

Betriebsanleitung

-Originalbetriebsanleitung-

Instruction manual

-Translation of the original instructions-

Notice d'instructions

-Traduction de la notice originale-



HKE-L

223 000200

**Kombiniertes Umreifungsgerät
für Stahlband**

**Combined strapping tool for
steel strap**

**Appareil de cerclage combiné
pour feillard d'acier**

Wichtig!

Bitte diese Anleitung nicht wegwerfen. Der Kunde verpflichtet sich, diese Betriebsanleitung allen Bedienungs- und Servicepersonen verständlich zu machen.

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.

Important!

Ne jetez pas ce manuel. Il est de la responsabilité du client de s'assurer que tous les opérateurs et techniciens d'entretien lisent et comprennent le contenu de ce manuel.

TITAN 
Wir halten zusammen

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2. General information

**Many thanks for your confidence in the technology of
TITAN Umreifungstechnik GmbH & Co. KG**

These operating instructions are intended to simplify familiarisation with the **HKE-L** 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 recognized 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.



Attention!

Used for danger which cause material damage.



Note!

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

**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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2.1. Intended use

- ⓘ This tool is made for strapping packages, pallet loads etc. The tool is designed and manufactured for safe handling during the strapping operation.

This tool is intended for strapping with steel strap material.

- ⓘ **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.

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

- ⓘ The strapping tool **HKE-L** complies with the German and European safety standards and is in accordance with **EU Guidelines:** see Declaration of conformity of the machinery.
- ⓘ **Standards applied and technical specifications:**
See Declaration of conformity of the machinery.

2.2. Warranty & 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.

2.3. 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.

3. Safety instructions

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.



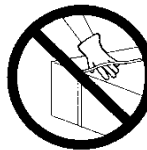
Caution: Danger of crushing!

Do not insert fingers into the pulley area.



Protect yourself!

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



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.



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.



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.



Use only original TITAN replacement parts!

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



The use of straps other than recommended can result in broken straps during the tightening process and insufficient strapping. **Use only corresponding quality products from TITAN!**

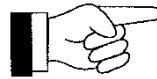


This tool may be operated only by personnel who have been trained accordingly. Please consult your **TITAN packaging consultant** if you have any questions about this.



Workplace!

Always maintain an orderly workplace. A disorderly workplace can cause accidents. When operating the crimper, make sure that you're 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.

4. Technical data

- ⓘ **Joint:** No seal joint

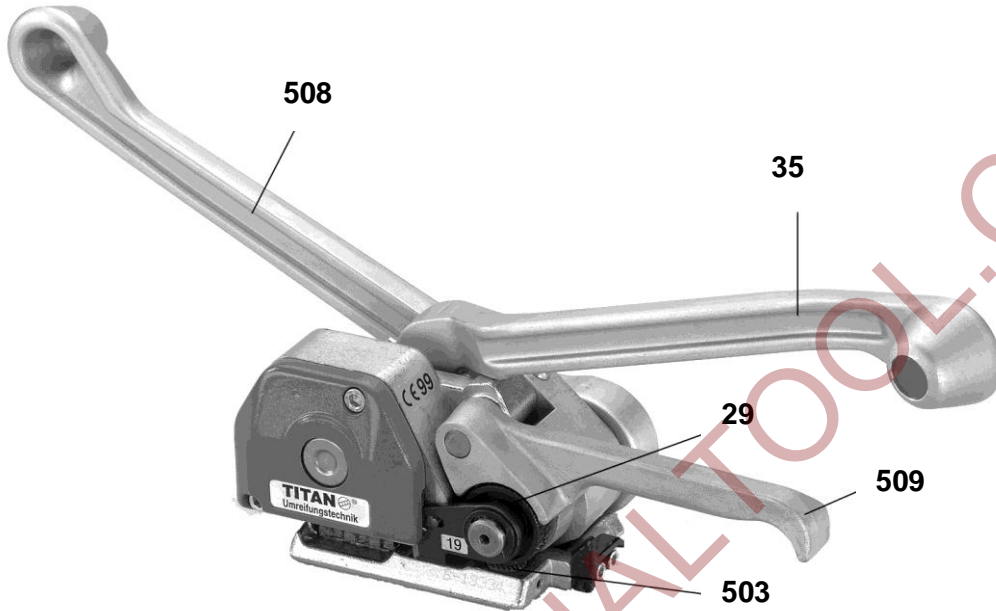
- ⓘ **Tension force:** up to approx. 6.000 N

