

**Order from Allstrap 866-779-2673**

## **Instruction manual**



## **HKE heavy duty**

**223 600200**

**Combined strapping tool  
for steel strap**

### **Important!**

Do not dispose of this manual. It is the customer's responsibility to ensure that all operators and servicemen read and understand this manual.

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## 2. General information

These operating instructions are intended to simplify familiarisation with the strapping tool and the possibilities of application for the intended purpose.

**The operating instructions contain important information concerning the safe, proper and efficient use of the strapping tool.**

Following the instructions helps avoid risks, reduces repairs and downtimes and increases reliability and life of the unit.

The operating instructions must always be available at the place of operation of the strapping tool. They must be read and observed by persons concerned with work on the strapping tool. This work specifically includes operation, refilling of operating material, fault elimination and maintenance.

In addition to the operating instructions and the regulations for accident prevention effective in the country of use and place of application, the recognised technical regulations for safety and proper working must also be observed.

Explanatory notes on the warning and instruction symbols:



### **CAUTION!**

Used where there is danger to life and health.



### **WARNING!**

Used for danger this can cause Material damage.



### **NOTE!**

Used for general information and information which if not followed can cause faults in the operating sequence.

### 2.1. Information on environmental protection



This tool is manufactured without any physical or chemical substances which could be dangerous to health. For disposal of all the parts, the governmental instructions must be observed.

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## 3. Technical data

- Weight: 4,2 kg
- Dimensions: L = 570 mm  
W = 130 mm  
H = 190 mm
- Tensioning capacity: up to approx. 6000 N
- Joint: No-seal-joint

### Steel strap

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- Strap widths: 19 mm
- Regular duty**
- Strap thickness: 0,6–0,8 mm
  - Tensile strength: up to approx. 900 N/mm<sup>2</sup>
- High tensile**
- Strap thickness: 0,6–0,8 mm
  - Tensile strength: up to approx. 1100 N/mm<sup>2</sup>

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## 4. Safety instructions

### Use for the intended purpose

The tool is intended for strapping packages, pallet loads etc.

This tool was designed and manufactured for safe handling during the strapping operation.

The tool processes steel straps only.

### Possible misuse

**Strapping material must not be used for hoisting of loads;** this strapping Tool may only be used as intended and specified above.

The use of plastic straps is not possible.

### Standards applied and technical specifications:

see declaration of conformity of the machinery

### Warranty and liability

**TITAN GmbH & Co. KG grants a guarantee of six (6) months for all strapping units sold by it. Such guarantee covers all defects of which evidence can be given that they result from faulty manufacture or material defects.**

ⓘ **Wearing parts are excluded from the guarantee.**

Warranty and liability claims are excluded, if they result from one or several of the following causes:

- ⓘ Unintended use of the unit.
- ⓘ Incompetent mounting, commissioning, operation and maintenance of the unit.
- ⓘ Operating the unit with improper safety and protective installations.
- ⓘ Disregard of the instructions in these operating instructions.
- ⓘ Unauthorized structural alterations to the unit.
- ⓘ Faulty monitoring of unit components subjected to wear.
- ⓘ Incompetently performed repair works.

Alterations to the scope of supply with the aim to improve the product without notice.

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Failure to comply with the following safety instructions, in addition to errors in handling the tool, can result in serious injuries.



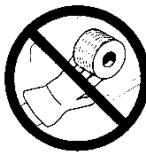
## Inform yourself!

Read the operating instructions carefully.



## Protect yourself!

When operating the tool, wear eye, face and hand protection (cut-proof gloves).



## Caution!

### Danger of squeezing!

Do not put your fingers into the tension wheel area.



## Caution!

### Only strap packed goods!

Do not put hands or other parts of the body between the strap and the package during the strapping process.



## Original TITAN spare parts must be used exclusively!

Use of spare parts which are not manufactured by TITAN voids any warranty claims!



## Warning!

### Strap will snap forward!

When cutting the strap, hold the upper portion and stand safely away from the strap.

## Caution!

The lower strap will snap forward.



## Warning!

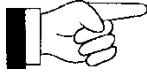
### Strap could break!

Do not stand in line with the strap while it is tensioned. The strap could break!

