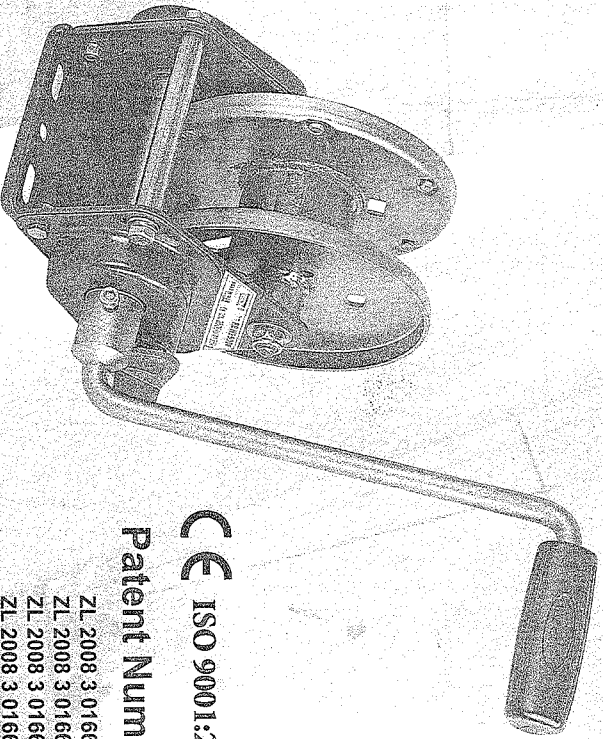


# ROCK<sup>®</sup>

# ROCK HAND WINCH

ASSEMBLY AND OPERATING  
INSTRUCTION  
AUTO BRAKE



CE ISO 9001:2008

### Patent Number

- ZL 2008 3 0166141.6
- ZL 2008 3 0166142.0
- ZL 2008 3 0166399.6
- ZL 2008 3 0166400.5
- ZL 2010 2 9180002.8
- ZL 2010 2 9180028.2
- ZL 2010 2 9180031.4
- ZL 2010 2 0605524.2
- ZL 2011 2 0244158.5

To prevent serious injury, read and understand all warnings and instructions before use. The technical data must be followed.

Due to continuing improvement, the actual product may differ slightly from what is described herein.

ROCK-IM02A

# Contents

<b>HAND WINCH MODEL</b> .....	1
(RBW1000/RBW1200/RBW1500) .....	1
(RBW2000/RBW2500) .....	2
(RBW3500) .....	3
(RBW1000F/RBW1200F/RBW1500F) .....	4
(RBW2000F/RBW2500F) .....	5
(RBW3500F) .....	6
(RWS2000) .....	7
<b>ACCESSORIES FOR HAND WINCH</b> .....	8
(RWC1200/RSS2000) .....	8
<b>SAFETY WARNING AND PRECAUTION</b> .....	9
<b>SPECIAL WARNINGS AND PRECAUTIONS</b> .....	9
<b>ASSEMBLY</b> .....	11
<b>OPERATION</b> .....	13
	17

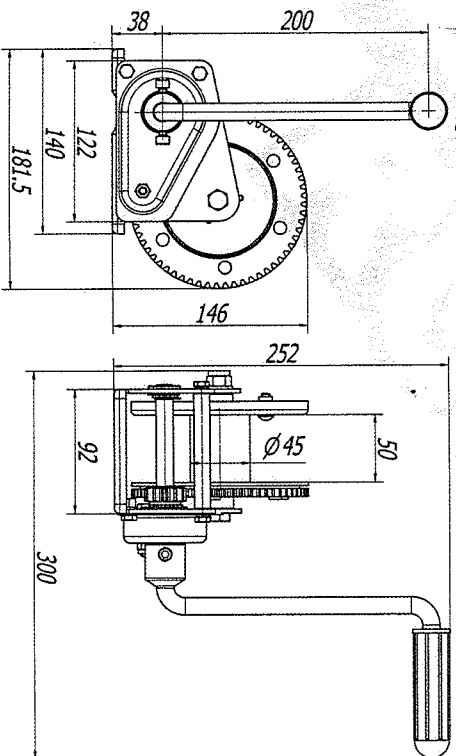
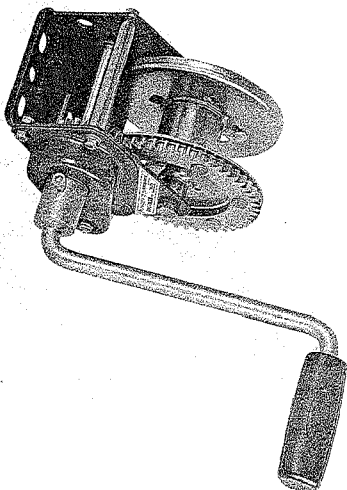
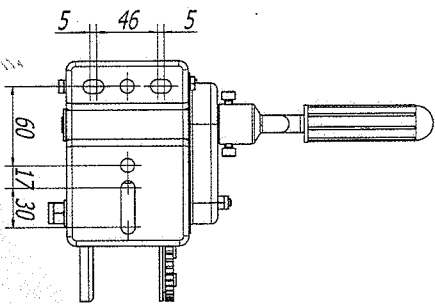
## FIELD OF APPLICATION

