ID: 19504

ENG

LOG SPLITTER LANCMAN
TYP: STX11, STX13, STX17, STX21, STX22, STX26

V: 1.3



LANCMAN STX11



LANCMAN STX13 / STX17



LANCMAN STX21



LANCMAN STX26

USER'S MANUAL

LANCMAN® by GOMARK

GOMARK d.o.o.
Čeplje 56,
SI-3305 Vransko, Slowenien
http://www.LANCMAN.si

The user manual is the intellectual property of the company GOMARK d.o.o. Therefore any reproduction and copying of the instructions without the owner's prior knowledge is a crime.

Issued in JULY 2024, contains a declaration of conformity

WARNING
THIS MACHINE CAN BE MANAGED
BY A PERSON WHO IS FAMILIAR WITH
THE USER'S MANUAL AND
SAFETY WARNINGS ONLY!

IF THE PRODUCT IS
HANDED OVER TO A THIRD PARTY, IT IS REQUIRED
THAT YOU HAND OVER THE INSTRUCTIONS
FOR THE SAFE USE, MAINTENANCE
AND PERFORMING AN INSPECTION OF THE MACHINE.

INDEX

DECLARATION OF CONFORMITY *5*
1. TO THE BUYER - USER *7*
2. INTENDED USE *7*
3. SERVICING AND ORDERING OF SPARE PARTS *7*
4. TECHNICAL DATA AND DESCRIPTION OF THE MACHINE *8*
4.1 LANCMAN STX 11 ..... *8*
4.1.1 Technical information on the machine 8
4.1.2 Description of the machine 9
4.2. LANCMAN STX 13 ..... *10*
4.2.1 Technical information on the machine 10
4.2.2 Description of the machine 11
4.3. LANCMAN STX 13 GP *12*
4.3.1 Technical information on the machine 12
4.3.2 Description of the machine 13
4.4 LANCMAN STX 17 ..... *14*
4.4.1 Technical information on the machine 14
4.4.2 Description of the machine 15
4.5 LANCMAN STX 17 GP *16*
4.5.1 Technical information on the machine 16
4.5.2 Description of the machine 17
4.6 LANCMAN STX 21 ..... *18*
4.6.1 Technical information on the machine 18
4.6.2 Description of the machine 19
4.7 LANCMAN STX21 GP *20*
4.7.1 Technical information on the machine 20
4.7.2 Description of the machine 21
4.8 LANCMAN STX 22 ..... *22*
4.8.1 Technical information on the machine 22
4.8.2 Description of the machine 23
4.9 LANCMAN STX 26 ..... *24*
4.9.1 Technical information on the machine 24
4.9.2 Description of the machine 25
5. MARKING AND IDENTIFICATION *26*
5.1 Safety warnings and declaration placed on the splitter *26*
5.2 Warning signs *26*
6. SAFETY *30*
7. PREPARATION OF THE SPLITTER FOR OPERATION *31*
8. WORKING WITH THE LOG SPLITTER *32*
8.1 How to place the splitter *32*
8.2 Splitter driven by a PTO shaft on the tractor *32*
8.3 Power driven log splitter *33*
8.4 Power- and PTO shaft-driven log splitter *34*
8.5 Switch on/off system *34*
8.5.1 Classical model – 2 SPEEDS 34
8.5.2 Model MULTISPEED 34
8.6 How to prepare the splitter for a working position *34*
8.7 How to prepare the log splitter for transport *36*
8.8 Splitting *37*
8.9 Mechanism for lifting logs *39*

8.10 Mechanism for lifting logs *39*
8.11 Controlling the position of the blade *40*
9. USE OF THE WINCH FOR TOWING OF LOGS – EXTRA EQUIPMENT *41*
9.1 Intended use of the winch *41*
9.2 Technical data on the winch for the log splitters LANCMAN *41*
9.3 Machine description *42*
9.4 Picture with identification data on the machine and location of the plate. *43*
9.6 PREPARATION OF THE WINCH FOR OPERATION *45*
9.7 SAFETY OF THE WINCH *46*
9.8 OPERATING WITH WINCH *47*
9.8.1 MECHANICAL WINCH 47
9.8.2 WINCH WITH A REMOTE CONTROL 49
9.8.3 SCHEME OF THE ELECTRICAL CONNECTION OF THE RECEIVER 50
9.9 MAINTENANCE AND INSPECTIONS OF THE WINCH *51*
9.10 TROUBLESHOOTING *51*
10. TRANSPORT AND STORING OF THE MACHINE *52*
10.1 How to prepare the cylinder for the splitter transport *52*
10.2 Transport of the splitter (Models STX11, STX 13, STX 17) *52*
10.3 Lifting of the splitter *53*
11. MAINTENANCE AND INSPECTIONS *54*
11.1 General safety rules *54*
11.2 Inspection of the splitter *54*
11.3 Hydraulic system *54*
11.4 Guiding framework *54*
11.5 Maintenance of the log splitter *55*
11.6 Maintenance of the oil filter *55*
11.7 OIL FOR A MULTIPLIER DEVICE *55*
11.8 Lubrication of the splitter *56*
11.9 Slide plates of the log splitter *56*
12. TROUBLESHOOTING *57*
13. CONSUMABLES FOR THE SPLITTER *57*
14. HYDRAULIC SCHEME *58*
14.1 Hydraulic scheme for model PTO and EL with 2 speeds *58*
14.2 Hydraulic scheme for model PTO + ELECTRIC (COMBI) – 2 SPEEDS *59*
14.3 HYDRAULIC SCHEME FOR MODEL PTO OR ELECTRIC MULTISPEED *60*
14.4 HYDRAULIC SCHEME FOR MODEL PTO AND ELECTRIC MULTISPEED *61*
14.5 HYDRAULIC SCHEME FOR MECHANICAL ACTUATED WINCH *62*
14.5 HYDRAULIC SCHEME FOR REMOTE ACTUATED WINCH *63*
15. ELECTRIC SCHEME *64*
15.1 ELECTRIC MOTOR 230V/2.2kW *64*
15.2 ELECTRIC MOTOR 400V/4 kW *65*
15.3 ELECTRIC MOTOR 400V/5.5 kW *66*
15.4 ELECTRIC MOTOR 400V/7.5 kW *68*

EN

DECLARATION OF CONFORMITY

EC DECLARATION OF CONFORMITY OF THE MACHINE NO. 01-2018/STX-LNCM

The producer GOMARK d.o.o., Čeplje 56, 3305 VRANSKO declares that the machine stated below has been planned and constructed in accordance with the EC directives listed in the table below. This statement does not apply to unauthorized changes to the machine.

LOG SPLITTER LANCMAN™
Typ: STX11, STX13, STX17, STX21, STX22, STX26
Serial number, year of production: on the declaration plate

The machine is made in compliance with requirements of the following regulations:

EC-DIRECTIVE	HARMONISED EUROPEAN STANDARDS
EC-MACHINE-DIRECTIVE 2006/42/EC	SIST EN 609-1:2017 safety of the log splitters
EC-LOW-VOLTAGE-DIRECTIVE 2006/95/EC	
EC-ELECTROMAGNETIC COMPATIBILITY 2004/108/EC	

Responsible for the technical documentation: Gomark d.o.o., Čeplje 56, 3305 Vransko, Slovenia.

Čeplje 03.01.2024

Responsible person:
Matjaž GOSAK

GOMARK
trgovina in proizvodnja, d.o.o.
Čeplje 52, SI-3305 VRANSKO

WARRANTY TERMS AND CONDITIONS

The warranty applies to machines and components - if used properly (as described in the user manual) they will work flawlessly.

Warranty period:
for home use: 24 months,
for professional use: 12 months (industry).

