Instruction and Spare Parts Manual

Palax Lifter

Hydraulic log lifter

Instructions must always be consulted before using the device

PALAX
Lahdentie 9
FI-61400 Ylistaro, FINLAND
Tel. +358 6 4745100
Fax. +358 6 4740790
www.palax.fi

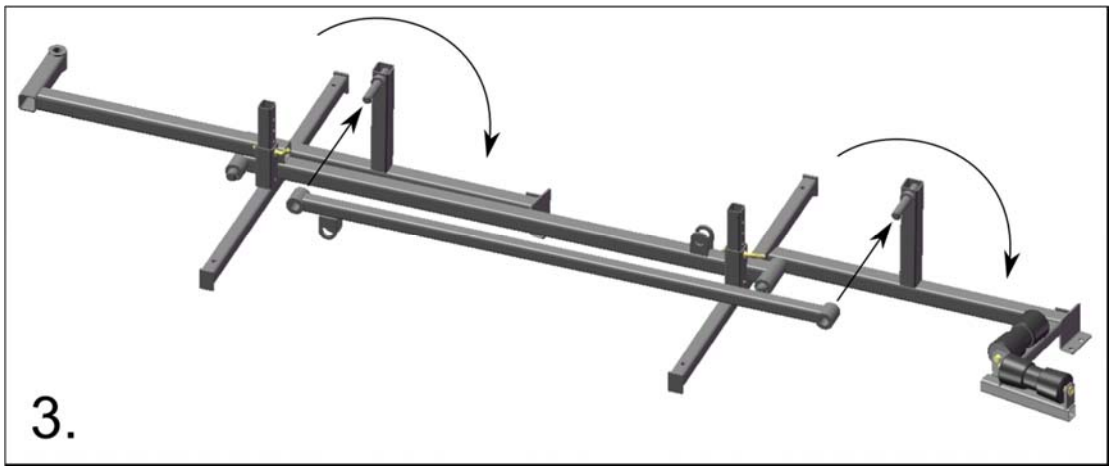
Translation

Translation

CONTENTS

1 Assembly instructions 2
2 General safety instructions 4
3 EU Declaration of Conformity 5
4 Installing the log lifter 6
4.1 Installing in an existing machine 6
4.1.1 Palax Power 70 S 6
4.1.2 Palax KS 35 6
4.1.3 Palax Power 90 6
4.2 Installing the fastening iron 7
4.2.1 Palax KS 35 7
4.2.2 Palax Power 70 and Power 90 7
4.3 Installing the locking iron in the machine 8
4.3.1 Palax KS 35 8
4.3.2 Palax Power 90 8
4.3.3 Palax Power 70 8
4.4 Installing the valve 9
4.4.1 Palax KS 35 9
4.4.2 Palax Power 70 9
5 Installing the hydraulics 10
5.1.1 Palax KS 35 and Power 70 10
5.1.2 Palax Power 90 10
6 Operating and maintenance instructions for the lifter 11
7 Turning the lifter into the transport position 11
8 Spare parts 12

1 Assembly instructions



Translation

Translation

2 General safety instructions

The Palax Lifter is an accessory for the Palax KS35, Power 90 and Power 70 firewood processors. The maximum diameter of logs to be hoisted with the lifter is 37 cm and their maximum length is 3.5 m. (Note: Check the maximum log diameter allowed for the firewood processor used.) When lifting the log, ensure that it remains on the lifter throughout the procedure, and that it cannot roll or tumble down from the lift booms due to imbalance.

The user must familiarise himself with the device and the firewood processor used before starting the operation. He must understand how the device operates and be aware of the risks associated with its use. All safety instructions for the firewood processor also apply to the Palax Lifter.

The lifter must always be used exercising great caution, so that neither the user of the device nor people near it are subjected to injury.
The device must not be used by children!

The lifter may be used for lifting only one log at a time, and this log must be placed onto the lift booms in such a way that its butt end points towards the firewood processor.

