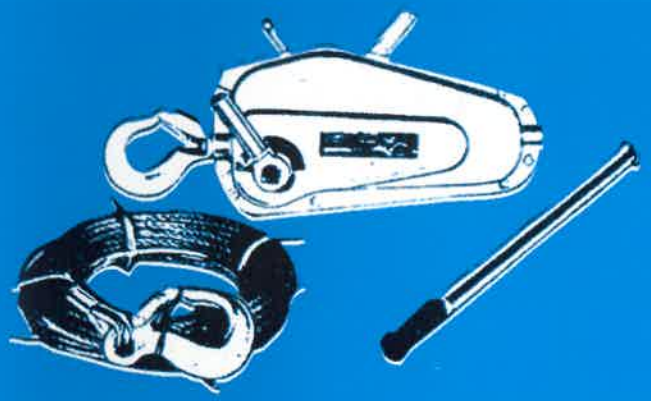
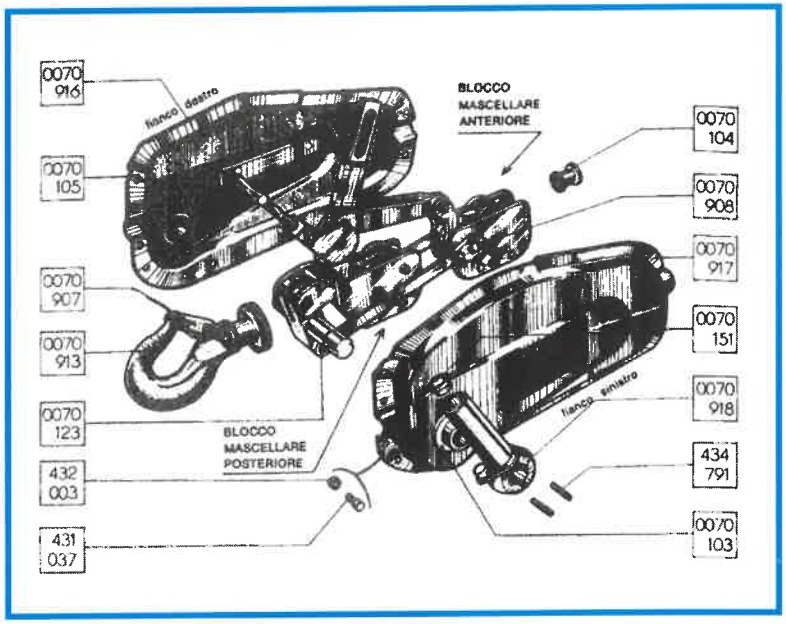
RIFERIMENTO	DESCRIZIONE	Quantità per apparec.
0070.103	Supporto di menarola	2
0070.104	Entrata di cavo	1
0070.105	Anello di supporto della menarola	2
0070.110	Bielletta folle	4
0070.111	Bielletta comando	4
0070.112	Ganascia superiore	2
0070.113	Ganascia inferiore	2
0070.114	Perno di rinforzo mascella	6
0070.115	Asse biellette	4
0070.116	Perno di rinforzo blocco posteriore	1
0070.121	Asse di manovra blocco posteriore	1
0070.123	Asse di manovra bielle	1
0070.124	Menarola	1
0070.126	Leva di marcia indietro	1
0070.127	Asse di leva marcia indietro	1
0070.128	Asse di retromarcia biellette posteriori	2
0070.129	Asse di retromarcia biellette anteriori	1
0070.130	Biella di retromarcia destra	1
0070.131	Biella di retromarcia sinistra	1
0070.136	Perno della molla	4
0070.137	Molla destra	4
0070.138	Rinforzo d'unificazione molle	4
0070.139	Molla sinistra	4
0070.151	Tappo della leva di marcia avanti	1
0070.901	Fianco destro blocco posteriore	1
0070.902	Fianco sinistro blocco posteriore	1
0070.904	Fianco destro blocco anteriore	1
0070.905	Fianco sinistro blocco anteriore	1
0070.908	Biella di manovra	2
0070.909	Impugnatura di disinnesto completa	1
0070.913	Gancio d'apparecchio con moschettone	1
0070.916	Carter destro completo	1
0070.917	Carter sinistro completo	1
0070.918	Leva di marcia avanti	1
0070.924	Leva telescopica	1
0070.934	Blocco mascellare poster. montato con menarola	1
0070.935	Blocco mascellare anteriore montato	1
0070.936	Blocco mascellare poster. montato senza menarola	1
0070.937	Moschettone di sicurezza	1
431.037	Vite TE M 6 x 10	9
432.003	Dado M 6	9
433.833	Anello d'arresto Ø 8	4
434.791	Copiglia di sicurezza	6