The warranty covers replacement of defective parts and repair work, but excludes transport fees. Warranty applies only with a correctly completed warranty certificate and receipt of purchase.

The warranty is voided if:
- failure to comply with the user's manual,
- if it is found that a pre-repair was carried out by an unauthorized person,
- if non-original spare parts were built in,
- if the product was used in an negligent manner,
- due to failures, made by mechanical blows caused by the buyer or a third person.

The warranty does not apply for expendable materials, stated in the instructions.

The warranty does not apply in the case of failure to comply with the user's manual which is an integral part of the machine. Warranty also does not apply in case of unauthorized repairs to the machine and changes of the machine.

Warranty repairs are carried out by the authorized service stated by your dealer or dealer who sold you the machine.

1. TO THE BUYER - USER

Dear buyer,
We thank you for the confidence you have shown us by buying our product. We are confident that you will be satisfied with it. Before you first use the machine carefully read and learn the instructions on the safe use and maintenance, description of the intended function, functionality and working environment of the machine. The instructions are designed to introduce all the required activities prior to the first use of the machine, maintenance and carrying out regular inspections.
In the event that you hand over the product to a third party, you also must hand over the instructions for safe use, maintenance and performance of regular inspections.
When reading the instructions, please pay special attention to the chapters and paragraphs, marked with the following symbol.



This symbol especially emphasizes the importance of that text in the specific chapter of the instructions.

We reserve the right to design changes and make technical improvements.
Any partial or total reproduction of these instructions, text or images is criminal act.

2. INTENDED USE

The machine LOG SPLITTER LANCMAN is intended for splitting logs of various lengths and thicknesses. The blade is hydraulically operated. The hydraulic system can be driven by a tractor PTO shaft or by primary tractor hydraulics.
The log splitter has a two-handle safety switch. Simultaneously pressing both the levers makes blade move down. When the levers are released, the blade stops and pushing the levers up returns the blade to its original position. The splitter stands on two legs on a three-point system on the lower plate under the blade. During the operation the blade moves down towards the log and splits it.

 Any deviation from the prescribed use is considered ineligible, and the manufacturer is not liable for security and functionality.

 Any remodelling and replacement of the original components of the log splitter eliminates the warranty of the manufacturer for safety and functionality of the machine.

The machine may be used, handled and repaired only by adults (at least 18 years old), familiar with the instructions.

3. SERVICING AND ORDERING OF SPARE PARTS

Servicing and elimination of defects within the warranty period and afterwards will be performed by:
THE DILLER OR AUTHORIZED SERVICE.

When problems to find authorized service, please turn into the producer:

GOMARK, trgovina in proizvodnja d.o.o.
Čeplje 56, SI-3305 Vransko, Slovenia
Phone: +386 3700 15 03

When ordering spare parts always indicate the following data:
- name of the machine,
indication of the machine-type,
serial number of the machine,
year of manufacture of the machine.

All information for the ordering of the spare parts are written on the plate or. permanent label on the machine.

4. TECHNICAL DATA AND DESCRIPTION OF THE MACHINE

The splitter is designed to facilitate the splitting of logs by using tractor power – charging is transferred via the PTO shaft of the tractor to the splitter. The pump of the splitter drives the oil, directed by a regulator. The regulator then leads via the on/off power system the hydraulics of the cylinder, which presses with its power the blade that splits logs.

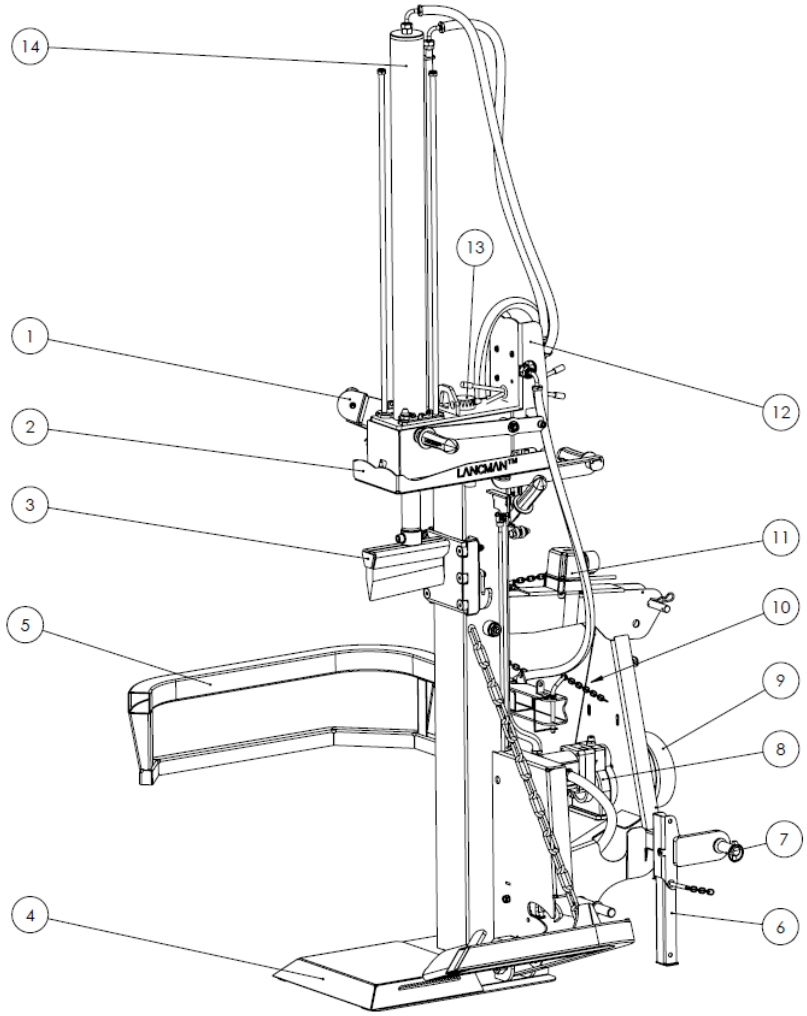
4.1 LANCMAN STX 11

4.1.1 Technical information on the machine

TIP	STX 11 T	STX 11 C	STX 11 EL		STX 11 C+EL	
POWER OF THE SPLITTER:	110 kN (250 bar), max 25 l/min	110 kN				
DIMENSIONS (HxWxL) - when folded up	1,660x900x1,000 mm					
DIMENSIONS (HxWxL) - in the operating position	2,750x900x1,000 mm					
WEIGHT	180 kg	240 kg	240 kg		280 kg	
TRACTOR POWER REQUIRED	> 9 kW / 250 bar	12.5 kW	-		12.5 kW	
SUITABLE PROP. SHAFT	-	1 ¾ - Z6	-		1 ¾ - Z6	
CATEGORY OF THE CONNECTION	I, II	I,II	-		I,II	
ELECTRICAL DRIVE	-	-	4 kW, 400V, 50Hz	2.2 kW 230V, 50 Hz	4 kW, 400V, 50Hz	2.2 kW 230V, 50 Hz
POWER DRIVE	-	-	400 V, 5 POLES, 16 A	2 POLES	400 V, 5 POLES, 16 A	2 POLES
MAX. TURNS ON THE SHAFT	-	540 rpm	-		540 rpm	
BLADE SHIFT	100 cm					
BLADE SHIFT SPEED I (cm/s)	-	15,5	7,6	1	15,5 7,6	15,5 1
BLADE SHIFT SPEED II (cm/s)	-	54	26.7	17,2	54 26.7	54 17,2
RETURN STROKE (cm/s)	-	21,6	10,6	6.8	21,6 10,6	21,6 6.8
MAX PRESSURE	250 bar	250 bar				
LOG LENGTH	MINIMUM 80 cm and MAXIMUM 115 cm					
MAX LOG THICKNESS	50 cm					
MIN LOG THICKNESS	8 cm					
HYDRAULIC OIL	-	20 l / HVLP 32, DIN 51524/3				
OIL FOR A MULTIPLIER DEVICE	-	0.25 l / W90	-		0.25 l / W90	
OPERATING VIBRATION	NO					
NOISE LEVEL	DOES NOT EXCEED 70 dB					

