

Instructions for Use

Steel Winches

TSW-025 / -050 / -100 / -160 / -200

TSW-025-V / -050-V / -100-V



<u>Item no.</u>	<u>Load-carrying capacity (payload)</u>	<u>Weight</u>	<u>Device measurements H / W / D mm</u>	<u>Lifting clax length</u>	<u>Lifting claw height mm min/max</u>	<u>Crank force with payload</u>
TSW-025	2,5 t	15 kg	735/162/198	345	73/1088	380 N
TSW-050	5,0 t	22 kg	765/188/229	360	83/1125	550 N
TSW-100	10 t	38 kg	770/234/290	320	90/1090	540 N
TSW-160	16 t	65 kg	900/280/315	320	160/1220	730 N
TSW-200	20 t	90 kg	960/325/330	300	150/1260	800 N

Attention !

Every user must read these instructions for use before using the device for the first time.

They are intended for getting to know the hoisting device and taking advantage of its proper applications. These instructions for use have important indications on how to operate the hoisting device safely, properly and economically. Their observance helps to prevent hazards, reduce repair costs and downtime plus increase the reliability and useful life of the hoisting device. These instructions for use should always be available where the hoisting device will be used. Apart from the instructions for use and the obligatory country-specific safety prevention regulations, the recognized rules for safe and professional work must be observed.

Intended use

Maximum load, the payload indicated on the device, may not be exceeded. The load claw may only be loaded with 70% of the indicated payload (Illustration 4).

The device is suitable for hoisting, pulling, supporting and displacing loads. **The device** must always be used in perpendicular position to the direction of the load. Use steel winches only vertically (Illustration 3). **Loads** may not be kept hoisted or tensioned unattended or for longer periods. **The operator** may only start moving the load until he is sure that the load is correctly fastened and there are no persons in the danger zone. It is prohibited to **stand or sit** below a raised load. **When positioning** the device, the operator must be careful to use the hoisting device, suspension element or load in a way that will not endanger him. **The device** can be operated at an ambient temperature of -10°C to +50°C. In extreme situations, the manufacturer should be consulted. **The device** must be placed on a stable and non-slip surface to prevent sinking or slipping. **Attention!** At ambient temperatures below 0°C, check brake for icing! **The accident prevention and safety rules** for manually operated hoisting devices of the country in which the device is used must be strictly observed. **Proper use** also includes – apart from observance of the instructions for use – compliance with the inspection and maintenance conditions.

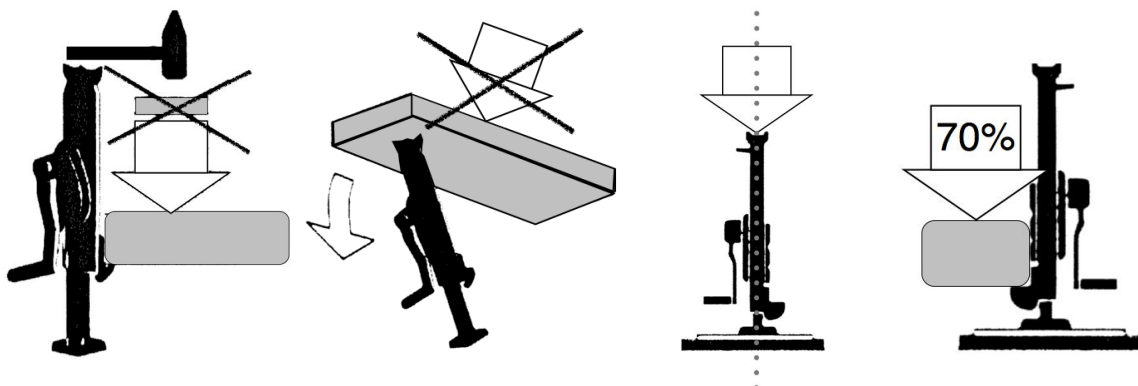
In case of malfunction, the hoisting device must be immediately taken out of service.

Improper use

The indicated payload may not be exceeded. **The use** of the hoisting device for transporting persons is prohibited. **A lever extension** is not permitted. **Welding work** on the device is prohibited. **Diagonal pulling**, i.e. lateral load on the head or claw is prohibited. **The hoisting** of spilled loads or loads freely piled on top of one another is prohibited. If steel winches are **used on vehicles**, for example, the latter must be secured against rolling away. **Working on raised loads** is prohibited; it must be ensured that no vibrations occur (Illustration 1). **The function** of the safety catch may not be blocked.