Auto Brake winches are suitable for lifting, raising, and pulling of various loads without jerking and are mainly used as a trailer winch.

It is not tested for building hoists.  
 It is not suitable for continuous operation.  
 It is not approved for stages and studios.  
 It is not approved for lifting persons.  
 It is not approved for motor-driven operation.

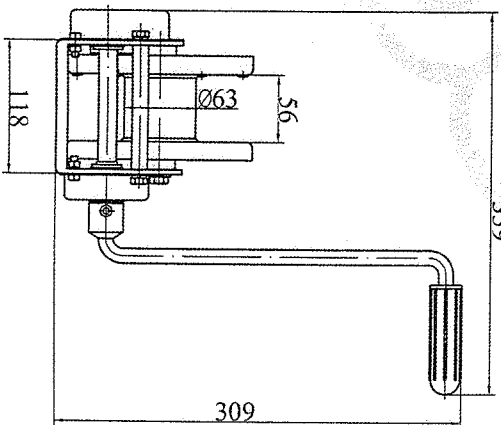
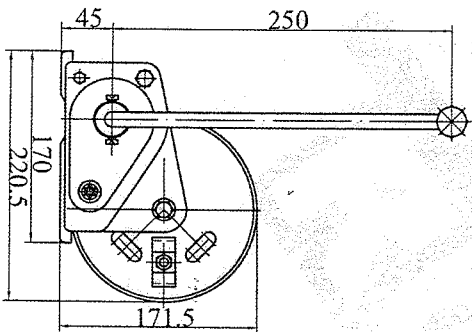
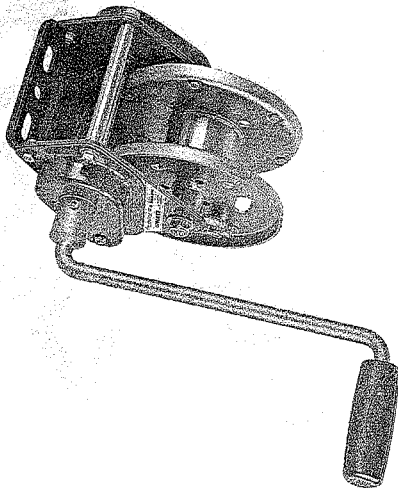
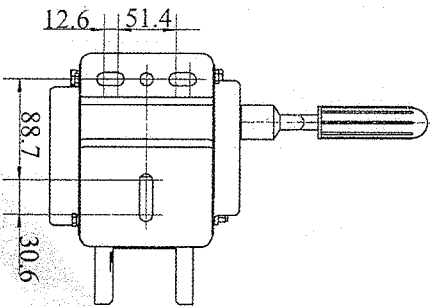
## Model:RBW1000/RBW1200/RBW1500

Model	Capacity Kgs lbs	Gear ratio	Drum capacity cable feet	Handle force(N)	M.W. (kgs)
RBW1000	454 1000	3.5:1	ø4,76mm×15m 1x50mm×6m	<160	3.1
RBW1200	545 1200	4.3:1	ø4,76mm×15m 1x50mm×6m	<180	3.3
RBW1500	681 1500	5.1:1	ø4,76mm×15m 1x50mm×6m	<200	3.4



