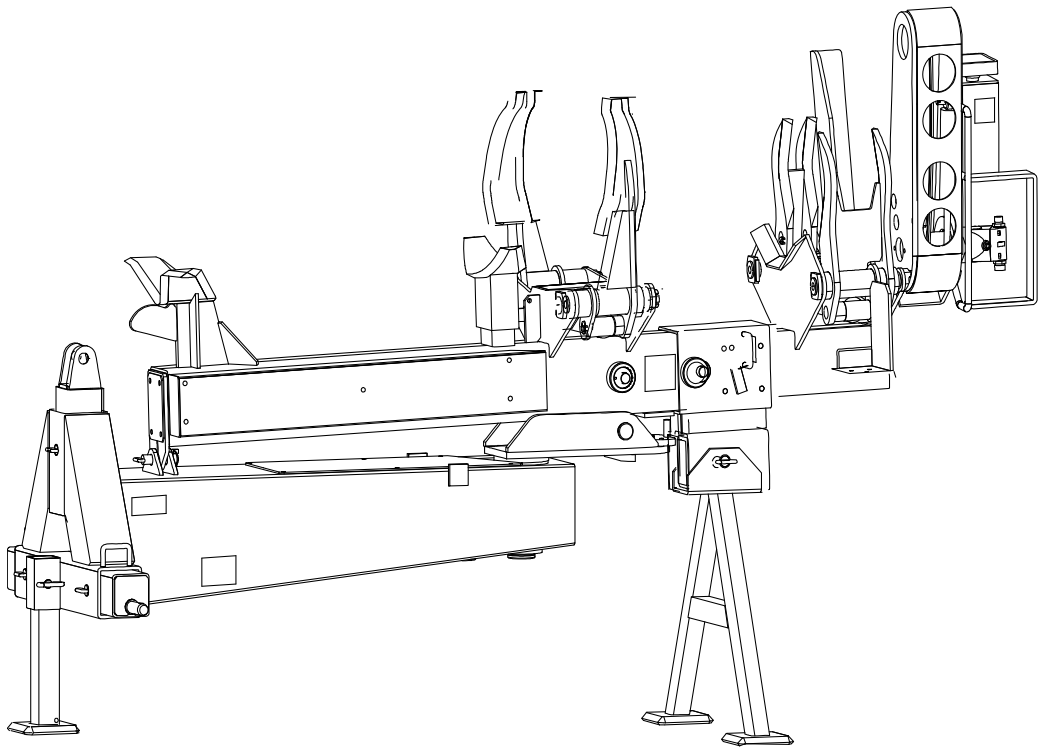




KESLA

STROKE DELIMBER



***OPERATION
MAINTENANCE
SPARE PARTS***

Declaration of incorporation for Partly Completed machinery

Manufacturer: Kesla Oyj
Kuurnankatu 24, FI-80100 JOENSUU, FINLAND

Name and address of the person authorised to compile the relevant technical documentation:

Riku Väyrynen
Kuurnankatu 24, FI-80100 JOENSUU, FINLAND

Herewith declares that for the Partly Completed Machinery

Stroke delimber KESLA 40LF

Serial number: _____

- The following essential requirements of the Machinery Directive (2006/42/EC) are applied and fulfilled: 1.1.1, 1.1.2, 1.3.2, 1.3.4, 1.3.6, 1.3.7, 1.3.8, 1.4.1, 1.5.3, 1.5.4, 1.5.11, 1.6.1, 1.6.2, 1.7.1, 1.7.1.1, 1.7.3, 1.7.4, 1.7.4.1, 1.7.4.2, 1.7.4.3
- The relevant technical documentation is compiled in accordance with part B of Annex VII and that this documentation or parts hereof will be transmitted by post or electronically in response to a reasoned request by the national authorities
- And that this partly completed machinery is in conformity with the provisions of the following other EC-Directives

And furthermore, declares that

- This partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of the Machinery Directive 2006/42/EC, where appropriate
- the following (parts/clauses of) European harmonised standards have been used

SFS-EN ISO 12100, EN ISO14121-1

- the following (parts/clauses of) other technical standards and specifications have been used

ISO/TR 14121-2

Place, date: Joensuu 27.12.2011

Signature: 
managing director, Jari Nevalainen

KESLA STROKE DELIMBER

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1 GENERAL

Kesla Stroke Delimber is well-suited for self-employed forest owners or light contracting use.