The brake surfaces must be kept grease-free.

Do not drop the **hoisting device** from a significant height. The device should always be properly laid down on the floor.



Initial operation testing

Before initial use, an expert must subject the device to a test. Possible defects must be corrected at once. This test consists largely of a visual and functional test. You must ensure that the device is in a safe position and defects or damages can be determined and corrected if applicable. Qualified persons can be deemed to be the service staff of the manufacturer or supplier, for example. The operator can also have skilled staff trained specifically for this purpose carry out the test.

Before starting work, the device and its supporting elements and construction must be inspected for obvious defects and malfunctions. Furthermore, the brake and correct placement of the device (including of the load take-up points) must be checked. To do this, lift, lower or unload a load over a short distance and then lower or unload it again. Check the safety catch for perfect functioning. See to it that it is adequately lubricated.

Function

Safetex steel winches have been approved exclusively for – and must be used with – original Safetex parts.

Initial operation

When placing the steel winch on a surface, make sure that the supporting construction has been statically laid out for taking up the corresponding payload.

With model variants with height-adjustable lifting claw, make sure that the safety pins are firmly and safely in place and the lifting claw is safely and firmly engaged in the claw receptacle.

Load hoisting: Push steel winches under the load or place the load on the head **1** or claw **2**. Fold down the handle **4** on the crank **3** so that a right angle is created between handle and crank. Lift the load by turning the crank **3** in clockwise direction. When doing so, the safety catch **5** will automatically engage for load back-up safety.

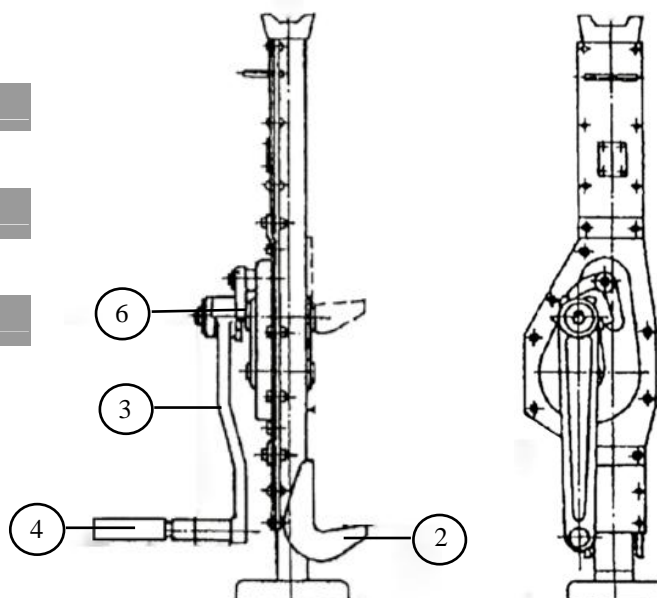
Load lowering: Turn the crank counterclockwise to lower the load.

Attention: Make sure the winch is sufficiently stable.

Carrying capacity according to designation 1:1 (test load 1:1.5).

The accident prevention rules for hoisting devices and the guidelines for load suspension elements must be observed.

1	<u>Head</u>
2	<u>Claw</u>
3	<u>Crank</u>
4	<u>Handle</u>
5	<u>Safety catch</u>
6	<u>Load pressure brake</u>



Inspection-Maintenance

A yearly inspection of the device must be carried out on a regular basis by a qualified individual, who must ensure that device and accessories remain in safe condition. If the device is used with heavy loads, testing should be done in shorter intervals.

Inspections are largely visual and functional tests. The condition of the structural components regarding damage, wear, corrosion or other changes must be assessed, as well as the completeness and effectiveness of the safety devices. To check parts subject to wear and tear, a disassembly may be necessary. For checking the hoisting, pulling and lowering functions, a payload equivalent to the nominal load is generally required. Only authorized specialized shops that use original Safetex spare parts may repair our products.

The operator of the device must order the inspections and record them in the instructions for use

Declaration of conformity – in accordance with guideline 2006/42/EC

It is hereby confirmed that the conception, design and execution of the devices we market described in these instructions for use comply with the pertinent, basic safety and health requirements of EC guideline 2006/42/EC for machinery. If the device is modified or supplemented without our knowledge, this EC declaration of conformity will cease to be valid. This EC declaration of conformity will also cease to be valid if the machine is not used as intended according to the uses indicated in these instructions for use and the tests are not regularly performed.