9698007/000

T 7

Istruzioni per l'impiego

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0070 907
0070 917
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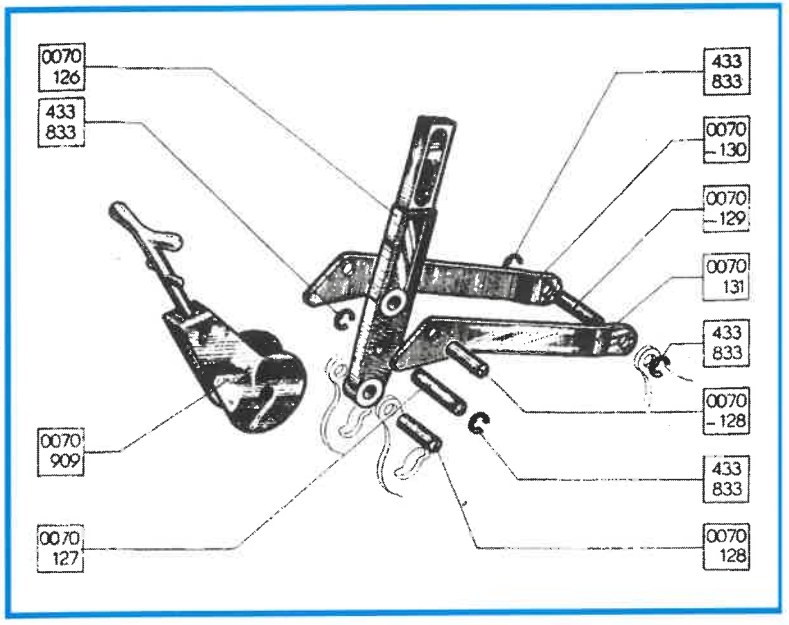
BLOCCO MASCELLARE POSTERIORE
fianco sinistro
0070 918
432 003
434 791
431 037
0070 103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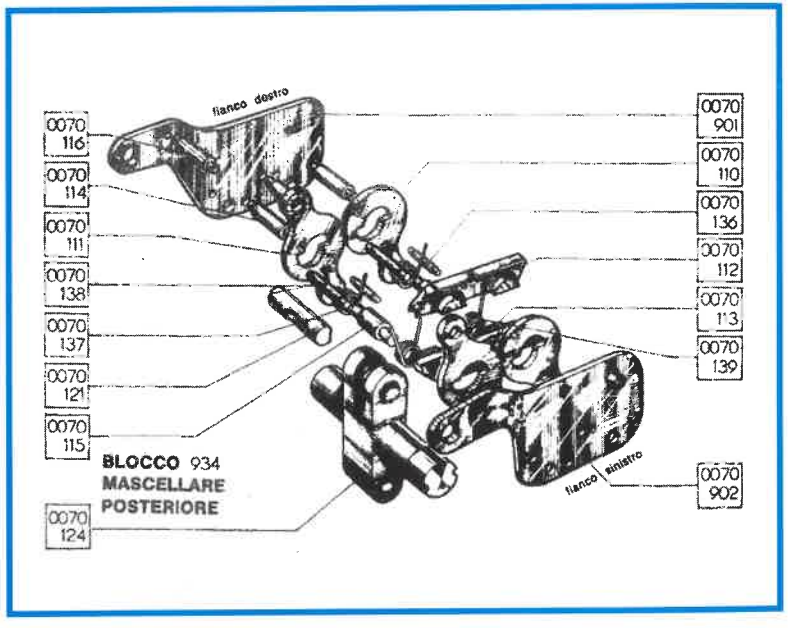
fianco destro
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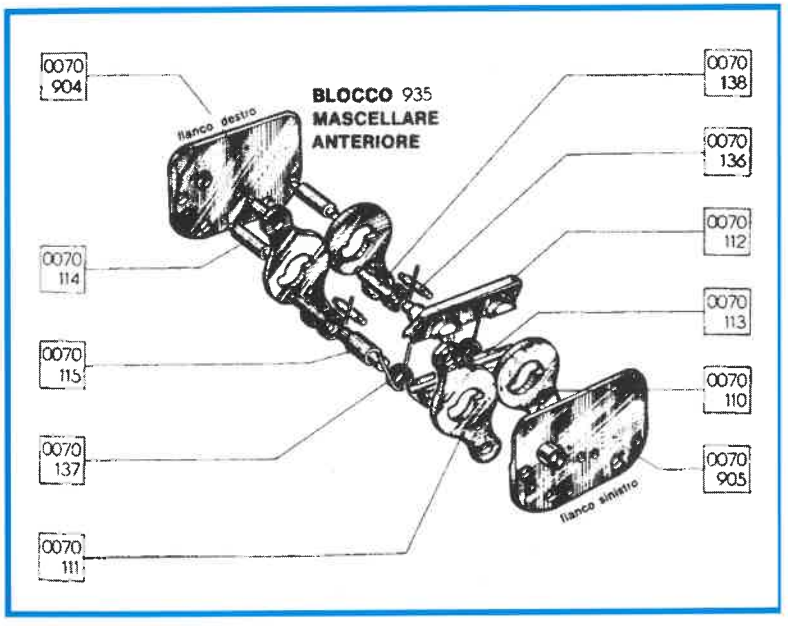
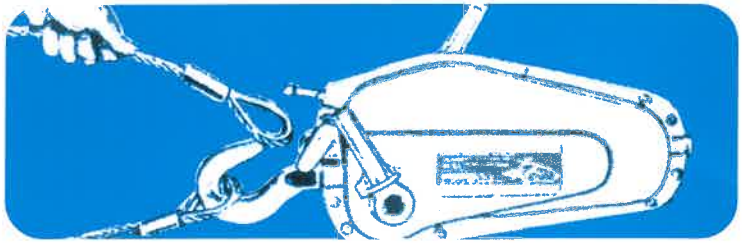
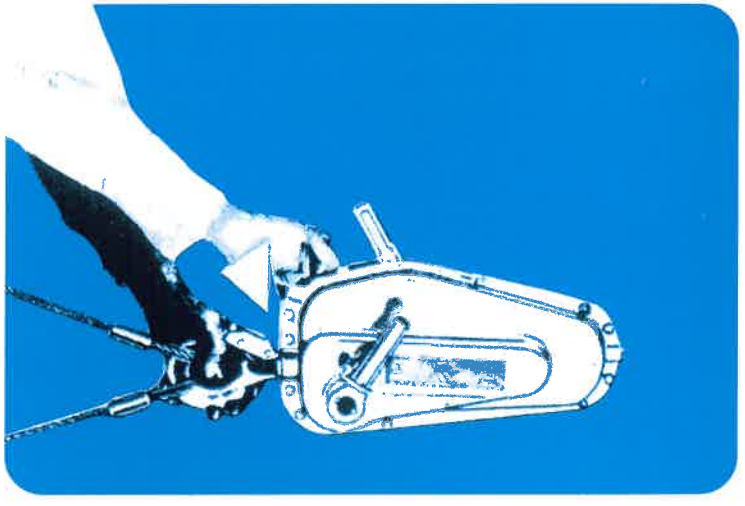
0070 901
0070 114
0070 110
0070 111
0070 136
0070 138
0070 112
0070 137
0070 113
0070 121
0070 139
0070 115
BLOCCO 934 MASCELLARE POSTERIORE
fianco sinistro
0070 902
0070 124


0070 904
BLOCCO 935 MASCELLARE ANTERIORE
fianco destro
0070 138
0070 136
0070 114
0070 112
0070 113
0070 115
0070 110
0070 137
0070 905
fianco sinistro
0070 111

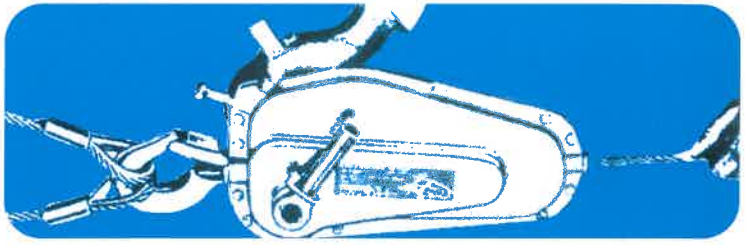
1 - Svolgere tutto il cavo e stenderlo tra l'apparecchio e il carico.



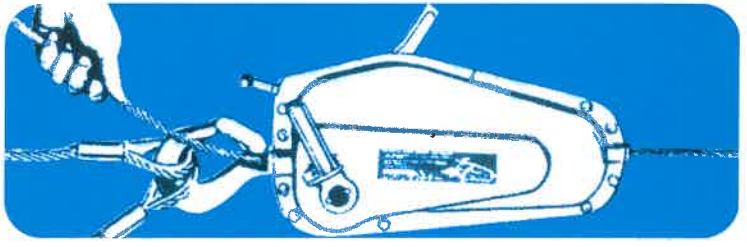
2 - Ancorare l'apparecchio con il suo gancio a un punto fisso utilizzando un'adeguata imbrcatura.



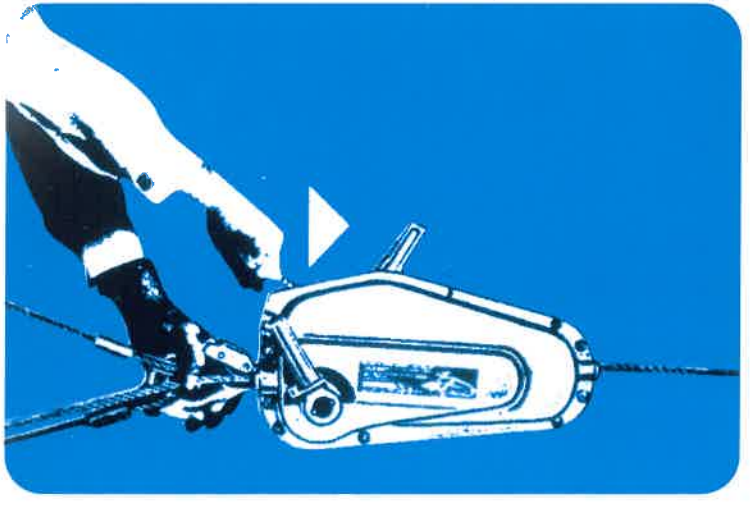
3 - Inclinare la leva L 1 nel senso opposto del gancio e disinnestare l'apparecchio tirando a fondo l'impugnatura di disinnesto P e inserendola nell'incastro riservato a quest'uso.



