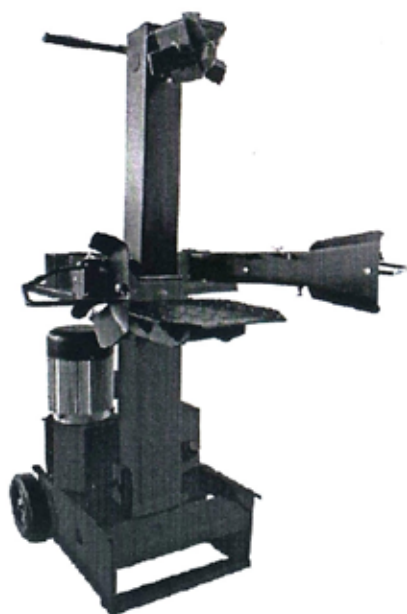


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**User Manual**

**Log splitter 7T**  
**Log splitter 9T**



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## 1 Introduction

### Dear Customer,

We strongly recommend that you become familiar with this operating instruction. It is in the interest of your health that would be put at a risk unless your knowledge of this manual is profound. Presenting you this manual, we wish that your work with the product you have purchased is made as easy as possible. It is necessary to observe the instructions contained herein for the machine to work to your complete satisfaction. Our objective is to improve the products continuously and for this reason, we reserve changes.

**We urgently discourage you from putting the machine in operation without you having got familiar with the contents of this manual!!**

## 2 Precautionary Instructions and Accident Prevention

### General

For safety reasons, precautionary instructions contained in this manual and instructions on the machine regarding operation, maintenance and repairs should be respected and observed.

### Operators

Any use of the cleaving machine may entail hazards. Therefore, only well-instructed and experienced persons should be allowed to handle the machine and to work on it. Operators should be required to wear tight-fitting clothes and protective shoes. No persons below 18 years of age should be allowed to work with the machine. It is permitted however, to have people above 16 yrs of age working with the machine provided that it is necessary for educational reasons and professional supervision is guaranteed.

### **Working Area**

It is an imperative for a safe cleaving job that the floor in the working area is flat and firm-based and sufficient freedom of movement is secured. Ways for bringing and removing the machine in/from the area should be free of any disturbances. Sufficient lighting should be provided in the working area.

### **Job Preparation**

When doing repairs or maintenance or when leaving the cleaning machine unattended, the current supply should be cut off by pushing the red button on the switch **and** unplugging the machine. **It is not sufficient to cut the power supply off by mere switching off.** The cleaving machines are always delivered with hardened cleaving knives. However, light deformation of the cleaving knife cutting edge may arise in result of cleaving wood with unexpected foreign bodies in it – concrete, steel etc. - and whetting or filing must remove it. The knives sharpness maintenance will increase working capacity.

**TIP: Grease the cleaving knives every now and then (for problem wood).**

**Safety devices (primarily two-lever control) must be checked on prior to being put in operation for the first time and the function must be examined.**

**Warning! Make sure that cleaving bench is safely fitted to the machine prior to any starting the operation.**

## **2.1 Residual Hazards and Protective Action**



### **Warning!!!**

Disengagement, change, jamming, disassembly, reconstruction or mounting any parts of the unit safety and protection device is strictly forbidden and this ban is not observed, it may result in severe or fatal injuries.

The manufacturer should not be held liable for any material and personal damage possibly incurred by negligence.

Any warranty claim against the manufacturer shall expire upon any negligence listed above.