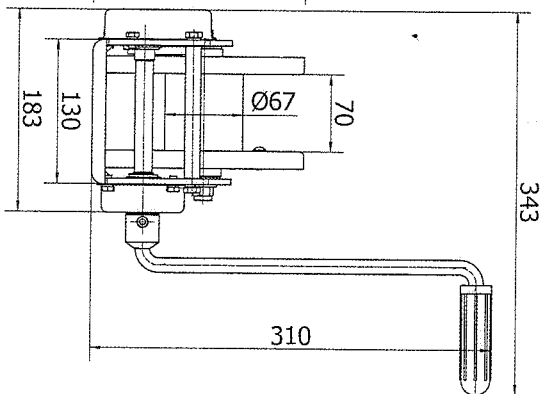
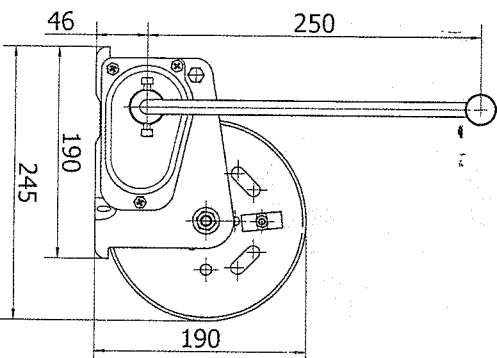
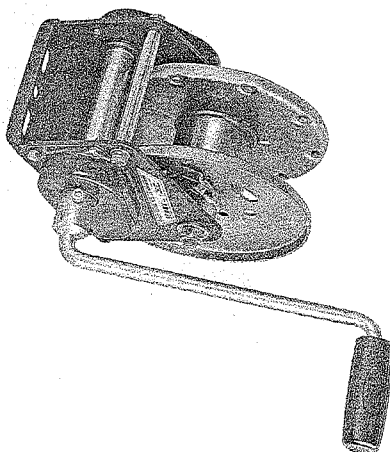
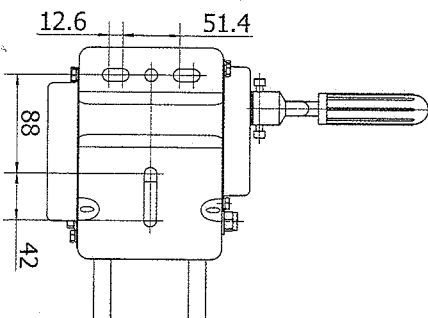
**Model: RBW2000/RBW2500**

Model	Capacity Kgs lbs	Gear ratio	Drum capacity cable belt	Handle force(N)	N.W. (kgs)
RBW2000	908 2000	8.8:1	ø6.35mm×15m 1.2×60mm×6m	<200	6.8
RBW2500	1135 2500	11:1	ø6.35mm×15m 1.2×60mm×6.5m	<200	6.9



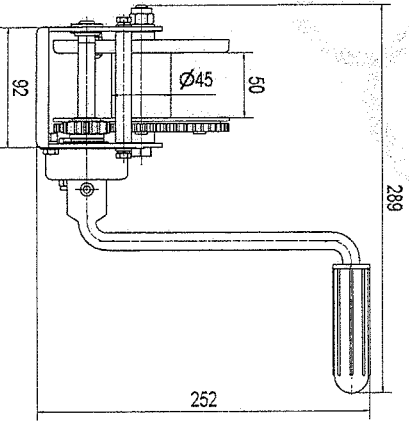
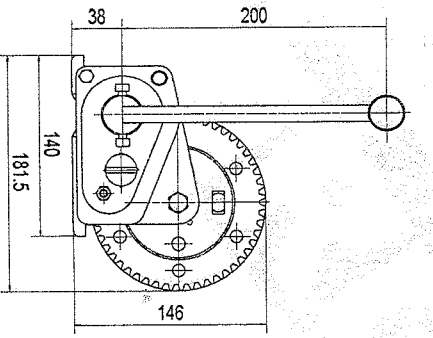
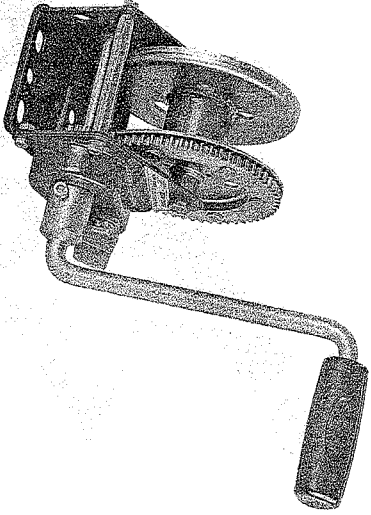
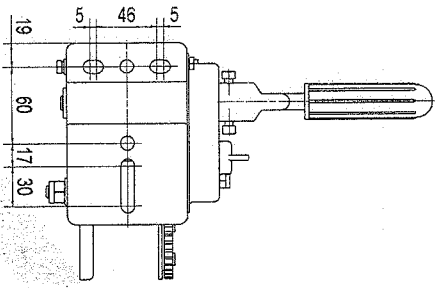
**Model: RBW3500**

Model	Capacity Kgs lbs	Gear ratio	Drum capacity cable belt	Handle force(N)	N.W. (kgs)
RBW3500	1588 3500	18.4:1	ø7mm×15m 1.2×60mm×6.5m	<200	8.15