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.1.2 Description of the machine



1. ACTIVATION LEVERS
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. SPLITTER SIDE ARM
6. STABILISATION LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. MECHANICAL LOG LIFTER

* ONLY MODELS EL AND C+EL

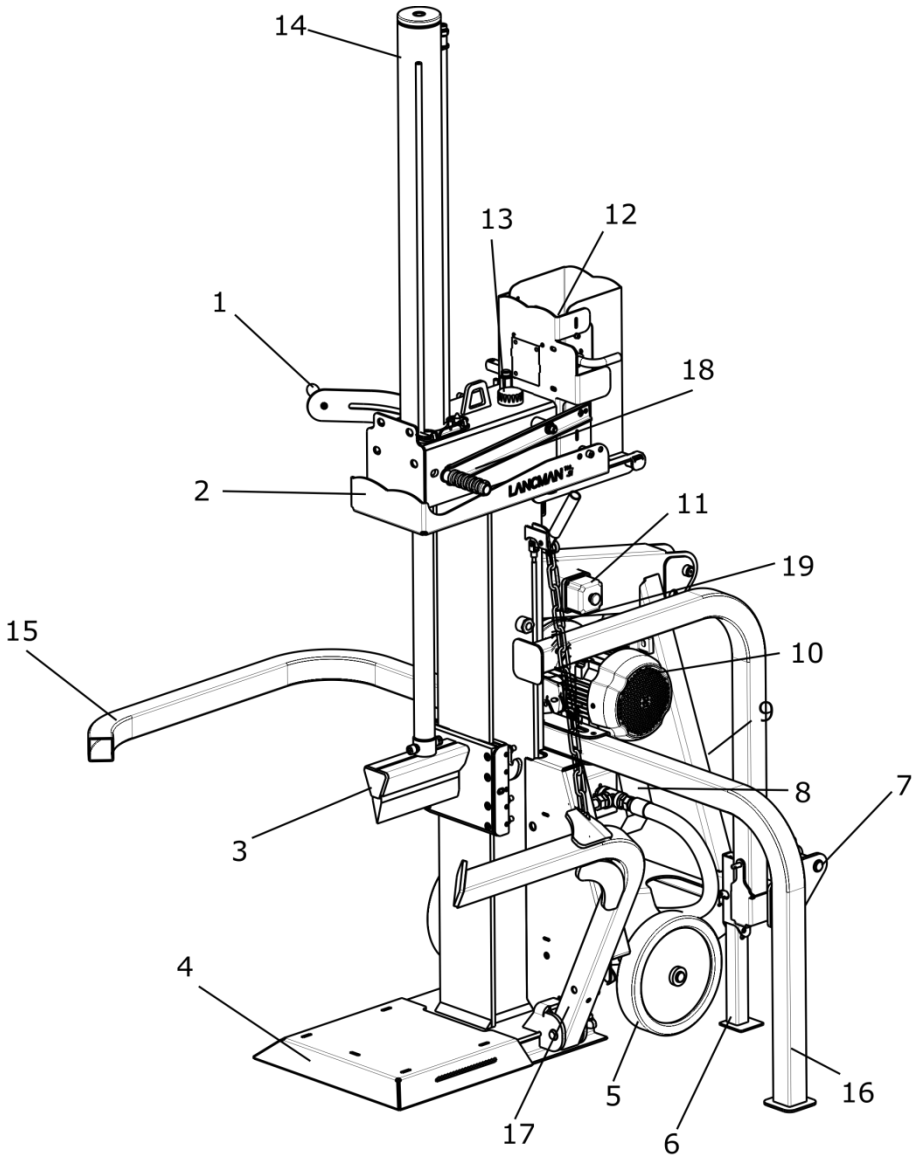
4.2. LANCMAN STX 13

4.2.1 Technical information on the machine

TIP	STX 13 C	STX 13 EL	STX 13 C+EL
POWER OF THE SPLITTER:	130 kN		
DIMENSIONS (HxWxL) – when folded up	1,850×1,000×1,200		
DIMENSIONS (HxWxL) – in the operating position	2,750×1,000×1,200		
WEIGHT	398 kg	410 kg	439 kg
TRACTOR POWER REQUIRED	10 kW	-	10 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I,II,III	-	I,II,III
ELECTRICAL DRIVE	-	5.5 kW, 400V, 50Hz	2.2 kW, 230V,
POWER DRIVE	-	400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	400 rpm		400 rpm
BLADE SHIFT	110 cm		
BLADE SHIFT SPEED I (cm/s)	15	8,4	15 8,4
BLADE SHIFT SPEED II (cm/s)	36	20.2	36 20,2
RETURN STROKE (cm/s)	25.9	14,5	25.9 14,5
MAX PRESSURE	250 bar		
MAX LOG LENGTH	MINIMUM 75 cm and MAXIMUM 117 cm		
MAX LOG THICKNESS	70 cm		
MIN LOG THICKNESS	8 cm		
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3		
OIL FOR A MULTIPLIER DEVICE	0.25 l / W90	-	0.25 l / W90
GRIPPER ARM	MECHANICAL		
OPERATING VIBRATION	NO		
NOISE LEVEL	DOES NOT EXCEED 70 dB		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.2.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. *WHEELS FOR MANUAL TRANSPORT OF THE LOG SPLITTER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. LOG GATHERER
18. ACTIVATION LEVER – RIGHT
19. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