Lifting is not allowed, if the log is only supported by one of the lift booms. The logs to be lifted must be free of branches, straight and must not fork.

Other people or objects that could be damaged by the device are not allowed near the lifter during its operation. The danger zone around the machine is 10 m.

The lifter shall be used on an even surface. When setting the log, the lift booms must be fully lowered. No logs or other objects are allowed under the lift booms during lowering. Rolling the log onto the lift booms must be carried out gently enough to ensure that the operator of the lifter will not be subjected to any danger or injury. Beware of logs that may roll down from the pile.

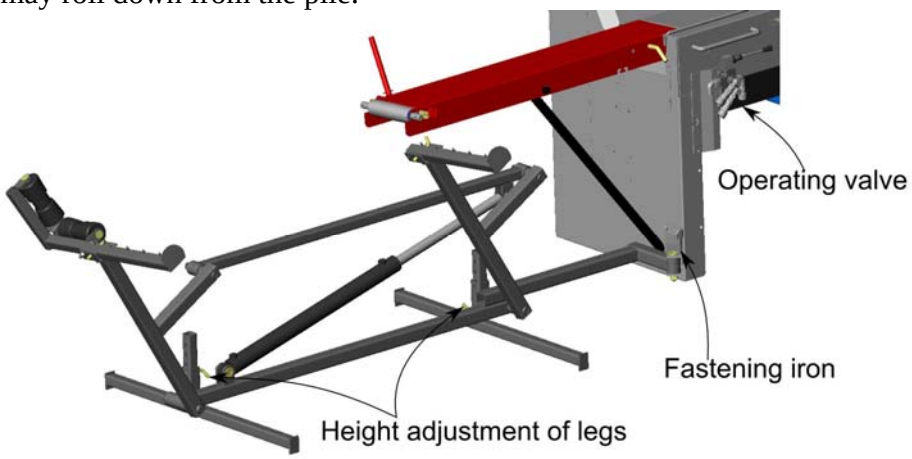


Fig. 1. Log lifter assembled and installed in the machine

3 EU Declaration of Conformity

Directive 2006/42/EC

Manufacturer: Ylistaron Terästakomo Oy
www.palax.fi
Lahdentie 9
FI-61400 Ylistaro
Finland
+358 6 474 5100
Person in charge of the Technical Construction File: Kai Koskela, kai.koskela@palax.fi
Product: Hydraulic log lifter
An accessory for the Palax KS35, Power 70 and Power 90 firewood processors.
Powered by: Additional hydraulic circuit of the firewood processor

Serial number of the machine:

We hereby certify that this machine meets the requirements of Government Decree no. 12.6.2008/400 on the safety of machinery through which the Machine Directive 2006/42/EC has been put into effect, and that during the manufacturing process the following harmonized standards have been applied:

SFS-EN 12100-1+A1, SFS-EN 12100-2

Ylistaron Terästakomo Oy
4.9.2017

Pekka Himanka
Managing Director

Translation

4 Installing the log lifter

4.1 Installing in an existing machine

Drill the attachment holes in the machine in accordance with the dimensions presented in Figure 2.