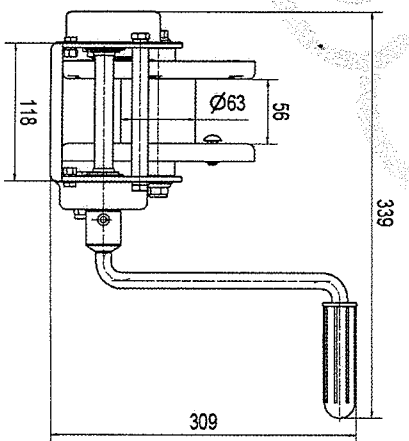
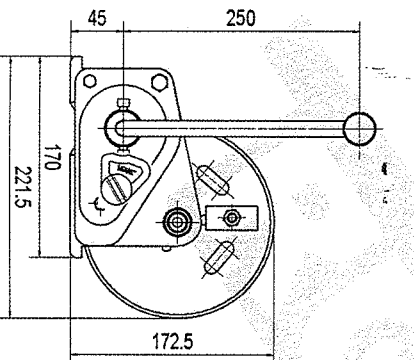
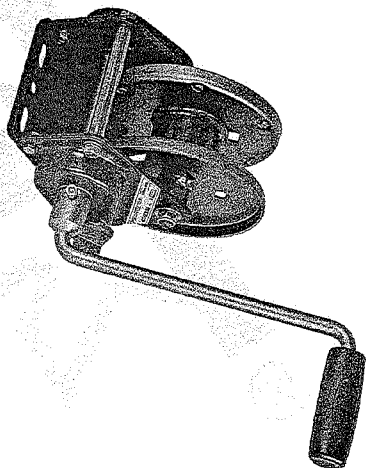
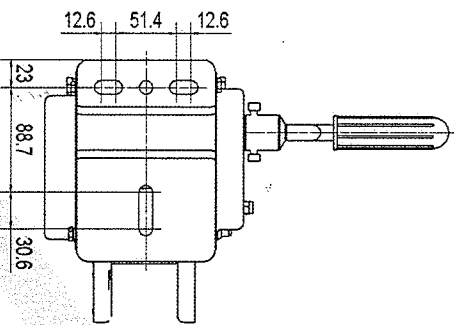
**Model: RBW1000F/RBW1200F/RBW1300F/RBW1500F**  
Free Spooling

Model	Capacity kgs lbs	Gear ratio	Drum capacity cable belt	Handle force(N)	N.W. (kgs)
RBW1000F	454 1000	3.5:1	ø4.76mm×15m 1×50mm×4.5m	<160	3.1
RBW1200F	545 1200	4.3:1	ø4.76mm×15m 1×50mm×4.5m	<160	3.4
RBW1300F	590 1300	5.1:1	ø4.76mm×15m 1×50mm×4.5m	<200	3.4
RBW1500F	681 1500	5.1:1	ø4.76mm×15m 1×50mm×4.5m	<200	3.4



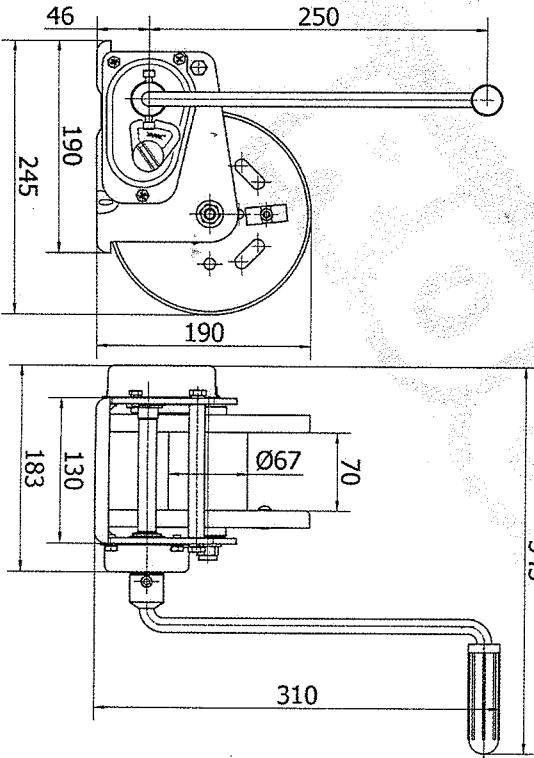
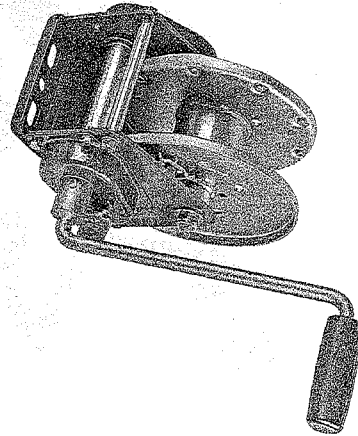
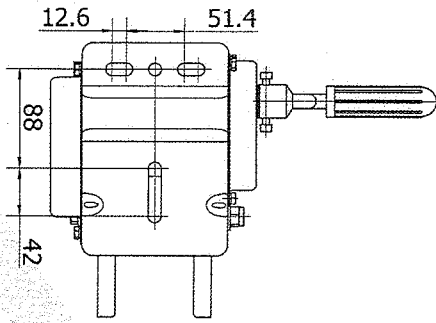
**Model: RBW2000F/RBW2500F**  
Free Spooling