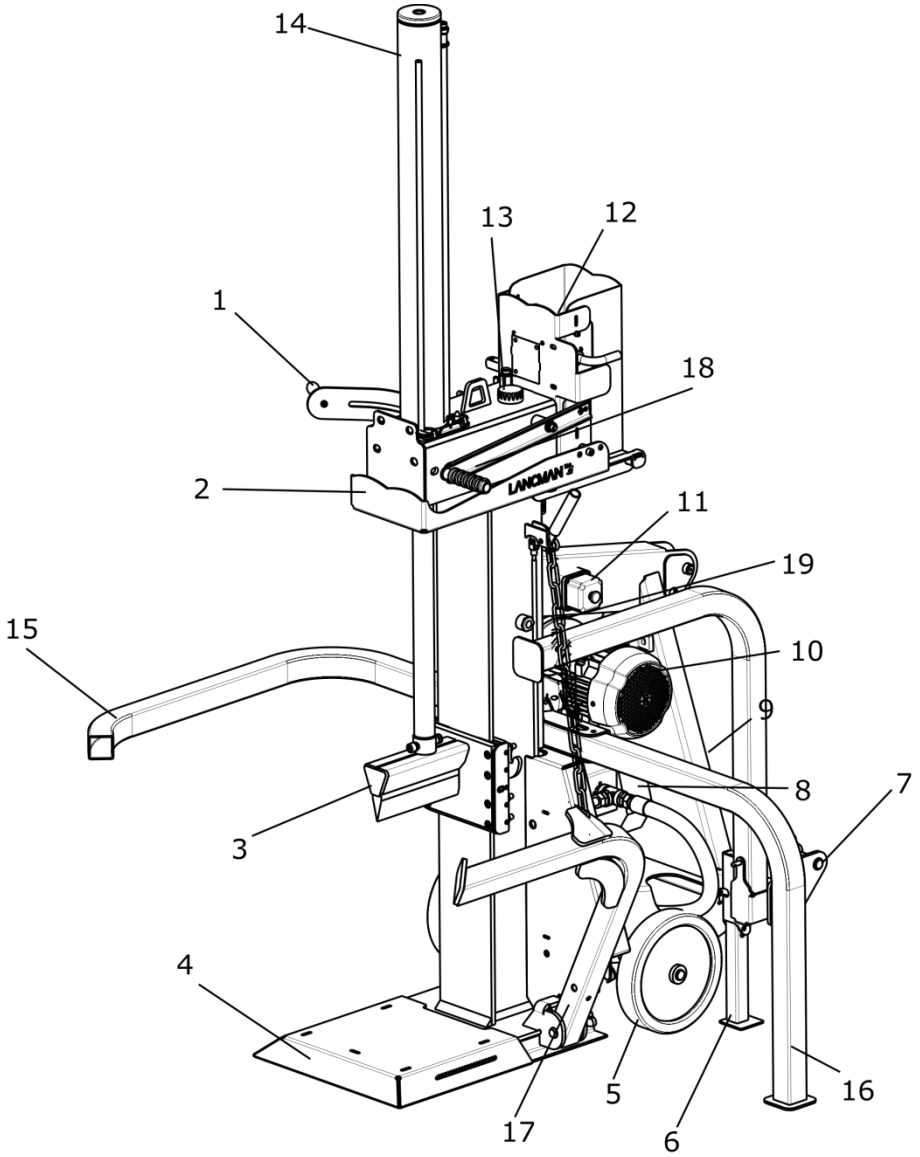
4.3. LANCMAN STX 13 GP

4.3.1 Technical information on the machine

TIP	STX 13 C GP Multispeed	STX 13 EL Xtremspeed	STX 13 C GP+EL Xtremspeed
POWER OF THE SPLITTER:	130 kN		
DIMENSIONS (HxWxL) – when folded up	2.100×1.010×1.250		
DIMENSIONS (HxWxL) – in the operating position	2.750×1.010×1.250		
WEIGHT	415 kg	420 kg	465 kg
TRACTOR POWER REQUIRED	37.5 kW	--	37.5 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I,II,III	I,II,III	I,II,III
ELECTRICAL DRIVE	-	5.5 kW, 400V, 50Hz	5.5 kW, 400V, 50Hz
POWER DRIVE	-	400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	540 rpm		540 rpm
BLADE SHIFT	110 cm		
BLADE SHIFT SPEED I (cm/s)	23.9	4.2	23.9 4.2
BLADE SHIFT SPEED II (cm/s)	57.2	29.3	57.2 29.3
RETURN STROKE (cm/s)	41.2	21.1	41.2 21.1
MAX PRESSURE	250 bar		
MAX LOG LENGTH	MINIMUM 75 cm and MAXIMUM 117 cm		
MAX LOG THICKNESS	70 cm		
MIN LOG THICKNESS	8 cm		
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3		
GRIPPER ARM	MECHANICAL		
OPERATING VIBRATION	NO		
NOISE LEVEL	DOES NOT EXCEED 70 dB		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.3.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. *WHEELS FOR MANUAL TRANSPORT OF THE LOG SPLITTER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. LOG GATHERER
18. ACTIVATION LEVER – RIGHT
19. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

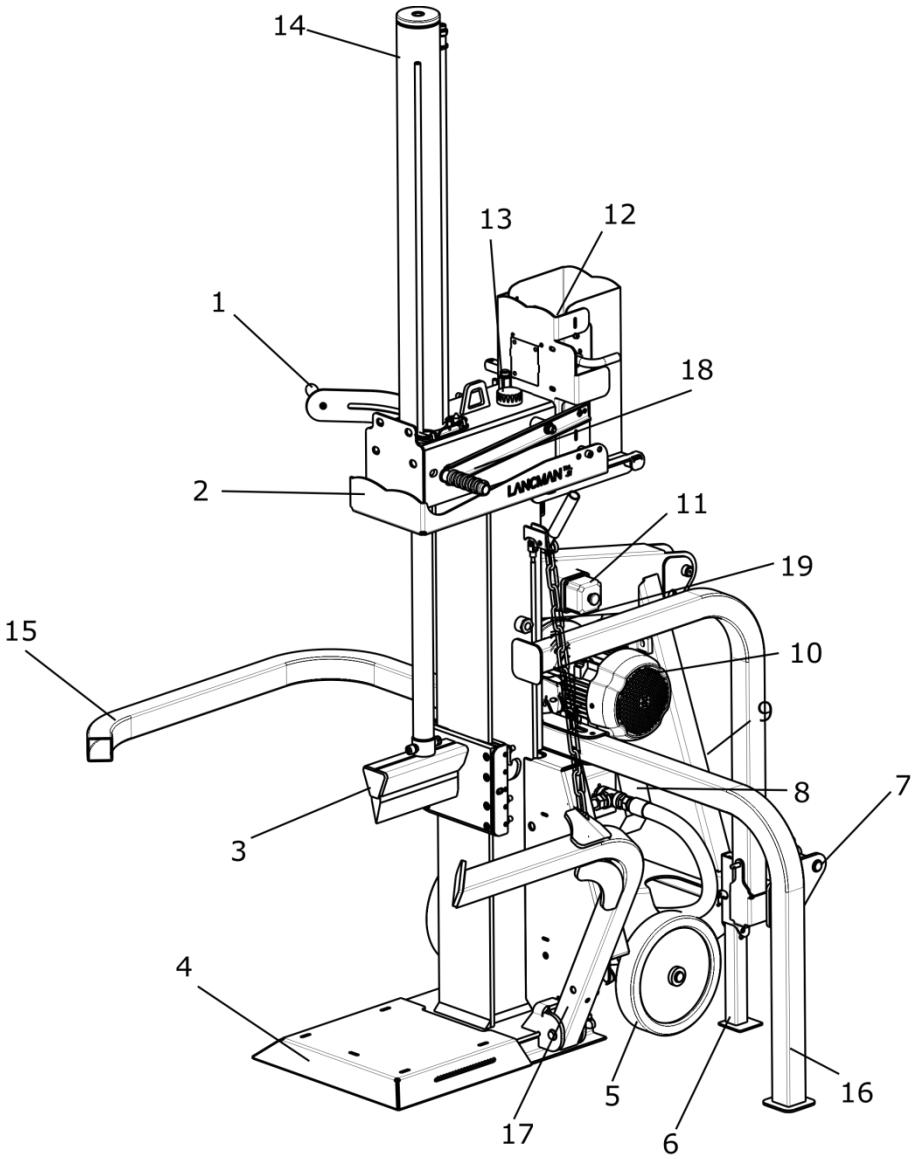
4.4 LANCMAN STX 17

4.4.1 Technical information on the machine

TIP	STX17 C	STX17 C Multispeed	STX17 EL	STX17 C+EL
POWER OF THE SPLITTER:	170 kN			
DIMENSIONS (HxWxL) - when folded up	1.850×1.000×1.200			
DIMENSIONS (HxWxL) – in the operating position	2.750×1.000×1.200			
WEIGHT	420 kg	424 kg	437 kg	465 kg
TRACTOR POWER REQUIRED	22,7 kW	22,7 kW	-	22,7 kW
SUITABLE PROP. SHAFT	-	1 ¾ - Z6	-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I, II,III	I,II,III	-	I,II,III
ELECTRICAL DRIVE	-	-	5.5 kW, 400V, 50Hz	
POWER DRIVE	-	-	400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	540 rpm	540 rpm	-	540 rpm
BLADE SHIFT	110 cm			
BLADE SHIFT SPEED I (cm/s)	12	12	3,4	12 3,4
BLADE SHIFT SPEED II (cm/s)	30	30	23.8	30 23.8
RETURN STROKE (cm/s)	20	20	15,8	20 15,8
MAX PRESSURE	250 bar			
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm			
MAX LOG THICKNESS	70 cm			
MIN LOG THICKNESS	8 cm			
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3			
OIL FOR A MULTIPLIER DEVICE	0.25 l / W90	0.25 l / W90	-	0.25 l / W90
GRIPPER ARM	MECHANICAL			
OPERATING VIBRATION	NO			
NOISE LEVEL	DOES NOT EXCEED 70 dB			