Work is conducted on the skidroad and the stems are fed in from both sides of the skidroad.

Kesla Stroke Delimber delimbs, cross-cuts and piles the timber along the skidroad ready for forwarding.

ACQUAINT YOURSELF CAREFULLY WITH THESE INSTRUCTIONS and you will avoid unnecessary troubles and downtime. Teach yourself to operate the processor correctly and you will find it a safe and efficient machine to work with.

Type plate:

		☐ FIN-80100 Joensuu	☐ FIN-59800 Kesälahti	
		Tel. +358 (0)207862841		
Type	KESLA	Year	201	
Serial No		Weight		kg
Loader class		Max. pressure		MPa
				3280507

2 TECHNICAL SPECIFICATION

Length	minimum 2440 mm (8')	maximum 3690 mm (12' 1")
Width	840 mm	
Height	1350 mm (4' 5")	with parking legs 1700 mm (5' 7")
Weight	540 kg (1190 lbs)	

To be mounted on Kesla loader A-frame or tractor 3-point hitch. The control valve of the processor to be serial connected with the valve of the loader.

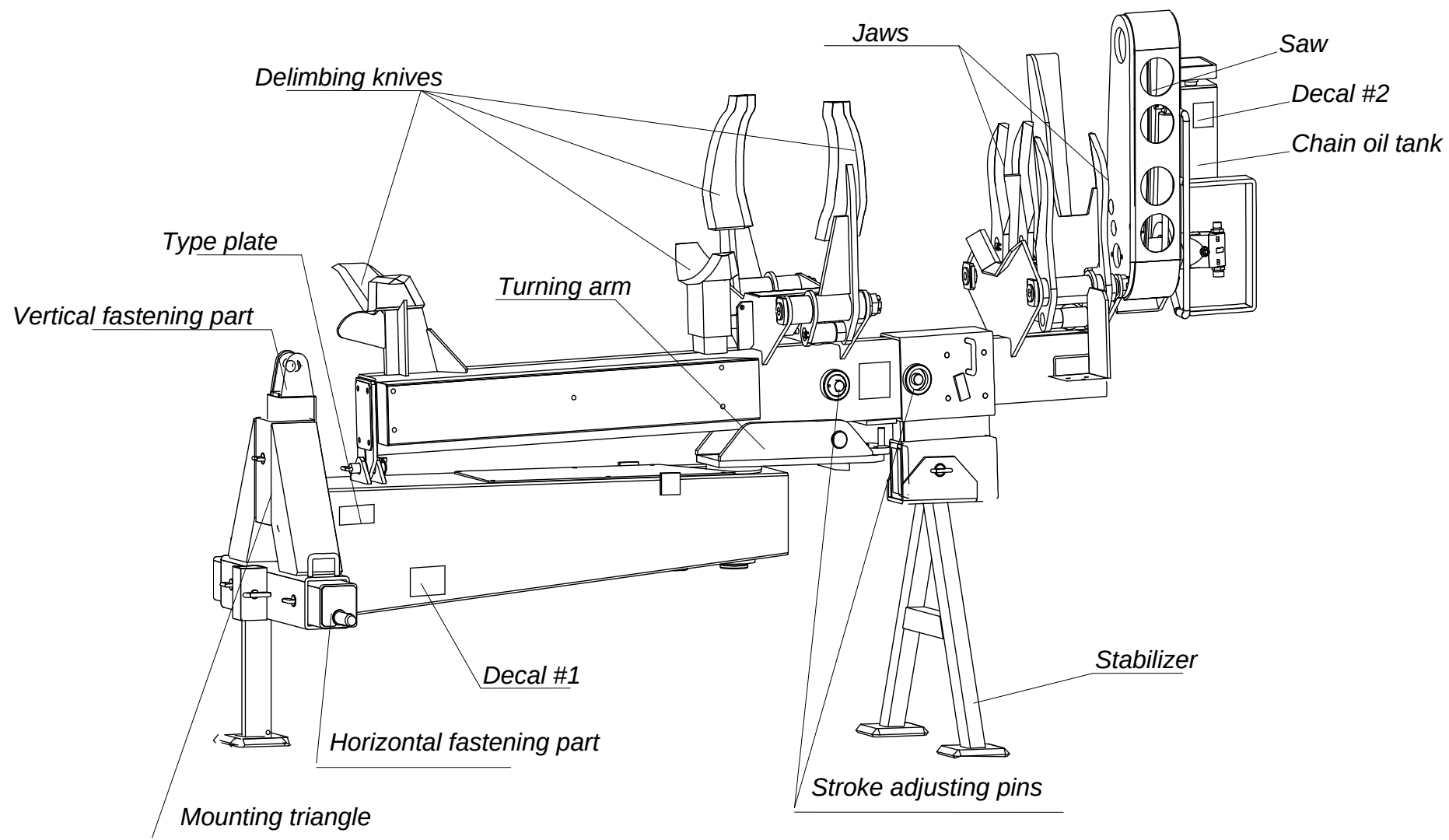
Working pressure max	210 bar (3000 PSI)
min	175 bar (2500 PSI)
Oil flow	50 – 60 l/min (11 – 13 GPM, UK 13 – 15 GPM US)
Stroke of delimbing cylinder	1000 mm / 1220 mm (4') / 1250 mm
Slewing angle	260°
Slewing torque	1100 – 2200 Nm (800 – 1600 lbft)
Tilting angle knife end	15°
saw end	5°
Cutting diameter max.	400 mm (16")
Delimbing diameter max.	350 mm (14")
Cross-cutting saw	
- bar	16"
- chain	.404"

