

Order from Allstrap 866-779-2673

Instruction manual

HPE - L

224 000200



**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.

TITAN 
Wir halten zusammen

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2. General

These operating instructions are meant to facilitate acquaintance with the unit and its intended use. They include important information on how the unit can be applied safely, as intended and economically. Meeting instructions helps avoid risks, reduce repairs and downtimes as well as increase the reliability and life of the unit.

The operating instructions must be available at the location where the unit is used. They must be read and applied by all persons working with the unit. Such works especially include operation, troubleshooting and maintenance.

Apart from the operating instructions and regulations for the prevention of accidents applicable in the operator's country and at the place of erection; further, the acknowledged technical rules for safety-related and competent work have to be observed.

Explanatory notes on the warning and instruction symbols:



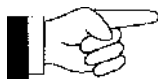
Caution!

Is used in case of risks to life and health.



Attention!

Is used in case of risks which may cause damage to objects.



Notice!

Is used for general information and notes, whose disregard may lead to faults in the course of operations.

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2.1. Intended use

- ⓘ Proper use of this semi-pneumatic tool includes bundling, collecting and securing by means of strapping using steel straps. Packed goods such as section steel, packages of stone, paper, timber, etc. are suitable application examples.
- ⓘ **Unintended use!**
Strapping material must not be used for the hoisting of loads, this strapping tool may only be used as intended and specified above.

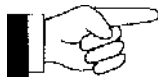
2.2. Tool description

- ⓘ The TITAN HPE combines modern TITAN No-Seal-Joint technology with the advantages of power-saving pneumatics.
- ⓘ The HPE is based on the tried and tested HKE manual strapping tool with the specially patented locking mechanism developed by TITAN. It reduces the force required and, compared to conventional tools, prolongs the service life of those parts which are subjected to mechanical stress.
- ⓘ It has a suspension facility (snap hook) which makes weightless strapping possible.
- ⓘ The TITAN HPE strapping tool satisfies German and European safety requirements and complies with the provisions of the following **EU Guidelines**:

See declaration of conformity of the machinery
- ⓘ **Standards applied and technical specifications:**

See declaration of conformity of the machinery

2.3. Instructions on environmental Protection Notice



No hazardous physical or chemical substances are used in the manufacture of the devices. Comply with the applicable regulations for disposal.

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3. Technical data

- ⓘ **Operating pressure:** max. 6 bar flow pressure
- ⓘ **Tensioning strength:** max. 7000 N
- ⓘ **Feed speed:** 150 mm/sec
- ⓘ **Air consumption:** 0.36 m³/ min
- ⓘ **Strap qualities:** Automaten-, Megaflex- and Megaband with blue, lacquered and zinc-dust coated surfaces
- ⓘ **Strap thickness:** 0.5 to 0,8 mm for Automaten- and Megaflex Band;
0.5 to 0.63 mm for Mega-Band
- ⓘ **Strap widths:** 13, 16 and 19 mm
- ⓘ **Noise level:** 78 dB (A)
- ⓘ **Vibrations:** < 2,5 m/s²
- ⓘ **Dimensions:** L = 360 mm
W = 160 mm
H = 160 mm
- ⓘ **Weight:** 5.5 kg

4. Safety regulations

Intended Use

Proper use of this pneumatic tool includes bundling, collecting and securing by means of strapping using still straps. Packed goods such as section steel, packages of stone, paper, timber, etc. are suitable application examples.

The device was designed and built for safe operation during strapping.

The device is intended for strapping with steel packaging straps.

Possible misuse








The use of plastic straps is not allowed with this device.

Warranty and liability

TITAN Umreifungstechnik GmbH & Co. KG guarantees all strapping tools sold by the company for a period of 6 months. The warranty covers all defects that can be demonstrated to result from faulty craftsmanship or defective materials.

Wear parts are excluded from the warranty.

Warranty and liability claims shall be excluded if they are due to one or more of the following causes:

-  Misuse of the tool.
-  Incorrect assembly, commissioning, operation and maintenance of the tool.
-  Operation of the tool with improper safety and protective devices.
-  Failure to comply with the information in the operating manual.
-  Unauthorized structural modifications to the tool.
-  Insufficient monitoring of tool parts that are subject to wear.
-  Improper repairs.

The manufacturer reserves the right to make changes to the scope of delivery at any time for the purpose of improving the product.

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



Be informed!

Read the operating manual carefully before using the device.



Protect yourself!

Always wear eye, face and hand protection (cut-resistant gloves) when working.



Attention! Strap flies outward!

When cutting the strap, hold the top part firmly and stand to the side.

Attention!

The lower part of the strap will fly outward.



Attention! Strap can break!

The strap can break during tightening! Do not stand in the path of the strap. Make sure that no one else is in the working area.



Caution! Danger of crushing!