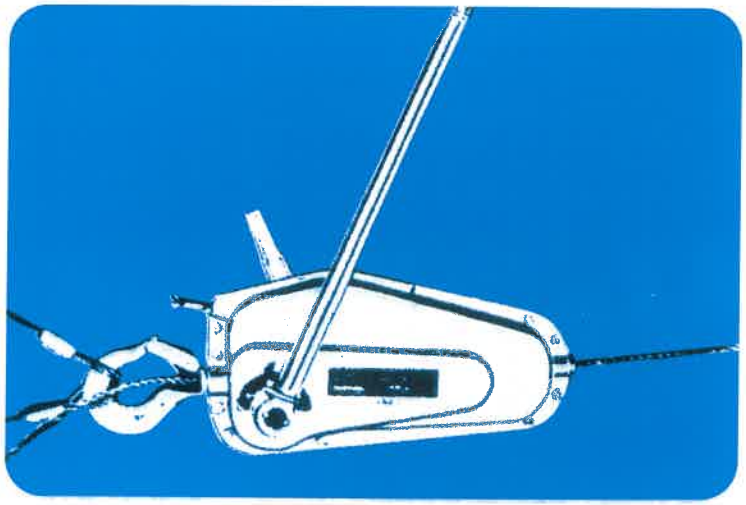
4 - Dopo aver disinnestato l'apparecchio introdurre in E il puntale del cavo.



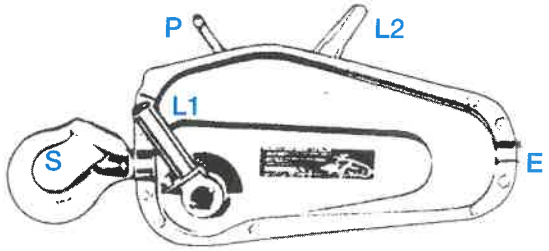
5 - Tendere il cavo con la mano e assicurarsi che nulla possa impedire l'uscita dall'altra parte S.



6 - Innestare l'apparecchio liberando l'impugnatura di dissinnesto P portandola verso la sua posizione iniziale.



7 - Innestare la leva telescopica su L 1 oppure L 2. L'apparecchio è pronto a funzionare (in marcia avanti o indietro).



E - Entrata del cavo

S - Uscita del cavo

P - Impugnatura di disinnesto

L 1 - Leva di marcia avanti (contiene le biette di sicurezza di ricambio)

L 2 - Leva di marcia indietro

La leva di marcia avanti è montata su due copiglie di sicurezza calibrate che funzionano da limitatore di carico per salvare il meccanismo da eventuali sovraccarichi. In caso di rottura, sostituire con quelle di ricambio.

PRIMA DI USARE L'APPARECCHIO

LUBRIFICARE

ABBONDANTEMENTE IL MECCANISMO

Si raccomanda di pulire e lubrificare frequentemente l'apparecchio con olio SAE/EP 90 oppure SAE/EP 140 (in mancanza di altro olio, lubrificare con olio di motore SAE 40).

Sollevamento Kg. 750 - Trazione Kg. 1.250

- LIFTING AND HANDLING. MEASUREMENT AND CONTROL
- SAFETY AT WORK HEIGHT AND FALL PROTECTION
- ACCESS AND PLATFORMS FOR PERSONS
- RENEWABLE ENERGY
- SERVICES

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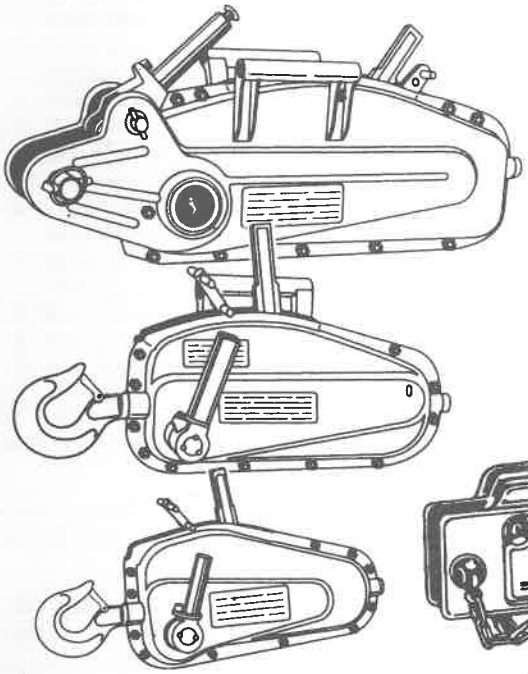
lifting and pulling machines

tirfor®

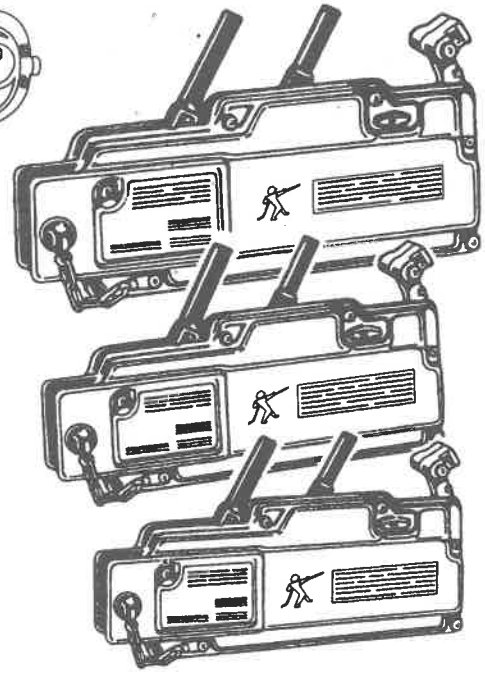
operating and maintenance instructions



models

T : T-7
T-13
T-35

T-500D : T-508D
T-516D
T-532D



CE equipment produced according to european directive CE

Tractel Group

ORIGINAL MANUAL

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1.	Description of equipment	4
2.	Rigging arrangements	4
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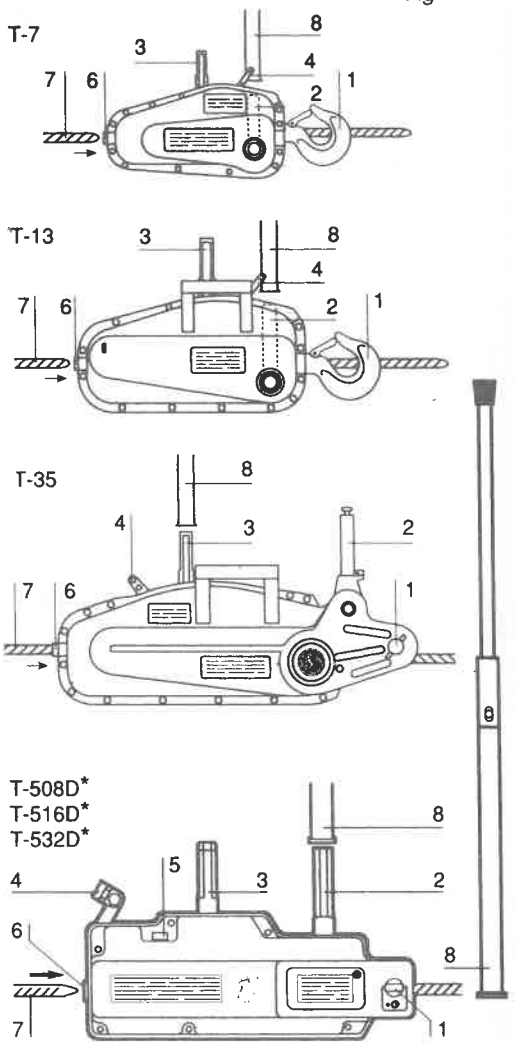
Always concerner to improve the quality of its products TRACTEL IBÉRICA, S.A. reserves the right to modify the specifications of the equipment described in this manual.