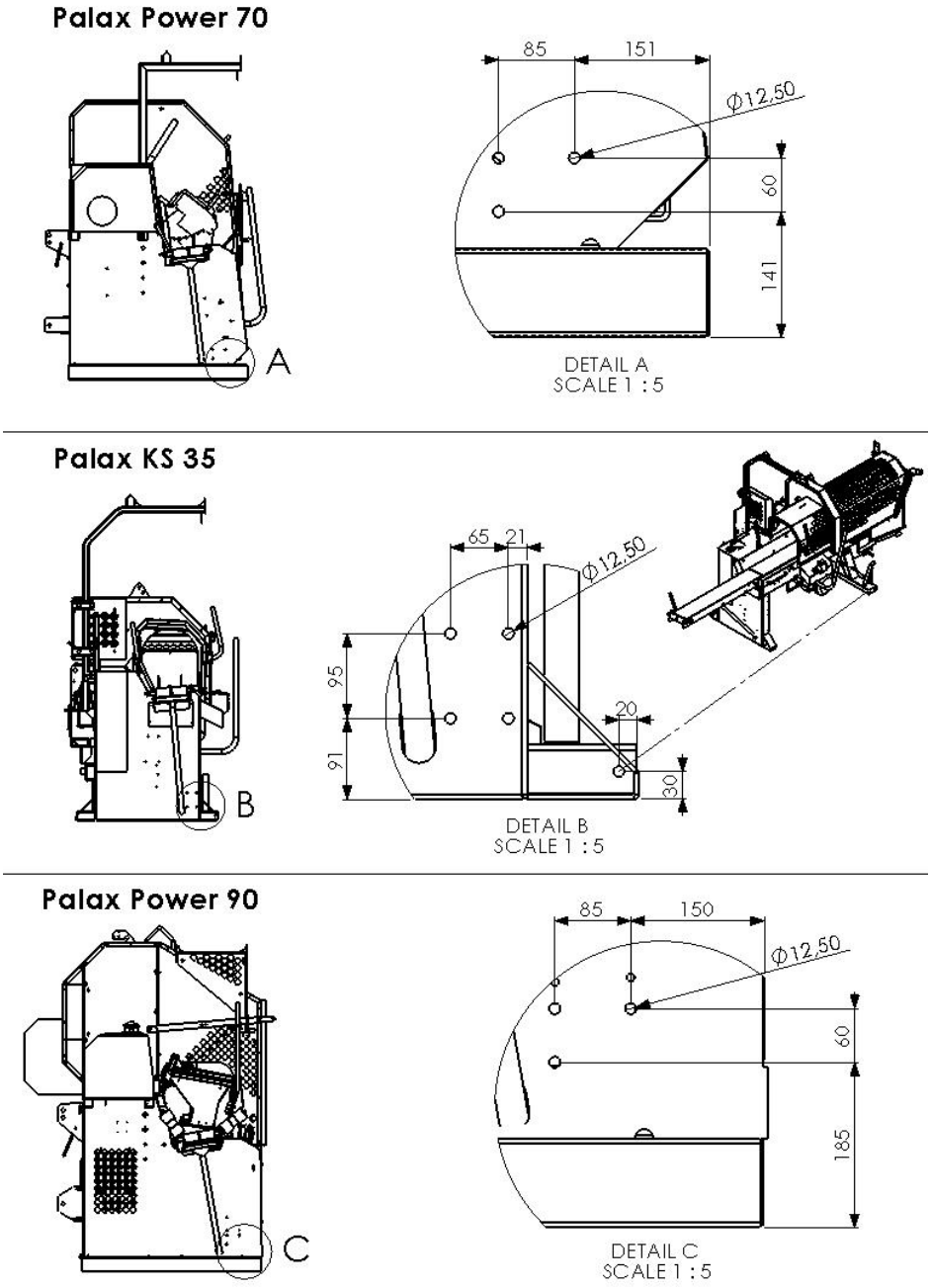


Fig. 2. Drilling instructions

4.2 Installing the fastening iron

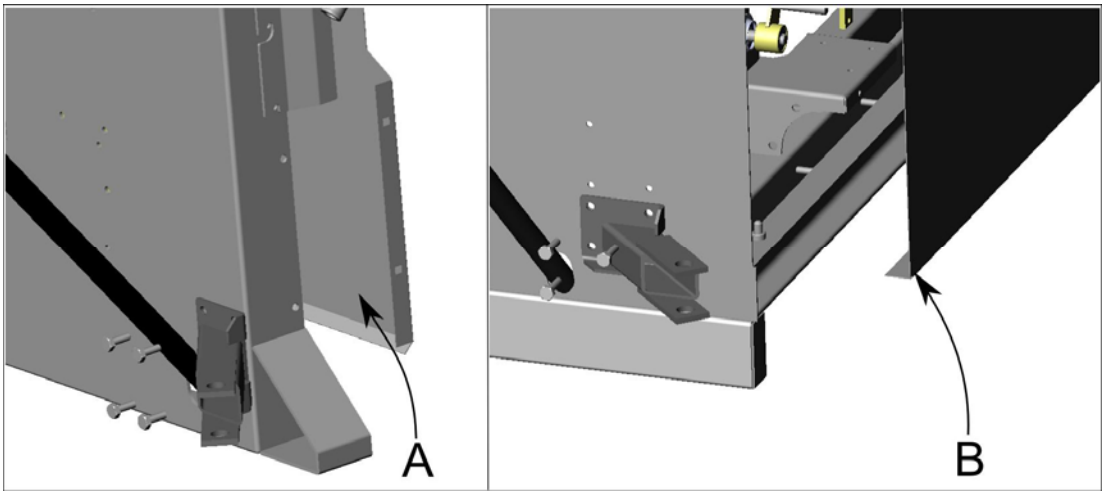


Fig. 3. Installing the fastening iron

4.2.1 Palax KS 35

Remove the cover plate A (Fig. 3). Using nuts and bolts, attach the fastening iron to the holes next to the extension table leg.

Replace the recently removed cover plate.

4.2.2 Palax Power 70 and Power 90

Remove the lower left front cover B (Fig. 3). Using nuts and bolts, attach the fastening iron to the holes next to the extension table leg.

Replace the recently removed cover plate.