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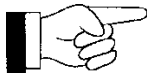


The use of band which is not recommended may result in tears during the tensioning and bad sealing qualities. Only use the relevant **TITAN quality products!**



## **Working place**

Keep your working place tidy. Disorder at the working place may lead to the risk of accidents. During strapping operations pay attention that you stand safely and have a problem-free balance to prevent the risk of falling. Never operate the unit at an unfavourable working position!



## **Maintenance of the unit**

Just a unit being problem-free is a safe unit. Regularly check the state of your unit for defective or worn parts. Never operate a unit which has defective or worn parts. Alterations to units are strictly forbidden. Disregarding this requirement may result in serious injuries.

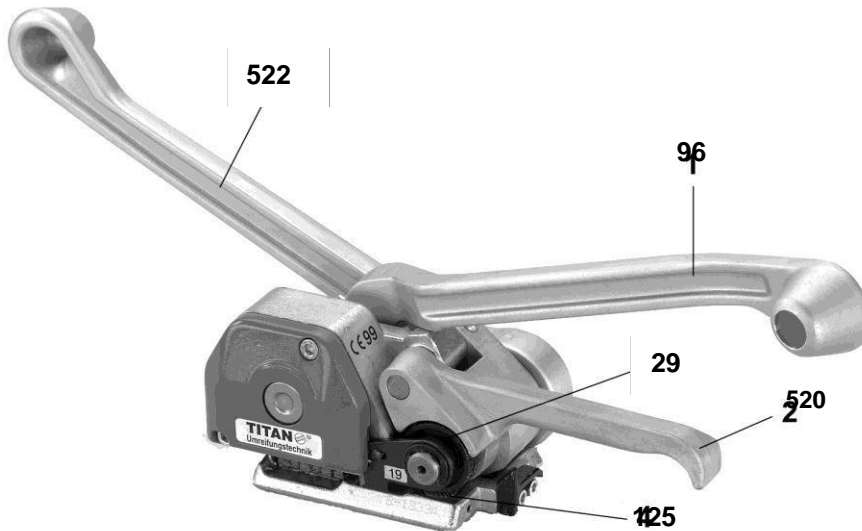


This unit may only be operated by staff having been instructed as to the handling of the unit. In case of questions do not hesitate to contact the **TITAN packing consultant.**





## 5. Description

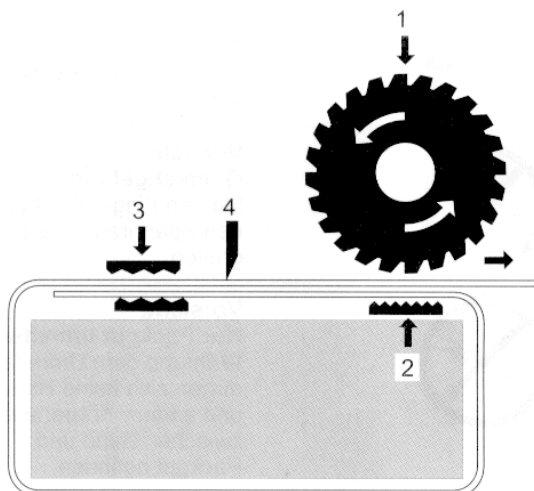
### 5.1. Design

96	Cutting lever
520	Rocker compl.
29	Tension wheel
125	Gripper plate
522	Tension lever compl.



### 5.2. Function

-  Strap clamped by pressure on gripper plate 1/2
-  Tensioning by turning feed wheel 1
-  Sealing by punching the strap 3
-  Cutting the strap with cutter 4



**Attention!**

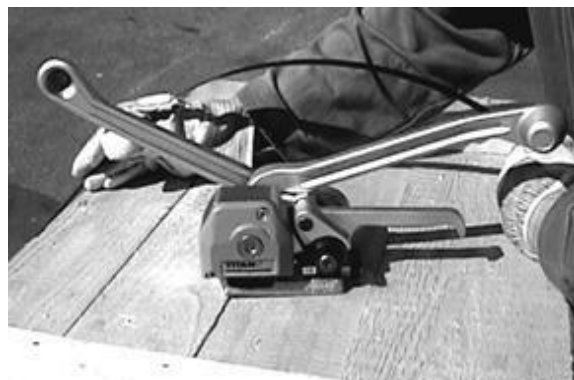
When changing the feed wheel strictly observe the moving direction!

Arrow →

## 6. Operating instructions

### 6.1. Operating the tool

Place TITAN steel strap from above around the package.