The companies of the TRACTEL Group and their agents or distributors will supply on request descriptive documentation on the full range of TRACTEL products: lifting and pulling machines, permanent and temporary access equipment, safety devices, electronic load indicators, accesories such as pulley blocks, hooks, slings, ground anchors, etc...

TRACTEL IBÉRICA, S.A. network is able to supply an after-sales and regular maintenance service. Should you have any queries or require technical assistance, please do not hesitate to contact TRACTEL IBÉRICA, S.A.

Fig. 1



1. Hook / anchor pin
2. Forward operating lever
3. Reverse operating lever
4. Rope release lever
5. Rope release safety catch
6. Rope guide
7. Wire rope
8. Telescopic operating handle

Cable reel

⚠ GENERAL WARNING ⚠

1- **Before using the TIRFOR machine** it is essential for the safe and correct operation of the equipment **that this manual be read** and fully understood and that all the instructions be followed. **This manual should be made available to every operator.** Extra copies of this manual will be supplied on request.
2- The TIRFOR machine allows the operator to carry out work where is necessary a great safety. Ensure that this machine is only handed over for use or rigging to an operator who is trained to operate it in a responsable manner.
3- Never use a machine which is not in good working condition. **Replace any worn or damaged wire rope.** Continuous monitoring of the condition of the machine, its wire rope and anchor sling is an important safety consideration.
4- TRACTEL IBÉRICA, S.A. declines any responsability for the consequences of dismantling or altering the machine by any unauthorised person. Especially excluded is the replacement of original parts by parts of another manufacturer.
5- The models described in this manual only can be used to lift or move loads. **Never must be used for lifting people.**
6- Moreover, these models are designed for manual operation and must not be motorised. TRACTEL IBÉRICA, S.A. design special motorised models (TU-16H and TU-32H).
7- Never attempt to overload the machine.
8- Standard TIRFOR machines are not designed for use in explosive atmospheres.
9- If de equipment described in this manual is supplied to an employed person, check that you meet your obligations with respect to safety at work regulations.

LIFTING PEOPLE AND SPECIAL APPLICATIONS

For further information on equipment for lifting people, and on any application, please refer to TRACTEL IBÉRICA, S.A.

TECHNICAL DATA

MODEL		T-7	T-508D	T-13	T-516D	T-35	T-532D
Maximum working load	t	0,75	0,8	1,5	1,6	3,0	3,2
Weight :							
machine	kg	6,8	6,6	16,7	13,5	27,0	24,0
telescopic operating handle	kg	0,8	1,0	1,7	2,3	2,4	2,3
standard 20 m of wire rope, complete	kg	5,6	5,6	10,7	10,7	22,7	22,7
Total weight of standard equipment	kg	13,2	13,2	29,1	26,5	52,1	49,0
Machine dimensions :							
length	mm	500	420	616	530	728	620
length with optional hook	mm	-	550	-	650	-	840
height	mm	236	250	310	315	345	355
width	mm	100	99	140	127	156	130
telescopic handle: close/extended	mm	51/77	40/69	68/119	65/115	68/119	65/115
TIRFOR original wire rope							
diameter	mm	8,3	8,3	11,5	11,5	16,3	16,3
guaranteed breacking strain*	daN	4000	4000	8000	8000	16000	16000
weight per meter	kg	0,250	0,250	0,500	0,500	0,900	0,900
Rope travel (forward/reverse)**	mm	55	46/63	68	42/57	10	18/36

* Including end fittings of the wire rope
** One complete cycle of the operating lever at maximum working load

1. DESCRIPTION OF EQUIPMENT

The TIRFOR is hand-operated lifting and pulling machine. It is versatile, portable and multi-purpose, not only for pulling and lifting but also for lowering, tensioning and guying.

The originality of the TIRFOR machine is the principle of operation directly on the wire rope which passes through the mechanism rather than being reeled onto a drum of a hoist or conventional winch. The pull is applied by means of two pairs of self-energised jaws which exert a grip on the wire rope in proportion to the load being lifted or pulled. A telescopic operating lever fitted to either the forward or the reverse lever transmits the effort to the jaw mechanism to give forward or reverse movement of the wire rope.

The machine is fitted with a hook or anchor pin, depending on the model, so that it can be secured quickly to any suitable anchor point.

TIRFOR machines, intended for lifting and pulling materials, are available in two ranges each with three models of different capacities:

- T-500D range
- T range

Each machine is supplied with a telescopic operating handle, and usually with a 20 m standard length of special TIRFOR wire rope fitted with a safety hook and wound onto a metal reeler (longer or shorter lengths of wire rope are available on request).

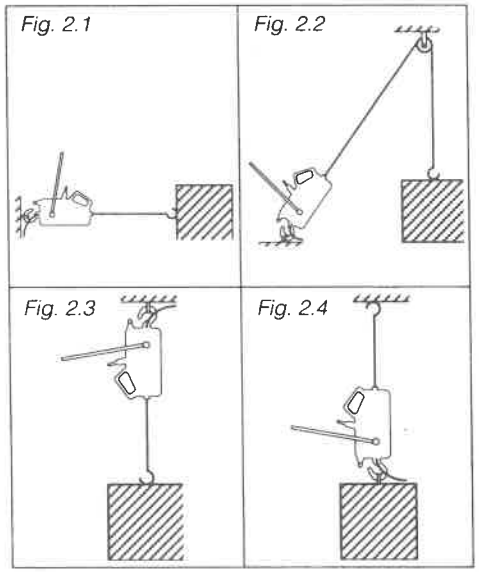
This manual togheter with a guarantee card are supplied with each machine, as well as the CE declaration of conformity.

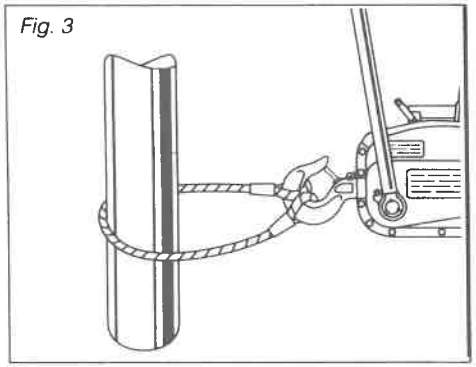
IMPORTANT: TIRFOR wire rope has been especially designed to meet the particular requirements of the TIRFOR machine. TRACTEL IBÉRICA, S.A. does not guarantee the safe operation of machines used with wire rope other than TIRFOR wire rope.

2. RIGGING ARRANGEMENTS

Various ways of rigging are shown in figures 2.1, 2.2, 2.3 and 2.4 The fig. 4 and 5 show particular arrangements (forbidden and recomended).

The machine can be anchored to a fixed point with the wire rope travelling towards the machine (Fig. 2.1, 2.2, 2.3) or travel along the wire rope, with the load, the wire rope itself abchored to a fixed point (Fig. 2.4). In example 2.2, the maximum working load of the pulley and its anchor point should be greater than twice the load.