4.3 Installing the locking iron in the machine

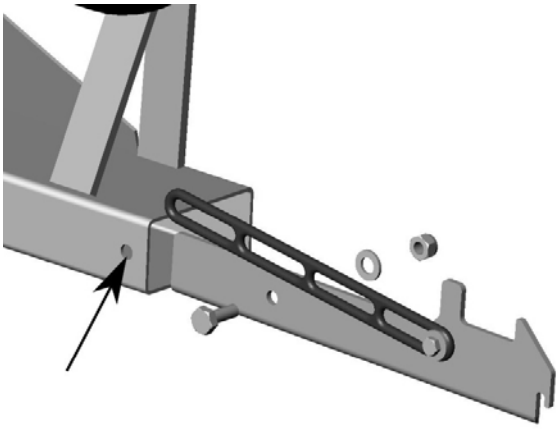


Fig. 4. Locking iron KS 35

4.3.1 Palax KS 35

Install the locking iron inside the leg pipe, and tighten the nut and bolt through the hole in the left wall (Fig. 4)

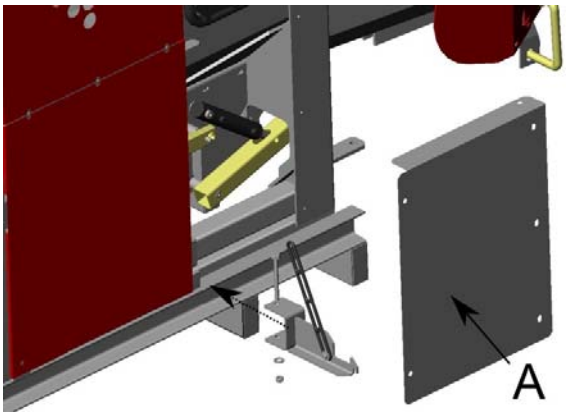


Fig. 5. Locking iron Power 90

4.3.2 Palax Power 90

Remove the cover plate A (Fig. 5). Install the locking iron in the frame beam in the front. Tighten the nut and bolt through the holes in the locking iron at the back of the frame beam.

Replace the recently removed cover plate.

