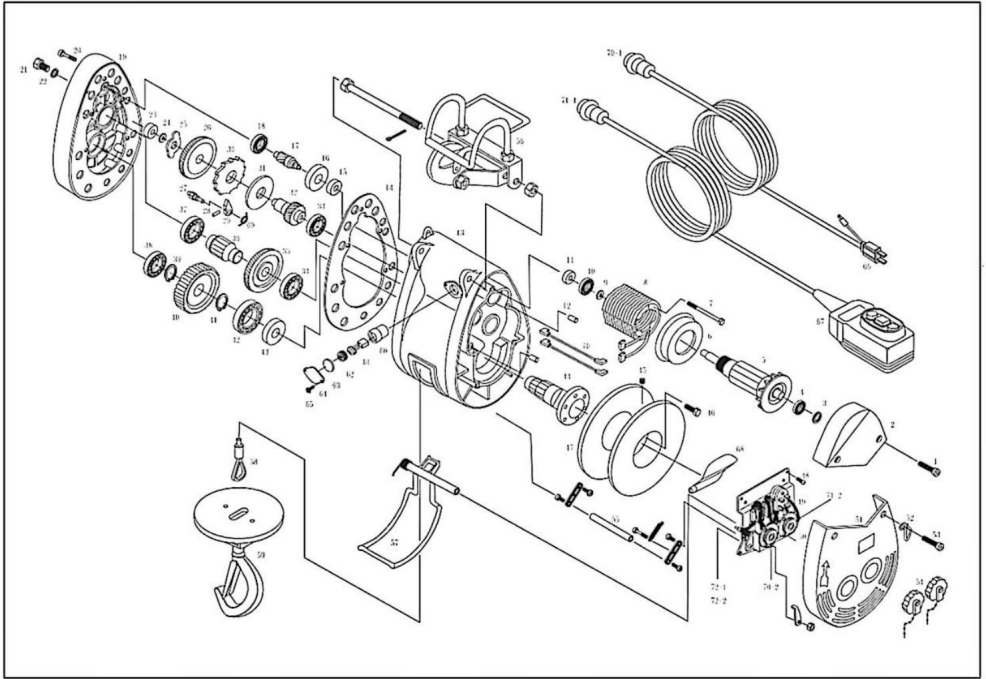


## 5.5 REVERSE WINDING PREVENTION DEVICE:

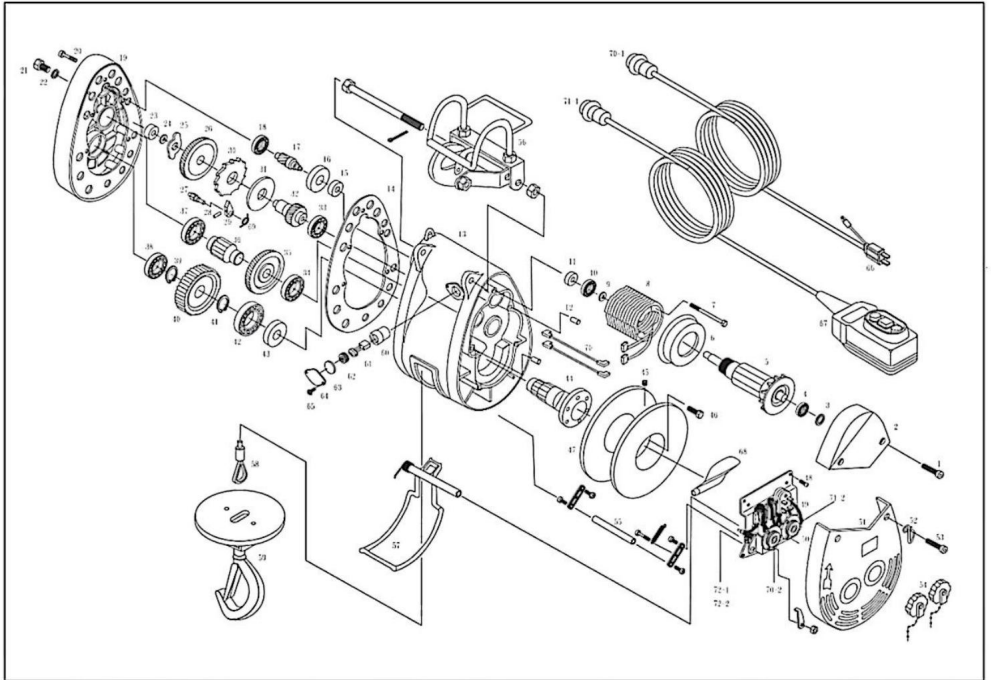
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



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5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
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22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			

## **Informazioni FCC ( ID FCC: 2BCH8-YTK):**

**ATTENZIONE:** Cambiamenti o modifiche non espressamente approvati dalla parte responsabile della conformità potrebbe invalidare l'autorità dell'utente di utilizzare il attrezzatura!

Questo dispositivo è conforme alla Parte 15 delle Norme FCC. Il funzionamento è soggetto a seguendo due condizioni:

- 1) Questo prodotto può causare interferenze dannose.
- 2) Questo prodotto deve accettare qualsiasi interferenza ricevuta, comprese le interferenze che potrebbe causare un funzionamento indesiderato.

**ATTENZIONE:** Cambiamenti o modifiche a questo prodotto non espressamente approvati da la parte responsabile della conformità potrebbe annullare l'autorità dell'utente di utilizzare il prodotto.

**Nota:** questo prodotto è stato testato e ritenuto conforme ai limiti per una Classe Dispositivo digitale B ai sensi della Parte 15 delle Norme FCC. Questi limiti sono progettati per fornire una protezione ragionevole contro interferenze dannose in un ambiente residenziale installazione.

Questo prodotto genera, utilizza e può irradiare energia a radiofrequenza e, se non installato e utilizzato in conformità alle istruzioni, può causare danni interferenza nelle radiocomunicazioni. Tuttavia, non vi è alcuna garanzia che interferenze non si verificheranno in una particolare installazione. Se questo prodotto causa interferenze dannose alla ricezione radiofonica o televisiva, che possono essere determinate da spegnendo e riaccendendo il prodotto, si incoraggia l'utente a provare a correggere l' interferenza mediante una o più delle seguenti misure.

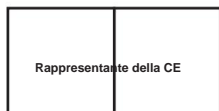
- Riorientare o riposizionare l'antenna ricevente.
- Aumentare la distanza tra il prodotto e il ricevitore.
- Collegare il prodotto a una presa di corrente su un circuito diverso da quello a cui è collegato il il ricevitore è collegato.
- Per assistenza, consultare il rivenditore o un tecnico radio/TV esperto.

**Produttore:** Shanghaimuxinmuyeyouxiangongsi

**Indirizzo:** Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, shanghai 200000 CN.

**Importato in AUS:** SIHAO PTY LTD. 1 ROKEVA STREETEASTWOOD NSW 2122 Australia

**Importato negli USA:** Sanven Technology Ltd. Suite 250, 9166 Anaheim Place, Rancho Cucamonga, CA 91730



E-CrossStu GmbH

Mainzer Landstr.69, 60329 Francoforte sul Meno.



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C/O YH Consulting Limited Ufficio 147, Centurion House, Via Roma, 101, 00186 Roma, Italia

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**Polipasto eléctrico portátil**

**Manual de usuario**

**MODELO:LES-500**

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Polipasto eléctrico

MODELO:LES-500



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electrónica [www.vevor.com/support](http://www.vevor.com/support)**

Estas son las instrucciones originales, lea atentamente todas las instrucciones del manual antes de utilizar el producto. VEVOR se reserva una interpretación clara de nuestro manual de usuario. La apariencia del producto estará sujeta al producto que recibió. Perdónenos por no informarle nuevamente si hay actualizaciones de tecnología o software en nuestro producto.

## MEDIDAS DE SEGURIDAD IMPORTANTES

	<p>Advertencia: Para reducir el riesgo de lesiones, el usuario debe leer las instrucciones.</p> <p>Lea el manual con cuidado.</p>
	<p>Este símbolo, colocado antes de un comentario de seguridad, indica un tipo de precaución, advertencia o peligro. Ignorar esta advertencia puede provocar un accidente. Para reducir el riesgo de lesiones, incendio o electrocución, por favor Siga siempre las recomendaciones que se muestran a continuación.</p>
	<p>Advertencia: Asegúrese de usar guantes al utilizar este producto.</p>
	<p>Use protección para la cabeza</p>
	<p><b>ELIMINACIÓN CORRECTA</b></p> <p>Este producto está sujeto a las disposiciones de la Directiva europea 2012/19/UE. El símbolo que muestra un contenedor de basura tachado indica que el producto requiere recogida selectiva de residuos en el Unión Europea. Esto se aplica al producto y a todos los accesorios marcados con este símbolo. Los productos marcados como tal no pueden desecharse con la basura doméstica normal, sino que deben llevarse a Punto de recogida para el reciclaje de aparatos eléctricos y electrónicos.</p>



**ADVERTENCIA:** Lea todas las advertencias de seguridad, instrucciones, ilustraciones y especificaciones proporcionadas con esta máquina. No seguir todas las instrucciones enumeradas Lo siguiente puede provocar descarga eléctrica, incendio y/o lesiones graves.

### Información básica de seguridad

1. Lea atentamente el manual de funcionamiento antes de utilizar el polipasto eléctrico.
2. Para reducir el riesgo de descarga eléctrica o lesiones, utilícelo únicamente en interiores.

3. La posición de instalación del polipasto eléctrico debe seleccionarse en un lugar que satisfaga las necesidades y es cómodo para la operación.
  4. Compruebe periódicamente si el polipasto está firmemente instalado.
  5. No sobrecargue ni utilice el polipasto cuando el peso del objeto elevado sea demasiado alto. El objeto no está claro.
  6. No opere el polipasto con un cable de acero torcido, enroscado o dañado. Inspeccione el cable. Cuerda con cuidado antes de cada uso.
  7. Durante el levantamiento, no está permitido tirar o levantar objetos pesados en ángulo para evitar peligro.
  8. No utilice un polipasto dañado o que no funcione correctamente. Inspeccione el polipasto con cuidado y Pruebe el funcionamiento antes de cada uso.
  9. No levante personas ni levante cargas sobre otras personas. La caída de cargas puede lesionar o matar a personas.
  10. Nadie puede permanecer debajo del objeto que se está levantando cuando se levanta el objeto pesado. con el polipasto.
  11. Al operar el cable de acero, utilice guantes gruesos y no deje que el cable entre en contacto con el agua. El cable de acero se desliza a través de su mano, para evitar resbalarse o pincharse.
  12. Este polipasto eléctrico no debe transportar personas de ninguna manera ni utilizarse como ascensor.
- herramienta de elevación.
13. El operador no debe operar el polipasto eléctrico en condiciones de: beber, tomar medicamentos o estar enfermo.
  14. No modifique ni suelde las piezas del polipasto eléctrico a voluntad.
  15. Al levantar el polipasto, asegúrese de que al menos 3 bobinas de cable de acero estén retenidas en el cañón de la cuerda para evitar que el cable de acero se caiga del cañón de la cuerda debido a estrés excesivo.
  16. Antes de comenzar el trabajo, asegúrese de que el cable de acero esté correctamente enrollado. alrededor del carrete y que el paso sea igual al diámetro del cable.
  17. Las advertencias, precauciones e instrucciones comentadas en este instructivo El manual no puede cubrir todas las posibles condiciones y situaciones que pueden ocurrir. Debe El operador debe entender que el sentido común y la precaución son factores que No se pueden incorporar a este producto, sino que deben ser suministrados por el operador.