## 2.1.1 Mechanical Residual Hazards

Hazard	Description	Protective action	Residual hazards
Nip	<p>The decline of hydraulic knife in the course of splitting may cause nip or cut off of a part of the body. .</p> <p>There is a risk of jamming the material to be split. Please remember that the piece of wood is under a strong pressure when being released and your fingers could get nipped in the splitting opening.</p>	<p>Always use two-hand operated safety elements. Never reach in the area of splitting. Never work in two on the machine</p> <p>Knock out the jammed piece of wood. Watch out for falling pieces of wood, they may hurt your feet/legs.</p>	<p>Worn or damaged aids must be promptly replaced.</p> <p>Watch out for bystanders</p> <p>Wear safety shoes</p>
Cut off, incision	<p>Swift splitting of dry wood may cause severe injuries.</p> <p>Pieces of wood from splitting may fall down and wound the feet of operator.</p>	<p>Never reach in the area of splitting Always keep at a safe distance.</p> <p>Operate the unit carefully and Considerately</p> <p>Always wear required protection clothes and work consciously.</p> <p>Always wear protection goggles when working with the unit e.</p> <p>Always wear required protection clothes and work consciously.</p>	<p>Worn or damaged aids must be promptly replaced</p> <p>Watch out for bystanders</p>
General injuries	<p>Swift splitting of dry wood may cause severe injuries.</p> <p>Pieces of wood from splitting may fall down and wound the feet of operator</p>	<p>Never reach in the area of splitting</p> <p>Always keep at a safe distance.</p> <p>Operate the unit carefully and considerately. Always wear required protection clothes and work consciously.</p> <p>Always wear protection goggles when working with the unit e.</p> <p>Always wear required protection clothes and work consciously.</p>	<p>Worn or damaged aids must be promptly replaced</p> <p>Watch out for bystanders</p>
Catching, winding	<p>Loose-fitting garments, jewels or long hair may be caught by rotating parts .</p>	<p>Always wear tight fitting clothes, avoid jewels and protect long hair with hairnet.</p>	

### 2.1.2 Electrical Residual Hazards

Hazard	Description	Protective action	Residual Hazard
Direct electrical contact	Defective cable or plug may cause an electrical shock  Wounds cause by conductive parts on open electrical or defective structural parts.	Have the defective cable/plug exchanged by a professional. Use the unit only if connected via a faulty current switch (FI). Always unplug before any maintenance.  Operate only with FI switch installed.	Check the supply cable before every use

### 2.1.3 Noise Hazards

Hazard	Description	Protective action	Residual Hazard
Impaired Hearing	Prolonged work with the saw may result in hearing impairment	Always wear ear protectors	

### 2.1.4 Human Factor Neglect

Hazard	Description	Protective action	Residual Hazard
Negligent use of personal protection equipment	Operating the unit without adequate PPE may cause severe external/internal injuries	Always wear prescribed protective clothing and work considerably.	
Inadequate local lighting	Insufficient light is a heavy safety risk.	Provide for sufficient lighting	

### 2.1.5 Other Hazards

Hazard	Description	Protective action	Residual Hazard
Thrown away articles and splashes	The band or mechanical particles may wound your eyes in the course of cutting job.	Always wear protection goggles.	

### 2.1.6 Disposal

Disposal instructions are given by pictographs on the unit or packaging. For meaning of individual symbols refer to chapter "Symbols on Unit".

## 2.2 Operator Requirements

The operator shall read the instruction manual carefully before using the unit.

### 2.2.1 Qualification

No special qualification is required for use of the unit except for detailed direction by a professional.

### 2.2.2 Minimum Age

Only persons above 18 years of age are allowed to work with the unit. .

Exempted from the provision is the use of the juvenile trainees if they work in the course of their professional training with an aim to obtain the skill under a trainer supervision.

### 2.2.3 Training

Use of the unit requires adequate lesson by a professional or the use of the manual only.

Special training is not required.

## 3 Technical Data

Technical Data	Type 7 T	Type 9 T
h x w x l	1540 x 600 x 900 mm	1540 x 600 x 900 mm
Wood maximum length	1040 mm	1040 mm
Wood maximum diameter	300 mm	400 mm
Maximum cylinder stroke	515 mm	515 mm
Rated cleaving force	7 t	9 t
Forward movement speed	ca 0,05 m/s	ca 0,05 m/s
Backward movement speed	ca 0,1 m/s	ca 0,1 m/s
Oil capacity	ca 4 litres	ca 4 litres
Mode of operation	Se	Se
Hydraulic pressure	210 bar	210 bar
Weight	ca 100 kg	ca 110 kg
Supply voltage	380 V / 50 Hz	380V / 50 Hz
Motor power P1	3 kW	4.0 kW

## 4 Maintenance and Care

**Always keep the machine clean.**

Change the hydraulic oil every 500 operating hours.

Use commonly sold hydraulic oil (HLP 46).