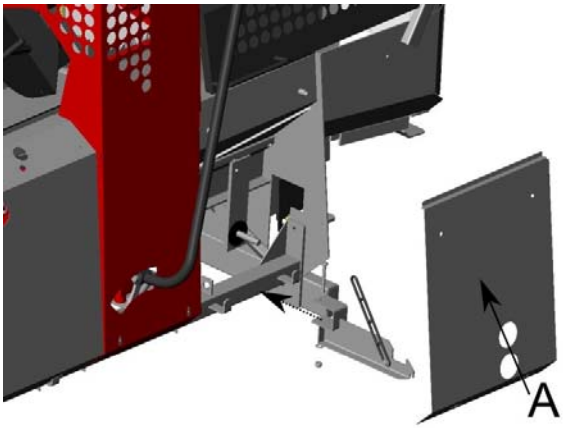


Fig. 6. Locking iron Power 70

4.3.3 Palax Power 70

Remove the cover plate A (Fig. 6). Install the locking iron in the frame beam in the front. Tighten the nut and the bolt through the holes in the locking iron at the back of the frame beam.

Replace the recently removed cover plate.

4.4 Installing the valve

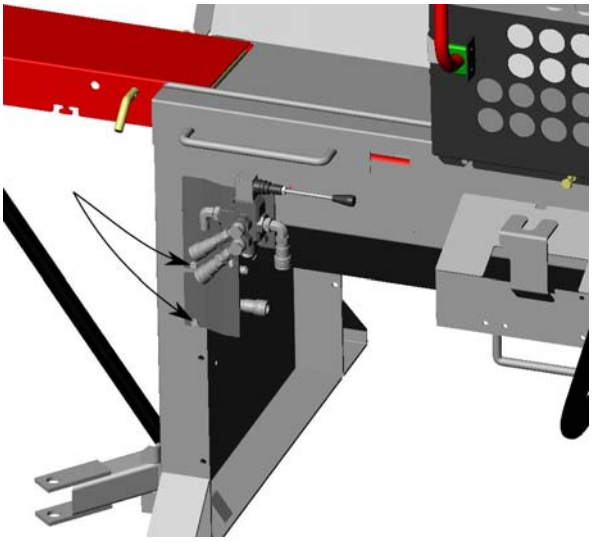


Fig. 7. Valve bed of KS 35

4.4.1 Palax KS 35

Install the valve bed using the same bolts as the quick-connector bracket. (Fig. 7).

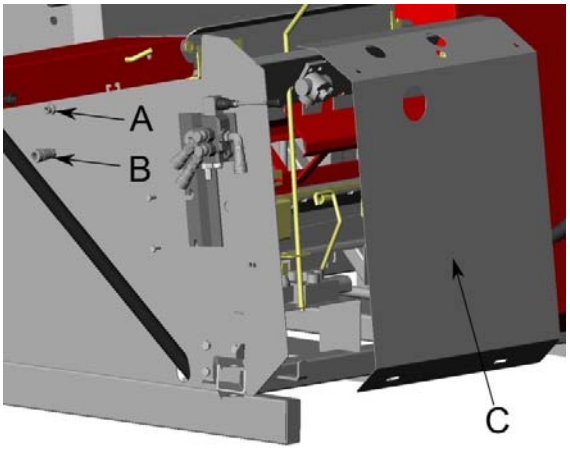


Fig. 8. Installing the valve of the Power 70

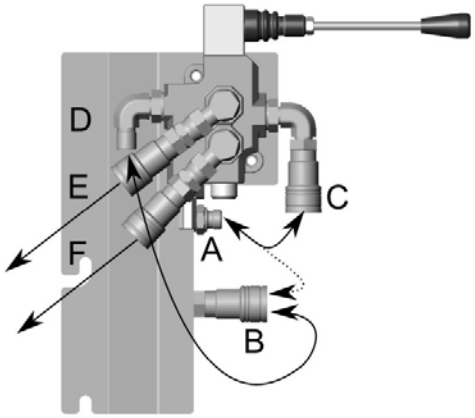
4.4.2 Palax Power 70

Remove the cover plate C (Fig. 8). Using nuts and bolts, attach the valve bed by the holes in the end of the machine.

Replace the recently removed cover plate.