**GUARDE ESTAS INSTRUCCIONES**



## 1. PARÁMETROS DEL PRODUCTO

Modelo: LES-500

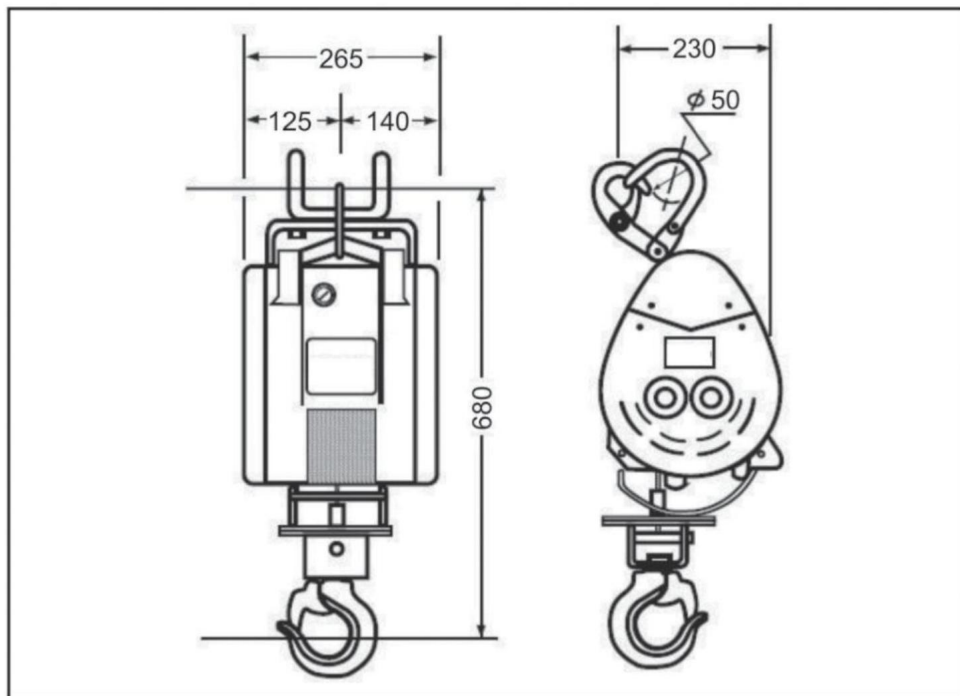
Clasificación(es): 120 , 60 Hz, 1800 W O 220-240 V~, 50 Hz, 1800 W

V~ Capacidad de elevación: 1100 lb (500 kg) Máx.

Velocidad de elevación: 36 pies/min (11 m/min)

Altura de elevación: 98 pies (30 m)

Métodos de control: cableado/inalámbrico




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

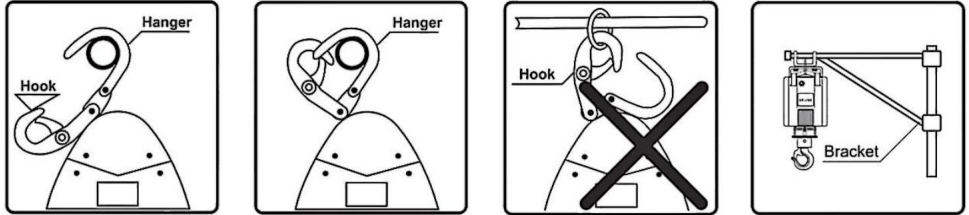
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



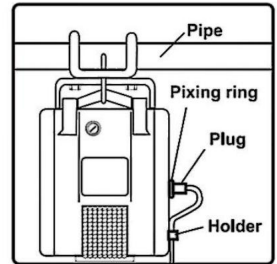
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

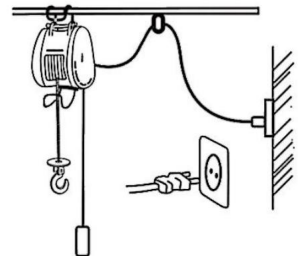
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



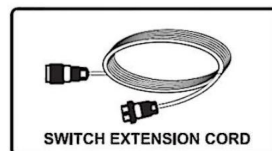
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extension cord (10M).

# 3. WORKING METHODS

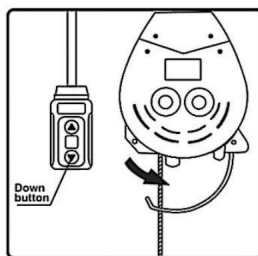
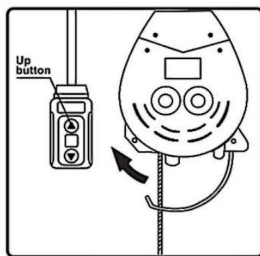
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.



To lower a load, press  $\downarrow$  button and drum will rotate as shown below.



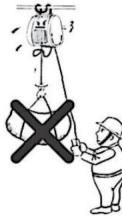
When the button is released, the drum will stop moving

# 4. HANDING PRECAUTION

## 4. 1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.</li> </ul>

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- ※ Winches are not to be used for lifting or lowering people.

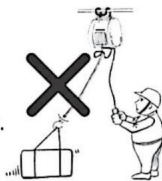
- Don't work, walk or stand under an operating winch.



- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

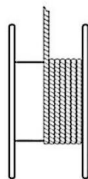


- Never gravitate a load freely.

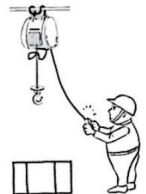


- Always look up when working around winch, there is potential danger overhead.

- ※ Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fall, and after confirming the safety of function.



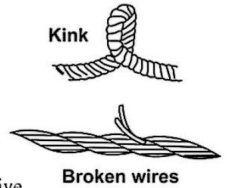
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

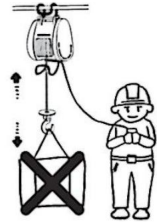


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.

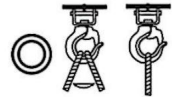


- Never plugging (istant reverse-wind) and inching.

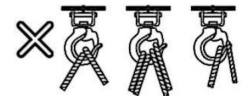


- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



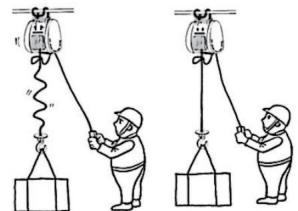
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

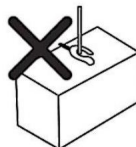
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacned and secured before starting.

- Avoid water splashes on the push button switch.



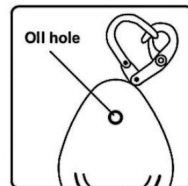
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



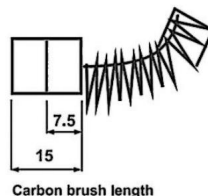
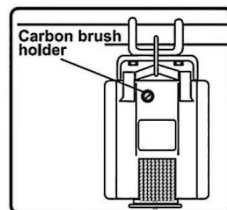
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

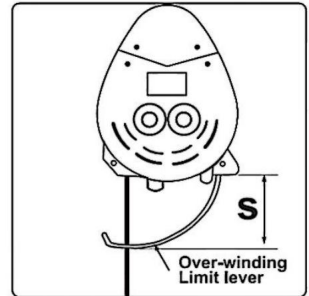


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

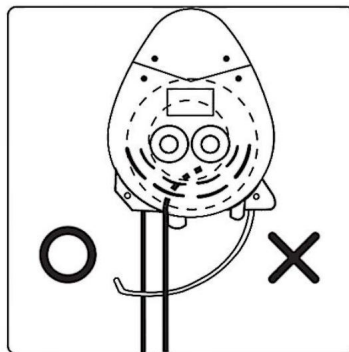
## 5. 4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

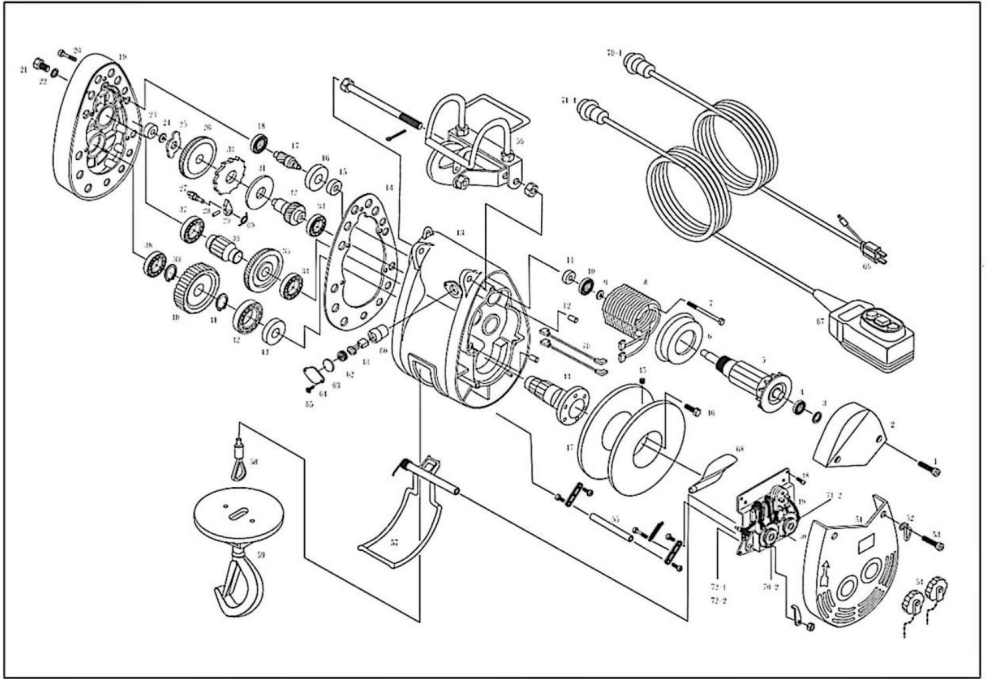


## 5. 5 REVERSE WINDING PREVENTION DEVICE:

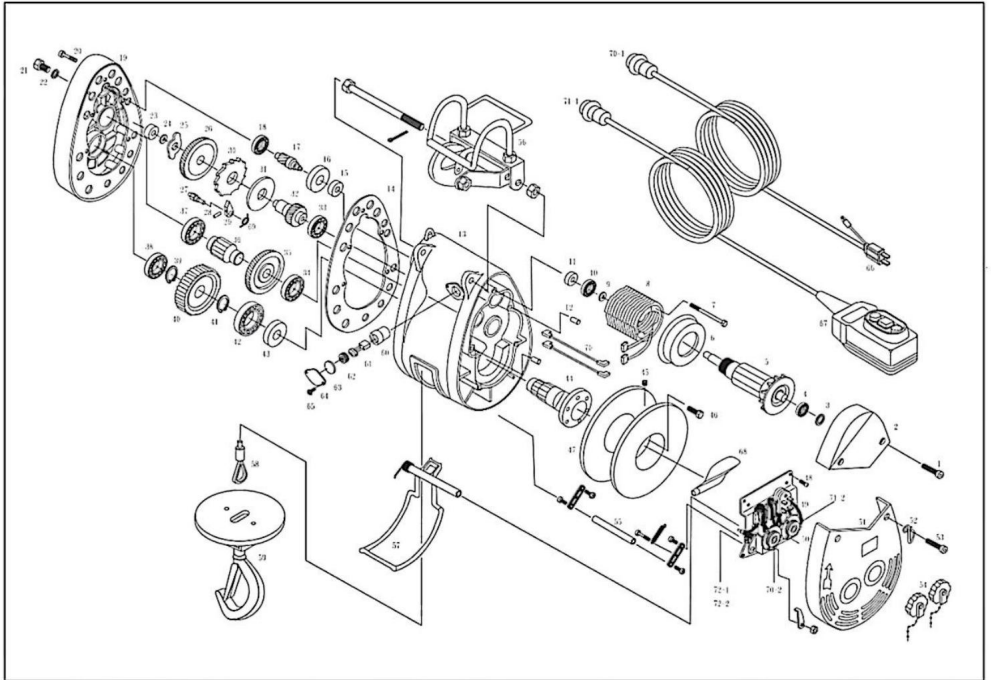
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
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4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			

## Información de la FCC ( ID de la FCC: 2BCH8-YTK):

**PRECAUCIÓN:** Los cambios o modificaciones no aprobados expresamente por la parte responsable del cumplimiento podría anular la autoridad del usuario para operar el equipo!

