

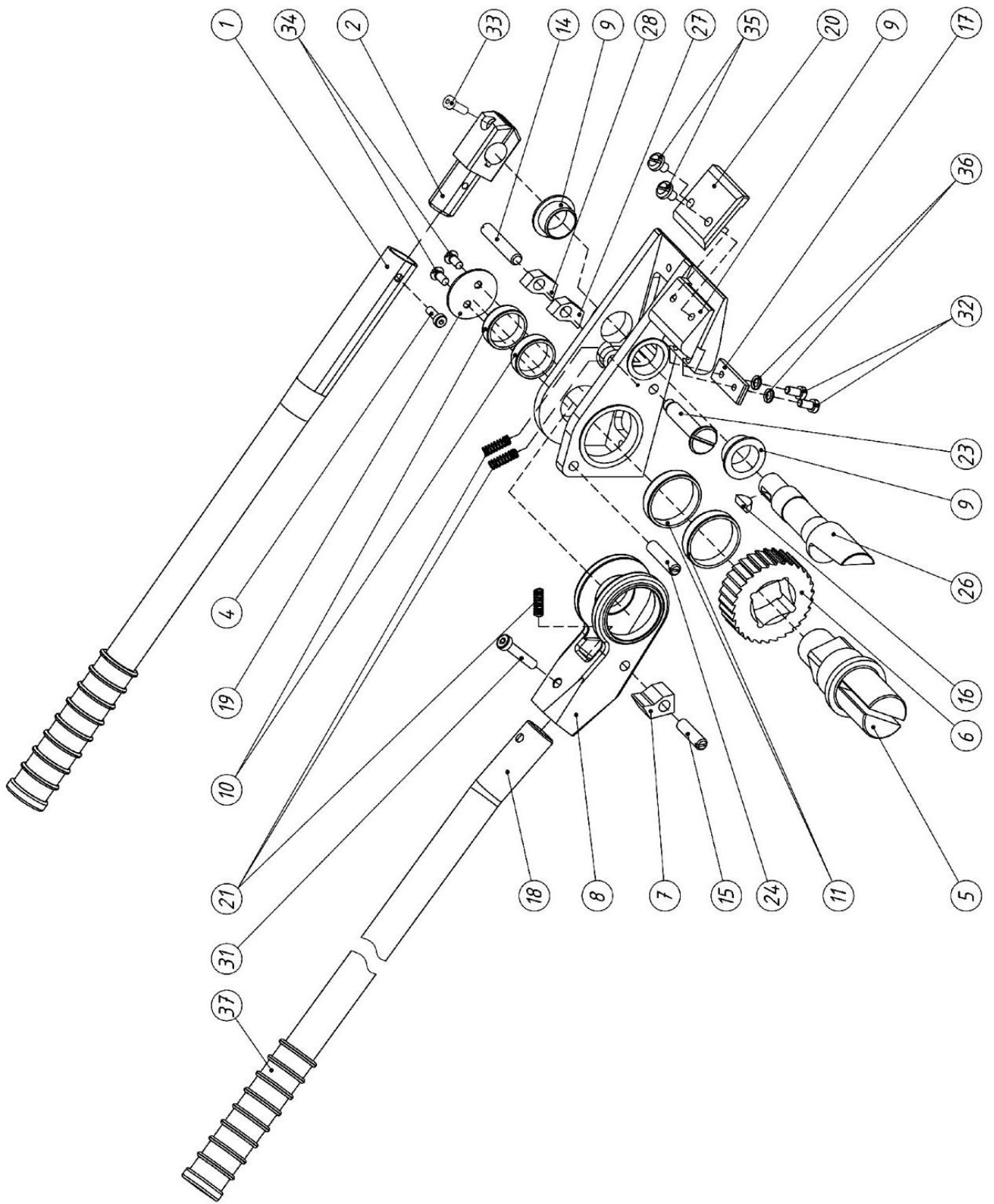


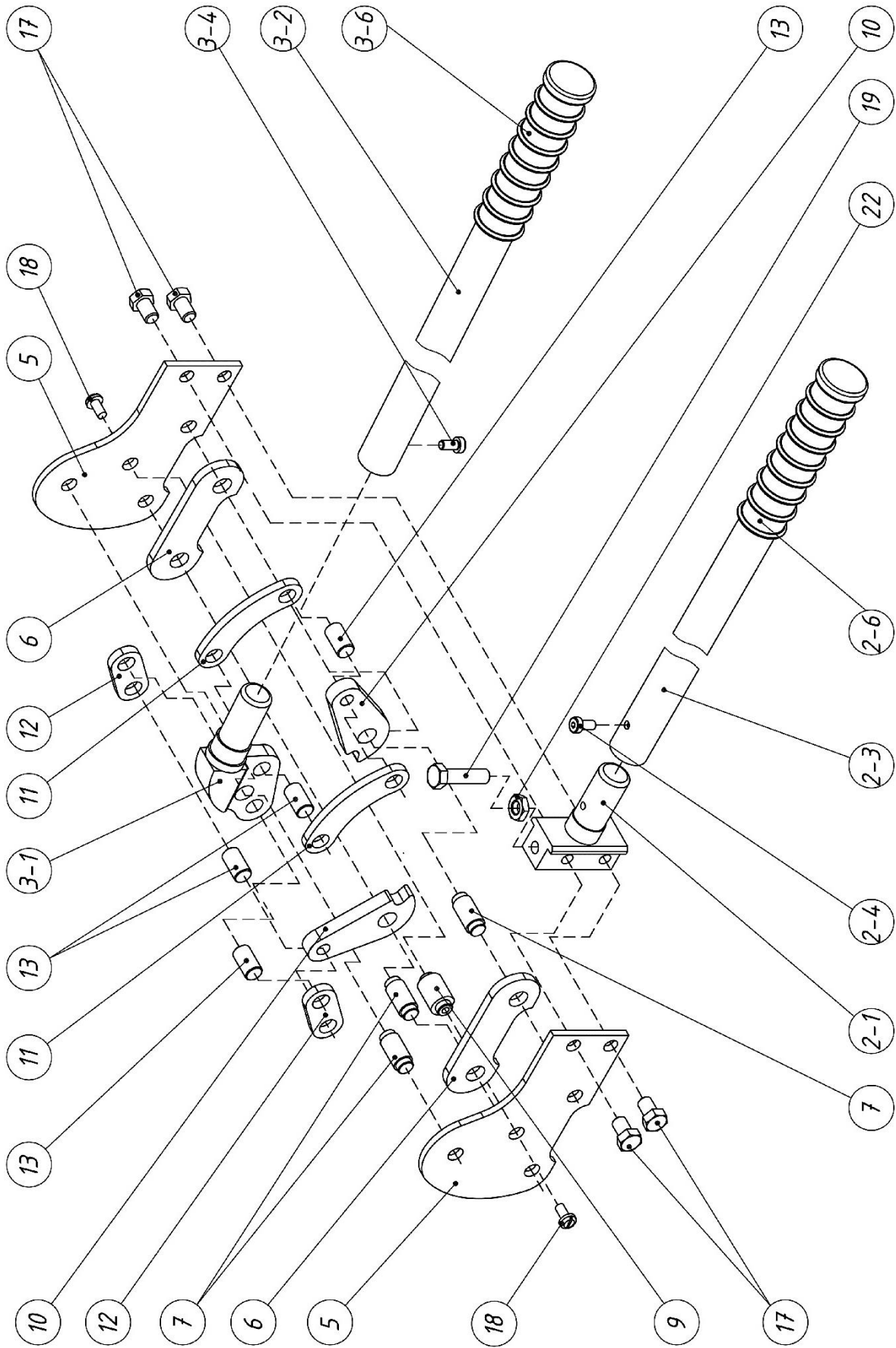
**MECHANICAL TOOLS FOR STEEL STRAPPING  
CROC TENSIONER & CLIP SEALER**

**OPERATING INSTRUCTIONS**



**Before using the tool, read the instruction carefully**





## GENERAL INFORMATION

Operating instructions for mechanical tools for steel strapping is design for acquainting with tools and principles of their operation and information concerning safe and right use of the tool.

