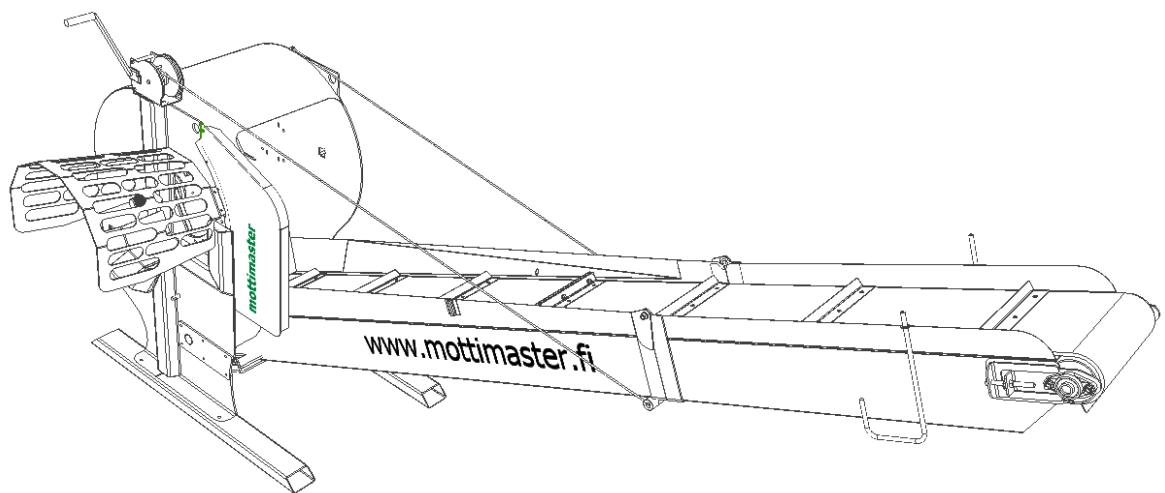


mottimaster®



Operator and service manual

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SERVICE AND OPERATION INSTRUCTIONS

This machine is designed for use by oneself.

This manual uses following symbols to point out safety related issues.

Warning sign



This sign is always related to safety warning. Study the text carefully and follow the instructions.

General attention sign



This sign is highlighting instructions for safe operation of the equipment or instructions for maintenance. Study the text carefully and follow the instructions.



Käytä suojalaseja, kun työskentelet koneella.



Käytä kuulonsuojaimia, kun työskentelet koneella.



Käytä suojakäsineitä, kun työskentelet koneella.



Käytä suojajalkineita, kun työskentelet koneella.

Ec declaration of conformity

HOLMET OY

Keskikankaantie 27, 15860 HOLLOLA, FINLAND

declares that the following machinery that is placed on the market
MottiMaster conforms to the Machine Directive 2006/42/EY and to the national
decrees (VNp 1314/1994) through which they have been brought into force.

Equipment is designed according to following unified standards SFS-EN ISO 12100

Hollola 19th April 2006

Reima Niemeläinen
General Director

General information

For operator:

This machine is designed and manufactured for processing firewood. **This machine is designed for use by oneself.** Machine can be used only carefull and healthy person. MottiMaster cuts and splits the wood simultanously. Maximum diameter of the wood to be processed is 20 cm (8"). When you process hard wood like oak, rowan or beech, the timber must be recently harvested. Lenght of the wood can be adjusted to 25, 33, 40, 50 and 60 cm

Before operating this equipment operator must be familiar with operator, maintenance and design instructions. MottiMaster is safe to use and will give best performance if you operate and maintain machinery according to these instructions.

This equipment is designed to be used outdoors between temperatures of -30 °C and +30 °C. Equipment can be washed with power-washer but after power-washing you must redo the lubrication.



These instructions are ment to help operator to remember safe working methods.

IMPORTANT: After familiarizing these instructions keep them available with the machine. If you loose these instructions, order another set from the manufacturer.

