



## TIRFOR / MOTORIZED TIRFOR

wire rope hoists

[www.tractel.com](http://www.tractel.com)

# tirfor®

## wire rope hoists

- **Unlimited length of operation**
- **Gives access to sites with very difficult conditions**
- **Offers varied operating positions: vertical, horizontal, angled and indirect**

The tirfor® lifting and pulling hoists are safe, reliable and efficient. Suitable for many applications, the tirfor® is a lever-operated wire rope hoist using a separate wire rope. One-man operated, using a telescopic operating handle, they can work in any position and over any height of lift. They can replace conventional winches and other hoists for many applications. Best uses are when doing long pulls or when requirements call for increasing capacity.

### MULTIPLE OPERATION

- Works in any position; horizontal, vertical or angled
- Unlimited length of wire rope
- Increase the nominal capacity with multiple sheave blocks
- Long length of wire rope much easier to handle than chain

### SIMPLE

- Fast and easy installation and use
- Simple to install or remove the wire rope
- Continuous operation without jerking
- Reduced maintenance with simple cleaning and regular lubrication
- Change from forward to reverse operation by transferring the operating handle from one lever to another

### HEAVY DUTY

- High mechanical advantage
- Both ranges will operate in the most difficult conditions

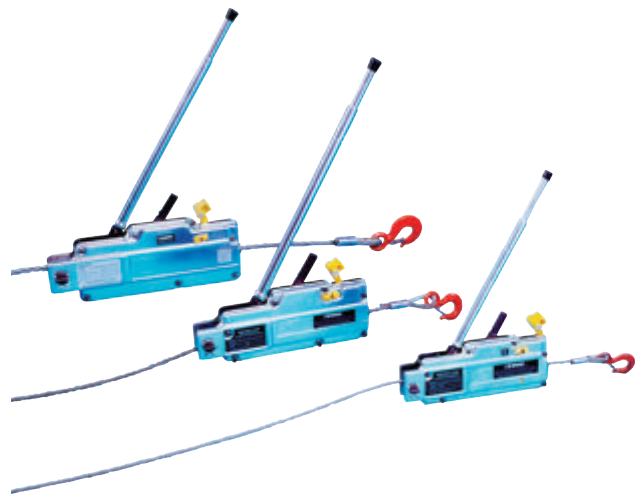
### SAFE AND RELIABLE

- The load is always permanently controlled in the utmost precision: when operation stops, the load is distributed on two jaw blocks
- TU range "UL" classified for man-riding applications for use as a scaffold hoist
- Each hoist is equipped with overload shear pins



### POWERFUL

tirfor® TU machines are in daily operations on construction sites around the world putting power where it is needed for lifting, pulling and handling a wide variety of loads.



### CHOICE

Light and compact, the tirfor® T-500 D machines are easy to handle, provided a high mechanical advantage and are economical.

## wire rope hoists

### CONSTRUCTION, PUBLIC WORKS, CIVIL ENGINEERING

- Moving and positioning formwork horizontally or vertically
- Positioning section or precast concrete beams
- Lifting work platforms or suspended working platforms
- Dragging, general lifting, guying, tensioning, etc.

### BRIDGES

- Positioning formwork
- Guy-wire tensioning
- Pulling pre-cast concrete beams
- Suspending inspection and maintenance platforms

### STEEL STRUCTURES

- Plumbing or aligning steel structures
- Erecting steel silos / structures

### INDUSTRY

- Installation and removal of machine tools and presses
- Loading and unloading of heavy equipment
- Lifting and pulling during maintenance operations

### ESCALATORS, ELEVATORS

- Loading, unloading and rigging of escalators
- Lifting and positioning cars and hoisting mechanisms

### ELECTRICITY AND TELECOMMUNICATIONS

- Positioning transformers
- Erection of mobile aerials and antennas
- Tensioning underground and overhead cables
- Guy rope tensioning operations
- Each hoist is equipped with overload shear pins

### OIL AND CHEMICAL INDUSTRIES

- Controlled positioning and assembly of pipes and ducting
- Tensioning guy ropes for silos and tanks during construction
- Inspection and maintenance work

### ENTERTAINMENT

- Raising and lowering tents
- Tensioning of guy ropes
- TU series are man-riding rated by UL

MODEL	TU8	TU16	TU32	T508D	T516D	T532D
<b>Nominal capacity</b>	800 kgf	1.600 kgf	3.200 kgf	800 kgf	1.600 kgf	3.200 kgf
<b>Unit weight</b>	8.5 kg	18.5 kg	29 kg	7 kg	14 kg	24 kg
<b>Rope travel forward /reverse</b>	70-76 mm	56-70 mm	30-48 mm	46-63 mm	42-57 mm	18-36 mm
<b>Machine dimensions</b>	527 x 285 x 108 mm	660 x 330 x 140 mm	676 x 330 x 156 mm	420 x 250 x 99 mm	523 x 315 x 127 mm	620 x 355 x 130 mm
<b>Handle (closed-ext.)</b>	510-770 mm	680-1.190 mm	680-1.190 mm	400-690 mm	650-1.150 mm	650-1.150 mm
<b>Wire rope dia.</b>	8.3 mm	11.5 mm	16.3 mm	8.3 mm	11.5 mm	16.3 mm
<b>Min. wire rope breaking strength</b>	4.000 kgf	8.000 kgf	16.000 kgf	4.000 kg	8.000 kgf	16.000 kgf
<b>Wire rope weight</b>	0,25 kg/m	0,5 kg/m	1 kg/m	0,25 kg/m	0,5 kg/m	1 kg/m

Capacities shown for material handling only—For man-riding capacities, contact customer service.