Este dispositivo cumple con la Parte 15 de las Normas de la FCC. Su funcionamiento está sujeto a las siguientes dos condiciones:

- 1) Este producto puede causar interferencias dañinas.
- 2) Este producto debe aceptar cualquier interferencia recibida, incluida la interferencia que Puede provocar un funcionamiento no deseado.

**ADVERTENCIA:** Los cambios o modificaciones a este producto no aprobados expresamente por La parte responsable del cumplimiento podría anular la autoridad del usuario para operar el producto.

**Nota:** Este producto ha sido probado y se ha determinado que cumple con los límites para una Clase Dispositivo digital B de conformidad con la Parte 15 de las Normas de la FCC. Estos límites están diseñados para Proporcionar una protección razonable contra interferencias perjudiciales en un entorno residencial. instalación.

Este producto genera, utiliza y puede irradiar energía de radiofrecuencia y, si no Si se instala y utiliza de acuerdo con las instrucciones, puede causar daños. interferencias en las radiocomunicaciones. Sin embargo, no hay garantía de que No se producirán interferencias en una instalación en particular. Si este producto causa interferencia perjudicial a la recepción de radio o televisión, que puede determinarse por Al apagar y encender el producto, se recomienda al usuario que intente corregir el problema. interferencia mediante una o más de las siguientes medidas.

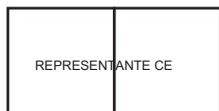
- Reorientar o reubicar la antena receptora.
- Aumente la distancia entre el producto y el receptor.
- Conecte el producto a una toma de corriente de un circuito diferente de aquel al que está conectado. El receptor está conectado.
- Consulte al distribuidor o a un técnico de radio/TV experimentado para obtener ayuda.

Fabricante: Shanghaimuxinmuyeyouxiangongsi

Dirección: Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, shanghai  
200000 CN.

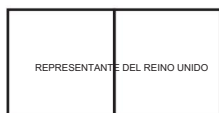
Importado a Australia: SIHAO PTY LTD. 1 ROKEVA STREETEASTWOOD NSW  
2122 Australia

Importado a EE. UU.: Sanven Technology Ltd. Suite 250, 9166 Anaheim Place, Rancho  
Cucamonga, CA 91730



E-CrossStu GmbH

Mainzer Landstr.69, 60329 Fráncfort del Meno.



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Instrukcja obsługi

MODEL:LES-500

Nadal staramy się oferować Państwu narzędzia w konkurencyjnych cenach.

„Oszczędź do połowy”, „Połowa ceny” lub inne podobne wyrażenia używane przez nas stanowią jedynie szacunkowe oszczędności, jakie możesz uzyskać, kupując u nas określone narzędzia w porównaniu z głównymi markami i niekoniecznie oznaczają one objęcie wszystkich kategorii narzędzi oferowanych przez nas. Uprzejmie przypominamy, aby dokładnie sprawdzić, czy składając u nas zamówienie faktycznie oszczędzasz połowę w porównaniu z głównymi markami.

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MODEL:LES-500







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To jest oryginalna instrukcja, przed użyciem należy uważnie przeczytać wszystkie instrukcje. VEVOR zastrzega sobie jasną interpretację naszej instrukcji obsługi. Wygląd produktu będzie zależał od produktu, który otrzymałeś. Prosimy o wybaczenie, że nie poinformujemy Cię ponownie, jeśli w naszym produkcie pojawią się jakiegokolwiek aktualizacje technologiczne lub oprogramowania.

## WAŻNE ZABEZPIECZENIA

	Ostrzeżenie – aby zmniejszyć ryzyko obrażeń, użytkownik musi przeczytać instrukcję instrukcję uważnie.
	Ten symbol, umieszczony przed komentarzem dotyczącym bezpieczeństwa, oznacza rodzaj środek ostrożności, ostrzeżenie lub niebezpieczeństwo. Zignorowanie tego ostrzeżenia może prowadzić do wypadku. Aby zmniejszyć ryzyko obrażeń, pożaru lub porażenia prądem, prosimy Zawsze postępuj zgodnie z poniższymi zaleceniami.
	Ostrzeżenie: Podczas stosowania tego produktu należy nosić rękawiczki.
	Noś ochronę głowy
	<p>PRAWIDŁOWA UTYLIZACJA</p> <p>Niniejszy produkt podlega postanowieniom dyrektywy europejskiej 2012/19/UE. Symbol przedstawiający przekreślony kosz na śmieci na kółkach oznacza, że produkt wymaga oddzielnej zbiórki odpadów w Unia Europejska. Dotyczy produktu i wszystkich akcesoriów oznaczone tym symbolem. Produkty oznaczone w ten sposób nie mogą być wyrzucać razem z normalnymi odpadami domowymi, ale należy je oddać do punkt zbiórki sprzętu elektrycznego i elektronicznego przeznaczonego do recyklingu.</p>



**OSTRZEŻENIE:** Przeczytaj wszystkie ostrzeżenia dotyczące bezpieczeństwa, instrukcje, ilustracje i specyfikacje dostarczone z tym urządzeniem. Nieprzestrzeganie wszystkich instrukcji wymienionych

Nieprzestrzeganie poniższych zaleceń może skutkować porażeniem prądem, pożarem i/lub poważnymi obrażeniami.

Podstawowe informacje dotyczące bezpieczeństwa

1. Przed użyciem wciągnika elektrycznego należy uważnie przeczytać instrukcję obsługi.
2. Aby zminimalizować ryzyko porażenia prądem lub obrażeń, używaj urządzenia wyłącznie wewnątrz pomieszczeń.

3. Miejsce montażu podnośnika elektrycznego należy wybrać w miejscu, spełnia potrzeby i jest wygodny w obsłudze.
4. Regularnie sprawdzaj, czy podnośnik jest solidnie zainstalowany.
5. Nie przeciążaj podnośnika i nie używaj go, gdy ciężar podnoszonego przedmiotu przekracza obiekt nie jest jasny.
6. Nie używaj wciągarki ze skręconą, załamana lub uszkodzoną liną stalową. Sprawdź linę  
Przed każdym użyciem dokładnie wyczyść linę .
7. Podczas podnoszenia nie wolno ciągnąć ani podnosić ciężkich przedmiotów pod kątem, aby uniknąć  
niebezpieczeństwo.
8. Nie używaj uszkodzonego lub niesprawnego podnośnika. Dokładnie sprawdź podnośnik i  
Przed każdym użyciem należy wykonać test działania.
9. Nie podnoś ludzi ani nie podnoś ładunków nad ludźmi. Spadające ładunki mogą zranić lub zabić ludzi.
10. Nikomu nie wolno stawać pod podnoszonym przedmiotem podczas podnoszenia ciężkiego przedmiotu.  
z podnośnikiem.
11. Podczas obsługi liny stalowej należy nosić grube rękawice i nie dopuszczać do  
Przeciągnij linę przez dłoń, aby uniknąć poślizgnięcia się lub skaleczenia.
12. Wciągarka elektryczna nie może w żaden sposób służyć do transportu osób ani być używana jako winda.  
narzędzie do podnoszenia.
13. Operator nie powinien obsługiwać wciągarki elektrycznej w stanie, w którym:  
picie, przyjmowanie leków lub bycie chorym.
14. Nie wolno modyfikować ani spawać elementów wciągarki elektrycznej.
15. Podczas podnoszenia wciągarki należy upewnić się, że na linie znajduje się co najmniej 3 zwoje liny.  
beczka na linę, aby zapobiec spadaniu liny z beczki na linę z powodu  
nadmierny stres.
16. Przed rozpoczęciem pracy należy upewnić się, że lina stalowa jest prawidłowo nawinięta  
wokół bębna i że skok jest równy średnicy kabla.
17. Ostrzeżenia, środki ostrożności i instrukcje omówione w niniejszej instrukcji  
instrukcja nie może objąć wszystkich możliwych warunków i sytuacji, które mogą wystąpić. Musi  
operator musi zrozumieć, że zdrowy rozsądek i ostrożność to czynniki, które  
nie może być wbudowany w ten produkt, lecz musi zostać dostarczony przez operatora.

**ZAPISZ TE INSTRUKCJE**



# 1. PARAMETRY PRODUKTU

Model: LES-500

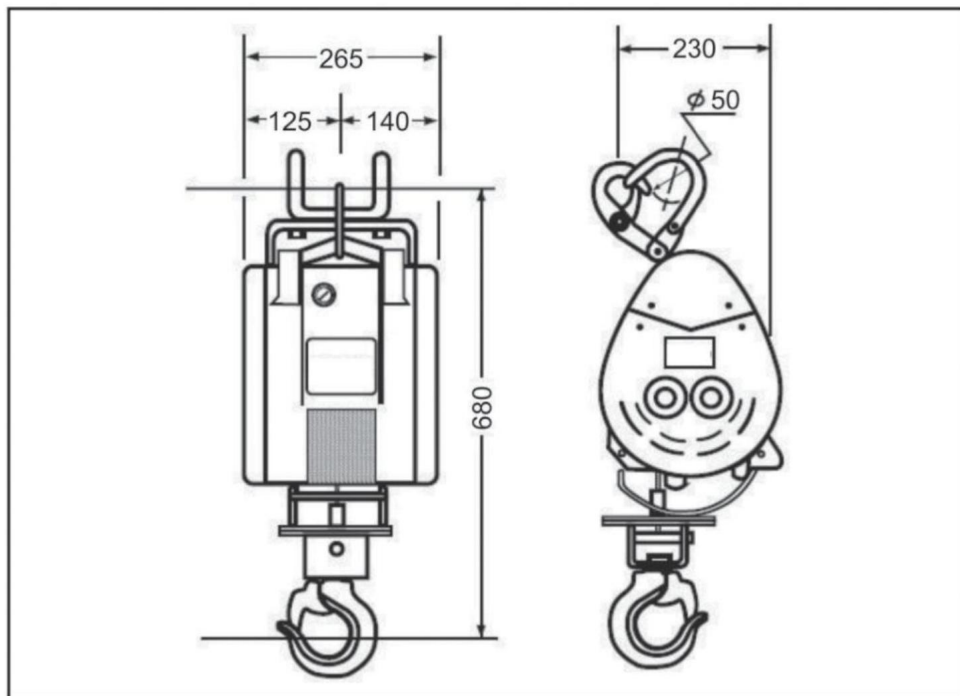
Napięcie znamionowe: , 60Hz, 1800W LUB 220-240V~, 50Hz, 1800W

120 V~ Udźwig: maks. 1100 funtów (500 kg).

Prędkość podnoszenia: 36 stóp/min (11 m/min)

Wysokość podnoszenia: 98 stóp (30 m)

Metody sterowania: przewodowe/bezprzewodowe




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

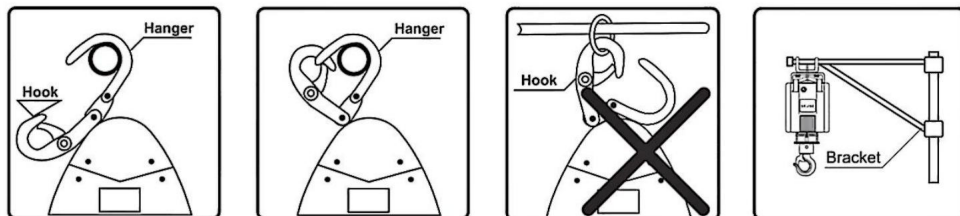
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



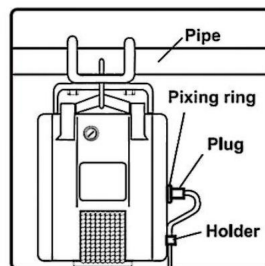
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

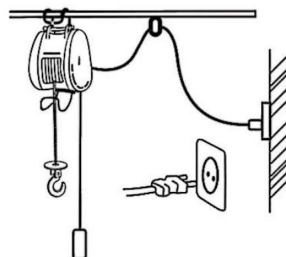
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



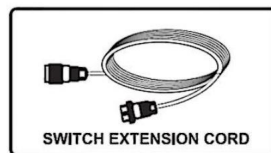
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extention cord (10M).