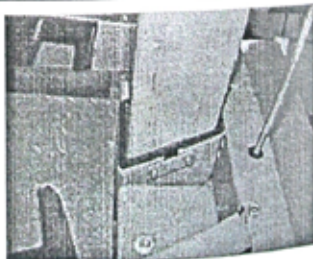
**Grease the cleaving column before every use**

**to increase the service life of sliding jaws.**

Only genuine spare parts should be used for replacement.

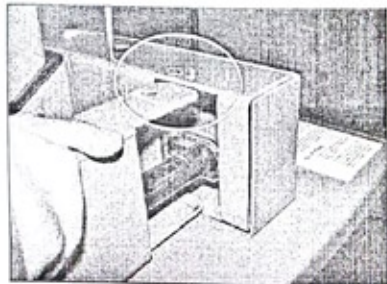
Check hydraulic houses and hose connections for leakage and rupture on a regular basis.

**Caution: Always replenish the oil with the cleaving column retracted!**



## 5 Control Arms and Cleaving Cross Installation

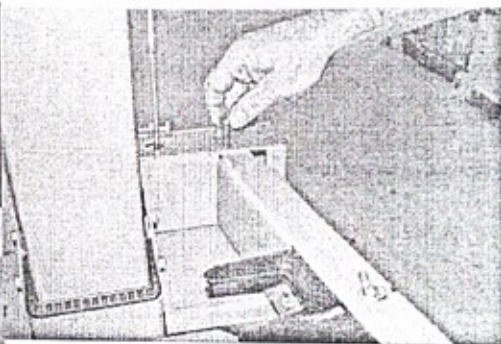
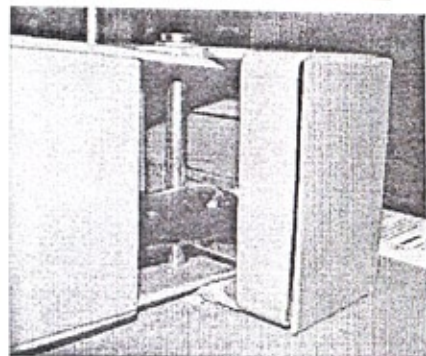
### Control Arms



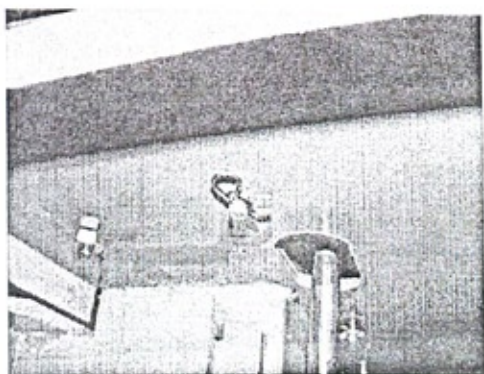
1. Insert the control arm and tuck the pipe in the cross member well.

**TIP:** Before doing that, grease the metal lap plates up and down!

2. Insert the hold-in stud through in front of the cross member.

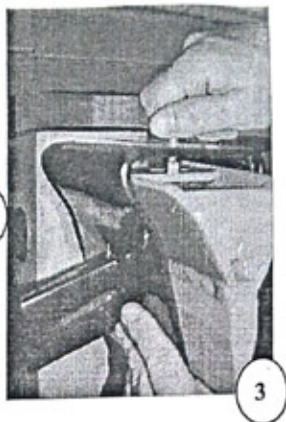


3. Adjust the grabs to correspond to the wood piece diameter



4. Secure the hold-in stud bottom with a cotter pin included in the delivery

## Cleaving Cross Assembly



1. Screw the holding screw in the cross up to the half
2. Screw on the nut included from outside.
3. Fit the cleaving cross on a screw the holding screw in the knife recess until the nut fits on tightly.
4. Adjust the screw and the nut for the cleaving cross to get pushed completely up.
5. Secure the terminal position with a Spanner and tighten.

## 6 Area of Use

The machine is approved for wood processing only. The material to be cleaved shall be of dimensions as follows:

- Minimum diameter: 120 mm  
Maximum diameter: 300 mm

- Wood is permitted to be cleaved in the direction of grain only.
- There is a risk of jamming of branchy wood while being cleaved.
- The jammed pieces may be knocked/banged out.
- Never cut it out!