5 Installing the hydraulics

5.1.1 Palax KS 35 and Power 70

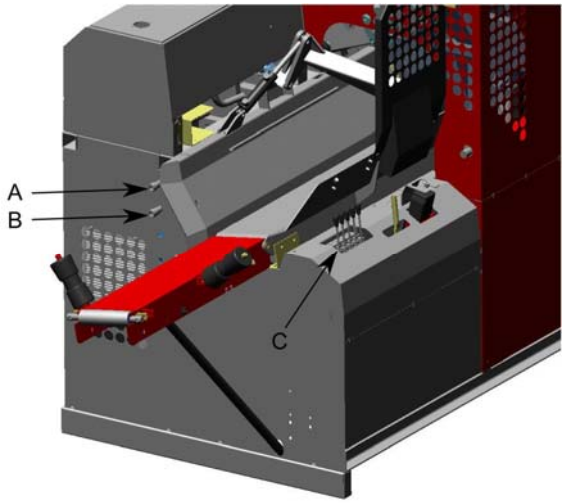


1. Disconnect the hose AB from the quick-connector and attach it to the quick-connector of the valve C.
2. Install a new hose from the quick-connector B to the connector D of the valve.
3. Install the hoses from quick-connectors E and F to the cylinder of the lift, so that when the valve lever is raised the lifter will rise, and when the valve lever is lowered, the lifter will lower.

Fig. 9. Installing the hydraulics of the KS 35 and Power70

Note! In the Power 70 machine, the connectors A and B are located in the end of the machine (Fig. 8).

5.1.2 Palax Power 90



Connect the hoses from the quick-connectors A and B (Fig. 10) to the cylinder of the lifter, so that when the valve lever C (the first from the left) is pushed, the lifter will rise, and when it is pulled, the lifter will lower.

Fig. 10. Installing the hydraulics of the Power 90

Carry out installation of the hydraulics so that no hydraulic oil can spill into the natural environment!

6 Operating and maintenance instructions for the lifter

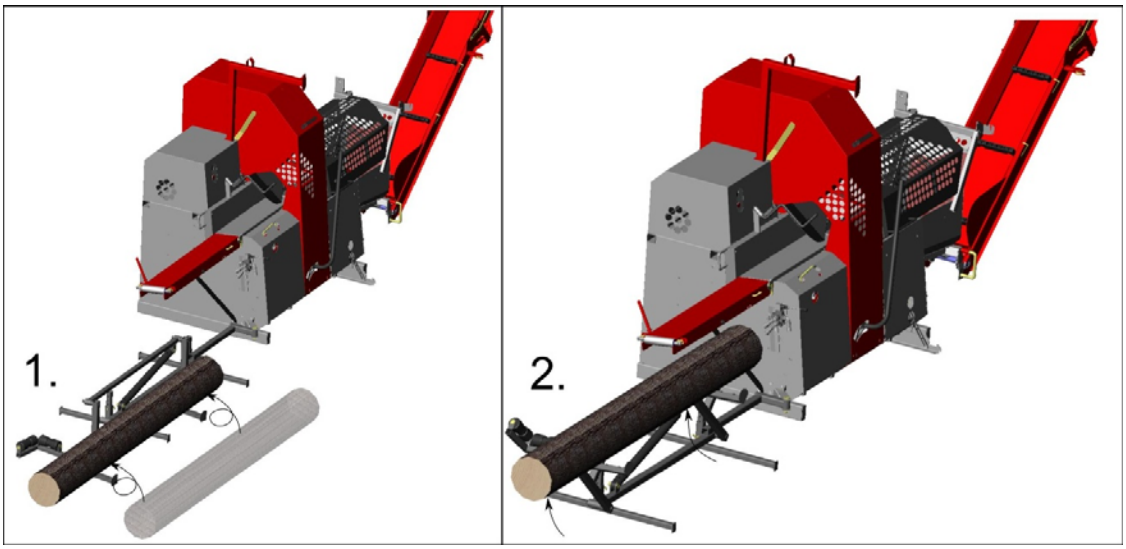
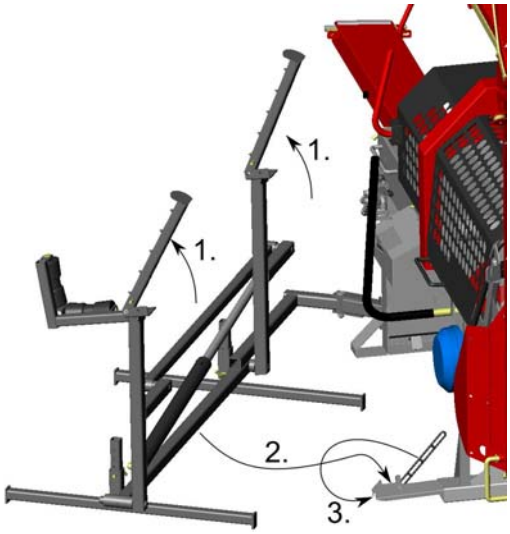