# 3. WORKING METHODS

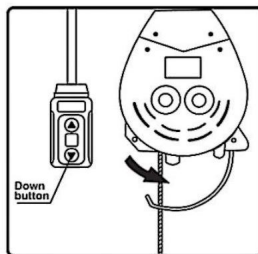
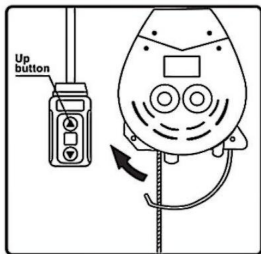
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.



To lower a load, press  $\downarrow$  button and drun will rotate as shown below.



When the button is released, the drum will stop moving

# 4. HANDING PRECAUTION

## 4. 1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.</li> </ul>

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- ※ Winches are not to be used for lifting or lowering people.

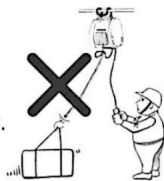
- Don't work, walk or stand under an operating winch.



- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

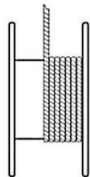


- Never gravitate a load freely.

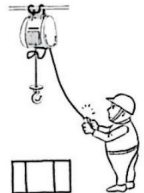


- Always look up when working around winch, there is potential danger overhead.

- ※ Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fall, and after confirming the safety of function.



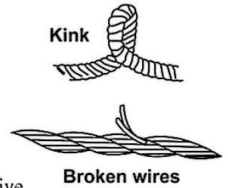
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

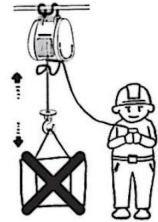


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.

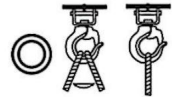


- Never plugging (istant reverse-wind) and inching.



- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



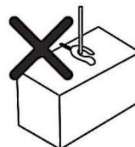
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

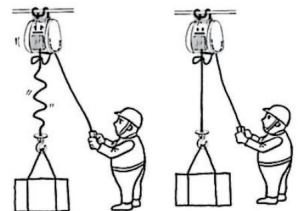
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacned and secured before starting.

- Avoid water splashes on the push button switch.



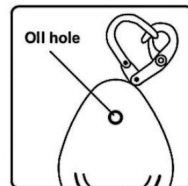
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



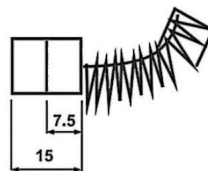
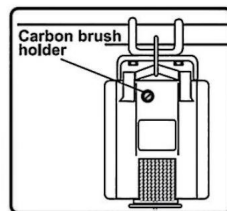
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.



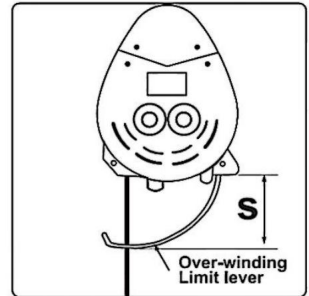
Carbon brush length

## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

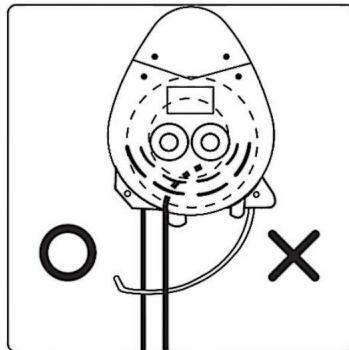
## 5. 4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

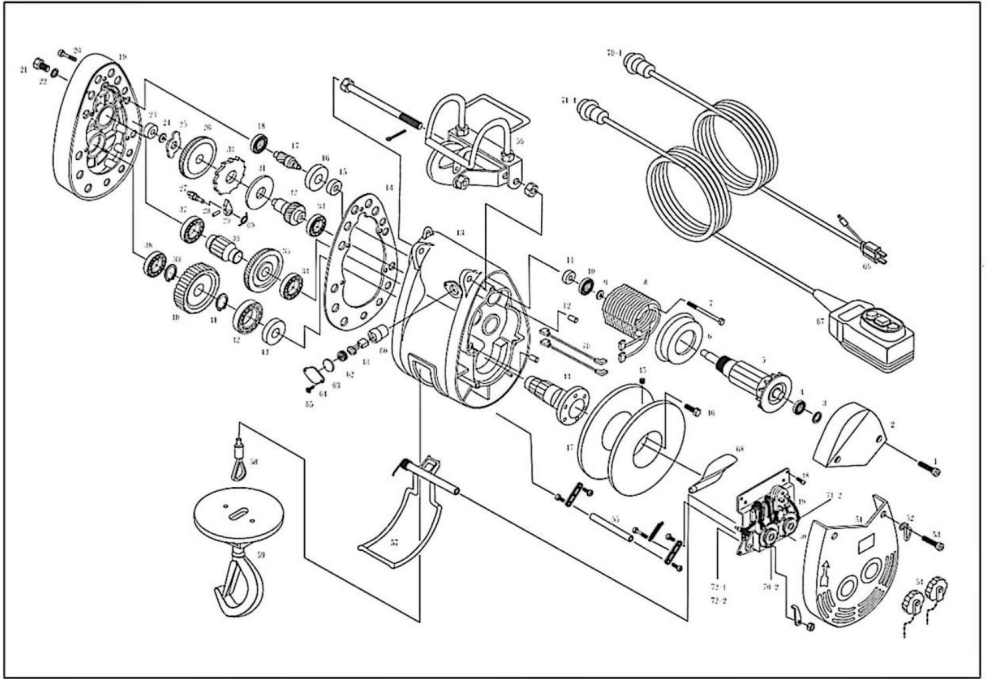


## 5. 5 REVERSE WINDING PREVENTION DEVICE:

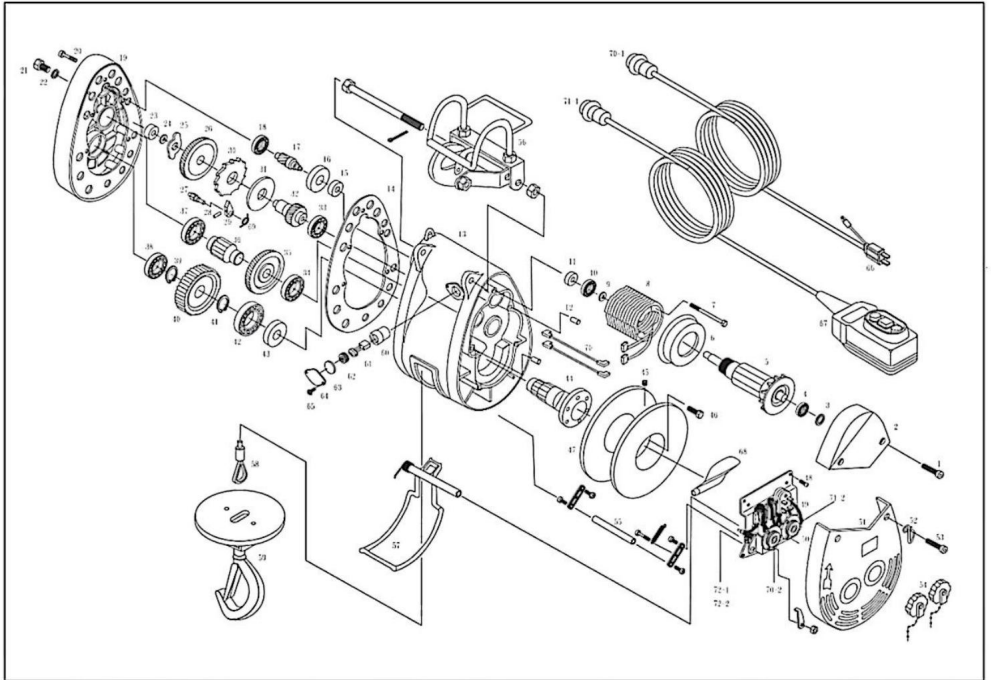
- A special mechanism provonts a over reverse-winding when lowering.
- Whan lawsning, a wire rope is fully extended, the wire rope will be shifted its position form to X.
- When a wire rope thouches the limit lever of over-winding prevention device. Lowing will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



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23	BEARING	1	46	HEX BOLT	6			

## Informacje FCC (FCC ID: 2BCH8-YTK):

UWAGA: Zmiany lub modyfikacje, na które strona nie wyraziła wyrażnej zgody odpowiedzialny za zgodność może unieważnić prawo użytkownika do korzystania z urządzenia sprzęt!

To urządzenie jest zgodne z częścią 15 przepisów FCC. Eksploatacja podlega spełnianiu dwóch warunków:

- 1) Produkt ten może powodować szkodliwe zakłócenia.
- 2) Produkt ten musi akceptować wszelkie odbierane zakłócenia, w tym zakłócenia, może powodować niepożądane działanie.

OSTRZEŻENIE: Zmiany lub modyfikacje tego produktu, które nie zostały wyraźnie zatwierdzone przez stronę odpowiedzialną za zgodność może unieważnić prawo użytkownika do korzystania z urządzenia produktu.

Uwaga: Ten produkt został przetestowany i uznany za zgodny z limitami dla klasy Urządzenie cyfrowe B zgodnie z częścią 15 przepisów FCC. Ograniczenia te mają na celu zapewnić rozsądną ochronę przed szkodliwymi zakłóceniami w budynkach mieszkalnych instalacja.

Ten produkt generuje, wykorzystuje i może emitować energię o częstotliwości radiowej, a jeżeli nie zainstalowany i używany zgodnie z instrukcją, może powodować szkodliwe zakłócenia w komunikacji radiowej. Nie ma jednak gwarancji, że zakłócenia nie wystąpią w konkretnej instalacji. Jeśli ten produkt powoduje szkodliwe zakłócenia w odbiorze radia lub telewizji, które można określić na podstawie wyłączając i włączając produkt, zachęcamy użytkownika do podjęcia próby skorygowania zakłócenia spowodowane przez jeden lub więcej z następujących środków.

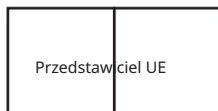
- Zmiana orientacji lub położenia anteny odbiorczej.
- Zwiększ odległość między produktem a odbiornikiem.
- Podłącz produkt do gniazdka w innym obwodzie niż ten, do którego jest podłączony. Odbiornik jest podłączony.
- Aby uzyskać pomoc, należy zwrócić się do sprzedawcy lub doświadczonego technika radiowo-telewizyjnego.

Producent: Shanghaimuxinmuyeyouxiangongsi

Adres: Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, szanghaj  
200000 CN.

Importowane do AUS: SIHAO PTY LTD. 1 ROKEVA STREETEASTWOOD NSW  
2122 Australia

Importowane do USA: Sanven Technology Ltd. Suite 250, 9166 Anaheim Place,  
Rancho Cucamonga, CA 91730



E-CrossStu GmbH

Mainzer Landstr.69, 60329 Frankfurt nad Menem.



YH CONSULTING LIMITED.

C/O YH Consulting Limited Biuro 147, Centurion House,  
London Road, Staines-upon-Thames, Surrey, TW18 4AX

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### **Draagbare elektrische takel**

#### **Gebruiksaanwijzing**

**MODEL:LES-500**

Wij streven er voortdurend naar om u gereedschappen tegen concurrerende prijzen te leveren.