Pull through the strap end until is in the center of the package beneath the upper run of strap and juts out approx. 15 cm.



With the left hand hold the upper and lower run of the strap together. Both straps must be placed exactly on top of one another. Grip and press rocker **520** together with the cutting lever **96** with the right hand. Insert the steel strap laterally until it strikes against the case wall, ensuring that the lower run of strap projects slightly out of the tool at the front. The right hand now releases the levers which have been pressed together.



If the straps are not inserted correctly in the tool, it is not possible to perform the tensioning operation.



If necessary, tighten the great strap loop: The left hand pulls the strap loop, the right hand grasps the lifting Rocker **520**.



The right hand grasps the tension lever **522** and moves it back and forth to obtain the desired strap tension. At the same time the left hand holds the cutting lever **96**.



After having reached the desired strap tension bring tension lever **522** back into its initial position. The right hand remains there and provides support for the joining process. The TITAN "No-seal" joint is formed by pushing the cutting lever **96** forwards rapidly with the left hand until it strikes against the case; the steel strap is simultaneously cut off directly behind the joint.









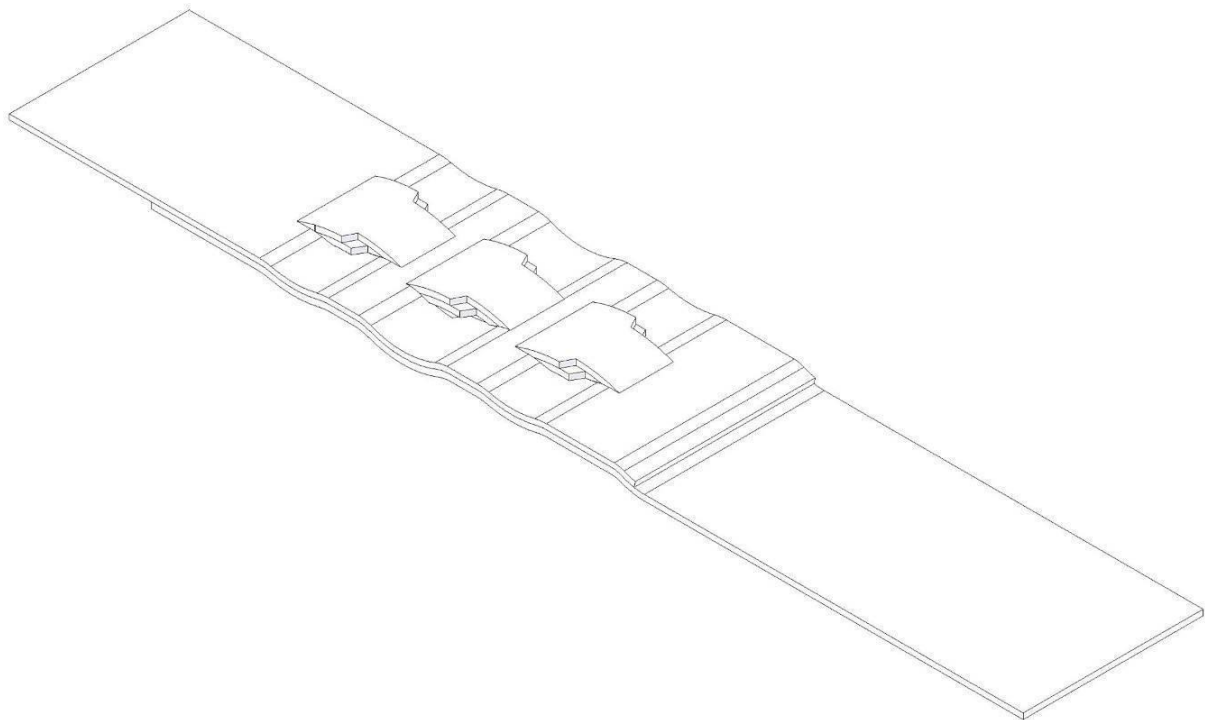
Bring tension lever **522** back into its initial position. Grasp and press together rocker **520** with cutting lever **96**. Withdraw the tool from the package by a rotary movement to the right side.



The following picture shows a correctly carved seal.