- ⓘ **Weight:** 3.2 kg
- ⓘ **Dimension:** L = 475 mm
 B = 115 mm
 H = 190 mm

| Steel strap for strap width 13, 16, 19 mm | Standard quality (Automatenband) | High quality (Megaband) |
|--|-------------------------------------|---------------------------------------|
| Strap thickness | 0.4 – 0.6 mm | 0.4 – 0.63 mm |
| Tensile strength | up to approx. 900 N/mm ² | up to approx. 1.100 N/mm ² |

5. Description





5.1. Design

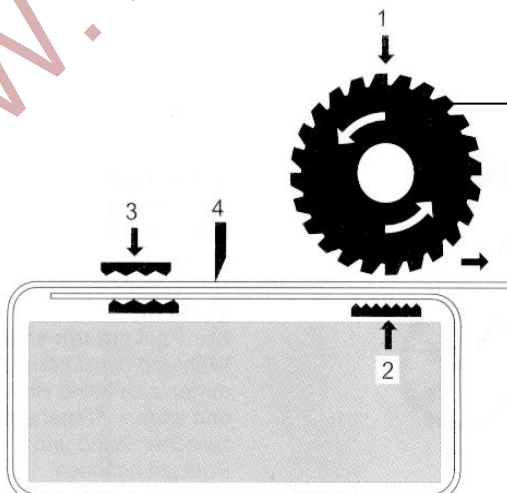


29 = Tension wheel
35 = Cutting lever

503 = Gripper plate
508 = Tension lever complete
509 = Rocker complete

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

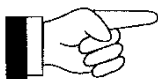
1. **TITAN** steel strap around package from top. Pull end of strap until it is positioned in the middle of the package below the upper strap.



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



3. 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 **509** together with the cutting lever **35** 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.

4. If necessary, tighten the great strap loop. The left hand pulls the strap loop, the right hand grasps the lifting Rocker **509**.



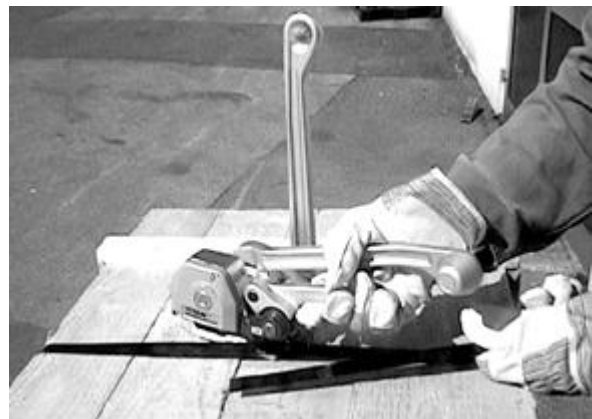
5. The right hand grasps the tension lever **508** and moves it back and forth to obtain the desired strap tension. At the same time the left hand holds the cutting lever **35**.



6. After having reached the desired strap tension bring tension lever **508** 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 **35** forwards rapidly with the left hand until it strikes against the case; the steel strap is simultaneously cut off directly behind the joint.