TRANSPORTING, OPERATING AND STORING

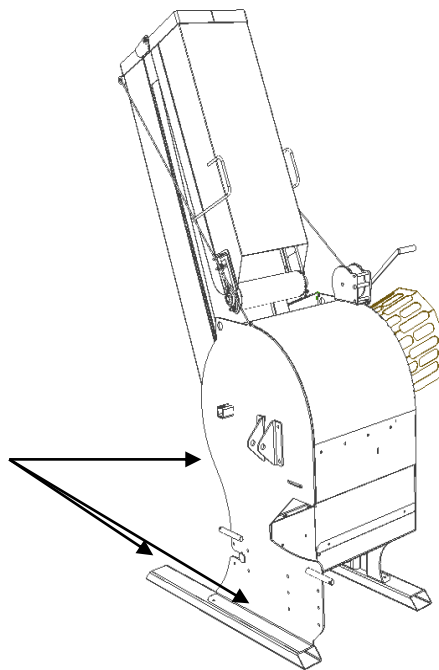
Transporting

The machine can be transported with threepoint connectors in the tractor. Conveyor has to be locked with two locks to transport position. One locking device is keeping conveyor in folded position and the other one is locking conveyor to the frame of the machine. Conveyor belt has to be locked to the conveyor with its locking device, otherwise belt can be damaged beyond repairs.



Transporting the machine so that conveyor is supported with winch and wire rope is absolutely forbidden.

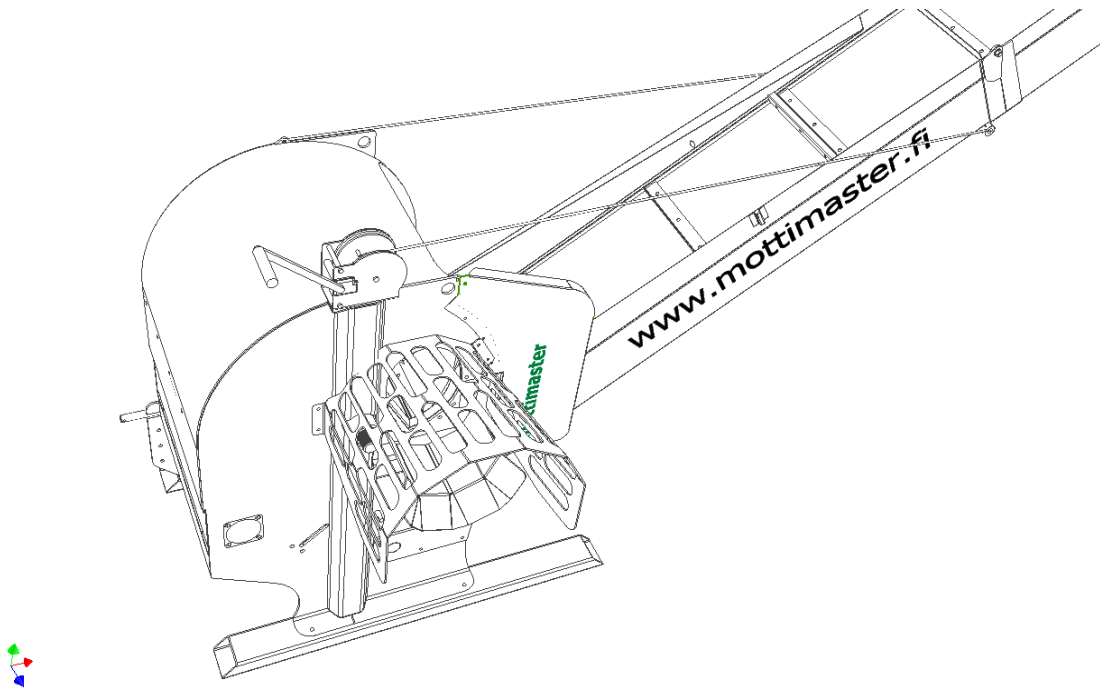
Machine can be lifted from lifting eyes on top. Machine weighs about 500kg (1100 lb).



Storing

This machine can be stored outdoors. Storing the equipment for a long time it is advisable to clean and lubricate the machine. Machine should be covered with a canvas. Carefull storing increases the lifetime of the machine and also putting machine back to operation is quicker and easier.