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.4.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. WHEELS FOR MANUAL TRANSPORT OF THE LOG SPLITTER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. LOG GATHERER
18. ACTIVATION LEVER – RIGHT
19. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

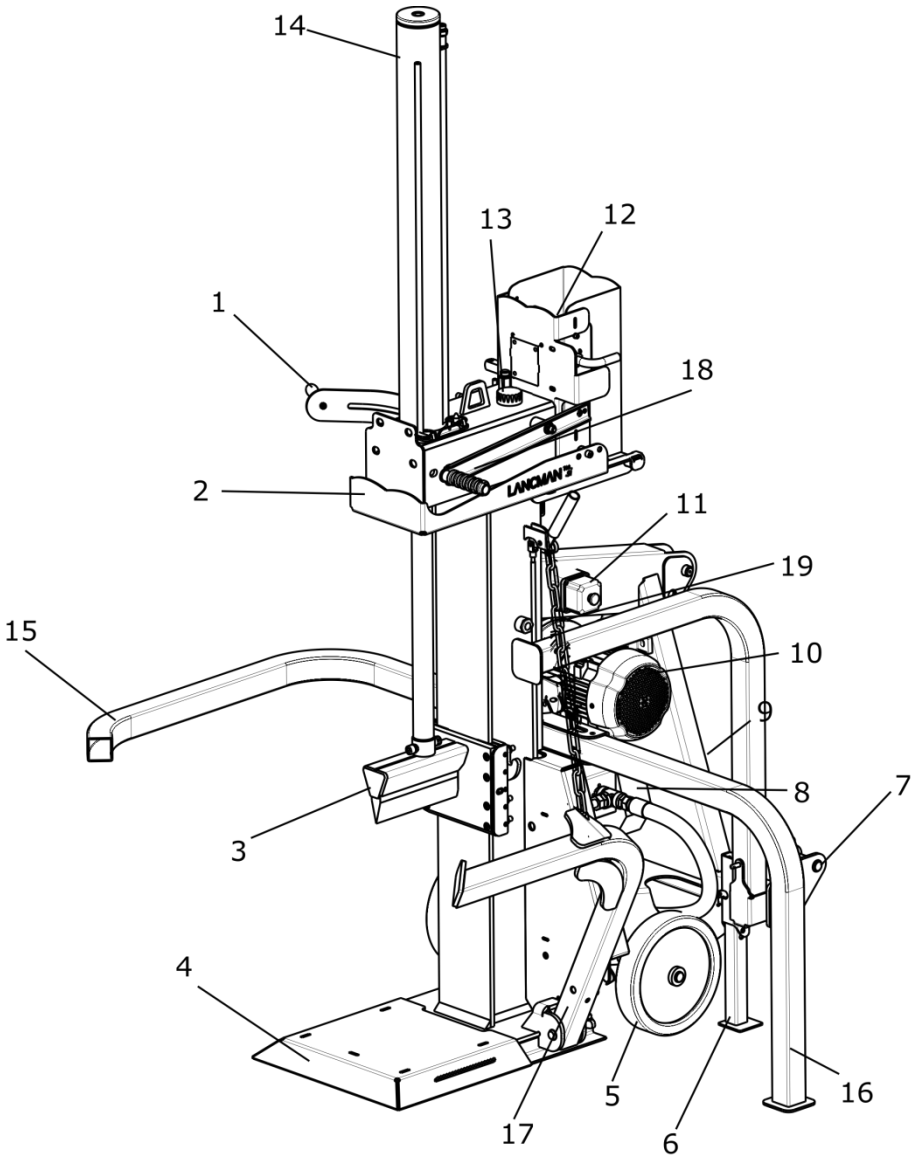
4.5 LANCMAN STX 17 GP

4.5.1 Technical information on the machine

TIP	STX 17 C GP MULTISPEED	STX 17 EL MULTISPEED	STX 17 C GP + EL MULTISPEED
POWER OF THE SPLITTER:	170 kN		
DIMENSIONS (HxWxL) - when folded up	1.850×1.000×1.200		
DIMENSIONS (HxWxL) – in the operating position	2.750×1.000×1.200		
WEIGHT	438 kg	437 kg	488 kg
TRACTOR POWER REQUIRED	36 kW	--	36 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I,II,III	-	I,II,III
ELECTRICAL DRIVE	-	5.5 kW, 400V, 50Hz	
POWER DRIVE	-	400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	540 rpm	-	540 rpm
BLADE SHIFT	110 cm		
BLADE SHIFT SPEED I (cm/s)	19.1 cm/s	3,4 cm/s	19 cm/s 3,4 cm/s
BLADE SHIFT SPEED II (cm/s)	48 cm/s	23,8 cm/s	48 cm/s 23,8 cm/s
RETURN STROKE (cm/s)	31.9 cm/s	15,8 cm/s	31.9 cm/s 15,8 cm/s
MAX PRESSURE	250 bar		
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm		
MAX LOG THICKNESS	70 cm		
MIN LOG THICKNESS	8 cm		
HYDRAULIC OIL	26 l / HVLP 32, DIN 51524/3		
GRIPPER ARM	MECHANICAL		
OPERATING VIBRATION	NO		
NOISE LEVEL	DOES NOT EXCEED 70 dB		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.5.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. WHEELS FOR MANUAL TRANSPORT OF THE LOG SPLITTER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. LOG GATHERER
18. ACTIVATION LEVER – RIGHT
19. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