Model	Capacity kgs lbs	Gear ratio	Drum capacity cable belt	Handle force(N)	N.W. (kgs)
RBW2000F	908 2000	8.8:1	ø6.35mm×15m 1.2×50mm×8m	<200	6.8
RBW2500F	1135 2500	11:1	ø6.35mm×15m 1.2×50mm×8m	<200	6.9



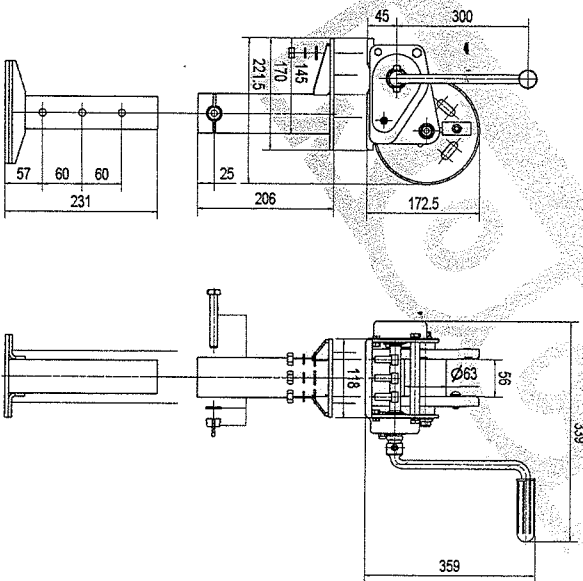
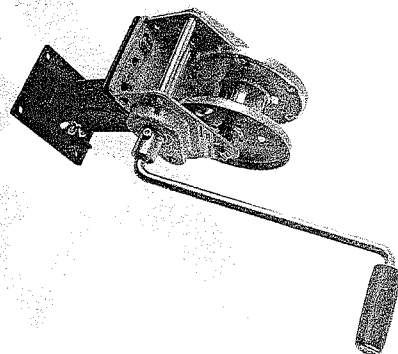
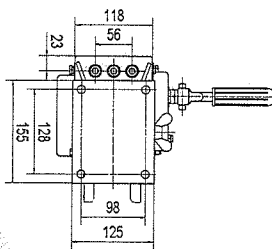
**Model: RBW3500F**  
Free Spooling

Model	Capacity kgs lbs	Gear ratio	Drum capacity cable bolt	Handle force(N)	N.W. (kgs)
RBW3500F	1588 3500	18.4:1	ø7mm×15m 1.2×60mm×6.5m	<200	8.15



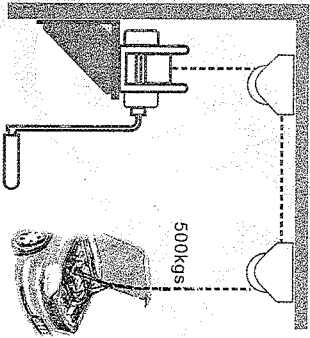
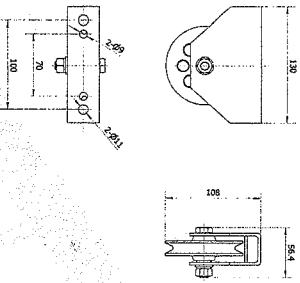
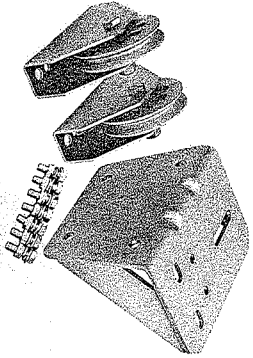
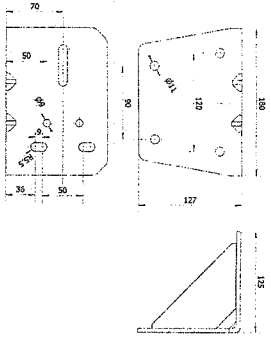
**Model: RWS2000**  
Three Height Settings