**ATTENTION: These operating instructions must be read by all persons concerned with work on strapping tool.**

### 1. PURPOSE

1.1. The tool can be used in various branches of industry in making up of freight units, particularly shipping bundles of metal rolling, pipe, brick; their use at packing of transport packages with round form of small diameter especially recommended.

1.2 The devise is intended for strapping of freight with steel strap up to 1 1/4" (32mm) wide, thickness should be up to 0,039" (1 mm), formation of the metal lock with the help seal and cuttings of the free end of the strap.

1.3. Formation of the metal lock is made with the help of sealer or without it if using special seal.

1.4. Tools can be used inside as well as outside in all climatic zones.

### 2. TECHNICAL DATA

- 2.1. Strapping tape tension force, N, ..... 4500 - 8400;
- 2.2. Overall dimensions of tension tool, MM.....670x260x70;
- 2.3. Weight of tension tool, lbs. (kg).....9 (4);
- 2.4. Overall dimensions of sealer .....670x120x40;
- 2.5. Quantity of bites through the strap.....1 pair;
- 2.6. Weight of sealer, lbs. (kg).....5,5 (2,5).

### 3. COMPLETE SET

3.1. Complete set for shipment consist of:

- CROC TENSIONER, pcs..... 1;
- CLIP SEALER, pcs..... 1;
- Operation instructions, pcs..... 1.

#### Notes.

1. Separate delivery of tension tool and sealer is possible.

## 4. ARRANGEMENT OF TOOLS.

4.1. Croc Tensioner (pic. 1) consist of housing 3 in which tension and cutting mechanisms of the strap are placed.

4.2. Tension mechanism of the strap consist of shaft 5, block wheel 6, connected with shaft, pawls 7, 27, 28, shoe 8, connected with lever 18.

4.3. Cutting mechanism of the strap consists of motion die 26 and motionless die-lath 17, which fixed of housing 3 with possibility of clearance between dies. Motion die connected with lever 1 with the help of key 16.

4.4. On housing 3 are places screws (notchers) 23, 24 for strap, and from an opposite side a notcher 22 for restriction of turn of the lever 1.

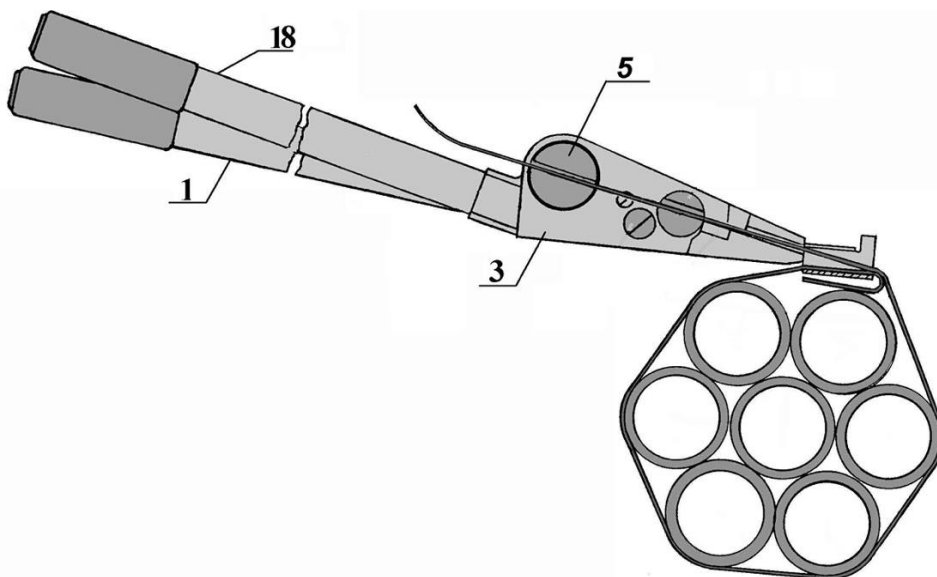
4.5. Tool for sealing of the strap by biting of seal Clip Sealer (pic.2) consist from two motionless notchers 6, two jaws 10, two motionless shafts 7, motion shaft 13, two links 11 and two links 12, motion lever 3-3 with lever 3-1, motionless lever 2-3 with plate 2-1, fixed between two plates 5, fastened between each other with the help of shaft 9 and screws 17, 18. Jaws 10 through links 11 and 12 co-operates with lever 3-1.