Do not insert fingers into the pulley area.



Caution! Strap only objects to be packed!

Make sure that no hands or other body parts are between the strap and the goods to be packaged.



Use only original TITAN replacement parts!

The use of parts other than original TITAN replacement parts will void the warranty and all liability.



Use only lifting gear that complies with the safety regulations!

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Do not exceed air pressure!

Never exceed the max. permissible air pressure of 6.0 bar.



Do not use gas or compressed air cylinders!

Do not connect the tool to a gas or compressed air cylinder.



The use of straps other than those recommended can result in broken straps during the tightening process and insufficient strapping.

Use only corresponding **quality products from TITAN!**



This device may be operated only by personnel who have been trained accordingly. Please consult your **TITAN packing consultant** if you have any questions about this.



Workplace

Always maintain an orderly workplace. A disorderly workplace can cause accidents. When operating the crimper, make sure that you are in a well-braced position in order to maintain optimum balance and prevent the risk of falling.

Never operate the tool in an awkward working position!



Maintenance

In order to operate safely, the tool must be properly maintained. Check the condition of your tool regularly for defects or worn parts. Never use a tool that has defects or worn parts. Modifications to the tool are strictly prohibited. Failure to comply with this regulation can result in serious injury.

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5. Putting into service

Connect the **HPE** strapping tool to the compressed air supply by means of the quick-action coupling mechanism which is supplied. Maximum air pressure (see technical data).

Important: This tool may only be operated together with a compressed air maintenance unit consisting of a pressure reducer, water separator and lubricator. It cleans the compressed air, removes condensation and constantly supplies the motor with the required quantity of oil. The lubricator is adjusted at the top by means of a screwdriver in such a way that a drop of oil falls into the sight glass for each strapping. Rotation in a clockwise direction should result in less oil, and in the opposite direction more. Maximum hose length between the maintenance unit and the strapping tool: **5 m**.



In no case it is allowed to run the tool without oil being in the lubricator of the maintenance unit, as this would immediately destroy the compressed air motor. No warranty in that case.

The compressed air motor may be driven during the entire operation with filtered and lubricated compressed air. In terms of quantity approximately 3 - 5 drops are required per 1 m³ air; this corresponds to 0.12 - 0.2 g/m³. Unalloyed mineral oil should be primarily used as a lubricating oil. It should have a low viscosity and be free of resin and acids. A viscosity of 2 - 4° E at 50° (12-30cSt) has been proven to be suitable (see viscosity table for other temperature ranges). Permissible motor temperatures are from -30 to +100° C.

However, for ambient temperatures of under +5° C there is a risk of icing. In this case it is recommended that dry air or corresponding lubricants which are resistant to icing be used (e.g. "Killfrost Anti-Eis").

Caution! Wear respiratory equipment when antifreeze agents are used.

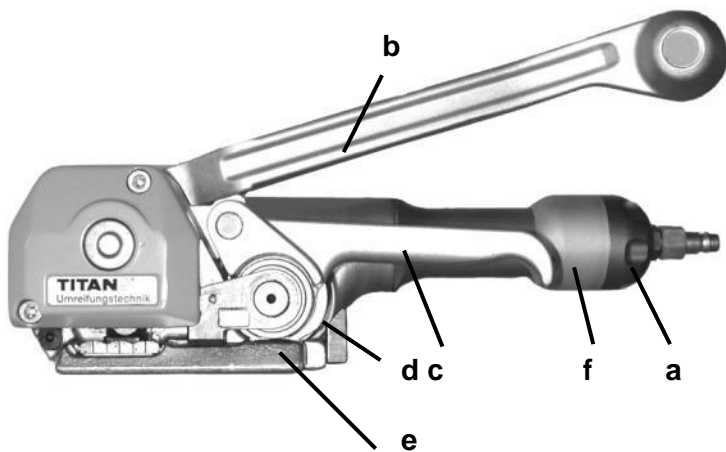
The following oils may be used:

Esso	D 32	-10°	to	+30°C
	D 100	+25°		+55°
	CL 320	+45°		+75°
DEA	Aries 32	-25°	to	+20°C
	Aries 100	0°		+50°
Shell	Tonna R 32	-10°	to	+30°C
	Tonna R 100	+25°		+55°
Mobil	Almo 525	-20°	to	+20°C
	Almo 527	0°		+30°
	Almo 528		above	+15°

The tool may be put into operation after connection to the compressed air supply and the maintenance unit is adjusted.

6. Operating instructions

6.1. Design



a = turning valve
b = cutting lever
c = lifting lever
d = feed wheel
e = gripper plate
f = compressed
air motor

6.2. Operating the unit

1. Place **TITAN** steel strap around the packing unit from above.



2. Pull strap end through until it is located in the middle of the packing unit below the upper strap and projects by a hand span.