Model	Capacity kgs lbs	Gear ratio	Drum capacity cable bolt	Handle force(N)	N.W. (kgs)
RWS2000	908 2000	8.8:1	ø6.35mm×15m 1.2×50mm×8m	<200	6.8



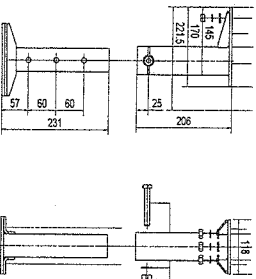
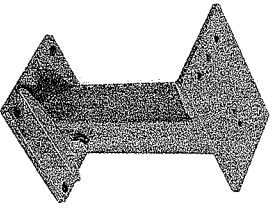
**Model:RWC1200**  
Winch Console

Model	Capacity Kgs lbs	N.W. (Kgs) (lbs)	Inner carton (cm)	Outer carton (cm)	pcs/ carton	G.W. (Kgs)
RWC1200	545 1200	4.4	19.5×15×14	41×31×28	8	38



**Model:RSS2000**  
Separate Stand for Winch

Model	Capacity Kgs lbs	N.W. (Kgs) (lbs)	Inner carton (cm)	Outer carton (cm)	pcs/ carton	G.W. (Kgs)
RSS2000	908 2000	5.1	20.5×13.5×24.5	63×26×28.5	6	33



**SAFETY WARNING AND PRECAUTION**

- 1. KEEP WORK AREA CLEAN AND DRY**  
Cluttered, damp or wet areas invite injuries.
- 2. KEEP CHILDREN AWAY FROM WORK AREA**  
Do not allow children to handle this winch.
- 3. DO NOT USE THIS WINCH IF UNDER THE INFLUENCE OF ALCOHOL OR DRUGS**  
Read warning labels on the winch to determine if your judgement of reflexes are impaired while taking drugs. If there is any doubt, do not attempt to use this winch.
- 4. USE EYE AND HAND PROTECTION**  
Wear safety impact eyeglasses and heavy duty work gloves when using this winch.
- 5. DRESS SAFELY**  
Do not wear loose clothing or jewelry, as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts. If wearing a long sleeve shirt, roll sleeves up above elbows.
- 6. DO NOT OVERREACH**  
Keep proper footing and balance at all times to prevent tripping, falling, back injury, etc.
- 7. STAY ALERT**  
Watch what you are doing at all times. Use common sense. Do not use this winch when you are tired.
- 8. CHECK FOR DAMAGED PARTS**  
Before using this winch, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this winch. Replace or repair damaged or worn parts immediately.
- 9. REPLACEMENT PARTS AND ACCESSORIES**  
When servicing, use only identical parts. Only use accessories intended for use with this winch.

## SPECIAL WARNINGS AND PRECAUTIONS

### 10. MAINTENANCE

For your safety, service and maintenance should be performed regularly by a qualified technician.

### WARNING:

The warnings, precautions and instructions discussed in this 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.

1. **CAUTION:** Never exceed the maximum load capacity specified on page 2 - 8 for each model.

2. **AUTOMATIC MECHANICAL BRAKE REQUIREMENT**

The minimum tractive force (pulling load) required for a proper braking function on the winch is 55 lbs (25kgs). Without this minimum load, the braking function will not take place.

3. **AVOID SIDEWAYS CABLE SLIP**

The cable under a load should only be wound on to the drum to such an extent that a minimum space of 2 times the cable diameter remains on the drum flange (Fig. 1). Winch overloading and a sideways cable slip will here be avoided.

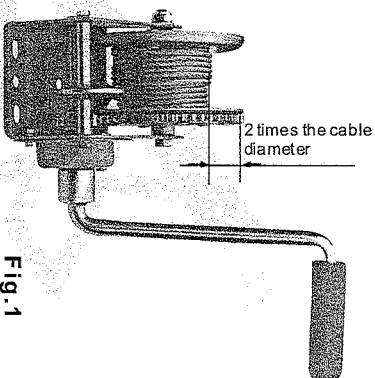


Fig. 1

4. **ALWAYS LEAVE AT LEAST 5 WRAPS OF THE CABLE (OR BELT) ON THE DRUM**

Failure to do so may break cable connection to drum and may result in serious accident. (see fig. 2)

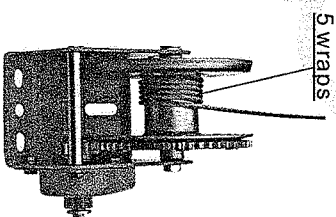


Fig. 2

5. **DO NOT OIL OR GREASE THE BRAKE MECHANISM**

Oil or grease will make the winch reduce or lose brake function.