The following valves with pressure 175 bar (2500 PSI) and flow 50 l/min (11 GPM UK, 13 GPM US)

- delimbing power	21500 N (4800 lbs)
- delimbing speed, stroke out	0,66 m/s (26" /s)
- delimbing speed, stroke in	1,20 m/s (47" /s)
- saw power	12 kW (16 hp)
- chain speed	38 m/s (125' /s)

KESLA STROKE DELIMBER

2.1 MAIN PARTS



3 MOUNTING

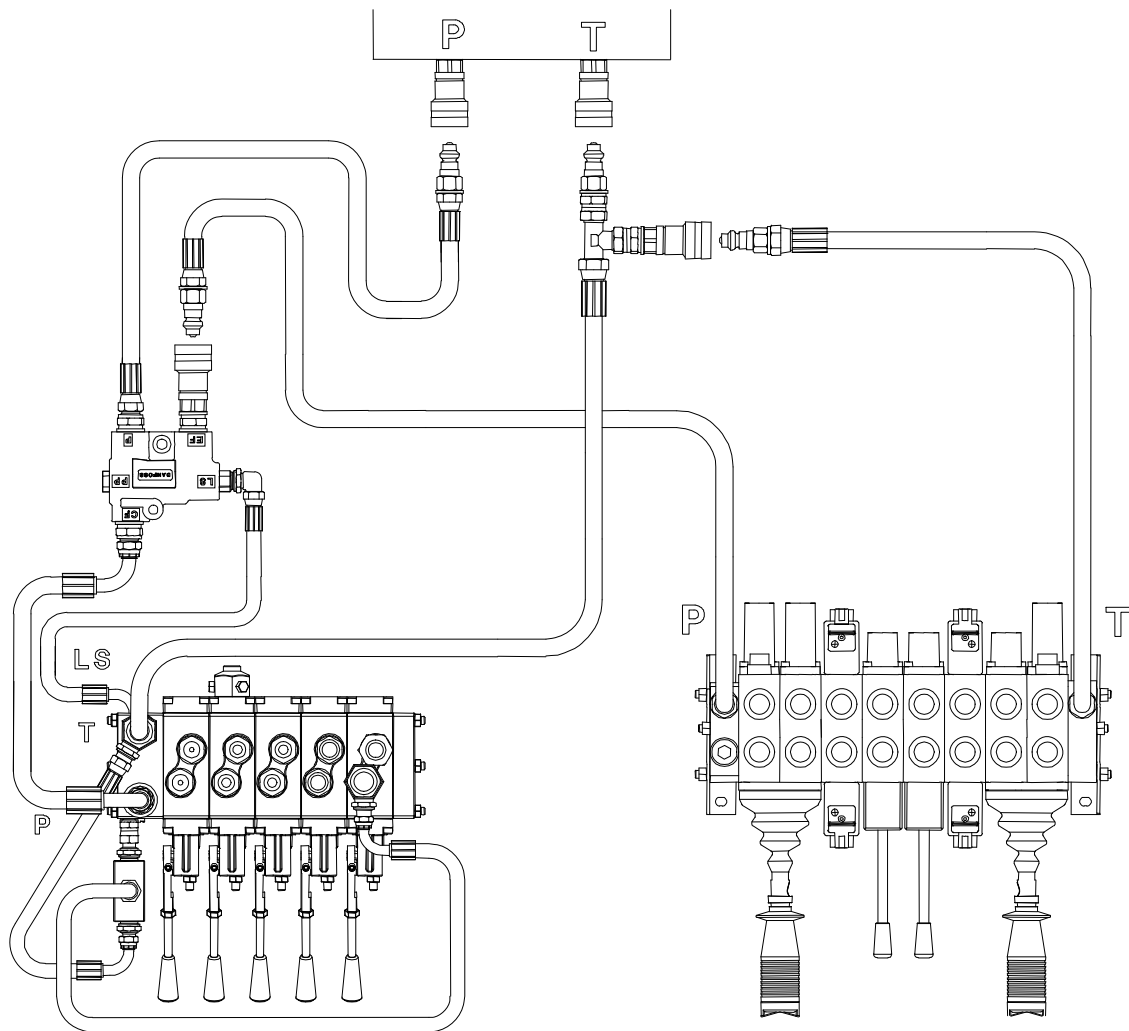
The lower frame of the processor has turnable mounting heads for mounting either on a Kesla loader A-frame or a tractor 3-point hitch. The mounting parts fit on the Kesla 203/203T A-frame.