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3. Hold both of the precisely overlapping straps firmly using your left hand. Using your right hand takes hold of the lifting lever **(c)** and cutting lever **(b)** and press together. Push both straps laterally along the housing wall into the tool as far as possible. A bit of the lower strap has to project out of the front of the tool. Release the levers **(c)** and **(b)**.



4. Using your right hand turn the ring of the turning valve **(a)** to the left, to the limit. The motor starts to run and tensions the strap. After reaching the desired strap tension release the ring. The turning valve closes automatically, the motor is stopped. (The strap tension is maintained by a free-wheeling mechanism.)



5. The right hand takes hold of the compressed air motor **(f)**, the left hand grasps the cutting lever **(b)** and pushes it rapidly forward up to the stop at the housing. Thus, the TITAN "no-seal-joint" is formed. At the same time the steel strap is cut off directly behind the joint.



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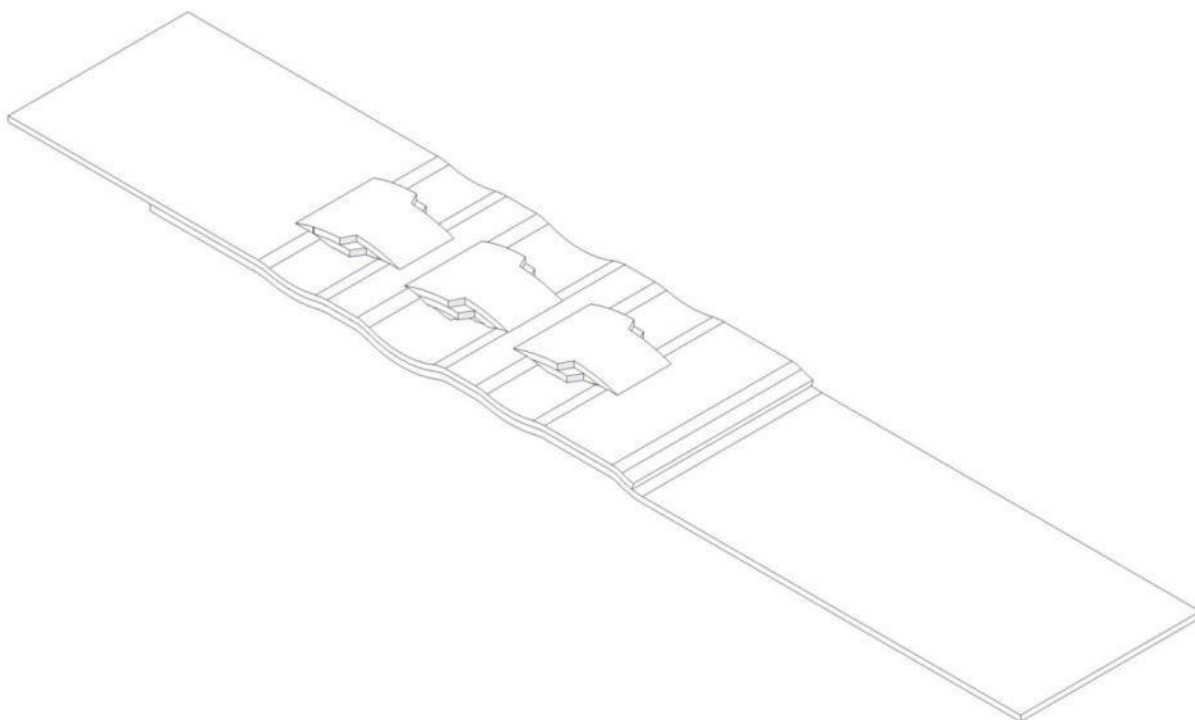
6. Bring cutting lever **(b)** back into its initial position and take hold of the cut off strap end with your left hand. Lift the compressed air motor **(f)** up to the limit and swing the tool to the right out of the strapping.



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 centre of the strap.

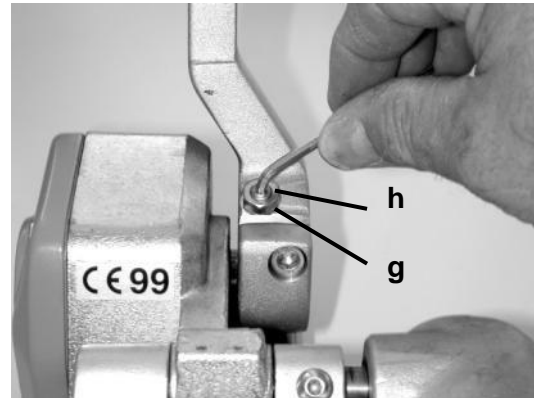


7. Adjustments

7.1. Cutter adjustment

The cutter has to be adjusted for the respective thickness in the case of varying strap thickness.