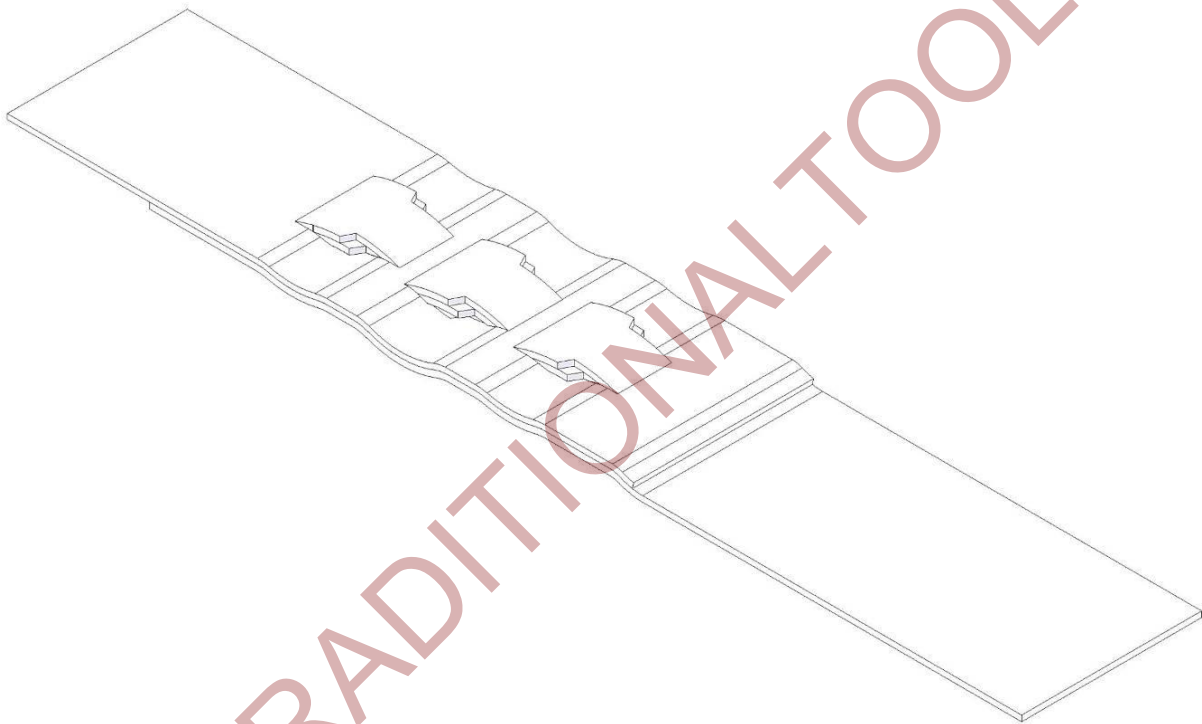
7. Bring tension lever **508** back into its initial position. Grasp and press together rocker **509** with cutting lever **35**. Withdraw the tool from the package by a rotary movement to the right side.



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 centre of the strap.



7. Adjustments

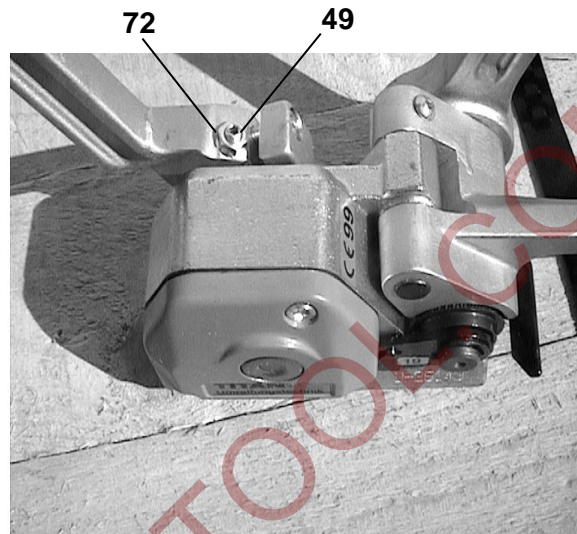
7.1. Cutter adjustment

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

Release hexagon nut **72**, turn set screw **49** (thread pin with flat point) by means of a screwdriver,