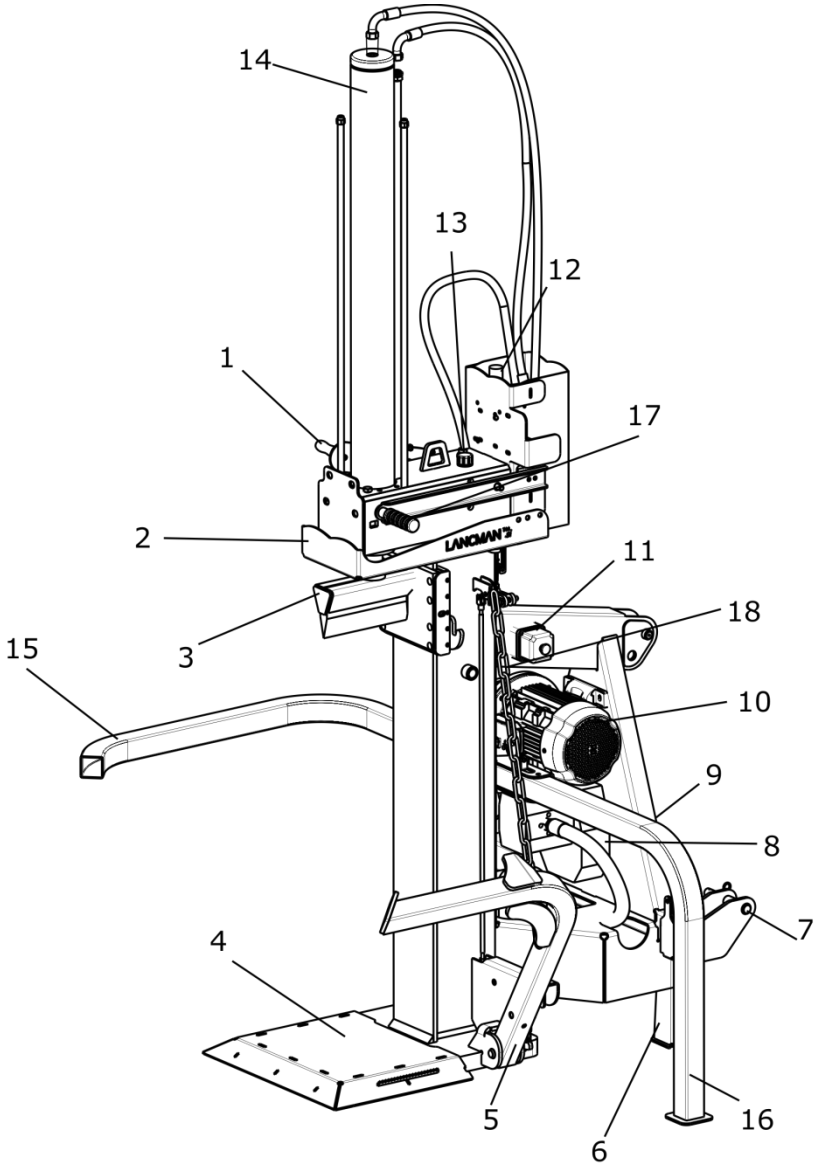
4.6 LANCMAN STX 21

4.6.1 Technical information on the machine

TIP	STX21 C	STX21 C Multispeed	STX21 EL	STX21 C+EL
POWER OF THE SPLITTER:	210 kN			
DIMENSIONS (HxWxL) - when folded up	1,850x1,000x1,200			
DIMENSIONS (HxWxL) – in the operating position	2,830x1,000x1,200			
WEIGHT	455 kg	455 kg	480 kg	500 kg
TRACTOR POWER REQUIRED	17 kW	17 kW	-	17 kW
SUITABLE PROP. SHAFT	-	1 ¾ - Z6	-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I, II,III	I,II,III	-	I,II,III
ELECTRICAL DRIVE	-	-	5.5 kW, 400V, 50Hz	
POWER DRIVE	-	-	400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	540 U./min	540 U./min	-	540 U./min
BLADE SHIFT	110 cm			
BLADE SHIFT SPEED I (cm/s)	9,9 cm/s	9,9 cm/s	2,7 cm/s	9,9 cm/s 2,7 cm/s
BLADE SHIFT SPEED II (cm/s)	16,4 cm/s	16,4 cm/s	12,9 cm/s	16,4 cm/s 12,9 cm/s
RETURN STROKE (cm/s)	17,8 cm/s	17,8 cm/s	14 cm/s	17,8 cm/s 14 cm/s
MAX PRESSURE	250 bar			
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm			
MAX LOG THICKNESS	80 cm			
MIN LOG THICKNESS	8 cm			
HYDRAULIC OIL	29 l / HVLP 32, DIN 51524/3			
OIL FOR A MULTIPLIER DEVICE	0.25 l / W90	0.25 l / W90	-	0.25 l / W90
GRIPPER ARM	MECHANICAL			
OPERATING VIBRATION	NO			
NOISE LEVEL	DOES NOT EXCEED 70 dB			

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.6.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. LOG GATHERER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. ACTIVATION LEVER - RIGHT
18. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

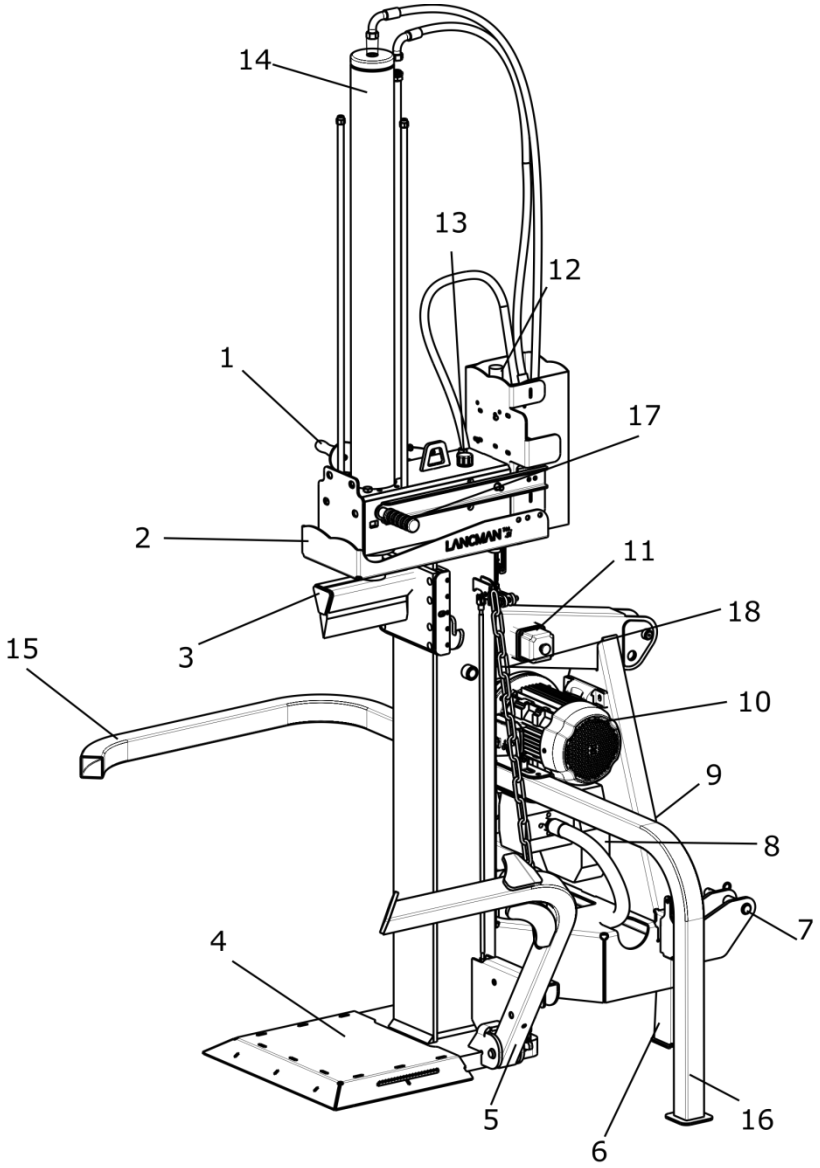
4.7 LANCMAN STX21 GP

4.7.1 Technical information on the machine

TIP	STX 21 C GP Multispeed	STX 21 EL Xtremspeed	STX 21 C GP+EL Xtremspeed
POWER OF THE SPLITTER:	210 kN		
DIMENSIONS (HxWxL) - when folded up	1.850×1.000×1.200		
DIMENSIONS (HxWxL) – in the operating position	2.830×1.000×1.200		
WEIGHT	530 kg	527 kg	580 kg
TRACTOR POWER REQUIRED	37.5 kW	--	37.5 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	--	- 1 ¾ - Z6
ELECTRICAL DRIVE	I, II,III	I,II,III	- I,II,III
CATEGORY OF THE CONNECTION	-	5.5 kW, 400V, 50Hz	5.5 kW, 400V, 50Hz
ELECTRICAL DRIVE	-	400 V, 5 polni, 16 A	400 V, 5 polni, 16 A
MAX. TURNS ON THE SHAFT	540 U/min	--	540 U/min
BLADE SHIFT	110 cm		
BLADE SHIFT SPEED I (cm/s)	15.7 cm/s	2.7 cm/s	15.7 cm/s 2.7 cm/s
BLADE SHIFT SPEED II (cm/s)	40,9 cm/s	20.9 cm/s	40.9 cm/s 20.9 cm/s
RETURN STROKE (cm/s)	25.4 cm/s	13 cm/s	25.4 cm/s 13 cm/s
MAX PRESSURE	250 bar		
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm		
MAX LOG THICKNESS	80 cm		
MIN LOG THICKNESS	8 cm		
HYDRAULIC OIL	45 l / HVLP 32, DIN 51524/3		
GRIPPER ARM	MECHANICAL		
OPERATING VIBRATION	NO		
NOISE LEVEL	DOES NOT EXCEED 70 dB		