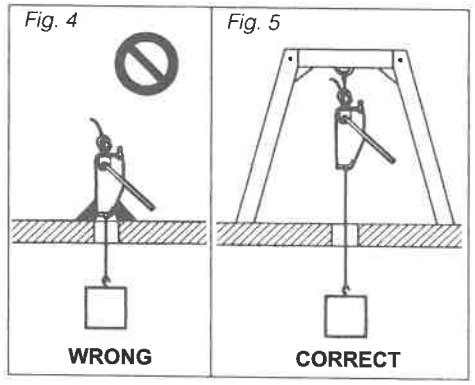




N.B. Whatever the rigging arrangement, and if the machine is anchored directly to a fixed point, ensure that there are no obstructions around the machine which could prevent the wire rope, the machine and anchor from operating in a straight line. It is therefore recommended to use a sling of an appropiate capacity between the anchor point and the machine (Fig. 3).

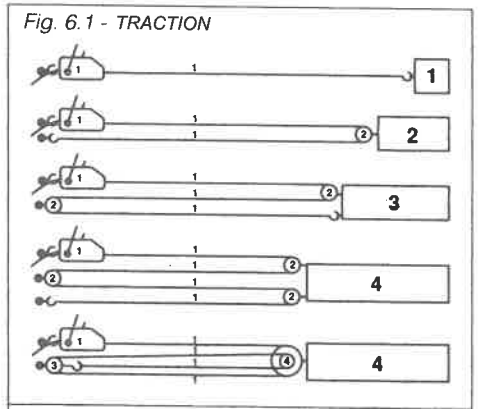
⚠ **WARNING** ⚠ : Any rigging arrangement which requires the calculation of the forces applied should be checked by a competent engineer, with special attention to the appropiate strength of fixed point used.

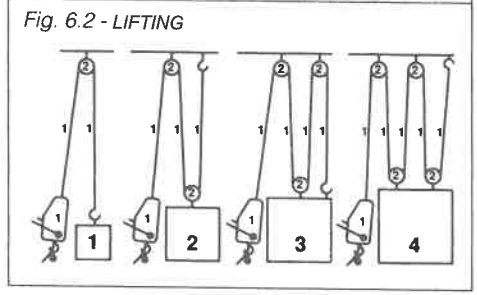
For work such as guiding the trunk in tree falling, the operator should ensure that he is outside the danger area by passing the wire rope around one or more return pulleys.



The capacity of the machine may be increased considerably for the same effort by the operator by using multiple sheave blocks (see exemples in Fig. 6.1 and 6.2). The increase in the capacity shown is reduced depending on the efficiency of the pulleys. The diameter of the pulleys used should be equal at least 18 times the diameter of the wire rope (refer to the applicable regulations).

For any rigging arrangement other than those described in this manual, please consult TRACTEL IBÉRICA, S.A. or a competent specialist before operating the machine.





3. INSTALLING THE WIRE ROPE

N.B. When handling the wire rope it is recommended to protect the hands by using work gloves.

1. Uncoil the wire rope in a straight line to prevent loops or kinks.
2. Release the internal mechanism (see section 4 "Releasing and closing the jaws").
3. Insert the wire rope through the rope guide at the end opposite to the anchor point (hook or anchor pin).
4. Push the wire rope through the machine, and if necessary, helping it by operating the forward operating lever.
5. When the wire rope appears through the anchor point, pull the slack wire rope through the machine, to the point required by hand.
6. Engage the jaws by operating the rope release mechanism (see section 4 "Releasing and engaging the jaws").
7. Anchor the TIRFOR machine or the wire rope to the appropiate fixed point (see section 5 "Anchoring"); taking care to ensure that the anchor point, hook or pin depending on the model, is correctly fixed.
8. Extend the telescopic operating handle (Fig. 1) until the spring locks into position. If necessary twist the two sections of the handle, one inside other, to align the spring.
9. Replace the telescopic operating handle on the chosen operating lever (forward or reverse) and twist the handle to ensure that is locked in position (1/2 turn aprox.).

After this procedure, the machine is ready for operation, providing the load is correctly anchored to the machine or the wire rope (see section 5 "Anchoring" and section 2 "Rigging arrangements").

4. RELEASING AND CLOSING THE JAWS

Each machine is fitted with a lever (4) for releasing the jaw mechanism which should only be operated when the machine is not under load.

There are two positions for the rope release lever (see Fig. 7,8 and 9), releases or engaged.

N.B. When not in operation, it is recomended that the rope release lever should be in the engaged position. The machine must therefore be released before attempting to feed in the wire rope.

4.1. T-7 and T-13 (Fig. 7)

Releasing:
Pull the rope release lever (4) through the hook, until it locks into position. The machine is in released position.

Engaging:
Replace the rope release lever (4) to the original position, pulling back to take of and leaving it under the effect of its spring.

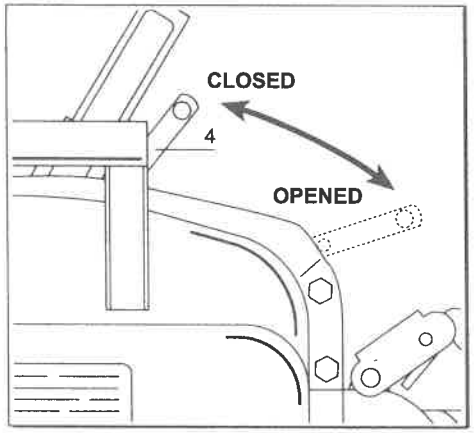


Fig.7 - T-7 and T-13. Rope release

4.2. T-35 (Fig. 8)

Releasing:
Push the rope release lever (4) towards the anchor pin, previous movement of the forward handle to it, until it locks into position. The machine is in the released position.

Engaging:
Press the rope release lever (4) inside the housing, softly in the same side that for releasing, until out from the housing, turn back to its original reverse position under the effect of its spring.

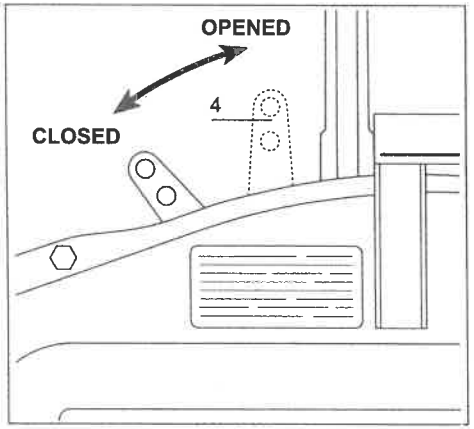


Fig.8 - T-35. Rope release lever

4.3. T-500 range (Fig. 9)

Place the anchor point against the support.

Realising:
Turn the rope release safety catch (5) and push the rope release lever (4) towards the anchor pin until it locks into position when raised slightly at its limit. Release the safety catch.

Engaging:
1. Turn the rope release safety catch,
2. Press the rope release lever vertically downwards, allowing the lever to travel back to its original position under the effects of its spring. Release the safety catch.