After storing while putting machine back to operation machine has to be inspected. Possible snow and ice must be removed before operation. Conveyor belt must be inspected carefully so that it is not frozen to the frame.



Putting the machine into service

This machine is designed for use by oneself.

Before putting the machine to the operation you have to familiarize this operation and safety manual.

Check that all the protective covers (4 pcs) are mounted properly

Check that all the bolts are fastened tight.

Lubricate the machine according to the instructions.

Remember safety equipment: safety glasses, ear protectors, protective gloves and protective shoes.

Connecting the machine

Machine is mounted to three point connectors in the back of the tractor. Machine is powered from PTO via articulated shaft. When machine is operated it has to rest on its supportbeams horizontally.



When you mount the articulated shaft check that it's length is correct even when the machine is lifted up from the ground.

Recommended articulated shaft: Walterscheid, Axle 6, W2400, 860MM

Operating the machine

THIS MACHINE IS DESIGNED FOR USE BY ONESELF!!

During operating the machine both tractor and machine should be on level firm surface and operator must make sure that machinery is not starting to move during processing the wood.

Before starting to operate check that all the protective covers are correctly mounted and bolts are tightened properly. Operator has to be familiar with this operator manual. Operator has to make sure that no children or outsiders are in the working area when operating. It is highly recommended to use protective gloves when operating. Check that the gap between blades' cutting edges is not more than 2 mm. Bigger gap will cause sudden hits to wood and this way making the operation difficult. Adjust the gap according to instructions.

The lopped wood will be fed trough the feeding guide to the machine.



When you feed the wood to the machine stand always on the left side of the wood. If the wood for some reason moves it will be to the right

When you want the wood to split into four pieces rotate the wood between cuttings 90° Cutting speed can be adjusted by adjusting the rotation of tractor engine. If conveyor is stopping check that conveyor belt tightening is correct.



During the operation you must make sure that the splitting waste is not getting to the chain. If this happens it can cause damage to chain or sprocket

In overload situation machine will stop because of power feeding shaft has bolts that will break. If this happens make sure that you replace bolts with same 8.8 grade bolts than originals. Bolt size is M8x35, and in the bolts you have the grade marked. If you replace bolts with wrong grade bolts machine will not work correctly in overload situation. If you have problems contact the manufacturer.



If wood is jammed inside the machine you have to stop operation before clearing the jamm in the machine