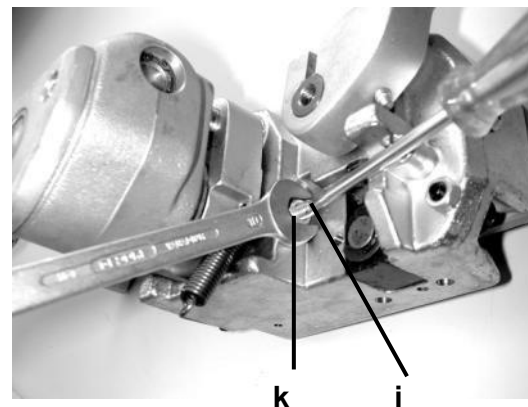
Loosen locking screw **(g)**. Turn stop screw (set screw with flat point) **(h)** by means of a Socket spanner in a clockwise direction = less cutting depth; counter-clockwise = greater cutting depth. Fasten locking screw **(g)** after adjustment has been completed.



After adjusting 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 **(d)** and the gripper plate **(e)** is adjusted to **0.2 mm**. The adjusting screw **(i)** is located behind the plastic cover of the housing. Unscrew the lock nut **(k)** using the 10 mm open-jawed spanner and adjust a **0.2 mm** gap at the adjusting screw **(i)**. Fasten lock nut after adjustment has been completed and fix plastic cover.



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

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7.1. Adjusting strap width

The strap guide (**n**) located next to the feed wheel is replaced when the strap width is modified. In order to do so the safety ring has to be removed by means of a screwdriver and the lifting lever (**c**) and the cutting lever (**b**) pressed together. The strap guide may now be pulled off toward the front and be replaced with the strap guide for other strap widths. Replace safety ring afterwards.

Strap width 13 mm, order no. 2240001-500

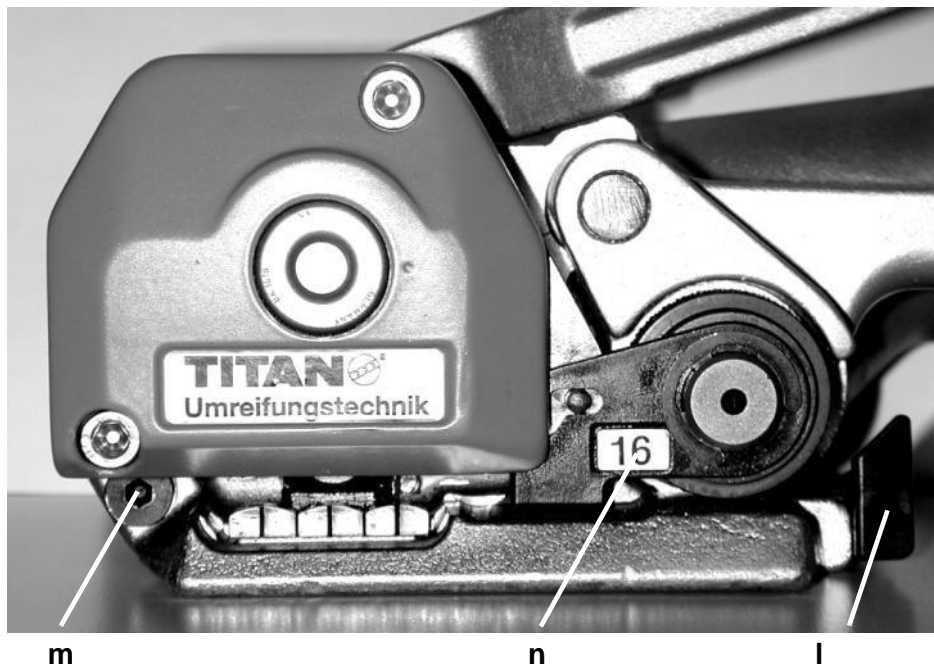
Strap width 16 mm, order no. 2240001-501

Strap width 19 mm, order no. 2240001-502

Since the strap is guided at three points in the tool the rear strap guide (**l**) and the adjusting screw (**m**) also have to be set in such a way that the punching is placed at the centre of the strap.

In order to do this, loosen the two fastening screws for the rear strap guide and the lock nut of the adjusting screw. The lock nut is located behind the plastic cover of the housing. Tighten lock nut and fastening screws after adjustment has been completed.





Adjustment can be made easier by using a setting gauge or two strips of the strap inserted into the HPE.



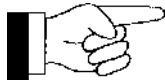
8. Maintenance

8.1. Cleaning and maintenance of the unit

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 knives,
-  tensioning wheel,
-  gripper plate

Lubricate with fine conventional spray oil afterwards.



Do not use any solvent containing cleaning agents for reasons of health.

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. EC 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: HPE-L
Serial number: 224 000200

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:

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Schwelm, the 26.01.2010



Peter Wilhelm Lenzen jr.
President

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