clockwise = less cutting depth

counter clockwise = greater cutting depth



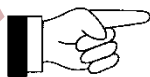
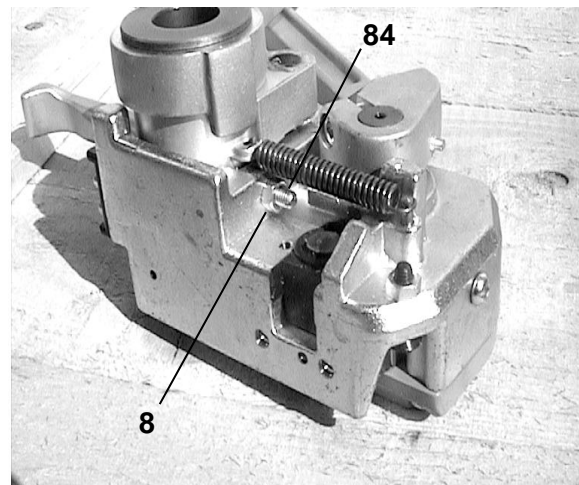
Fasten hexagon nut **72** after adjustment has been completed.



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

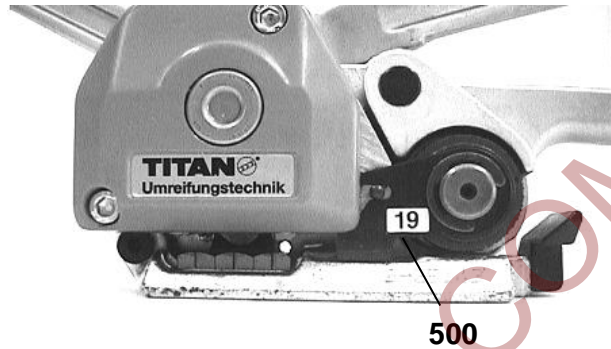
The distance between the feed wheel **29** and the gripper plate **503** is adjusted to **0.2 mm**. The adjusting screw **84** is located behind the plastic cover of the housing. Unscrew the hexagon nut **8** using the 10 mm open-jawed spanner and adjust a **0.2 mm** gap at the adjusting screw **84**.



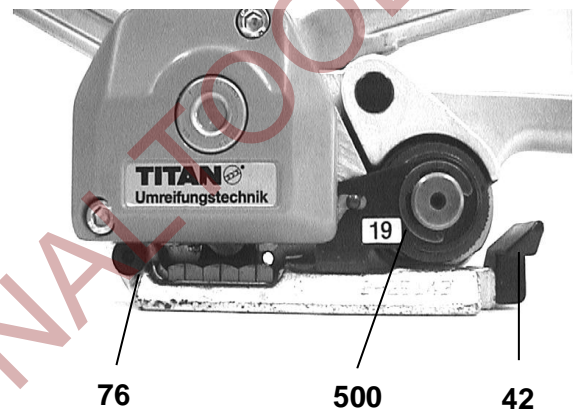
Note! The feed wheel and the gripper plate may not come into contact with each other. Otherwise both parts will be subject to premature wear.

7.3. Adjusting strap width

The strap guide **500** 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 rocker **509** and the cutting lever **35** pressed together. The strap guide may now be pulled off towards the front and be replaced with the strap guide for other strap widths. Replace safety ring afterwards.



Since the strap is guided at three points in the tool the rear strap guide **42** and the strap guide front **76** 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 **42** and adjust the strap guide to the respective strap width.

- Left** = 13mm
- Middle** = 16mm
- Right** = 19mm

Fasten screws afterwards.

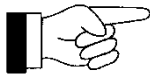
Also loosen the cap screw at the front strap guide **76** and place the corresponding number of washers DIN 125-6.4 under the strap guide:

- 13 mm band width** = 2 washers
- 16 mm band width** = 1 washer
- 19 mm band width** = no washer





Fasten cap screw again after adjustment.

8. Maintenance

8.1. Cleaning the tool

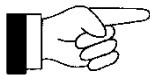


Soil and debris hamper the proper functioning of the tool. For this reason the following areas should be cleaned **once a week**.

-  Insertion slot
-  Cavities between the upper and lower jaws
-  Tensioning wheel
-  Gripper plate

Blow off using compressed air if possible (wear protection goggles).

Lubricate with fine conventional spray oil afterwards.



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

8.2. 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.