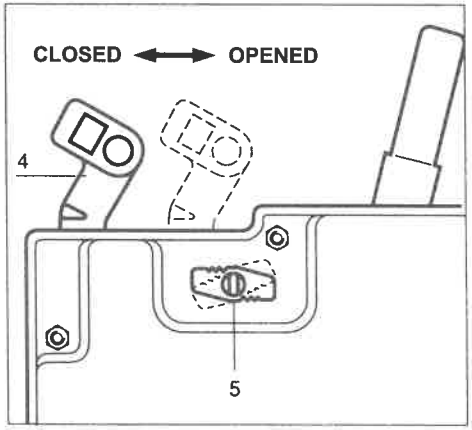


Fig.9 - T-500D. Range rope release lever

5. ⚠ ANCHORING ⚠

Failure to anchor the TIRFOR machine correctly runs the risk of a serious accident. The user must always ensure before operation that the anchor point(s) for the machine and wire rope are of sufficient strength to hold the load (lifting or pulling).
It is recommended that TIRFOR machines should be anchored to a fixed point or to a load using an appropiate capacity sling. It is forbidden to use the machine's wire rope as a sling by passing it around the load and hooking it back onto itself (Fig. 10: incorrect - Fig. 10bis: correct).
The anchoring arrangement of models T-7 and T-13 is a hook fitted with a safety catch (Fig. 11 and 12). In all cases when anchoring the machine the safety catch of the anchor hook should be correctly closed, in its position at the tip of the hook (Fig. 12). This advice for the machine anchor hook also applies to the hook fitted to the wire rope.
TIRFOR machines T-35 and T-500D are anchored by a removable anchor pin, fitted across the two ends of the side cases (Fig. 13 and 14) and locked in position by a pin with a safety ring which has two positions, opened and closed (Fig. 15 and 16).

Optional hooks are available to fit the anchor point of models T-500D.
To anchor using the anchor pin, follow the procedure below.

1. Turn the spring ring of the anchor pin to the open position.
2. Remove the spring clip from the anchor pin.
3. Pulling the anchor pin to take away (Fig. 14).
4. Fit the anchoring arrangement, such as a sling, between the side cases.
5. Refit the anchor pin through the side cases.
6. Refit the spring clip to the anchor pin.
7. Close the spring clip, ensuring that it fits correctly over the end of the anchor pin and cannot fall out.

⚠ **Warning** ⚠: It is essential for the safe operation of the machine to ensure that, before loading the machine, the anchor points, hooks or pins, are correctly secured (with the safety cath correctly located on the hook. Fig. 12).

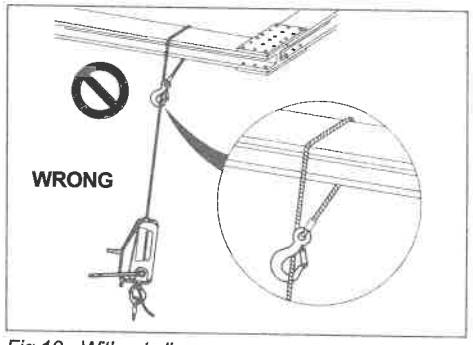


Fig.10 - Without sling

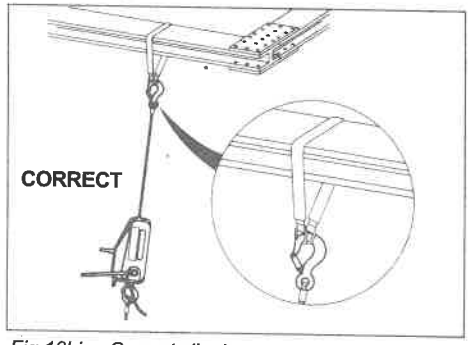


Fig.10bis - Correct slinging

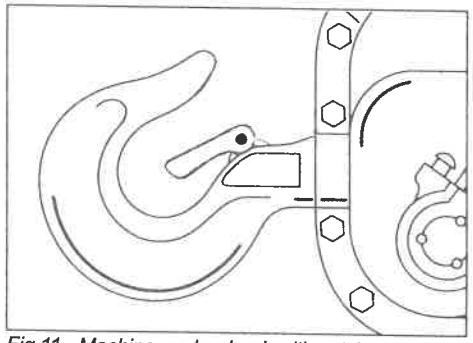


Fig.11 - Machine anchor hook with catch in open position

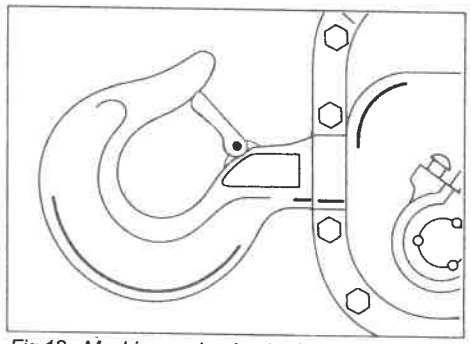


Fig.12 - Machine anchor hook with catch in closed position

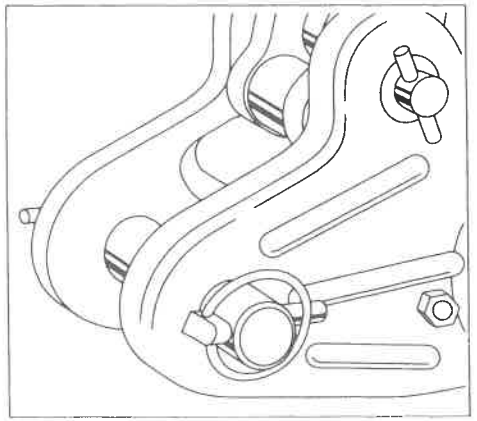


Fig.13 - Anchor pin in position

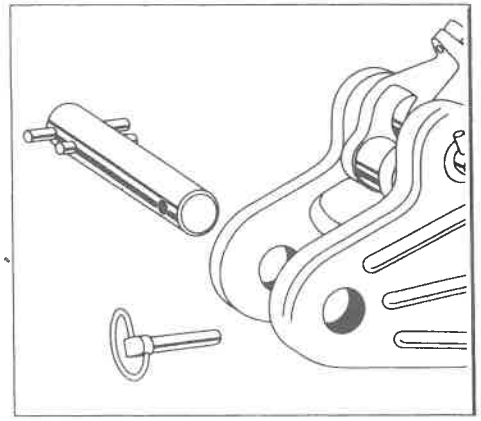


Fig.14 - Anchor pin removed

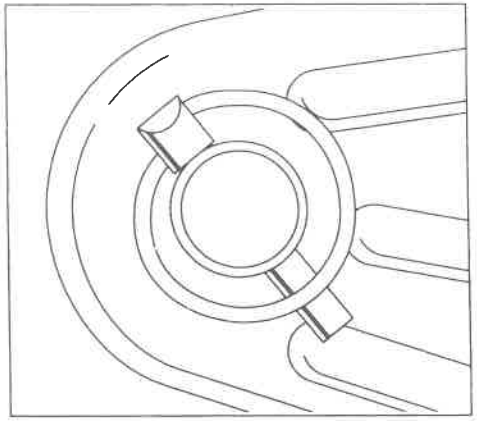


Fig.15 - Spring clip closed

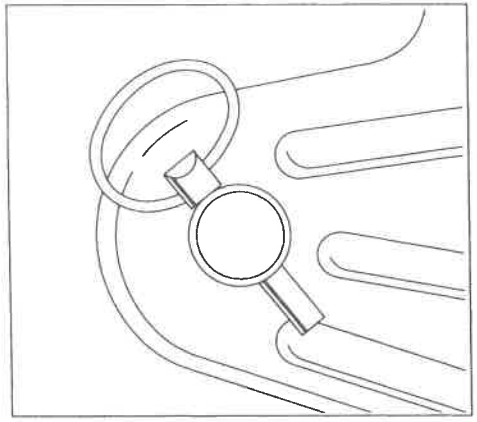


Fig.16 - Spring clip open

6. OPERATION

TIRFOR machines are very easy to use. Place the telescopic operating handle on either the forward or reverse operating lever which largeness change depending on the operator possibilities.
When operation stops, both jaws automatically grip the wire rope and hold the load which is spread equally between the jaws.
The movements of the forward and reverse levers have a double effect and the load goes over each travel of the levers in one way or the other in each movement of the telescopic handle.