MAINTENANCE AND ADJUSTMENT INSTRUCTIONS

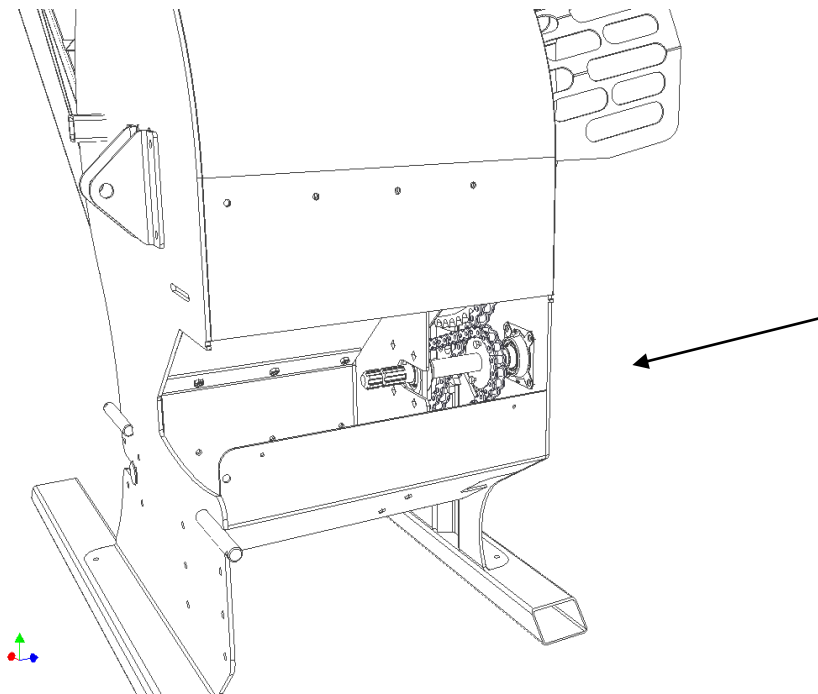
Maintenance

Daily maintenance



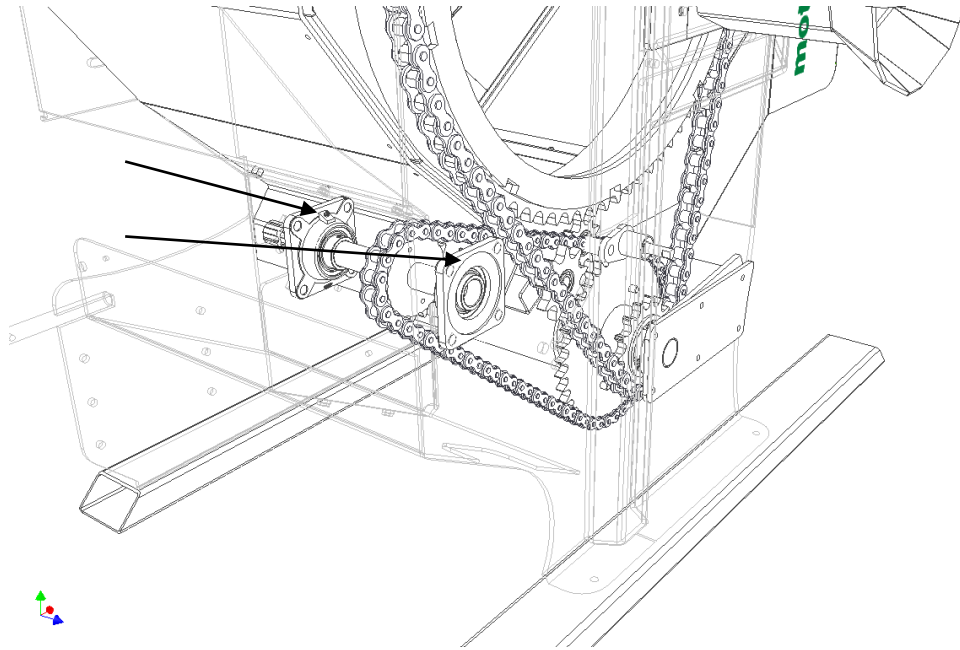
When carrying out service and adjustment work machine must always be stopped!

Roller chain must be lubricated every day when operating. Also the slack movement in chain has to be inspected before starting to operate. Chain adjustment is done by moving the adjustment pieces. Spray grease is suitable lubricant.