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-L
Serial number: 223 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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58332 Schwelm

Schwelm, the 26.01.2010



Peter Wilhelm Lenzen jr.
President

TITAN Umreifungstechnik
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Sitz der Gesellschaft: Schwelm
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USt-Ident.Nr. DE 187983242

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Sitz der Gesellschaft: Schwelm
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Geschäftsführer: Peter Wilhelm Lenzen jr.

Commerzbank AG, Iserlohn
Volksbank Hohenlimburg eG
Nationalbank, Essen
Forts Bank, Köln

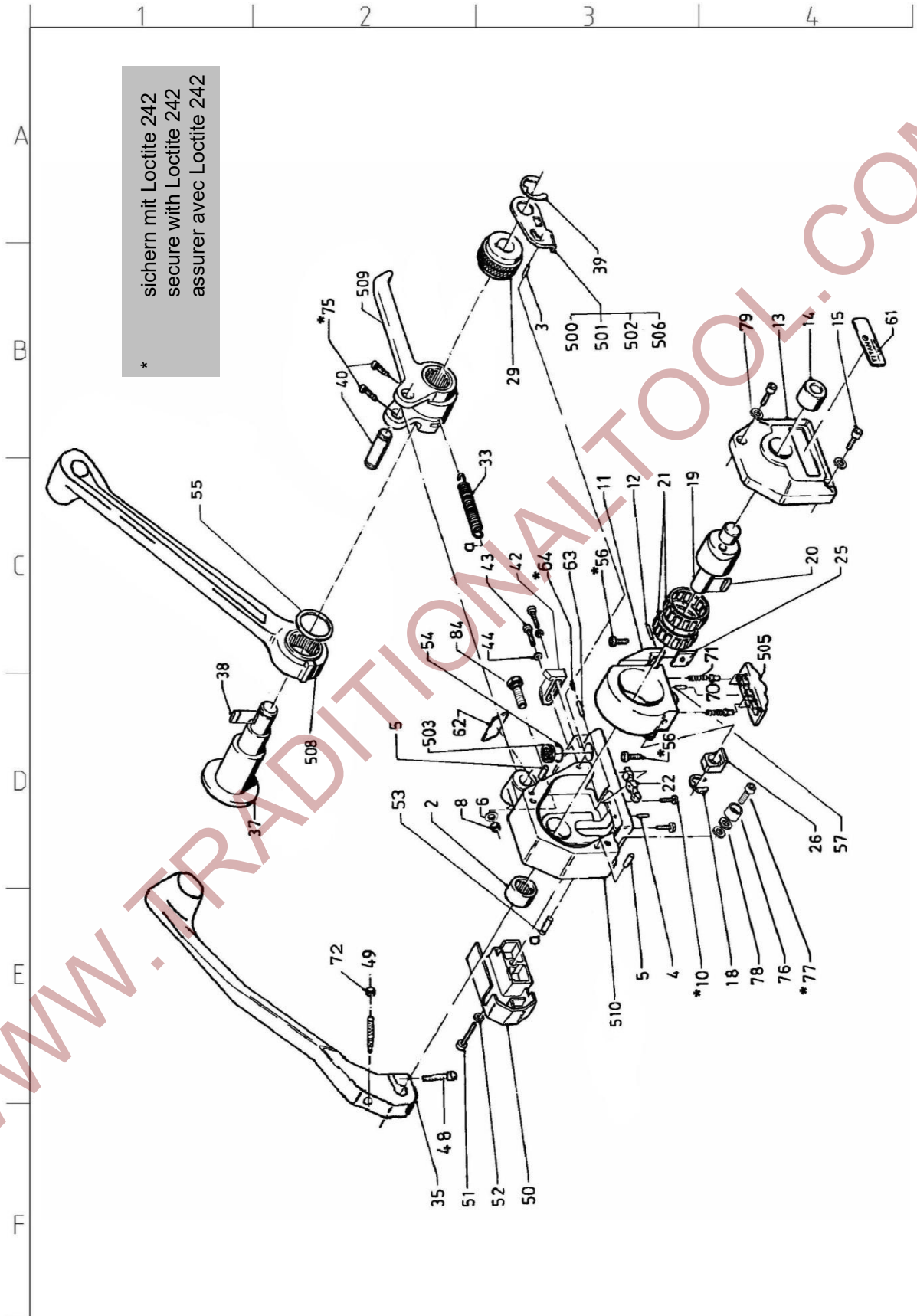
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IBAN: DE43 36020030 0008506361
IBAN: DE22 37010600 1096011178