"Save Half", "Half Price" of andere soortgelijke uitdrukkingen die wij gebruiken, geven alleen een schatting van de besparingen die u kunt behalen door bepaalde gereedschappen bij ons te kopen in vergelijking met de grote topmerken en betekent niet noodzakelijkerwijs dat alle categorieën gereedschappen die wij aanbieden, worden gedekt. Wij herinneren u eraan om zorgvuldig te controleren of u daadwerkelijk de helft bespaart in vergelijking met de grote topmerken wanneer u een bestelling bij ons plaatst.

**VEVOR**<sup>®</sup>  
TOUGH TOOLS, HALF PRICE

**Draagbare energie**  
**Elektrische takel**

**MODEL:LES-500**





**HULP NODIG? NEEM CONTACT MET ONS OP!**

Heeft u vragen over het product? Heeft u technische ondersteuning nodig? Neem dan gerust contact met ons op:

**Technische ondersteuning en e-  
garantiecertificaat [www.vevor.com/support](http://www.vevor.com/support)**

Dit is de originele instructie, lees alle handleidingen zorgvuldig door voordat u het product gebruikt. VEVOR behoudt zich een duidelijke interpretatie van onze gebruikershandleiding voor. Het uiterlijk van het product is afhankelijk van het product dat u hebt ontvangen. Vergeef ons dat we u niet opnieuw zullen informeren als er technologie- of software-updates voor ons product zijn.

**BELANGRIJKE VEILIGHEIDSMATREGELEN**

	<p>Waarschuwing - Om het risico op letsel te verminderen, moet de gebruiker de instructies lezen handleiding zorgvuldig door.</p>
	<p>Dit symbool, geplaatst voor een veiligheidsopmerking, geeft een soort voorzorgsmaatregel, waarschuwing of gevaar. Het negeren van deze waarschuwing kan leiden tot een ongeluk. Om het risico op letsel, brand of elektrocutie te verminderen, Volg altijd de onderstaande aanbevelingen.</p>
	<p>Waarschuwing: draag handschoenen wanneer u dit product gebruikt.</p>
	<p>Draag hoofdbescherming</p>
	<p><b>CORRECTE VERWIJDERING</b></p> <p>Dit product is onderworpen aan de bepalingen van de Europese richtlijn 2012/19/EU. Het symbool met een klike-afvalbak doorkruist geeft aan dat het product gescheiden afvalinzameling vereist in de Europese Unie. Dit geldt voor het product en alle accessoires gemarkeerd met dit symbool. Producten die als zodanig gemarkeerd zijn, mogen niet weggegooid met het normale huisvuil, maar moet naar het huishoudelijk afval worden gebracht. een inzamelpunt voor het recyclen van elektrische en elektronische apparaten.</p>



**WAARSCHUWING:** Lees alle veiligheidswaarschuwingen, instructies, illustraties en specificaties die bij deze machine zijn geleverd. Het niet opvolgen van alle vermelde instructies onderstaande instructies kunnen leiden tot een elektrische schok, brand en/of ernstig letsel.

**Basisveiligheidsinformatie**

1. Lees de gebruiksaanwijzing zorgvuldig door voordat u de elektrische takel gebruikt.
2. Om het risico op elektrische schokken of letsel te verkleinen, mag u het apparaat alleen binnenshuis gebruiken.

3. De installatiepositie van de elektrische takel moet op een plaats worden gekozen die voldoet aan de behoeften en is gemakkelijk te bedienen.
4. Controleer regelmatig of de takel stevig vastzit.
5. Overbelast de takel niet en gebruik hem niet als het gewicht van de te tillen last te hoog is. object is niet duidelijk.
6. Gebruik de takel niet met een gedraaide, geknikte of beschadigde staalkabel. Controleer de kabel touw zorgvuldig voor elk gebruik.
7. Tijdens het tillen is het niet toegestaan om zware voorwerpen schuin te trekken of te tillen om Gevaar.
8. Bedien geen beschadigde of defecte takel. Inspecteer de takel zorgvuldig en Test de werking vóór elk gebruik.
9. Til geen mensen op en til geen lasten over mensen heen. Vallende lasten kunnen mensen verwonden of doden.
10. Niemand mag onder het te tillen object staan bij het tillen van het zware object. met de takel.
11. Draag bij het bedienen van de staalkabel dikke handschoenen en laat de staaldraad door uw hand glijden, om uitglijden of steken te voorkomen.
12. Deze elektrische takel mag op geen enkele manier mensen vervoeren of als lift worden gebruikt. hefwerktuig.
13. De bediener mag de elektrische takel niet bedienen onder de volgende omstandigheden: drinken, medicijnen gebruiken of ziek zijn.
14. U mag de onderdelen van de elektrische takel niet naar eigen inzicht wijzigen of lassen.
15. Zorg ervoor dat er bij het hijsen van de takel minimaal 3 rollen staaldraad aan de takel vastzitten. de touwton om te voorkomen dat het staaldraad van de touwton valt door overmatige stress.
16. Controleer voor aanvang van de werkzaamheden of de staalkabel correct is opgerold rond de haspel en dat de spoed gelijk is aan de kabeldiameter.
17. De waarschuwingen, voorzorgsmaatregelen en instructies die in deze instructie worden besproken handleiding kan niet alle mogelijke omstandigheden en situaties dekken die zich kunnen voordoen. Het moet door de exploitant worden begrepen dat gezond verstand en voorzichtigheid factoren zijn die kunnen niet in dit product worden ingebouwd, maar moeten door de exploitant worden meegeleverd.

## **BEWAAR DEZE INSTRUCTIES**



# 1. PRODUCTPARAMETERS

Model: LES-500

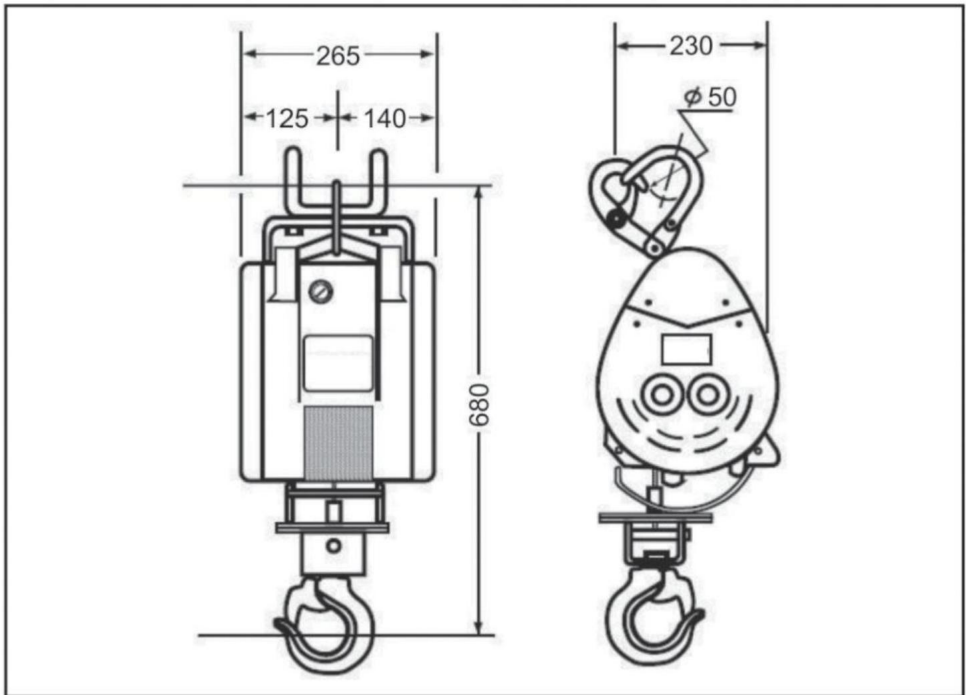
Nominale waarde(n): , 60Hz, 1800W OF 220-240V~, 50Hz, 1800W

120V~ Hefvermogen: 1100 lbs (500 kg) Max.

Hefsnelheid: 36 ft/min (11 m/min)

Hefhoogte: 98Ft (30m)

Besturingsmethoden: bedraad/draadloos




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b + T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

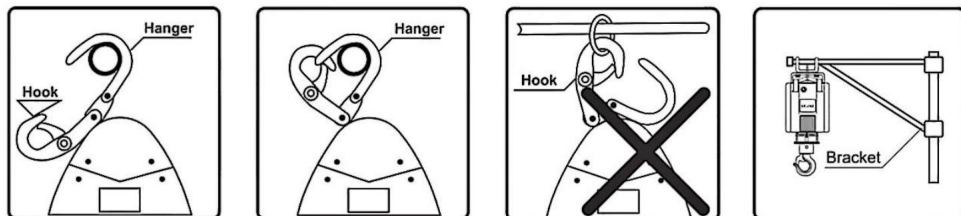
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



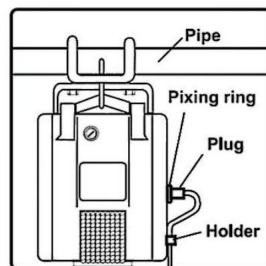
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

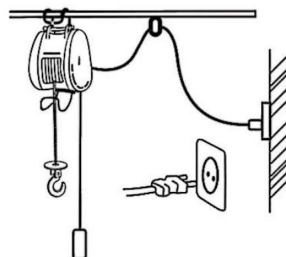
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



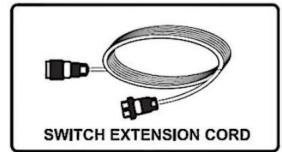
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extention cord (10M).

# 3. WORKING METHODS

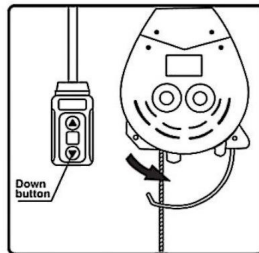
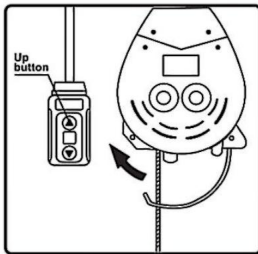
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.

To lower a load, press  $\downarrow$  button and drun will rotate as shown below.



When the button is released, the drum will stop moving

## 4. HANDING PRECAUTION

### 4. 1 ENVIRONMENT PRECAUTION:

#### ⚠ WARNING



• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- ※ Winches are not to be used for lifting or lowering people.

- Don't work, walk or stand under an operating winch.



- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

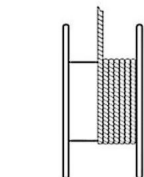


- Never gravitate a load freely.



- Always look up when working around winch, there is potential danger overhead.

- ※ Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fail, and after confirming the safety of function.



- A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.

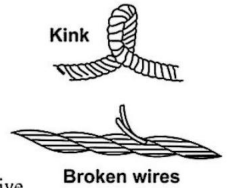
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

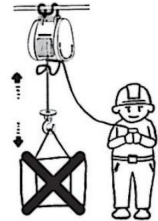


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.



- Never plugging (istant reverse-wind) and inching.

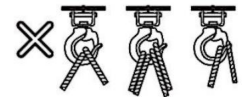


- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



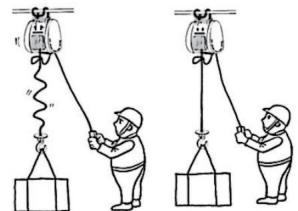
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

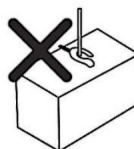
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacnced and secured before starting.

- Avoid water splashes on the push button switch.