### Cleaving Length Set-up

Various lengths of wood pieces may be cleaved:  
Cleaving length ca 1050/560 mm.



## 7 Operation

1. Switch the motor on pushing the green starting button. **Caution: With 400V version, see to the motor rotation direction**
2. With 230 V models, have the supply cable as short as possible and the cross section as large as possible.
3. **At low temperatures, have the machine idling for about 15 minutes for the oil to get warmed to the required temperature.**
4. Lay a piece of wood to be cleaved on the table and hold it to the lever using anchoring wires/grabs.
5. Start cleaving pushing both the levers downward.
6. with cleaving completed, lift one lever at least, the cleaving column will go up automatically.

**It is strictly forbidden for two persons operate the machine at a time, when one would hold the wood and the other one would operate the wires/grabs. Never block the lever (anchoring wire/grab).**

With pieces up to ca 50 cm long or a bigger quantity, it is possible to increase the working capacity by making the cleaving knives reverse shorter.

### **Procedure is as follows:**

Lay a short piece of wood on the table, lower the knife down to be at a distance of ca 2 cm above the piece and put the machine off (push red button on the switch and unplug). Now, you may adjust the reverse run using the side rod fixing the rod at a required height with an adjusting screw.



## 8 Electric /Hydraulic Connection

### **Connection to mains**

In compliance with professional organizations „CE“ and other stipulations, all the cleaving machines have under voltage circuit breakers in the switches. It prevents self-starting of the machine, if power supply is cut off in result of an outage unintentional unplugging, defective fuse etc. The machine should be re-switched on by pushing the green switching button.

Considering the absence of neutral conductor, wilful hold on or blocking the button will automatically result in the switch cut off. If that is the case – at it may be subsequently identified – the warranty will

### **400 V machines only:**

**The motor rotation direction must be observed. (see the arrow on the motor) as the run in a wrong direction may damage the oil pump. If that is the case, any claims arising from the warranty becme void. If necessary, have the rotation direction changed by exchanging poles of the plug at an electrician's. See the figure. (3-phase current models only!)**



#### Hydraulics

Hydraulic hoses and joints shall be checked for leakage every 4 hours of operation and retightened if necessary.

#### Hydraulic oil/tank

Common hydraulic oil may be replenished in all cleaving machines (HLP 46 e.g.) or another product of the same viscosity. Oil change is not necessary.

### 9 Transport Directions

#### Transport

All cleaving machines have large wheels. To move the machine, hold the cleaving column lug with one hand and the lug above the motor with the other hand and tip the machine slightly over to your body.

Once in this position, the machine may travel easily.

**Never transport the cleaving machine in horizontal position to prevent any leakage of fuel and hydraulic oil.**

**For transport, move the cleaving knife down completely.**

### 10 Warranty

Warranty according the warranty certificate attached.

### 11 Faults

Fault	Cause	Removal
No output generated by the machine	<ul style="list-style-type: none"><li>- Wrong rotation direction (for 400 V machines only)</li><li>- Too little hydraulic oil</li><li>- Bent starting rod, valve follower is not pushed back completely .</li></ul>	<ul style="list-style-type: none"><li>- Have a professional to change the rotation direction.</li><li>- Replenish hydraulic oil.</li><li>- Align the rod mechanism, tighten the respective nuts.</li></ul>
Green switching pushbutton will not hold in place when pushed.	<ul style="list-style-type: none"><li>- Neutral conductor, not connected</li><li>- Defective fuse etc (on 400 V machines only)</li><li>- 2-phase run (on 400 V machines)</li></ul>	<ul style="list-style-type: none"><li>- Have the cable/connection to the mains checked by a professional</li><li>- Check the cable</li></ul>
Hydraulic pump whistles and operation of the cleaving knife is jerky	<ul style="list-style-type: none"><li>- too little hydraulic oil in the tank</li></ul>	<ul style="list-style-type: none"><li>-Replenish the hydraulic oil</li></ul>

This machine should not be used for any other works than those, which the machine is designed for and which are described in the operation manual.

## 12 List of Spare Parts