10. Explosionszeichnung; Exploded drawing; Vue éclatée



11. Ersatzteilliste, Spare parts list, Liste des pièces de rechange

| Pos. | Benennung | Description | Dénomination | St. Pcs. Pc. | |
|-----------|------------------------------|-------------------------------|------------------------------------|--------------|----------|
| 2 | Nadelhülse HK 1616 | Needle sleeve HK 1616 | Roulement à aiguilles HK 1616 | 1 | |
| 3 | Stift – 4 m6 x 12 | Pin – 4 m6 x 12 | Pion – 4 m6 x 12 | 1 | |
| 4 | Stift – 4 m6 x 12 | Pin – 4 m6 x 12 | Pion – 4 m6 x 12 | 1 | |
| 5 | Stift – 6 m6 x 18 | Pin – 6 m6 x 18 | Pion – 6 m6 x 18 | 2 | |
| 6 | Scheibe – Ø 6 | Washer – Ø 6 | Rondelle – Ø 6 | 1 | |
| 8 | Mutter – M 6 | Hexagon nut – M 6 | Écrou 6 pans – M 6 | 1 | |
| 10 | Schraube – M 3 x 8 | Screw – M 3 x 8 | Vis – M 3 x 8 | 2 | |
| 11 | Oberwerkzeug | Upper jaw holder | Support de poinçon | 1 | V |
| 12 | Stift – 3 x 10 | Dowel pin – 3 x 10 | Goupille – 3 x 10 | 1 | |
| 13 | Deckel | Cover | Flasque | 1 | |
| 14 | Nadelbüchse BK 1616 | Needle bushing BK 1616 | Roulement à aiguilles BK 1616 | 1 | |
| 15 | Schraube – M 6 x 12 | Screw – M 6 x 12 | Vis – M 6 x 12 | 2 | |
| 18 | Sicherungsscheibe Ø 10 | Safety disc Ø 10 | Circlip Ø 10 | 1 | |
| 19 | Exzenterwelle | Eccentric shaft | Excentrique | 1 | |
| 20 | Passfeder A 5 x 5 x 16 | Feather key A 5 x 5 x 16 | Clavette A 5 x 5 x 16 | 1 | |
| 21 | Nadelkranz K 32 x 37 x 13 | Needle ring K 32 x 37 x 13 | Cage à aiguilles K 32 x 37 x 13 | 2 | |
| 22 | Untermesser | Lower jaw | Matrice | 1 | V |
| 25 | Kerbmesser – BT 40 | Cutter – BT 40 | Couteau – BT 40 | 1 | V |
| 26 | Ausheber | Ejector | Extracteur | 1 | V |
| 29 | Spannrad | Tension wheel | Molette | 1 | V |
| 33 | Zugfeder | Tension spring | Ressort de traction | 1 | V |
| 35 | Schneidhebel | Cutting lever | Levier de sertissage | 1 | |
| 37 | Transportwelle | Feed shaft | Arbre de transport | 1 | |
| 38 | Passfeder A 5 x 5 x 18 | Feather key A 5 x 5 x 18 | Clavette A 5 x 5 x 18 | 1 | |
| 39 | Sicherungsscheibe Ø 12 | Safety disc Ø 12 | Circlip Ø 12 | 1 | |
| 40 | Bolzen | Pin | Axe | 1 | |
| 42 | Hintere Bandführung | Rear strap guide | Guide-feuillard arrière | 1 | V |
| 43 | Schraube – M 5 x 10 | Screw – M 5 x 10 | Vis – M5 x 10 | 2 | |
| 44 | Sicherungsscheibe – S 5 | Safety disc – S 5 | Rondelle – S 5 | 2 | |
| 48 | Schraube – M 6 x 20 | Screw – M 6 x 20 | Vis – M 6 x 20 | 1 | |
| 49 | Gewindestift – M6 x 45 | Thread pin – M6 x 45 | Tige filetée – M6 x 45 | 1 | |
| 50 | Abdeckung | Cover | Cache | 1 | |
| 51 | Schraube – M 5 x 30 | Screw – M 5 x 30 | Vis – M5 x 30 | 1 | |
| 52 | Sicherungsscheibe – S 5 | Safety disc – S 5 | Rondelle – S 5 | 1 | |