# motorized tirfor®

## wire rope hoists

The hydraulic tirfor® hoist with self-reciprocating rams are available in two models:

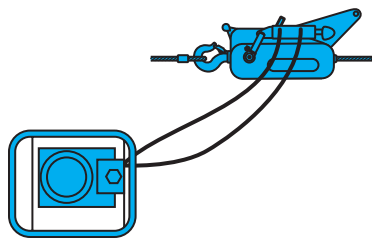
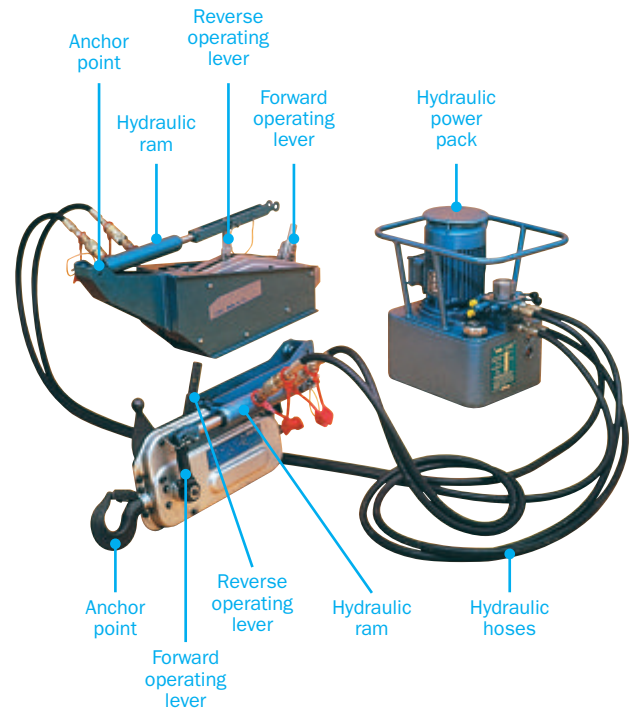
- TU16H with 1,600 kgf material handling capacity
- TU32H with 3,200 kgf material handling capacity

A hydraulic power pack can operate one, two or four hoists from a central location. The power packs are operated by either electric motors or gasoline engines. The speed of operation is controlled using a variable flow control valve.

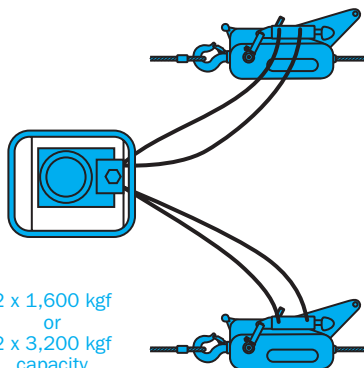
MODEL	TU16H	TU32H
<b>Nominal capacity material handling</b>	1,600 kgf	3,200 kgf
<b>Maximum speed forward/lifting*</b>	37 mm/s	14 mm/s
<b>Maximum speed reverse/lowering*</b>	44 mm/s	25 mm/s
<b>Unit weight with ram</b>	30,4 kg	(56,5 kg
<b>Hydraulic power pack with oil</b>	43 kg	43 kg
<b>Gasoline engine power pack</b>	50 kg	50 kg
<b>tirfor® wire rope**</b>	11.5 mm	16.3 mm
<b>Wire rope construction</b>	5 x 26 XIPS galv.	5 x 31 XIPS galv.

\*Speed for one hoist only at max capacity

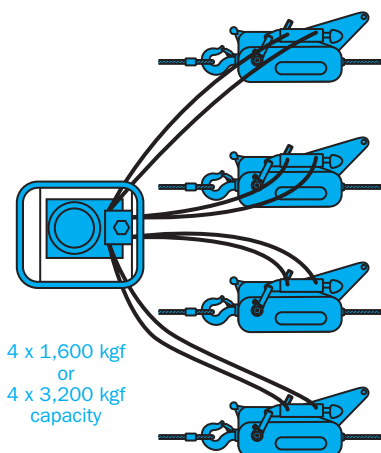
\*\*Wire rope is sold separately



1 x 1,600 kgf  
or  
1 x 3,200 kgf  
capacity



2 x 1,600 kgf  
or  
2 x 3,200 kgf  
capacity



4 x 1,600 kgf  
or  
4 x 3,200 kgf  
capacity



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