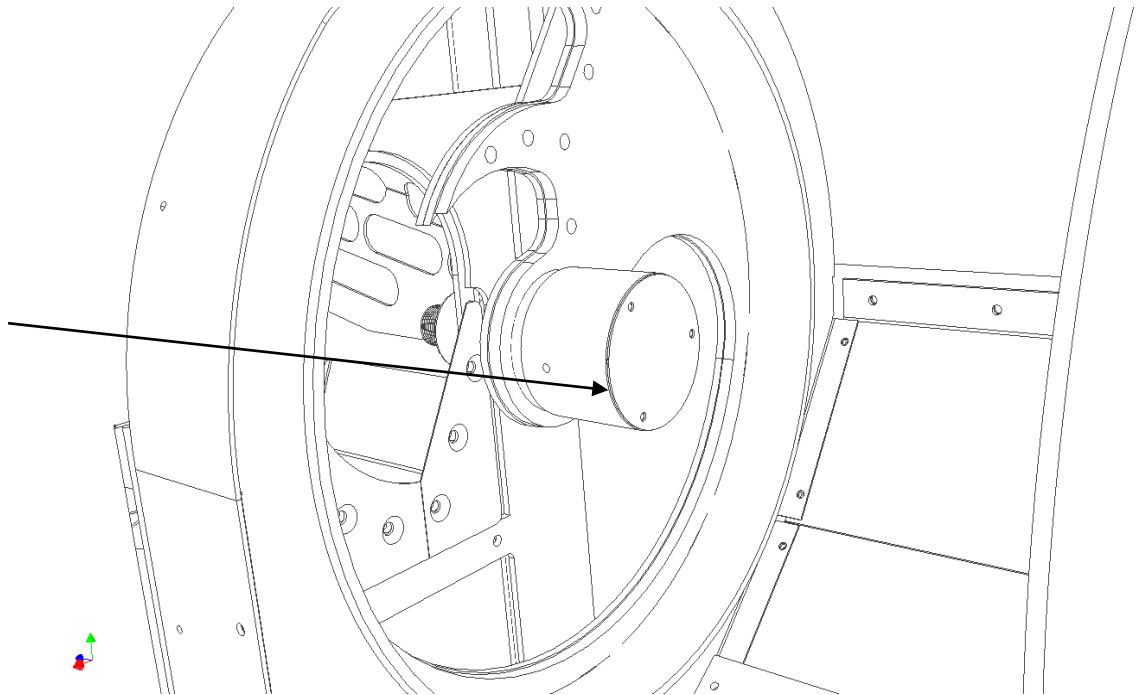


Lubricating points

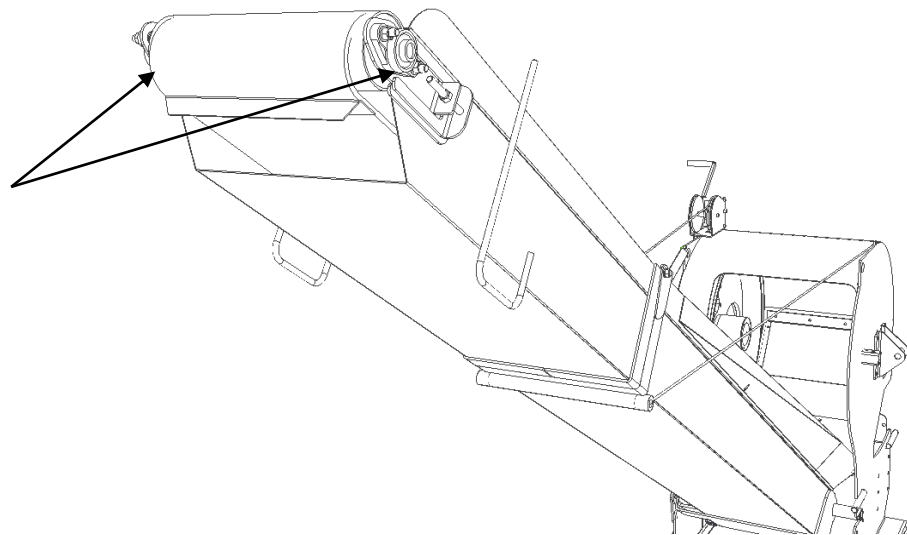
Behind the machine there is a hatch that can be opened with 13 mm tool unscrewing two bolts and lifting the hatch away. Under the hatch there is primary power shaft with two bearings. These bearings must be lubricated every 4 months.



Wheel that is rotating the cutting blade needs lubrication every week when operating.



Conveyor driving wheel needs lubrication every week when operating. Conveyor upper roller needs lubrication every two weeks when operating.



Adjusting cutting blades

△ The clearance between rotating and stationary blades affects safety and cutting performance. Clearance must always be less than 3 mm. Blunt blades must be sharpened and worn out blades must be replaced. Sharpening the blades is easy to do with small angle grinder and lamel disc.

If clearance between blades is growing rapidly first check tightening of the bolts and generally the shape that machinery is. Normal wear can be compensated by adding shims between frame and blades. Only original shims supplied by manufacturer can be used.

△ Never use standard washers to adjust clearance. This can cause blades, frame or bladewheel to bend.

Adjust the clearance by loosening bladebolts. Add shimplate between blade and frame and tighten the bolts.