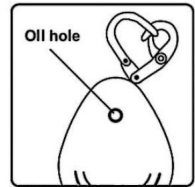
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



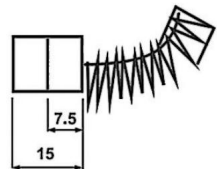
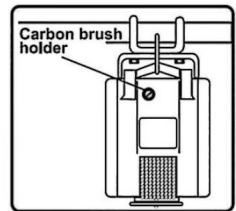
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

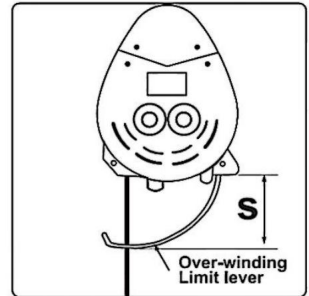


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

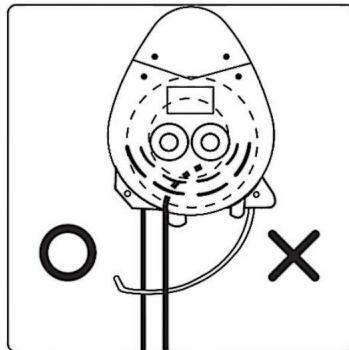
## 5. 4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

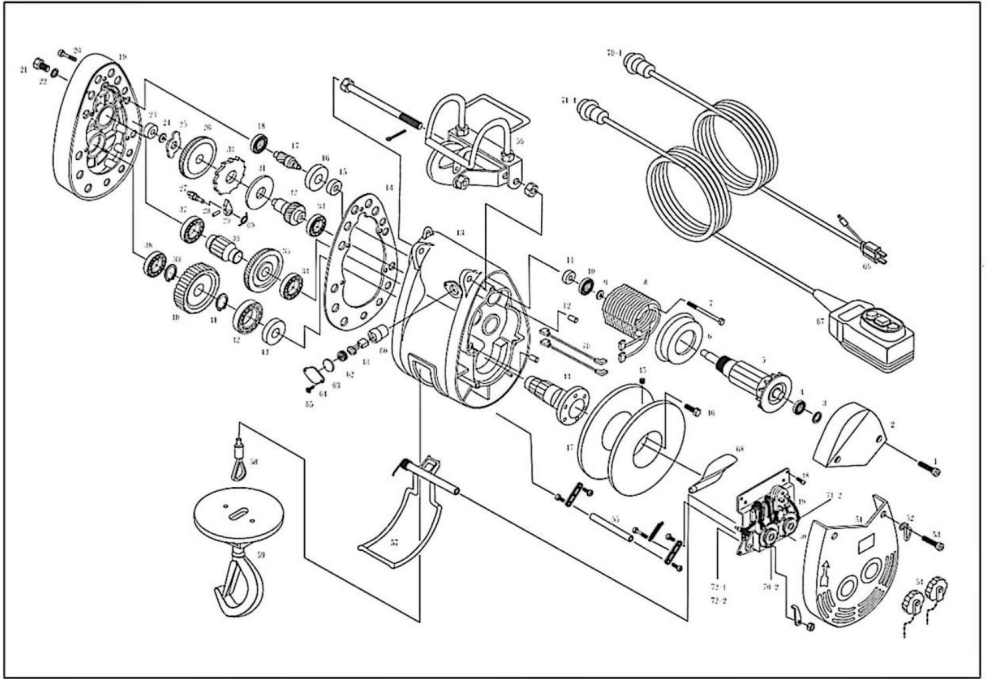


## 5. 5 REVERSE WINDING PREVENTION DEVICE:

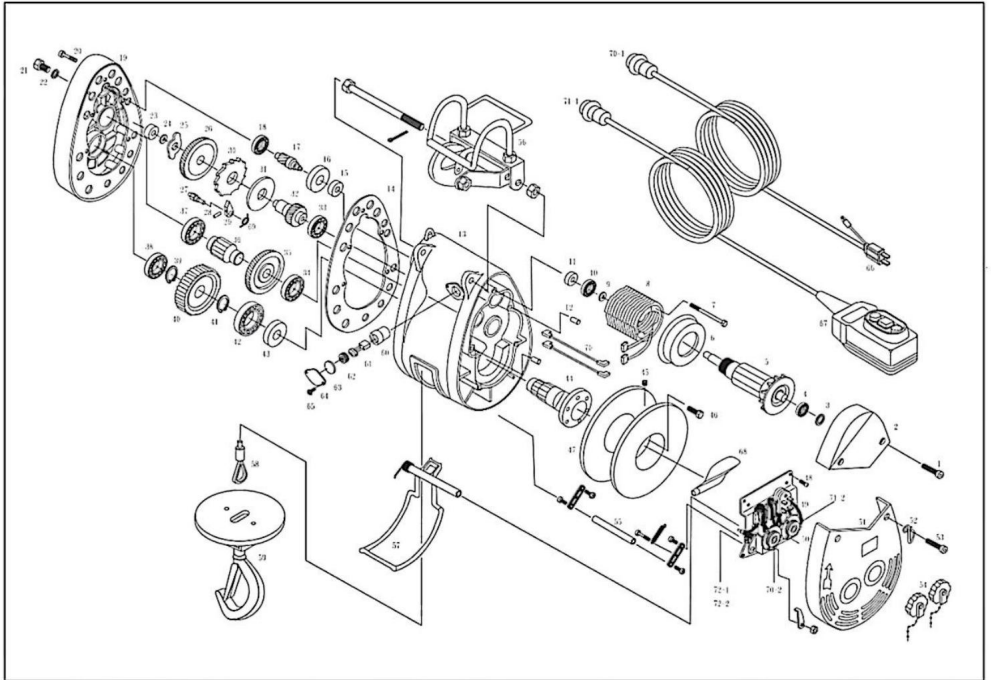
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



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## **FCC-informatie (FCC- ID: 2BCH8-YTK):**

**LET OP:** Wijzigingen of aanpassingen die niet uitdrukkelijk door de partij zijn goedgekeurd verantwoordelijk voor naleving kan de bevoegdheid van de gebruiker om de apparatuur!

Dit apparaat voldoet aan Deel 15 van de FCC-regels. De werking is onderworpen aan de volgende twee voorwaarden:

- 1) Dit product kan schadelijke interferentie veroorzaken.
- 2) Dit product moet alle ontvangen interferentie accepteren, inclusief interferentie die kan een ongewenste werking veroorzaken.

**WAARSCHUWING:** Wijzigingen of aanpassingen aan dit product die niet uitdrukkelijk door ons zijn goedgekeurd. de partij die verantwoordelijk is voor de naleving, kan de bevoegdheid van de gebruiker om de product.

**Let op:** Dit product is getest en voldoet aan de limieten voor een klasse B digitaal apparaat volgens Deel 15 van de FCC-regels. Deze limieten zijn bedoeld om bieden redelijke bescherming tegen schadelijke interferentie in een woonomgeving installatie.

Dit product genereert, gebruikt en kan radiofrequentie-energie uitstralen, en indien niet geïnstalleerd en gebruikt in overeenstemming met de instructies, kan dit schadelijke gevolgen hebben interferentie in radiocommunicatie. Er is echter geen garantie dat interferentie zal niet optreden in een bepaalde installatie. Als dit product wel interferentie veroorzaakt schadelijke interferentie met de radio- of televisieontvangst, die kan worden vastgesteld door Als u het product uit- en weer inschakelt, wordt de gebruiker aangemoedigd om te proberen het probleem te verhelpen. verstoring door een of meer van de volgende maatregelen.

- Heroriënteer of verplaats de ontvangstantenne.
- Vergroot de afstand tussen het product en de ontvanger.
- Sluit het product aan op een stopcontact op een ander circuit dan dat waarop het product is aangesloten. ontvanger is aangesloten.
- Raadpleeg de dealer of een ervaren radio-/tv-technicus voor hulp.

**Fabrikant:** Shanghai muxinmuyeyouxiangongsi

**Adres:** Shuangchenglu 803nong11hao1602A-1609shi, baoshanqu, shanghai  
200000 CN.

**Geïmporteerd naar AUS:** SIHAO PTY LTD. 1 ROKEVA STREET EASTWOOD NSW  
2122 Australië

**Geïmporteerd naar de VS:** Sanven Technology Ltd. Suite 250, 9166 Anaheim  
Place, Rancho Cucamonga, CA 91730



E-CrossStu GmbH  
Mainzer Landstr.69, 60329 Frankfurt am Main.



YH CONSULTING LIMITED.  
C/O YH Consulting Limited Kantoor 147, Centurion House,  
Londen Road, Staines-upon-Thames, Surrey, TW18 4AX

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**Bärbar kraft  
Elektrisk hiss**

**MODELL:LES-500**



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**Teknisk support och e-garanticertifikat**  
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Detta är den ursprungliga instruktionen, läs alla instruktioner noggrant innan du använder den. VEVOR reserverar sig för en tydlig tolkning av vår användarmanual. Utseendet på produkten är beroende av den produkt du fått. Ursäkta oss att vi inte kommer att informera dig igen om det finns någon teknik eller mjukvaruuppdateringar på vår produkt.

## VIKTIGA SÄKERHETSÅTGÄRDER

	<p>Varning - För att minska risken för skada måste användaren läsa instruktionerna handbok noggrant.</p>
	<p>Denna symbol, placerad före en säkerhetskommentar, indikerar ett slags försiktighetsåtgärd, varning eller fara. Att ignorera denna varning kan leda till en olycka. För att minska risken för skada, brand eller elstöt, vänligen följ alltid rekommendationerna nedan.</p>
	<p>Varning- Var noga med att bära handskar när du använder denna produkt.</p>
	<p>Bär huvudskydd</p>
	<p><b>KORREKT AVFALLSHANTERING</b></p> <p>Denna produkt omfattas av bestämmelserna i det europeiska direktivet 2012/19/EU. Symbolen som visar en soptunna på hjul korsad indikerar att produkten kräver separat sophämtning i Europeiska unionen. Detta gäller produkten och alla tillbehör märkt med denna symbol. Produkter märkta som sådana kanske inte är det kasseras med vanligt hushållsavfall, men måste tas till en samlingsplats för återvinning av elektriska och elektroniska apparater.</p>



**VARNING:** Läs alla säkerhetsvarningar, instruktioner, illustrationer och specifikationer som medföljer denna maskin. Underlåtenhet att följa alla instruktioner som anges nedan kan resultera i elektriska stötar, brand och/eller allvarliga skador.

### Grundläggande säkerhetsinformation

1. Läs bruksanvisningen noggrant innan du använder den elektriska hissen.
2. För att minska risken för elektriska stötar eller skador, använd endast inomhus.

3. Installationspositionen för den elektriska lyftanordningen måste väljas på en plats som uppfyller behoven och är bekväm att använda.
4. Kontrollera regelbundet om lyften är ordentligt installerad.
5. Vänligen överbelasta inte och använd inte hissen när vikten av lyften objektet är inte klart.
6. Använd inte hissen med vriden, krökt eller skadad vajer. Inspektera tråden lina försiktigt före varje användning.
7. Under lyft är det inte tillåtet att dra eller lyfta tunga föremål i en vinkel för att undvika fara.
8. Använd inte en skadad eller felaktig lyftanordning. Inspektera lyften noggrant och testa driften före varje användning.
9. Lyft inte människor eller lyft laster över människor. Fallande last kan skada eller döda människor.
10. Ingen får stå under lyftobjektet när det tunga föremålet lyfts med hissen.
11. Bär förtjockade handskar när du använder ställinan och låt inte ställina glider genom din hand för att undvika att halka eller sticka.
12. Denna elektriska hiss får inte transportera människor på något sätt eller användas som hiss lyftverktyg.
13. Operatören bör inte manövrera den elektriska hissen under tillstånd av dricker, tar medicin eller är sjuk.
14. Modifiera eller svetsa inte delar av den elektriska lyftanordningen efter behag.
15. När du lyfter lyften, se till att minst 3 rullar av ställinor hålls kvar på reppipan för att förhindra att ställinan faller av reppipan pga överdriven stress.
16. Innan arbetet påbörjas, se till att stålvejern är korrekt lindad runt rullen och att stigningen är lika med kabeldiametern.
17. Varningarna, försiktighetsåtgärderna och instruktionerna som diskuteras i denna instruktion manualen kan inte täcka alla möjliga förhållanden och situationer som kan uppstå. Det måste det förstås av operatören att sunt förnuft och försiktighet är faktorer som kan inte byggas in i denna produkt, utan måste tillhandahållas av operatören.