## 5. ORDER OF WORK

5.1. The principle of work of tools consists in a tension of the strap tied round packed object, and cutting of the free end of the strap after formation of the lock using seal. The example of strapping without use of the sealer is shown on pictures 3, 6, 7.

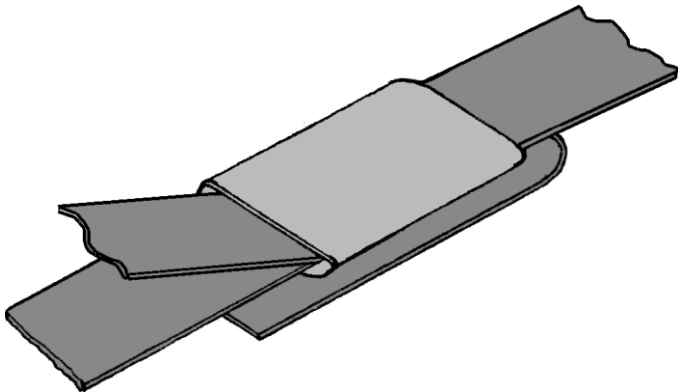
**Note.** Lock formation can be made in two ways:

- using the sealer (pic. 4, 5),
- without using the sealer (pic. 6, 7).



Pic. 3

5.2. Cover packed object by metal strap. Pass the bottom end of the strap through seal and bend it how it is shown on pic. 3, 4, 6. The top end of the strap passes through seal and pull for it, having chosen thus the strap which has sagged round object. That the strap has not slipped out back from seal, unbend upwards its end slightly by seal.



Pic. 4



Pic. 5

5.3. Take tool by left hand by two levers near to housing 3 and establish it near seal. By the right hand place the tool against the strap. By right hand get top end of the strap into aperture of housing, pass it through clearance between a motion and motionless dies and through slot of the shaft 5, unfolded preliminary according to a direction of the strap. Pull up by hand the free end of strap and unbend it downward after a shaft. Lower end of strap, going out from seal passes under housing 3.

5.4. Get the tool by left hand for a lever 1 and by the right hand for lever 18 and make tension of the strap by several moving of right hand “from yourself” and “to yourself”, providing needed tension of the strap.

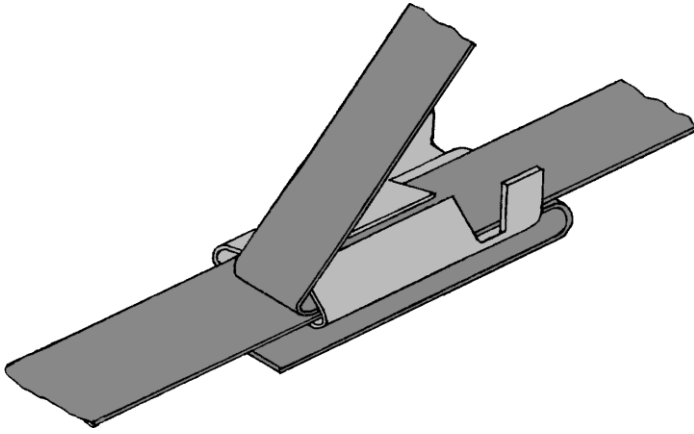
5.5. For formatting of lock using Clip Sealer take the tool for motionless lever 2, motion lever 3 move “from yourself”, impose the tool on seal (sealer with seal should be located close to tension tool) and make deformation and biting of seal with the strap with making lock by return move of lever 3 (“to yourself” and down) (pic. 5).