## ASSEMBLY

6. ALWAYS USE PROPER COUPLINGS WHEN CONNECTING THE WINCH CABLE HOOK TO A LOAD.

7. MAKE SURE THE WINCH BASE IS PROPERLY BOLTED TO A STRUCTURE (OR VEHICLE) THAT CAN HOLD WINCH AND WINCH LOAD  
Failure to bolt down the winch properly can result in personal injury and/or property damage.

8. DO NOT USE ANY ATTACHMENTS to extend the length of the winch cable.

9. AFTER MOVING AN OBJECT WITH THE WINCH, SECURE THE OBJECT. DO NOT RELY ON THE WINCH TO HOLD AN OBJECT FOR AN EXTENDED PERIOD OF TIME.

10. WHEN LOADING A BOAT ONTO A TRAILER without keel or side hull rollers, make sure the trailer is submerged in the water when the boat is loaded by the winch. Attempting to drag the boat onto the trailer while on land can cause the winch failure and possible personal injury and property damage.

11. DO NOT APPLY A LOAD to the winch when the winch cable is fully extended. The cable anchor on the winch is not capable of holding the maximum rated load capacity.

12. STAND BACK  
Stay out of the direct line that the winch cable is pulling. In the event the winch cable slips or breaks, it will "whip lash" along this line.

**CRANK HANDLE ASSEMBLY:**  
Insert the hexagon socket of the Crank Handle on to the hexagon end of the Main Drive Axle. (Fig. 3) Screw tightly using the enclosed screw (nut) and Hex-key. (Fig. 4)

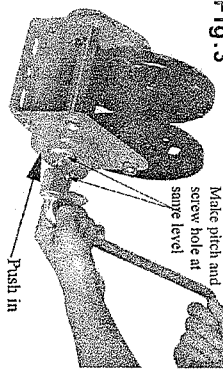


Fig. 3

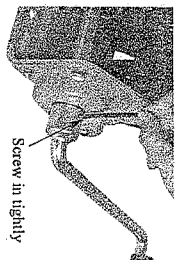


Fig. 4

**FITTING THE CABLE:**  
Insert the Steel Cable (not included, supplied to special order) through the square hole from inside to outside. Thrust the Steel Cable into one side of the Cable Anchor (Fig. 5). Insert the cable end into the other side of the Cable Anchor leaving a large loop outside (Fig. 6).

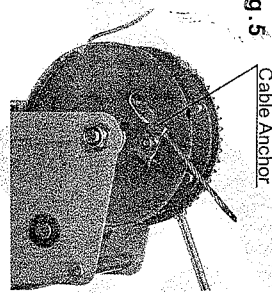


Fig. 5

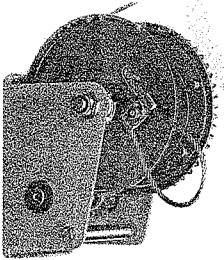


Fig. 6

Tighten the Nut slightly. Pull and reduce the loop down to the Cable Anchor. (See Fig. 7)

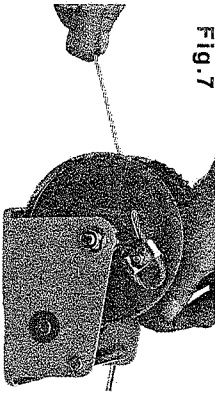


Fig. 7



Tighten the Nut with a turning torque of 5-10 NM (fig.8).  
Replace the Cable Anchor each time when the Cable is replaced.

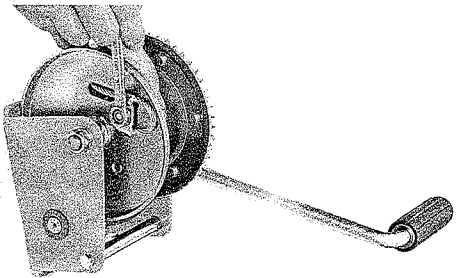


Fig.8

The cable must be pressed by a Cable Clamp into the eye of Spring Latch Hook with a Grommet Thimble on. (Fig.9)



Fig.9

**FITTING BELT with Fitting Bar**  
The winch is designed to fit a belt as well as a cable. Push the Belt fitting Bar, through the belt loop in the direction of the arrow (Fig. 10)