V = Verschleißteil, Wearing part, Pièces d'usure

| Pos. | Benennung | Description | Dénomination | St. Pcs. Pc. | |
|------------|------------------------------------|-------------------------------------|---------------------------------------|--------------|----------|
| 53 | Paßkerbstift C 4 x 16 | Half-length grooved pin C 4 x 16 | Goupille cannelée C4 x 16 | 1 | |
| 54 | Runddichtung – B 13 x 2 | O-ring seal – B 13 x 2 | Joint torique – B 13 x 2 | 1 | |
| 55 | Passscheibe 30 x 42 x 0,2 | Adjusting washer 30 x 42 x 0.2 | Rondelle d'épaisseur 30 x 42 x 0,2 | 1 | |
| 56 | Schraube – M4 x 10 | Screw – M4 x 10 | Vis – M4 x 10 | 2 | |
| 57 | Stift – 4 m6 x 12 | Pin – 4 m6 x 12 | Pion – 4 m6 x 12 | 1 | |
| 61 | Firmenschild | Name plate | Plaque signalétique | 1 | |
| 62 | CE Zeichen Größe B | CE-sign size B | Plaque signalétique CE gabarit B | 1 | |
| 63 | Stift – 3 m6 x 20 | Pin – 3 m6 x 20 | Pion – 3 m6 x 20 | 1 | |
| 64 | Gewindestift – M4 x 4 | Thread pin – M4 x 4 | Tige fileté – M4 x 4 | 1 | |
| 67 | Typenschild | Type plate | Plaque de type | 1 | |
| 70 | Auswerfer | Ejector | Ejecteur | 4 | V |
| 71 | Druckfeder | Pressure spring | Ressort de pression | 4 | V |
| 72 | Mutter – M6 | Hexagon nut – M6 | Écrou 6 pans – M6 | 1 | |
| 75 | Gewindestift – M5 x 8 | Thread pin – M5 x 8 | Tige fileté – M5 x 8 | 2 | |
| 76 | Bandführung vorne | Strap guide front | Guide-feuillard devant | 1 | V |
| 77 | Schraube – M5 x 16 | Screw – M5 x 16 | Vis – M5 x 16 | 1 | |
| 78 | Scheibe – Ø 6,4 | Disc – Ø 6.4 | Disque – Ø 6,4 | 2 | |
| 79 | Sicherungsscheibe – S 6 | Safety disc – S 6 | Rondelle – S 6 | 2 | |
| 84 | Einstellschraube | Adjusting screw | Vis de réglage | 1 | |
| 500 | Bandführung, komplett 13 mm | Strap guide, complete 13 mm | Guide feuillard, complet 13 mm | 1 | V |
| 501 | Bandführung, komplett 16 mm | Strap guide, complete 16 mm | Guide feuillard, complet 16 mm | 1 | V |
| 502 | Bandführung, komplett 19 mm | Strap guide, complete 19 mm | Guide feuillard, complet 19 mm | 1 | V |
| 503 | Riffelplatte | Gripper plate | Pastille | 1 | V |
| 505 | Obermesser, komplett | Upper jaw, complete | Poinçon, complet | 1 | V |
| 506 | Bandführung, komplett 20 mm | Strap guide, complete 20 mm | Guide feuillard, complet 20 mm | 1 | V |
| 508 | Spannhebel, komplett | Tension lever, complete | Levier de tension, complet | 1 | |
| 509 | Wippe, komplett | Rocker, complete | Poignée d'ouverture, complet | 1 | |
| 510 | Gestell, komplett | Frame, complete | Bloc semelle, complet | 1 | V |
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V = Verschleißteil, Wearing part, Pièces d'usure