Removing stationary cuttingblades

Stationary cuttingblades can be removed by opening 9 pcs mounting bolts. Bladewheel must be in right position to allow access to all bolts .

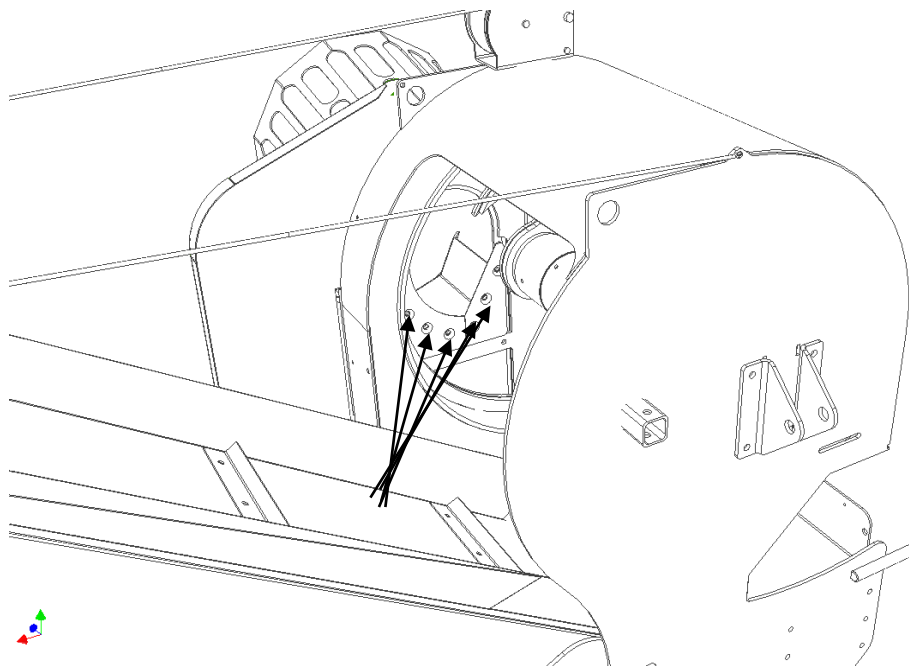


To rotate blade wheel into right position do not use tractor. You can manually rotate the machine from primary shaft. Use tools, for example pipewrench, to help rotation.

It is necessary to remove stationary cuttingblades only when they are worn-out. Sharpening the blades is easy to do with small anglegrinder after removing the feeding hole cover.

Removing rotating cuttingblades

Rotating cuttingblades can be removed by opening 5 pcs mounting bolts from bladewheel.

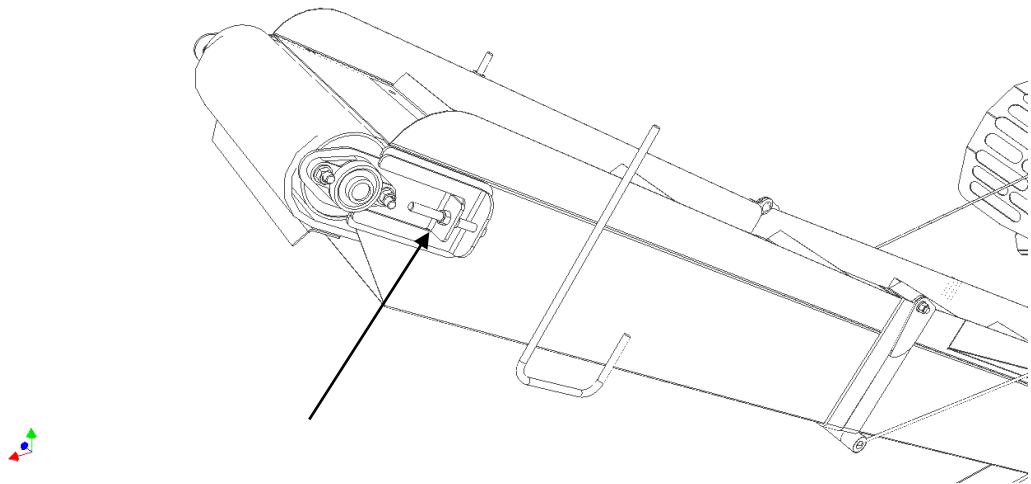


Conveyor

Adjusting the belt



It is recommended to inspect belt tightening and alignment always when you start operating the machine. This practise is securing long service life to conveyor belt. Slack belt is wearing out rapidly and too tight belt is shortening bearing life.