The control valve (5 spindles) is to be serial connected with the valve of the loader with help of a priority valve.

Make sure that the hydraulic system has a pressure or a return filter (Filtering efficiency of 0.01 mm). The filter must be changed frequently.

MAKE SURE THAT STRICT CLEANLINESS AND CAUTION IS ALWAYS OBSERVED WHEN HANDLING HYDRAULIC COMPONENTS .

Figure 1



Processor control valve

Loader control valve

4 OPERATION

Fill the chain oil tank (capacity about 2 litres).

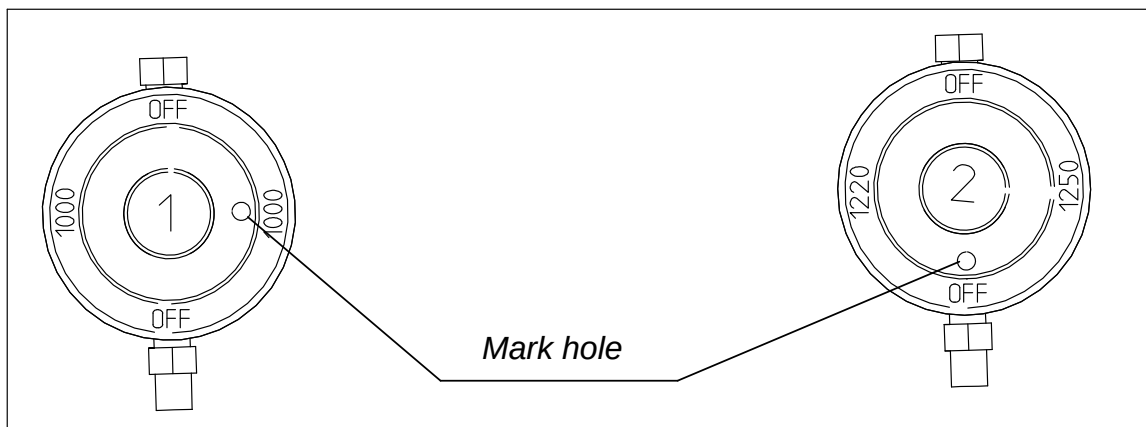
Because the lubrication oil is transferred to the chain by gravity the oil must be thin enough in cold conditions. Normal mineral based chain oil is too viscous already in temperatures below +10°C (48°F).

Use by preference ecological chain oil.

Choose the stroke length 1000 mm, 1220 mm (4') or 1250 mm (figure 2).

Don't forget to set the pins at both sides of the frame.

Figure 2



In the figure the stroke is adjusted at 1000 mm.