Fig. 11. Operating the lifter

1. Roll the log onto the lifter. Ensure that the lifter remains upright, and that it will not swing to the side while the log is being rolled
2. Exercise caution when lifting the log onto the lifter, so that the log can strike neither you nor the machine with force enough to break it.

Lubricate the joints of the lifter every 100 operating hours.

7 Turning the lifter into the transport position



1. Turn the lift booms to the rear.
2. Turn the lifter to the front of the machine, and lift it into the slot in the support for the locking iron.
3. Tighten the rubber band to the hook in the locking iron.

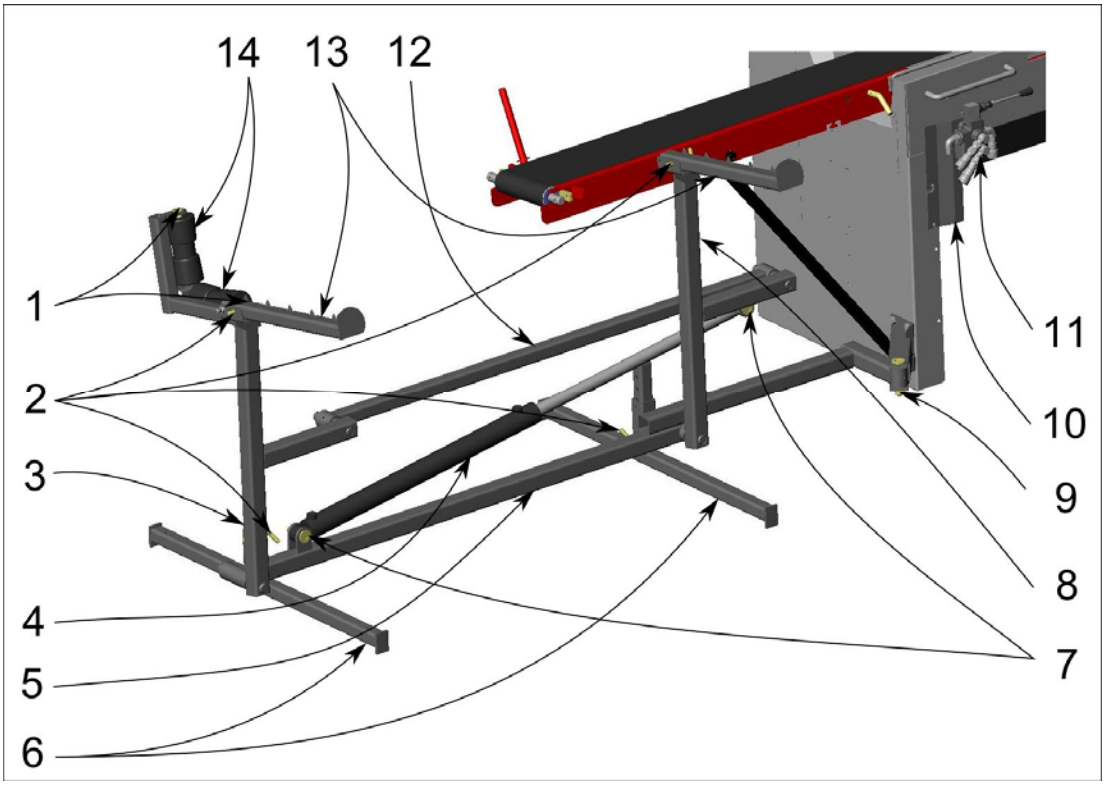
Note!