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.7.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. LOG GATHERER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. PLUG FOR POURING OF OIL
14. HYDRAULIC CYLINDER
15. SIDE LEVER
16. *STABILISING ARM
17. ACTIVATION LEVER – RIGHT
18. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

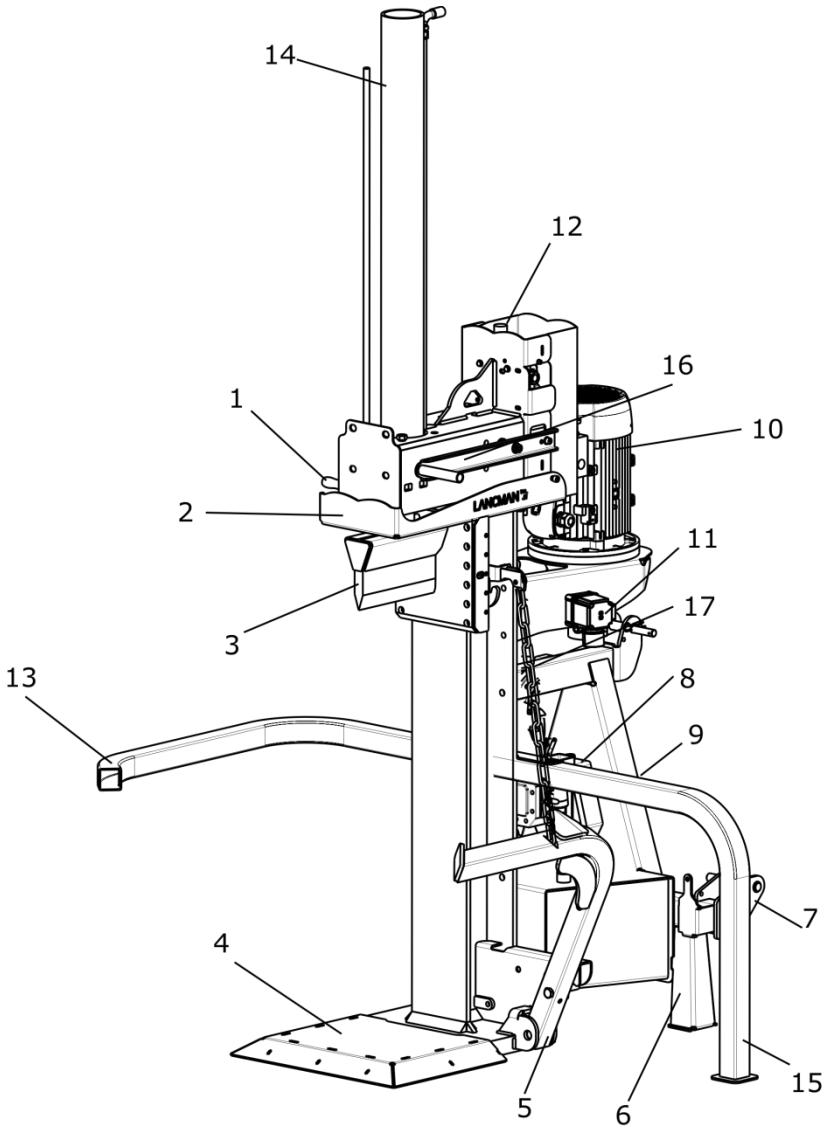
4.8 LANCMAN STX 22

4.8.1 Technical information on the machine

TIP	STX22C GP Multispeed	STX22 EL Xtremspeed	STX22 EL Multispeed	STX22 C GP+EL Multispeed	STX22 C GP+EL Xtremspeed
POWER OF THE SPLITTER:	220 kN				
DIMENSIONS (HxWxL) - when folded up	2.100x1.000x1.200				
DIMENSIONS (HxWxL) – in the operating position	2.900x1.000x1.200				
WEIGHT	600 kg	610 kg	610 kg	620 kg	620 kg
TRACTOR POWER REQUIRED	27 kW	-	-	27 kW	27 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	1 ¾ - Z6			1 ¾ - Z6
CATEGORY OF THE CONNECTION	I, II,III	I,II,III	I,II,III	I,II,III	I,II,III
ELECTRICAL DRIVE	-	7.5 kW, 400V, 50Hz			
POWER DRIVE	-	400 V, 5 POLES, 16 A			
MAX. TURNS ON THE SHAFT	540 rpm		-	540 rpm	
BLADE SHIFT	110 cm				
BLADE SHIFT SPEED I (cm/s)	15,7 cm/s	11 cm/s	6,9 cm/s	15,7 cm/s 6,9 cm/s	14,5 cm/s 11 cm/s
BLADE SHIFT SPEED II (cm/s)	26,1 cm/s	18,4 cm/s	11,5 cm/s	26,1 cm/s 11,5 cm/s	24,2 cm/s 18,4 cm/s
RETURN STROKE (cm/s)	28,2 cm/s	20 cm/s	12,5 cm/s	28,2 cm/s 12,5 cm/s	28,2 cm/s 20 cm/s
MAX PRESSURE	250 bar				
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm				
MAX LOG THICKNESS	95 cm				
MIN LOG THICKNESS	8 cm				
HYDRAULIC OIL	45 l / HVLP 32, DIN 51524/3				
GRIPPER ARM	MECHANICAL				
OPERATING VIBRATION	NO				

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.8.2 Description of the machine



1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. LOG GATHERER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. SIDE LEVER
14. HYDRAULIC CYLINDER
15. *STABILISING ARM
16. ACTIVATION LEVER – RIGHT
17. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