**Check the seals regular**

-  for even carved cuttings,
-  for neat cutting edges,
-  for that the lower run of strap is soaked in the cuttings,
-  for correct adjustment of the cutter,
-  for a sufficient overlap of the lower run of strap and
-  for that the seal is placed in the center of the strap.

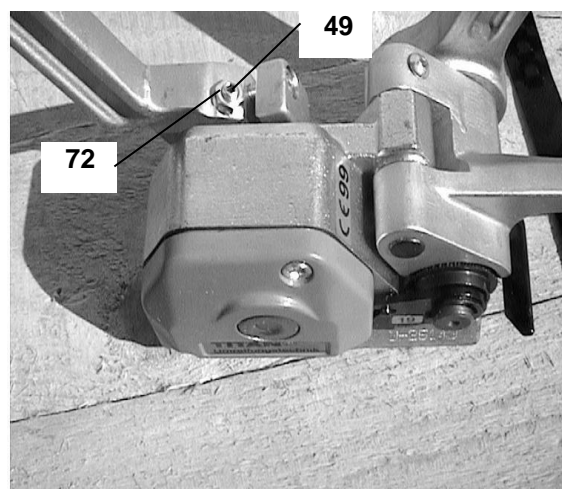


## 7. Adjustments

### 7.1. Cutter adjustment

The cutter has been adjusted for the respective thickness in the case of varying strap thicknesses.

Release hexagon nut **72**. Turn thread pin **49** (set screw with flat point) by means of a socket spanner in a clockwise direction = less cutting depth; counter-clockwise = greater cutting depth. Fasten hexagon nut **72** after adjustment has been completed.



**Note!**

After adjustment there should not be any, or very few, signs of cutting on the lower strap.

### 7.2. Distance between the feed wheel and the gripper plate

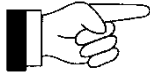
The distance between the feed wheel **29** and the gripper plate **125** is adjusted to **0,2 mm**. The adjusting screw **120** is located in the rocker **520**. Unscrew the hexagon nut **121** using the 10 mm open-jawed spanner and adjust a **0,2 mm** gap at the adjusting screw **120**. Fasten lock nut after adjustment has been completed and fix plastic cover.








**Note!**

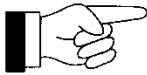
The feed wheel and the gripper plate may not come into contact with each other, otherwise both parts will be subject to premature wear.

## 8. Cleaning the tool



Soil and debris hamper the proper functioning of the tool. For this reason, the following areas should be cleaned **once a week** (blow off using compressed air if possible):

-  insertion slot,
  -  cavities between the upper and lower jaws,
  -  tensioning wheel
  -  gripper plate.
- 
-  Lubricate with fine conventional spray oil afterwards.



For health reasons please do not use any cleaning agents which contain solvents!

### Tool inspection!

Perform a **daily** visual inspection of the outside of the unit. The early detection of damaged parts extends the life of the unit. Replace all damaged parts **immediately** with Original TITAN spare parts.

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## 9. Declaration of conformity of the machinery

### EC declaration of conformity of the machinery

in terms of the directive 2006/42/EC on machinery, Annex II A

The manufacturer

TITAN Umreifungstechnik GmbH & Co.KG  
Berliner Straße 51-55  
58332 Schwelm

herewith declares that the combined strapping tool for steel strap described below

Type designation: HKE heavy duty  
Serial number: 223 600200

**corresponds to the provisions of the following EC directive:**

Machine directions 2006/42/EG

**Used harmonised standards, published in the official journal of the EU:**

- EN ISO 12100-1: 2004*, Safety of machinery – Basic concepts, general principles for design - Part 1: Basic terminology, methodology
- EN ISO 12100-2: 2004*, Safety of machinery – Basic concepts, general principles for design - Part 2: Technical principles and specifications
- EN 1010-1:2005* Safety of machinery – Safety requirements for the design and construction of printing and paper processing machines - Part 1: General requirements (Final concept 02/2003)
- EN 1010-3: 2002*, Safety of machinery - Safety requirements for the design and construction of printing and paper processing machines - Part 3: Cutting machines

**A non-approved modification of the machinery implicates the loss of validity of this declaration.**

Authorized representative for the compilation of the technical documentation:

**TITAN Umreifungstechnik GmbH & Co. KG**  
**Berliner Strasse 51-55**  
**58332 Schwelm**

Schwelm, the 26.01.2010



Peter Wilhelm Lenzen jr.  
President

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