The lifter must always be turned into the transport position for transport.

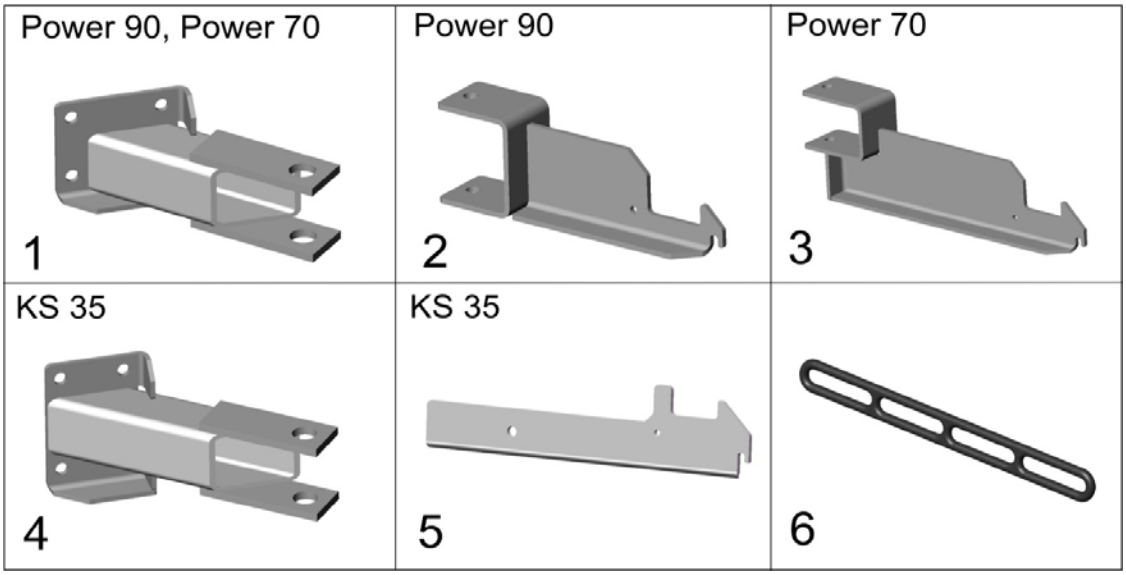
Fig. 12. Bringing the device into the transport position

8 Spare parts

FIN Ordering guide
Look up the picture with the required part.
Note the reference number for the part shown in the picture.
Look up the ordering code referred to by the picture and the part number.
When placing your order, always mention: ordering code, denomination of the item, serial number and
year of manufacture of the machine.



Spare parts 1



Spare parts 2

Picture	Part	Order code	Denomination	Pc.	Note.
1	1	32131	Shaft	2	
1	2	32132	Lock pin	4	
1	3	32133	Lifting arm	1	
1	4	10073	Cylinder 50/36-680	1	
1	5	32134	Frame	1	
1	6	32135	Leg	2	
1	7	11896	Pusher pin	2	
1	8	32136	Lifting arm	1	
1	9	32137	Hinge pin	1	
1	10	32138	Valve support	1	Power70 and KS35
1	11	32139	Valve	1	Power70 and KS35
1	12	32140	Intermediate beam	1	
1	13	32141	Branch	2	
1	14	10592	Keel roller	2	
2	1	32142	Fastening iron	1	Power 90 and Power 70
2	2	32143	Locking iron	1	Power 90
2	3	32144	Locking iron	1	Power 70
2	4	32145	Fastening iron	1	KS35
2	5	32146	Locking plate	1	KS35
2	6	10600	Rubber Cover	1	