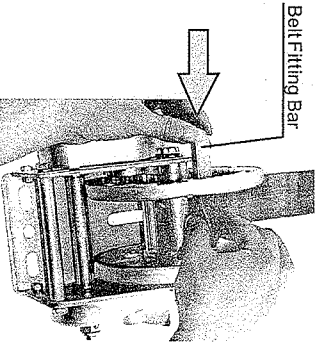


Fig.10

Secure the Belt Fitting Bar with a screw, a spring washer and a flat washer.(Fig. 11)

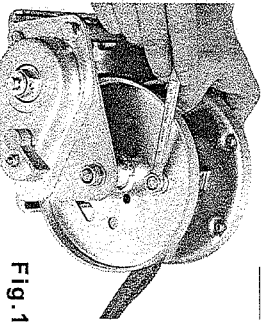


Fig.11

**WARNING**  
The belt breaking strain must be at least 3 times the pulling capacity and 7 times the lifting capacity of the winch.

**FITTING POSITION OR DIRECTION OF OPERATION**  
Fitting the winch with the fleet angle no more than 4° (Fig. 12)

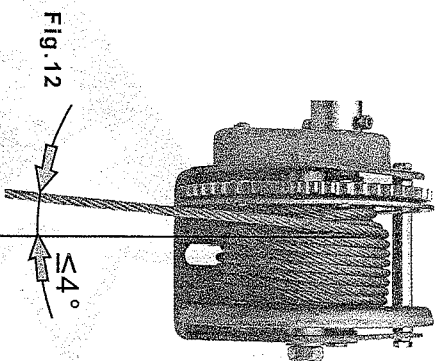


Fig.12

## OPERATION

- 1. Lifting, Pulling**  
Turn the Crank Handle clockwise.
- 2. Stopping**  
The load can be stopped in any position simply by letting go off the Crank Handle.
- 3. Lowering, Cable releasing**  
Turn the Crank Handle anti-clockwise to lower the load or releasing the cable. The automatic brake can prevent the Crank Handle from kicking back.

**WARNING:**

The brake function will only be activated by a minimum load of 25kgs. Do not oil or grease the brake mechanism. (Fig. 13)

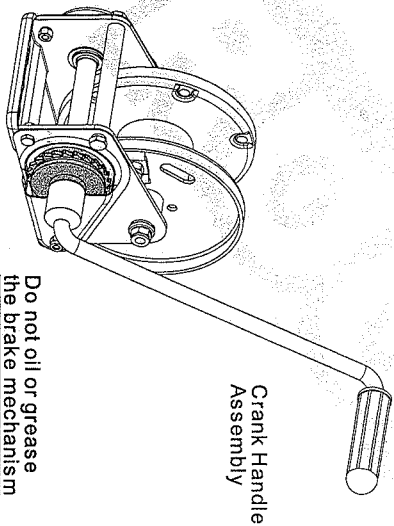


Fig. 13

## OPERATION

MODEL: RBW1000F, RBW1200F, RBW1500F, RBW2000F, RBW2500F, RBW3500F

- 1. Lifting, Pulling**  
Turn the Crank Handle (Handle Assembly) clockwise.
- 2. Stopping**  
The load can be stopped in any position simply by letting go off the Crank Handle.
- 3. Lowering**  
Turn the Crank Handle anti-clockwise to lower the load. The automatic brake can prevent the Crank Handle from kicking back.

**WARNING:**

The brake function will only be activated by a minimum load of 25kgs. Do not oil or grease the brake mechanism.

**4. Free Spool**

- 1). Take off the Crank Handle.
- 2). Press Handle Knob in the direction of arrow (Fig. 14).
- 3). Turn left as indicated on the operating label. The cable drum now can be turned freely.

**WARNING:** With load on the cable (or belt), you can not use this FREE SPOOL function, otherwise you may get personal injury or property damage.

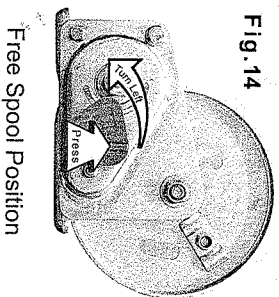


Fig. 14

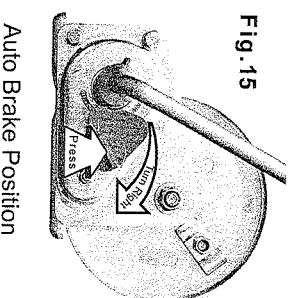


Fig. 15

**5. Stop using Free Spool function**

Turn the Handle Knob back to Auto Brake position (Fig. 15).