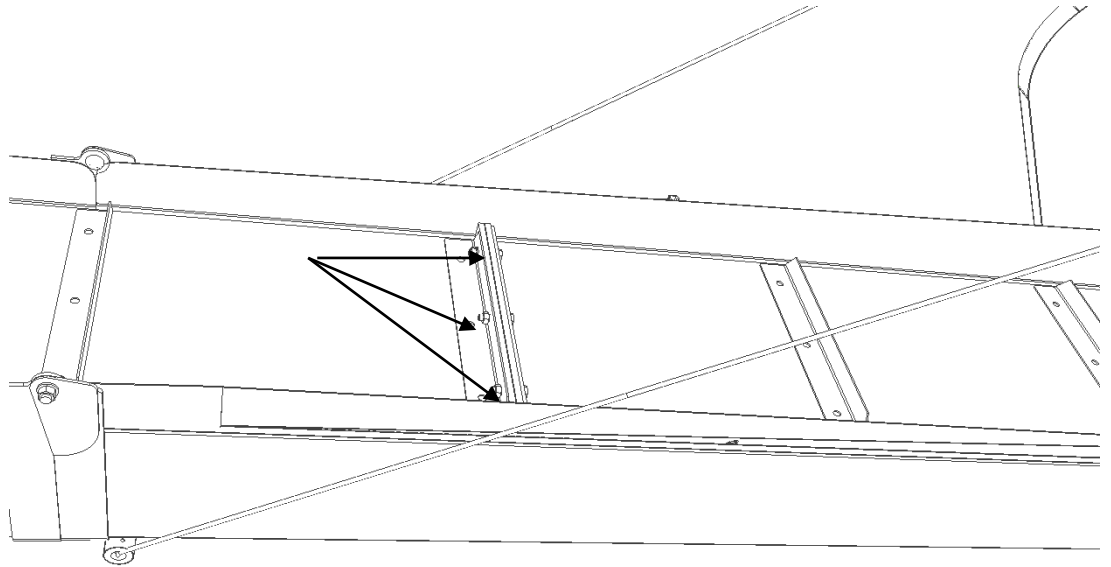
Conveyor belt can be adjusted by turning bolts in the end of the conveyor. Adjustment is correct when you can manually stop the rotation when the machine is rotating.

Alignment is also very important. If belt leans left you have to tighten left bolt slightly or loosen right bolt. If belt leans right you do the opposite.

Dismounting the conveyor

Dismounting the conveyor is necessary if the conveyor is mechanically damaged. Changing the belt can be done without removing the conveyor.

To remove the belt rotate it until joining point is visible. Open bolts from connection and remove belt. Adjust belt after assembly.



SAFETY INSTRUCTIONS

This machine is designed for use by oneself.

Do not put the machine into operation before operators are familiar with safety and operation manual.

Be carefull with the rotating blade. Do not put yout hand to the feeding hole or inside the machine.

Do not carry out maintenance or adjustment when the tractor is running.

Keep the protective covers mounted. Check also covers from articulated shaft.

Keep the children away from the machine. Rotating blade, even when machine is disconnected, can cause serious injury.

Always check tightening of bolts before operation.

Check articulated shaft shape, angles and length.

Feed wood always from your right side.

Press the wood against the stationary blade when cutting.

Always operate machinery on hard and level surface. Keep the working area tidy.

Clean the machine often enough so that no chips are sticking to chain.

Keep the conveyor in transport position when you move the machine.

When you transport machine on rough roads you have to use low speed to prevent damages.

Use safety glasses, ear protectors, protective gloves and protective shoes when you use the machine.

Use the appropriate clothing when you use the machine.

SPAREPARTS LIST