7. RELEASING THE WIRE ROPE AND STORAGE

It is essential to take the load off the machine before attempting to release the jaws.
To do this, operate the reverse operating lever until there is no tension in the wire rope.
Remove the telescopic operating handle from the movement lever where is possitioned, doing pivot to unlock it. Close the telescopic.
Release the machine and follow the instructions for installing the wire rope in the reverse order. Re-engage the jaws of the machine before putting it into storage.
Store the machine and wire rope in a dry place, away from the effects of the weather. The wire rope should be completely removed from the machine and rewound onto its reeler.
Before reeling the wire rope, it is recommended to inspect it, clean it with a brush and then grease it.

8. SAFETY DEVICES

8.1 Overload limiting safety devices

Models T-7, T-13 and T-500D incorporate a shear pin system. In case of overload, they shear, and make impossible to operate. Reverse operating lever is still operative to lower or slack the load.

8.2 Rope release safety device

Models T-500D are fitted with a "two handed" rope release system which requires deliberate operation by the user to release the machine.

See section 4 "Releasing and engaging the jaws".

9. REPLACING THE SHEAR PINS

Figures 17, 18 and 19 show the position of the shear pins for the various models. Models T-500D are fitted with spare shear pins which are in the stub of the rope release levers (remove the plastic cap).

Remove first the sheared pins with a suitable punch. For models T-7 and T-13, remove first of all the forward operating handle stub by using an extractor.

Clean the housings of each pin. Refit the forward operating handle stub on its shaft. If you are operating a T-7 or T-13, align the half parts of the housing of the shaft with the half parts of the telescopic operating lever (Fig. 17 and 18).

Position the spare shear pins and drive them in with a hammer, after align the holes of each section.

⚠ **Warning** ⚠ **: It is forbidden to replace sheared pins by anything other than the genuine TIRFOR shear pins of the same model.**

Before putting the machine back into operation, ensure that the cause of the overload is removed. If necessary, use multiple sheave blocks (see Fig. 6). Remember to re-order sheared pins and put them back in the correct place.

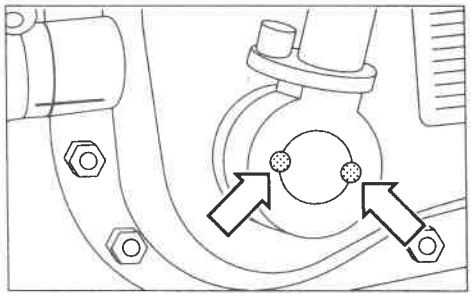


Fig.17 - T-7

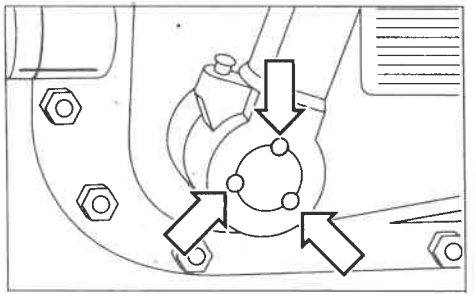


Fig.18 - T-13

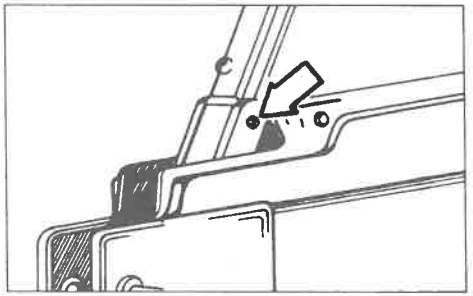


Fig.19 - T-500D

10. WIRE ROPE

⚠ **Protect the hands by using work gloves when handling the wire rope.**

⚠ **To guarantee the safe operation of TIRFOR machines, it is essential to use them exclusevely with TIRFOR wire rope which has been especially designed to meet the requirements of the TIRFOR machines.** TIRFOR wire ropes have a red strand.

⚠ **CE certification is not valid if it is not used the original TIRFOR wire rope.**

One end of the wire rope has an end fitting, such as a safety hook. fitted to a thimble fixed by metal ferrule (see Fig. 20). The other end of the wire rope is fused and tapered (see Fig. 21).

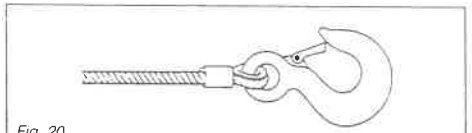


Fig. 20

Fig. 21

⚠ **A wire rope in good condition is a guarantee of safety, to the same extent as a machine in good condition.** It is necesary to continuously monitor the state of the wire rope, to clean and oil it with a rag soaked with motor oil or grease.
Grease or oil containing graphite additives or molybdenum disulphide must not be used.

Visual examination of the wire rope.
The wire rope should be examined daily to detect any sings of wear (damage or broken wires: see examples in Fig. 22).

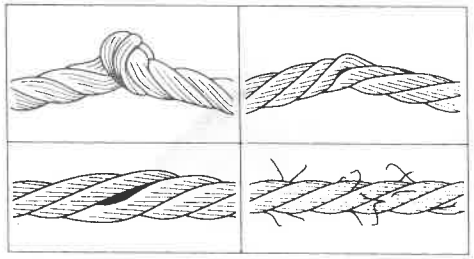


Fig.22 - Examples of damaged wire rope

In case of any apparent wear, have the wire rope checked by a competent person. Any wire rope with a reduction from the nominal diameter by more than 10% should be replaced (see fig. 23 for the correct method of measuring the diameter of a wire rope).

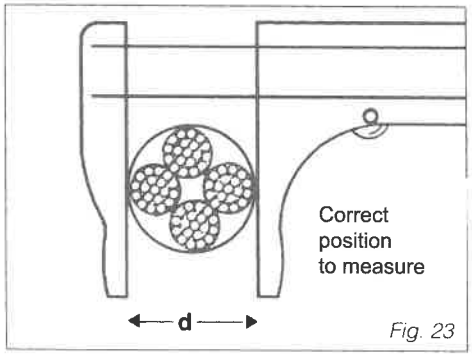


Fig. 23

IMPORTANT: It is recommended, especially for lifting applications, to ensure that the length of wire rope is greater than actually required. Allow a extra meter approximately minimum.

When lifting or lowering loads over long lengths of wire rope, steps should be taken to stop the load from rotating to prevent the wire rope from unlaying.

Never allow a tensioned wire rope to rub over sharp edges. The wire rope must only be used with pulleys of an appropriate diameter.

Never expose the wire rope to temperatures beyond 100° neither to the mechanical or chemical agents.

Storage: see section 7

11. MAINTENANCE INSTRUCTIONS

The machine should be inspected, cleaned and lubricated at regular intervals (at least annually) by an approved TRACTEL repairer.

Never use grease or oil containing graphite additives or molybdenum disulphide. To clean the machine, allow the machine to soak in a bath of some dissolvent, as petroleum, gasoline, pure alcohol, but not acetone and derivatives, ethylene trichloride and derivatives; then shake de machine to loosen foreign matter. Turn it upside down to allow the dirt to come out through the openings for the operaiting levers. Allow the mechanism to drain and become dry. After this treatment, ensure that the machine is well lubricated by applying a quantity of oil (type SAE90, 120) onto the internal mechanism through the openings for the operating levers.
To make easier that the oil penetrates in all parts of the mechanism, before and without load, release the machine and operate the levers.