Standards-Guidelines

EC guideline 2006/42/EC for machines
DIN 7355, EN 349, EN 1494

Final inspection

Type of device TSW-	Series number	Inspector	Date
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Test report / Inspection

Inspection remark	Inspector	Date
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Description

Friction plate brake pad-large

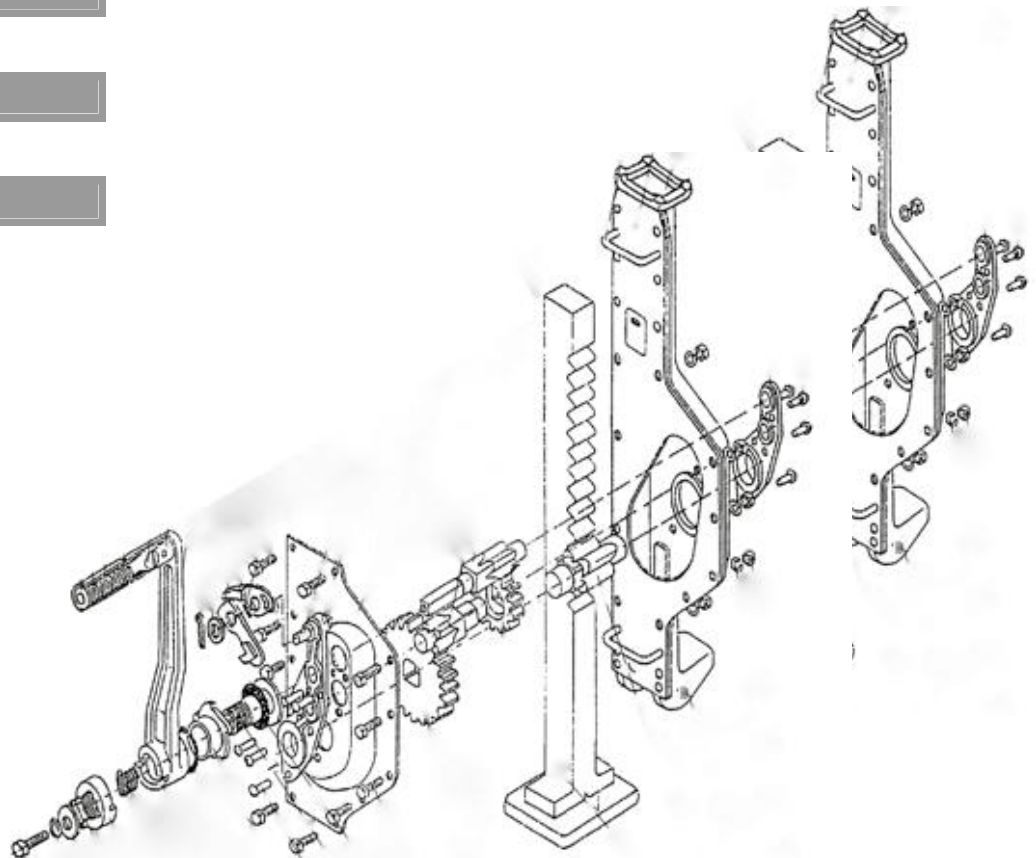
Friction plate brake pad-small

Safety catch set

Crank pinion

Crank toothed gear

Gear rack pinion



Principle sketch

List of spare parts

No.	for TSW-025	for TSW-050	for TSW-100	for TSW-160	for TSW-200
1	TSW-025-ET-RPG	TSW-050-ET-RPG	TSW-100-ET-RPG	TSW-160-ET-RPG	TSW-200-ET-RPG
2	TSW-025-ET-RBK	TSW-050-ET-RPK	TSW-100-ET-RPK	TSW-160-ET-RPK	TSW-200-ET-RPK
3	TSW-025-ET-SKS	TSW-050-ET-SKS	TSW-100-ET-SKS	TSW-160-ET-SKS	TSW-200-ET-SKS
4	TSW-025-ET-KR	TSW-050-ET-KR	TSW-100-ET-KR	TSW-160-ET-KR	TSW-200-ET-KR
5	TSW-025-ET-KZ	TSW-050-ET-KZ	TSW-100-ET-KZ	TSW-160-ET-KZ	TSW-200-ET-KZ
6	TSW-025-ET-ZR	TSW-050-ET-ZR	TSW-100-ET-ZR	TSW-160-ET-ZR	TSW-200-ET-ZR



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