TITAN Strapping Systems
HKE Spare Parts List
 Tool: 96223000200

| Pos. | Description | Part # | | |
|------|----------------------------------|------------|--|--|
| 12 | Dowel pin | 1141030103 | | |
| 13 | Cover (blue) | 4223100320 | | |
| 14 | Needle bushing | 1530016160 | | |
| 15 | Screw | 1001060130 | | |
| 18 | Locking washer | 1361100003 | | |
| 19 | Eccentric shaft | 4223100510 | | |
| 20 | Feather key | 1631055165 | | |
| 21 | Needle Ring | 1592032132 | | |
| 22 | Lower jaw | 4223100600 | | |
| 25 | Cutter | 3223100900 | | |
| 26 | Ejector | 4223101000 | | |
| 29 | Feedwheel | 4223101300 | | |
| 33 | Tension spring (See 03223101900) | 3223101800 | | |
| 33 | Tension spring | 3223101900 | | |
| 35 | Cutting lever | 4223101520 | | |
| 37 | Feed shaft | 4223102400 | | |
| 38 | Feather key | 4223104200 | | |
| 39 | Locking washer | 1361120005 | | |
| 40 | Bolt | 4223102610 | | |
| 42 | Rear strap guide | 3223104100 | | |
| 43 | Cylinder screw | 1001050110 | | |
| 44 | Locking washer | 1223017050 | | |
| 48 | Screw | 1001060211 | | |
| 49 | Thread pin (new style) | 4223110000 | | |
| 50 | Cover Blue | 3223103520 | | |
| 51 | Cylinder screw | 1001050310 | | |
| 52 | Locking washer | 1223017050 | | |
| 53 | Grooved pin | 1125040160 | | |
| 55 | Adjusting washer | 1313042020 | | |
| 56 | Cheese head screw | 1003040110 | | |
| 57 | Cylinder pin | 1112040100 | | |
| 61 | Company name plate | 3223103800 | | |
| 62 | CE Sign | 1950000120 | | |
| 67 | Type plate HKE | 3223103710 | | |
| 70 | Ejector pin | 3223102020 | | |
| 71 | Pressure spring | 1620001170 | | |
| 72 | Hex.nut | 1408060012 | | |
| 75 | Thread pin | 1087050082 | | |
| 76 | Strap guide, front | 4223101220 | | |
| 77 | Screw | 1001050174 | | |
| 78 | Washer | 1302064010 | | |
| 79 | LOCKING WASHER | 1223017060 | | |
| 84 | Adjusting Screw | 4223105200 | | |
| 300 | Gripper plate | 3223104600 | | |
| 301 | Thread Pin | 1087040060 | | |
| 302 | Strap Guide, Front | 4223101230 | | |
| 303 | Countersunk head screw | 1005050268 | | |
| 304 | Locking washer | 1223017050 | | |
| 305 | Hex.nut | 1401050010 | | |
| 500 | Strap guide. 13mm | 4822315011 | | |
| 501 | Strap guide. 16mm | 4822315012 | | |
| 502 | Strap guide. 19mm | 4822315013 | | |
| 503 | Gripper (Old Style) | 4822315090 | | |
| 505 | Upper Jaw | 4822315070 | | |
| 506 | Strap guide 20 mm | 4223101104 | | |
| 507 | Upper jaw | 4822315071 | | |
| 508 | Tension lever Assembly | 4822314040 | | |
| 509 | Rocker Assembly | 4822314050 | | |
| 510 | Frame Old Style | 4822314060 | | |
| 511 | Cutting lever | 4822314070 | | |
| 551 | Frame (New Style) | 4822314061 | | |
| | Frame (Retrofit Body) New Style | 4822314080 | | |