Adjusting to e.g. 1250 mm:

Remove the lock screws of all the four pins. Pull out and turn the pins no.1 so, that the mark hole (Ø 5 mm) points to OFF. Push in and turn the pins no.2 so, that the mark hole points to 1250. If stroke length 1220 mm (4') is chosen, the pin has to be turned so, that the mark hole points to 1220. In the end mount all the lock screws.

Open the chain oil faucet (the faucet is open when it is vertical). Open the jaws and the delimbing knives by control valve levers. Lift the stems with the loader onto the processor table, between the jaws and the delimbing knives.

If the butt of the stem is past the cross-cutting saw, close the knives and push the sliding boom out so that the saw bar is at the end of the stem. Then close the jaws.

While delimbing, press the knives against the stem all the time. When the stem has heavy limbs, press also the jaws with the lever while delimbing.

When returning the saw blade with the lever movement after cross-cutting make sure that it comes all the way up.

Always cross-cut the timber when the sliding boom is out, then the pile will be formed away from the tractor wheels.

Use of the firewood splitter:

- Mount the boom and the splitting knife.*
 - Adjust the firewood length.*
 - If the limbs are not very heavy, delimbing and splitting can be made simultaneously. If the limbs are too heavy, open the jaws and make a separate splitting movement.*
- The splitting power is usually sufficient for stems with about 25 cm (10") diameter.*

5 SERVICE

The service need of the hydraulic system is normally very little, when the oil is clean enough and impurities are prevented from entering the system. Take care of cleanliness when servicing the hydraulic components.

Greasing

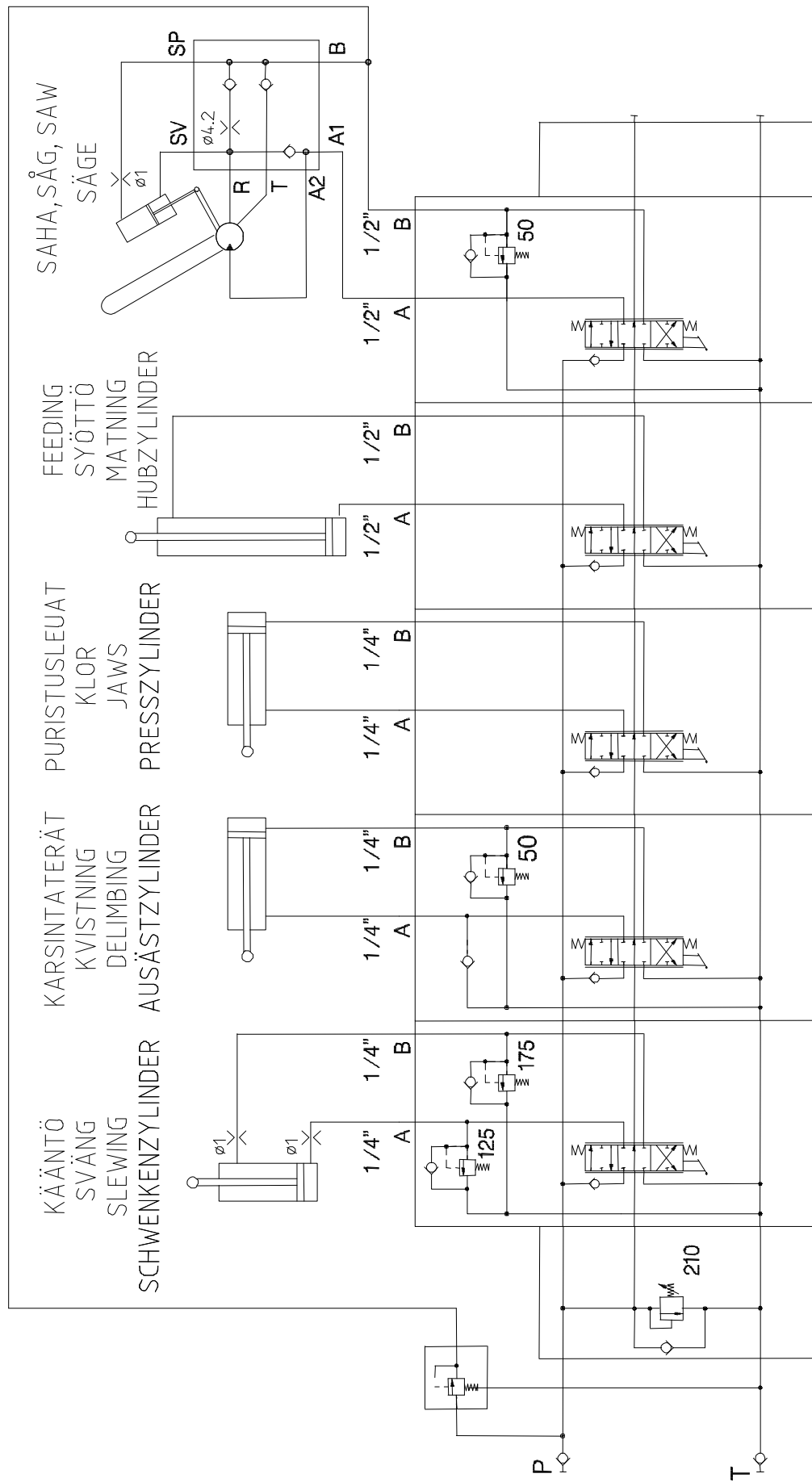
Grease the 13 greasing points (grease fittings) of the processor a couple of times a week, depending on use. Use general purpose grease. Grease the teeth of the slewing mechanism with grease for open teeth, e.g. molybdene sulphide based:

Esso Surret Fluid 30 F

Shell Cardium EP Fluid H

Mobil Dorcia 30

Grease the sliding boom once a day with general purpose grease, e.g. Esso Beacon EP 2.



7 TERMS OF WARRANTY

A manufacturer's warranty of six (6) months from the date of delivery is given to the products named in the enclosed Bill of Delivery.

The warranty will cover any defects in the machine or equipment due to faulty raw materials, structural failures and faulty workmanship. The defective part of the machine or equipment is replaced free of charge with a new or reconditioned part by the guarantor.

The warranty shall not apply to any faults or defects arising from normal wear, negligence or improper operation, faulty installation or incorrect or inadequate maintenance. The manufacturer will not assume any liability for any economical losses or for any consequential damage to persons or property which may incur through product failure.

The warranty shall be invalidated, if any repairs to the warranted product have been made by others than the manufacturer or a service shop authorized by the manufacturer, or the equipment has been altered.

The warranty will apply provided that the enclosed combined Bill of Delivery and Possessor's/Owner's Assurance of having read and understood the manual is returned to the manufacturer within fourteen (14) days from delivery.

A written warranty claim must be submitted to the guarantor without delay, within fourteen (14) days at most after the fault appeared.

RESPONSIBILITY FOR DAMAGE

Kesla Oyj will not be responsible for any damage caused by the machine, if the instructions and safety instructions in the manual are not followed. The machine shall not be taken into use before the manual is thoroughly read and understood.

The responsibility of Kesla Oyj for damage shall apply only, when the enclosed combined Bill of Delivery and Possessor's/Owner's Assurance of having read and understood the manual is returned to the manufacturer within fourteen (14) days from delivery.

KESLA OYJ
59800 KESÄLAHTI
FINLAND
Phone +358 207 862 841

8 WARRANTY

_____ / _____ 20_____

SERIAL NUMBER _____

SELLER:

KESLA OYJ
FIN 59800 KESÄLAHTI

Seller's copy

9 BILL OF DELIVERY

____ / ____ 20 ____

Product _____	Owner/Possessor _____
Serial number _____	Building/Street _____
Accessories _____	Postcode and town _____
_____	_____
_____	Phone _____
_____	Seller _____
_____	_____

KESLA OYJ
Metsolantie 2
FIN 59800 KESÄLAHTI
FINLAND
Puh. +358 207-862841 Fax. +358 13-
6100322

To be sent back to the manufacturer

9.1 BILL OF DELIVERY / OWNERS / POSSESSORS ASSURANCE OF HAVING READ AND UNDERSTOOD THE MANUAL

____ / ____ 20 ____

Product _____	Owner / Possessor _____
Serial number _____	Building / Street _____
Accessories _____	Postcode and town _____
_____	_____
ASSURANCE I have read and understood the user's intructions and safety instructions of the manual	Phone _____
_____	Seller _____