N.B. Excess lubrication cannot cause the machine or wire rope to slip.

Any machine where the side cases show signs of dents or damage, or of which the hook is damaged (models T-7 and T-13), shoul be returned to an approved repairer TRACTEL.
Periodically inspections must be done, at least once a year.

12. ⚠ WARNINGS AGAINST HAZARDOUS OPERATIONS

The operation of TIRFOR machines, in accordance with the instructions of this manual, is a guarantee of safety. Nevertheless, it is useful to draw the attention of users to the following warnings:
It is not alowed:

- Use TIRFOR machines as described in this manual for lifting people.
- To motorise them.
- Use TIRFOR machines beyond their maximum working load.
- Use TIRFOR machines for applications other than those or which they are intended.
- Attempt to operate the rope release mechanism whilst the machine is under load.
- Obstruct the operating levers or the rope release lever.
- Operate the forward and reverse operating levers at the same time.
- Use a handle, other than the telescopic operating handel supplied, to operate the TIRFOR machine.
- Replace sheared pins by anything other than original TIRFOR shear pins of the same model.
- Anchor the machine other than by its appropiate-anchor point.
- Obstruct the machine, which could prevent the machine, the wire rope and the anchor points from operating in a straight line.
- Use the TIRFOR wire rope as a sling.
- Apply a load to the loose wire rope that exits from the anchor point of the TIRFOR machine.
- Subject the controls to sharp knocks.
- Attempt to operate the forward lever until the thimble of the wire rope's hook touch the case.
- Attempt to operate the reverse lever until the end of the wire rope is near the case.

13. TROUBLESHOOTING

1) The forward operating lever moves freely and does not operate the mechanism, it means that the machine has been overloaded and the shear pins have sheared. See section 9 for replacing the shear pins.
2) Pumping:
A lack of lubricant in a TIRFOR machine sometimes brings about (not dangerous) a condition known as "pumping" which is produced in forward. The wire rope or the machine (depending on the installation) ascend or descend a few centimeters but don't advance. This situation stops when oil is poured into the case. If it's necessary, operate reverse lever to make easier the lubrication of the parts.
3) Jerkiness:
This is a symptom of lack of lubrication and reverse. Procedure as the same way that in point 2.
4) Blockage:
If the wire rope becomes blocked in the machine, generally because a damaged section of wire rope is stuck within the jaws, it is imperative to stop operating the machine. The load should be taken by another machine on a separate wire rope, or by another means, whilst ensuring that all **safety conditions** are taken. When the blocked machine is no longer under load, the damaged rope may be released and removed. Should this not be possible, return the machine and wire rope to an approved repairer TRACTEL.

14. HEALT AND SAFETY AT WORK

All lifting equipment must be supplied, operated, maintained and tested according to the applicable statutory requirements, and especially to the provisions of the Healt and Safety at Work Act.
It is also the responsability of every company to ensure that their employees have been fully and properly trained in the safe operation of their equipment.

DECLARATION CE OF CONFORMITY

TRACTEL IBÉRICA, S.A.

Ctra. del Medio, 265 · 08907 L'Hospitalet (Barcelona)
Represent by D.

CERTIFY THAT:

The below listed machine has been manufactured according to technical safety regulations, compulsory on the market EUROPEAN UNION on the date of sale by the manufacturer.

STANDARDS APPLIED:

- EUROPEAN DIRECTIVE ..... Nº 2006/42/CE
- EUROPEAN STANDARDS ..... EN ISO 12100-1; EN ISO 12100-2

NAME : JAW OPERATED TRACTION HOIST WITH WIRE ROPE

APLICATION : TRACTION AND LIFTING OF MATERIALS

MARK : TIRFOR

TYPE : ❑ T-7 ❑ T-13 ❑ T-35

SERIAL NUMBER	SIGNATURE

16. HISTORY OF THE DEVICE / LOGBOOK

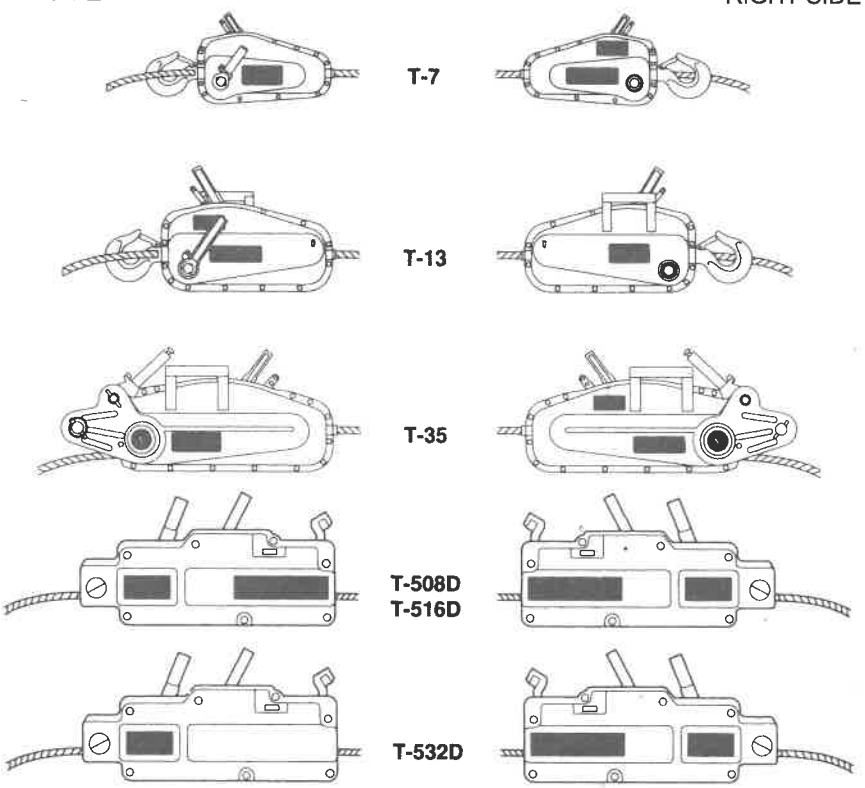
Product Type/Model	Serial Number

User Name	Date of commissioning

CHECKS AND NOTES		
DATE	COMMENTS	VISA

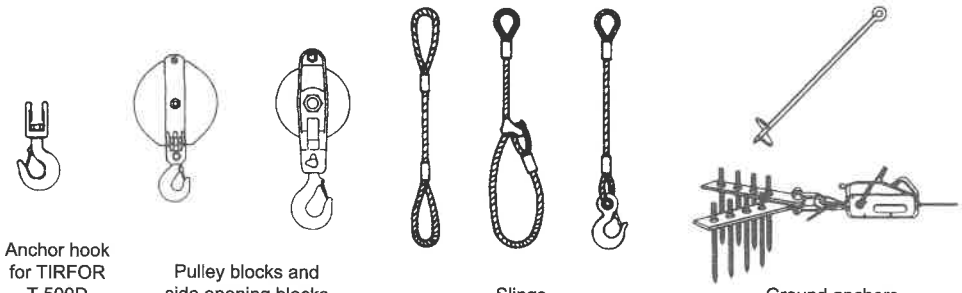
CHECKS AND NOTES		
DATE	COMMENTS	VISA

LEFT SIDE RIGHT SIDE



Ensure that the labels indicated above in black are in place.
Replacement labels can be supplied on request.

Accessories for TIRFOR machines



Anchor hook for TIRFOR T-500D

Pulley blocks and side opening blocks

Slings

Ground anchors