5.6. Move away lever 1 ”from yourself” till stop and remove sealer from seal.

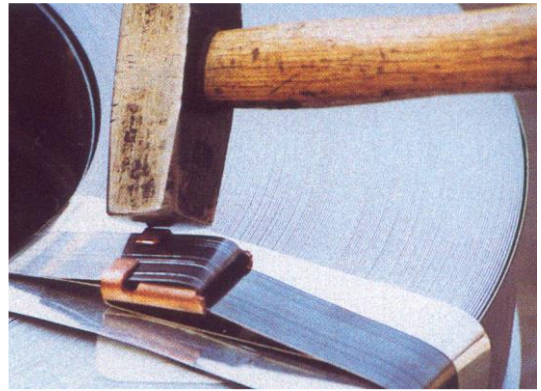
5.7. Turn tension tool for lever 18 several times “from yourself” and “to yourself” till the strap will broke.

5.8. Make free tension tool from strap by turning of lever 18, and remove from shaft 5 cut piece of strap.

5.9. For formatting of lock without using sealer (pic. 6,7) turn the tool by lever 18 “from yourself” on angle 70 - 90° (pic. 6) after what by sharp turn of lever 2 “from yourself” make cutting of the strap, and make free your tool from strap. With the help of hammer recurve top end of strap on seal and fix it as it shown on pic. 7.



Pic. 6



Pic. 7

## 6. TECHNICAL SERVICE AND REPAIR

6.1. Check not rare than once a week screwing of all outwards screws of tension tool and sealer.

6.2. If screwing screws 29, fastening of motionless die 17 became weaker, before their screwing press motionless die to cylindrical surface of die 26, after what make screwing of screws 29.

6.3. If have questions about repairing and getting spare parts please contact with the company the manufacturer of with their official dealers.

## 7. STORAGE AND TRANSPORTATION RULES

7.1. Tool should be kept in an apartment in the preserved kind.

7.2. It is possible to choose any way of transportation of the tool as packed in carton as single items packed in paraffin paper.

7.3. To decrease package, tension tool could be shipped with unfolded on 180° lever 1.

7.4. Before the beginning of exploitation restore good to a working state. For this make screwing of screw 33 weaker with the help of hexahedron key (S=4mm), take off lever 1, turn it on 180° (by handle from housing), control presence of key 16 in key slot of die 26, spread the lever 1 and screw the screw 33.

7.5. In order to avoid a traumatism categorically it is forbidden to take, lift and transfer the tension tool for the housing. These operations should be carrying out, using levers.

## 8. CUSTOMER ACCEPTANCE CERTIFICATE

8.1. CROC TENSIONER, Serial No. \_\_\_\_\_ and CLIP SEALER serial No \_\_\_\_\_ are met technical specifications and declared suitable for using.

Data of production \_\_\_\_\_

S.P.

Sign \_\_\_\_\_

## 9. WARRANTY POLICY

9.1. The manufacturer guarantees perfect work of tools Croc Tensioner and Clip Sealer during 12 months from the date of shipment if all operating rules are observed.

9.2. Guarantee repair is made by manufacture or his representative at his place or at customer's place according to their agreement. Repair after expiration of guarantee term is made by manufacturer of his representative according to additional agreement.