## **SPARA DESSA INSTRUKTIONER**



# 1.PRODUKTPARAMETRAR

Modell: LES-500

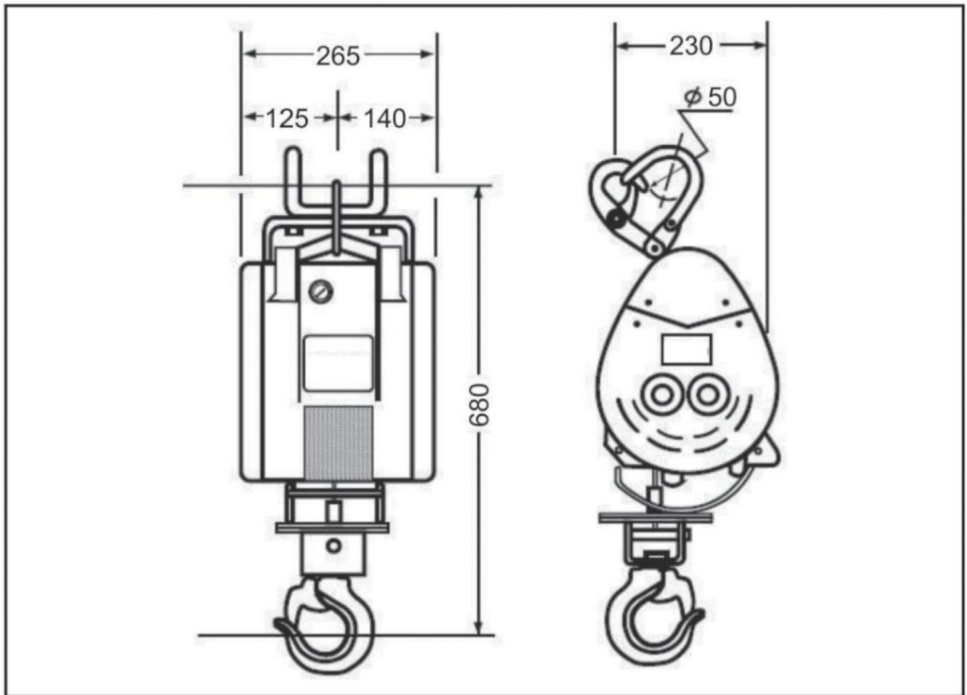
Märk(er): 120V~ , 60Hz ,1800W ELLER 220-240V~, 50Hz, 1800W

Lyftkapacitet: 1100Lbs(500kg) Max.

Lyfthastighet: 36 fot/min (11 m/min)

Lyfthöjd: 98 fot (30 m)

Kontrollmetoder: Trådlöst/trådlöst




- Lightweight & compact desing allow mounting convenient.
- When rope touches the limit arm, hoisting is automatically stopped.
- A sensor arm stops the motor when the rope is reverse winding.
- Dynamic brake designs for both static and dynamic loading.
- It operates on household power source.
- Plug-in cords allow portability with easy.
- 360° universal joint saddle hook with safety latch.

Mini winch with built-in safety

devices feature easy control of lifting for a wide range of applicability for warehouse, storage areas, factories, house areas, conatruction sites, job sites and plumbing.

## 2. INSTALLMENT PRECAUTION

### 2.1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>The following environmental conditions may result in the possible causes of winch trouble.</li> </ul>

- Low temperature below -10°C or high temperature above 40°C or humidly above 90% conditions.



- In a organic chemistry of explosive power conditions



※Cause explosion

- In heavy acid or salty conditions

※Cause malfunction of spare part

- In the rain or snow

※Cause rust or short circuit





- In a heavy general powder conditions

※Cause maifunction of performances



### 2.2 CONTINUOUS RATING:

 <b>PRECAUTION</b>	
	<ul style="list-style-type: none"> <li>Never hois over the rated percentage duty cycle</li> </ul>

The life of the winch is depending on the conditions of the load and working frequency.

In the long time operation, make sure to use the machine within its continuous ratings.

Continuous ratings means the working duty cycle(%ED)is subject to the eated voltage rated frequency and a 63% of rated load.

$$\text{Percentage duty cycle (\%ED)} = \frac{T_b}{T_b+T_s} \times 100(\%)$$

T<sub>b</sub>: total sum of overall loading operating hours

T<sub>s</sub>: total sum of stopping hours

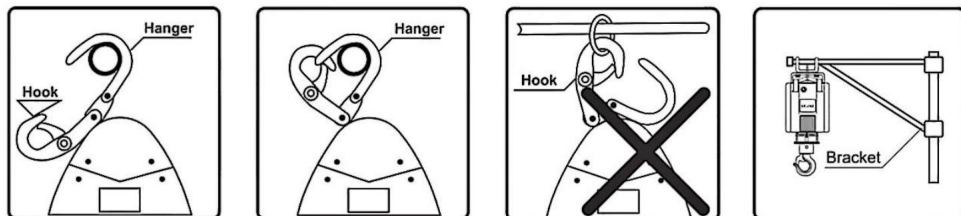
T<sub>b</sub>+T<sub>s</sub> = approximately 1 to 10 min

The maximun of starts of the machine means the ummber of starts of motor per 1 working hour including the pause hours of winch which is value of number working times added with the number of inching.

## 2.3 MOUNTING:

The winch designed to be hanged or mounted on a firm or stable bar or a bracket. When hanging, do not allow the body or load to be caught by any construction of frame, or other obstruction.

Be sure to lock the hanger for extra safety.



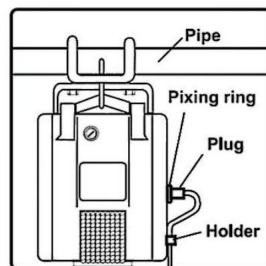
## 2.4 PLUG INSERTION:

### 2.4(a) Power core insertion:

Insert the power plug into the power receptacle of the winch, and tighten it by turning the locking ring, clockwise.

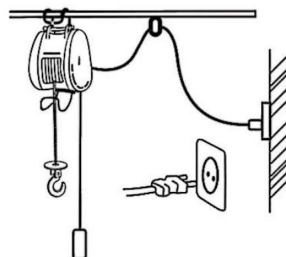
Be sure to lock the cord by a holder, Do not allow the cords to be caught by wire rope and drum.

The length of power cord is subject to the distance of 20 meter, for any other case, please use a power cable by 3.5mm<sup>2</sup> to prevent a considerable voltage drop to be happened.



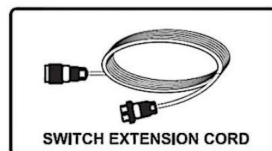
The selection of power cord section

Section	Cord Length
2.0mm <sup>2</sup>	20m
3.5mm <sup>2</sup>	35m



## 2. 4 (b) Grounding:

To prevent the risk of electric shock, the power plug must be plugged into a matching outlet and grounded in good condition.



## 2. 4 (c) Switch cord connection:

- (1) Insert the switch plug into the switch receptacle of the winch and tighten it by turning the locking ring clockwise.  
Be sure to hook the cord by a holder.
- (2) To extend the length of to switch cord, please adopt a switch extention cord (10M).

# 3. WORKING METHODS

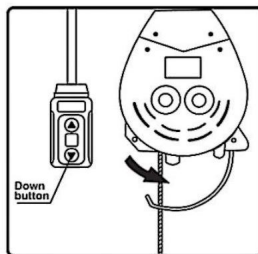
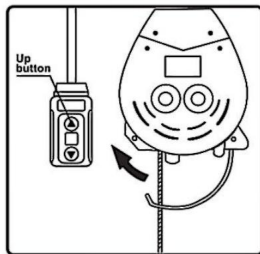
## 3. 1 PREPARATION BEFORE WORKING:

- Be sure to carefully check all safety and environmental conditions.
- A minimum of five (5) wraps of wire rope wound around the drum is necessary.  
A wire rope should be discarded and not be used again if rope shows sign of excessive wear too many broken wires. Corrosion or other defects.
- Make sure to connect the main power source and grounding.
- It's not safe to lift loads exceeding the rated load.
- Connect power source at rated voltage.  
(It will cause maladjusted working if input voltage falls out of rated voltage by  $\pm 10\%$ )

## 3. 2 UP AND DOWN SWITCHING:

To lift a load, press  $\uparrow$  button and drum will rotate as shown below operation.



To lower a load, press  $\downarrow$  button and drun will rotate as shown below.



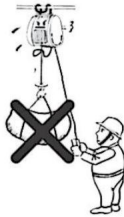
When the button is released, the drum will stop moving

# 4. HANDING PRECAUTION

## 4. 1 ENVIRONMENT PRECAUTION:

 <b>WARNING</b>	
	<ul style="list-style-type: none"> <li>• Pay best attention to the following instruction. Obvious mistakes in operation may result in personal injury or equipment damage.</li> </ul>

- Never try to lift a load more than the rated cap.



- Never hitch a ride on the hook, sling or load being moving.



- ※ Winches are not to be used for lifting or lowering people.

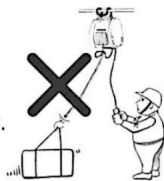
- Don't work, walk or stand under an operating winch.



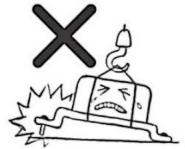
- Always remain in control, Never neglect the winch while actually hoisting a load.



- While working, never stand under a lifting load or within the conveying area.

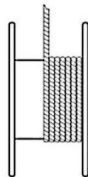


- Never gravitate a load freely.

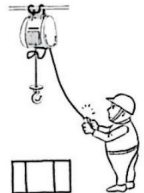


- Always look up when working around winch, there is potential danger overhead.

- ※ Be sure to lift a load vertically. Slack may allow wires to be caught in the drum.



- Prior to starting of use, carry out the daily checking without fail, and after confirming the safety of function.



- A minimum of five (5) wraps of rope around the drum is necessary to support the load rated.

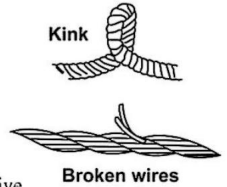
- If having a counter rotation incurred, make sure to correct its turning direction.

- Prior to lifting. Make sure to have a precise performance of brake. If any malfunction of brake happened, stop the operation immediately.

- When load suspended in air, it will not allow to be welding.
- Never weld a load while actually lifting a load.



- Wire rope with one or more of the following defects shall be removed or replaced immediately.
  - (1) kink
  - (2) distortion
  - (3) corrosion
  - (4) showing signs of excessive wear or of having broken wires not less than 10 pcs.

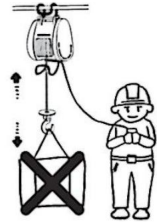


- Stop the operation if there is any queer noise or vibration in the gear box to be happeded.
- Do not connect the wire rope with the grounding of welding machine.
- While welding, do not have any contact with the welding objects because of having spark.

- Do not pull the switch cord to move a load.
- Do not over continuous ratings.

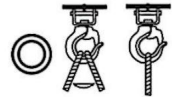


- Never plugging (istant reverse-wind) and inching.

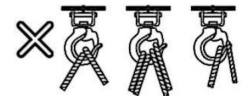


- In order to prevent the layer down due to over loosening of rope, irregular winding, etc., operate according to the suitable operating method.

- Use a winch by fixing so securely that the rope around the drum is uneven.



- Be sure to fix a rope in the center of swivel hook.



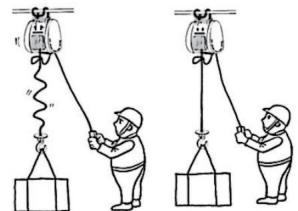
- Be sure to stop operation immediately when the wire rope become fully slackened.

- Avoid catching the hook or lifting a load on a fixed obstruction.

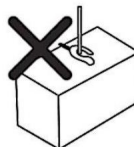
- Always leave the push button switch positioned immediately after use.

- Make sure that the load being lifting are well balacned and secured before starting.

- Avoid water splashes on the push button switch.



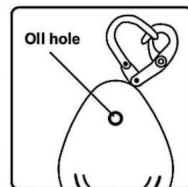
- Never wrap the load with the wire rope.





## 5.1 OIL LUBRICATION:

Winch are prefabricated at the factory and do not require initial lubrication. Relubrication interval depends upon service. Recommended oil replenishment quantity & intervals are as follows.



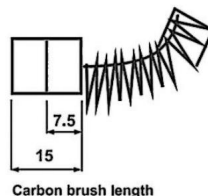
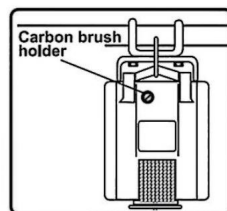
## 5.2 CARBON BRUSH REPLACEMENT:

### WARNING



- Clean the accumulated powder of carbon brush periodically to ascertain the insulation resistance up to  $1M\Omega$ .

- It is essential to check the carbon brush periodically. If its length is left less than 7.5mm resulting from wearing, it is absolute necessary to replace carbon brush immediately.
- While replacing, smoothly insert carbon brush into carbon holder in the first place, then put brush cap into the hole.
- Before tightening the carbon brush holder, make sure to position 0 ring.
- A set of carbon brush consists 2 piece of carbon brush. Ascertain to replace 2 pcs of carbon brush on opposite sides of winch body at the same time.

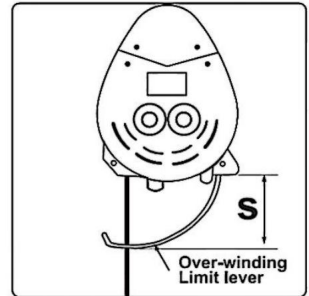


## 5.3 BRAKING:

- Braking device are composed of a mechanic brake and a electronic generated brake. The brake distance from the time of braking until stopping completely should be within 1.5% of rope length to the wound in during 1 minute.
- Owing to the rope speed on no load is faster than that on rated load, the brake distane on no load will be longer, but still within 1.5% of rope length.
- The rope speed on no load is 1.5-1.8 times of rated speed on rated load.

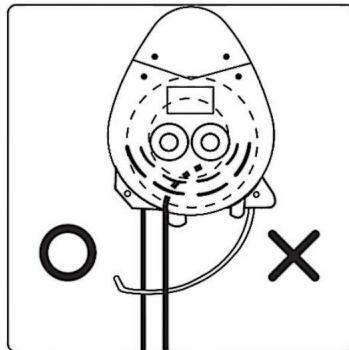
## 5.4 OVER-WINDING LIFT PREVENTION DEVICE:

- A special mechanism prevents a over-winding when lifting.
- When the swivel hook touches the limit lever. Lifting is automatically stopped.
- However, if the limit lever is set too close to the winch body, it will cause serious damage to the limit lever and the winch body.

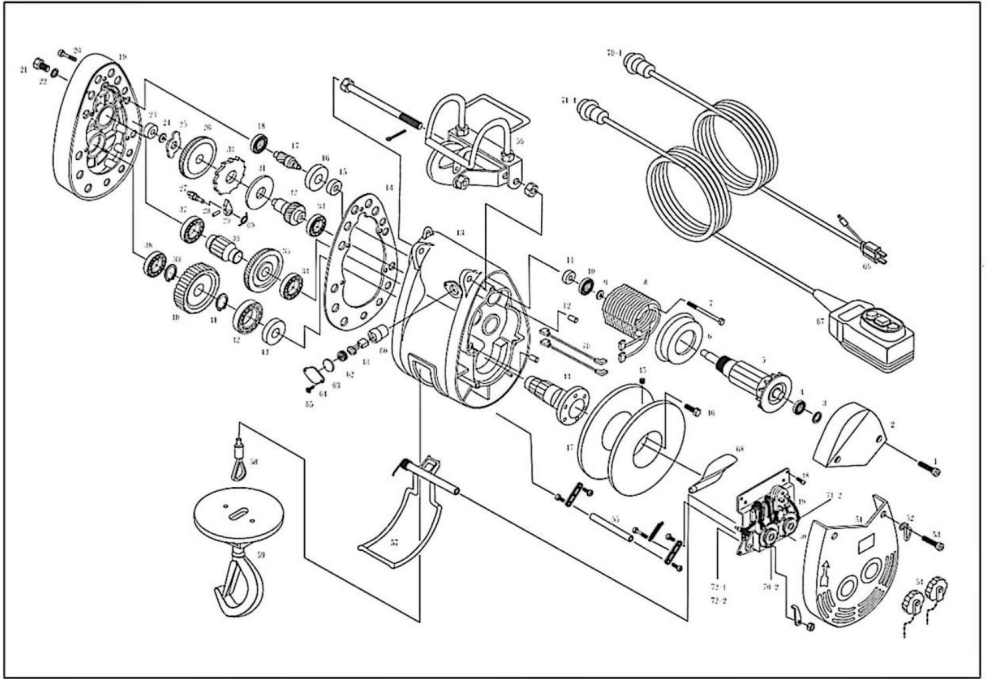


## 5.5 REVERSE WINDING PREVENTION DEVICE:

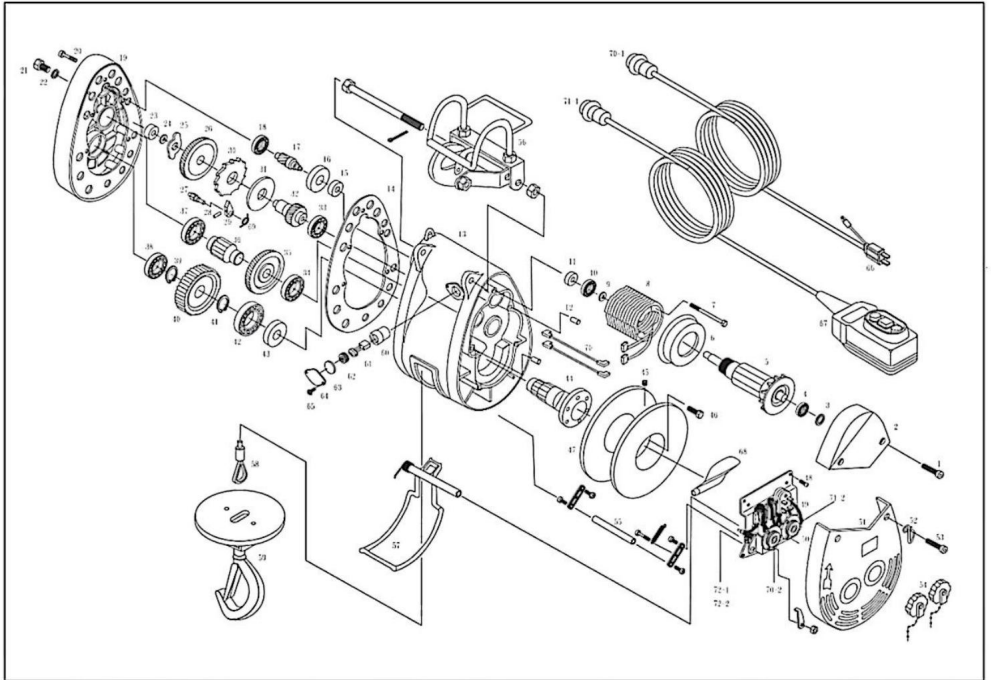
- A special mechanism prevents a over reverse-winding when lowering.
- When lowering, a wire rope is fully extended, the wire rope will be shifted its position from 0 to X.
- When a wire rope touches the limit lever of over-winding prevention device. Lowering will be automatically stopped.
- When the wire rope is shifted to the position of X. Pull it and press the ↑ button to return its position to 0.







NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
2	MOTORCOVER	1	25	1/2CIRCLE-KEY	1	48	SCREW	4
3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
16	1ST GEAR	1	39	C RING	1	62	BRUSH CAP	2
17	2ND SHAFT	1	40	4TH GEAR	1	63	O RING	2
18	BEARING	1	41	C RING	1	64	BRUSH COVER	2
19	GEAR CASE COVER	1	42	BEARING	1	65	SCREW	4
20	HEX BOLT	7	43	OIL RING	1	66	POWER CORD ASSY	1
21	HEX BOLT	1	44	OUTPUTSHAFT	1	67	BUTTON CORD ASSY	1
22	O RING	1	45	P.T.SCREW	1	68	ROPE STOPPER	1
23	BEARING	1	46	HEX BOLT	6			



NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEX BOLT	3	24	BUST	1	47	DRUM	1
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3	WASHER	1	26	2ND GEAR	1	49	CONTROL ASS'Y	1
4	BEARING	1	27	SET BOLT	1	50	PLASTIC PACKING	1
5	ROTOR+1ST PIONIN	1	28	SPRING	1	51	ELECTRIC COVER	1
6	FAN COVER	1	29	PAWL	1	52	RING	1
7	HEX-BOLT	2	30	RATCHET	1	53	HEX BOLT	4
8	FIELD COIL ASSY	1	31	BRAKE-DISK	1	54	CONNECTORS CAP	2
9	C RING	1	32	3RD SHAFT	1	55	DOWN LIMIT ARM ASSY	1
10	BEARING	1	33	BEARING	1	56	SUPSPENSION HOOK ASSY	1
11	OIL RING	1	34	BEARING	1	57	UP LIMIT ARM ASSY	1
12	KNOB PIN	2	35	3RD GEAR	1	58	WIRE ROPE ASSY	1
13	GEAR CASE	1	36	4TH SHAFT	1	59	SWIVEL HOOK	2
14	PACKING	1	37	BEARING	1	60	CARBON HOLDER	2
15	BEARING	1	38	BEARING	1	61	CARBON BRUSH	2
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23	BEARING	1	46	HEX BOLT	6			

## **FCC-information (FCC ID:2BCH8-YTK):**

**WARNING:** Ändringar eller modifieringar som inte uttryckligen godkänts av parten ansvarig för efterlevnad kan ogiltigförklara användarens behörighet att använda utrustning!

Denna enhet uppfyller del 15 av FCC-reglerna. Driften är föremål för följande två villkor:

- 1) Denna produkt kan orsaka skadliga störningar.
- 2) Denna produkt måste acceptera alla mottagna störningar, inklusive störningar som kan orsaka oönskad funktion.

**WARNING:** Ändringar eller modifieringar av denna produkt som inte uttryckligen godkänts av den part som är ansvarig för efterlevnaden kan ogiltigförklara användarens behörighet att använda produkt.

**Obs:** Denna produkt har testats och befunnits överensstämma med gränserna för en klass B digital enhet i enlighet med del 15 av FCC-reglerna. Dessa gränser är utformade för att tillhandahålla rimligt skydd mot skadliga störningar i ett boende installation.

Denna produkt genererar, använder och kan utstråla radiofrekvensenergi, och om inte installeras och används i enlighet med instruktionerna, kan det orsaka skadligt störningar i radiokommunikation. Det finns dock ingen garanti för det störningar kommer inte att inträffa i en viss installation. Om denna produkt orsakar skadliga störningar på radio- eller tv-mottagning, som kan fastställas av stänger av och sätter på produkten, uppmanas användaren att försöka korrigera störning av en eller flera av följande åtgärder.

- Rikta om eller flytta mottagningsantennen.
- Öka avståndet mellan produkten och mottagaren.
- Anslut produkten till ett uttag på en annan krets än den till vilken mottagaren är ansluten.
- Kontakta återförsäljaren eller en erfaren radio/TV-tekniker för hjälp.

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