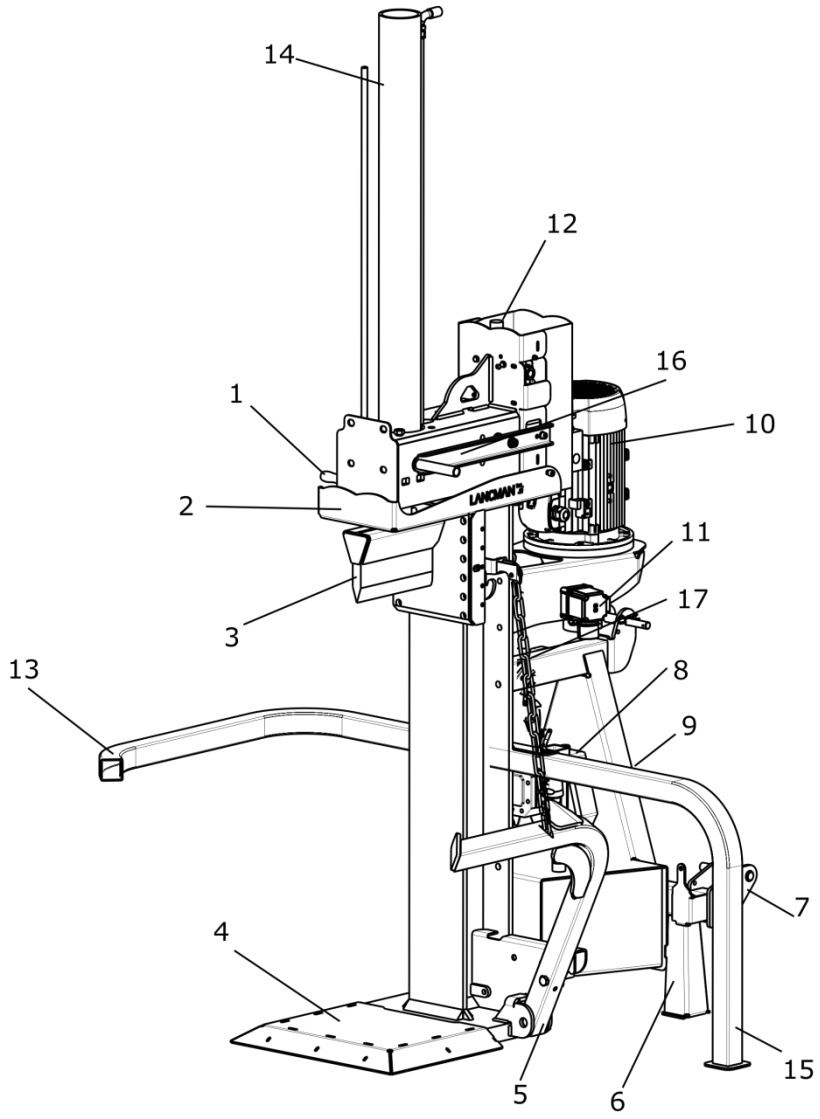
4.9 LANCMAN STX 26

4.9.1 Technical information on the machine

TIP	STX 26C GP	STX 26C GP PLUS	STX 26C Multispeed	STX 26 EL Multispeed	STX 26 C+EL Multispeed
POWER OF THE SPLITTER:	260 kN				
DIMENSIONS (HxWxL) - when folded up	2.100x1.000x1.200				
DIMENSIONS (HxWxL) – in the operating position	2.900x1.000x1.200				
WEIGHT	620 kg	630 kg	620 kg	630 kg	640 kg
TRACTOR POWER REQUIRED	37.5 kW	37.5 kW	37.5 kW	-	37.5 kW
SUITABLE PROP. SHAFT	1 ¾ - Z6	1 ¾ - Z6		-	1 ¾ - Z6
CATEGORY OF THE CONNECTION	I, II,III	I,II,III	I,II,III	I,II,III	I,II,III
ELECTRICAL DRIVE	-	-	-	7.5 kW, 400V, 50Hz	
POWER DRIVE	-			400 V, 5 POLES, 16 A	
MAX. TURNS ON THE SHAFT	540 rpm	540 rpm	540 rpm	-	540 rpm
BLADE SHIFT	1100 mm				
BLADE SHIFT SPEED I (cm/s)	13,6 cm/s	5,8 cm/s	3,5 cm/s	13,1 cm/s 5,8 cm/s	13,1 cm/s 3,5 cm/s
BLADE SHIFT SPEED II (cm/s)	19,9 cm/s	8,4 cm/s	14,1 cm/s	19,9 cm/s 8,4 cm/s	19,9 cm/s 14,1 cm/s
RETURN STROKE (cm/s)	28,9 cm/s	12,7 cm/s	20,3 cm/s	28,9 cm/s 12,7 cm/s	28,9 cm/s 20,3 cm/s
MAX PRESSURE	250 bar				
MAX LOG LENGTH	MINIMUM 75 cm und MAXIMUM 117 cm				
MAX LOG THICKNESS	95 cm				
MIN LOG THICKNESS	8 cm				
HYDRAULIC OIL	45 l / HVLP 32, DIN 51524/3				
GRIPPER ARM	MECHANICAL				
OPERATING VIBRATION	NO				

WE RESERVE THE RIGHT TO DEVIATION FROM THESE DATA BY +/- 3%!

4.9.2 Description of the machine



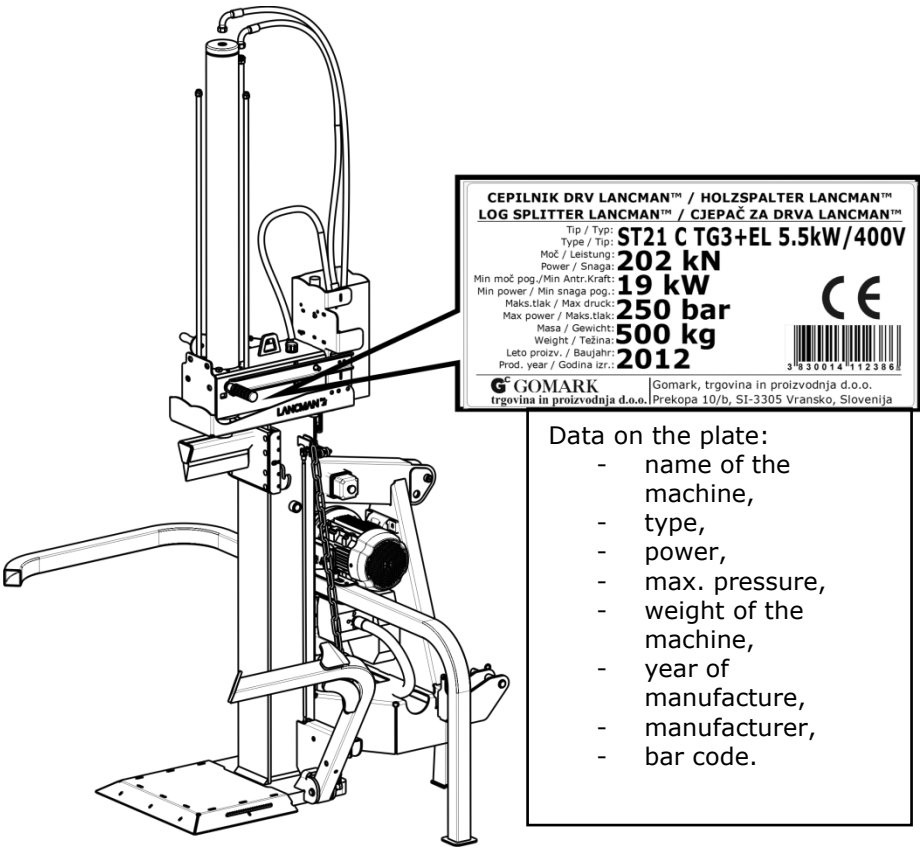
1. ACTIVATION LEVER - LEFT
2. SECURITY SHUTDOWN
3. SPLITTING BLADE
4. TABLE – FOOT OF THE LOG SPLITTER
5. LOG GATHERER
6. STABILISING LEGS
7. 3-POINT CONNECTION
8. PUMP AND MULTIPLIER DEVICE OF THE LOG SPLITTER
9. PROP. SHAFT OF THE PUMP
10. *ELECTROMOTOR WITH A PUMP
11. *POWER ON/OFF SWITCH FOR LOG SPLITTER
12. HYDRAULIC VALVE
13. SIDE LEVER
14. HYDRAULIC CYLINDER
15. *STABILISING ARM
16. ACTIVATION LEVER – RIGHT
17. CHAIN OF THE GRIPPER ARM

* ONLY MODELS EL AND C+EL

5. MARKING AND IDENTIFICATION

5.1 Safety warnings and declaration placed on the splitter

When splitting short logs and you want to do it faster, adjust the blade to the desired length. Place the screw (a) to a desired height.



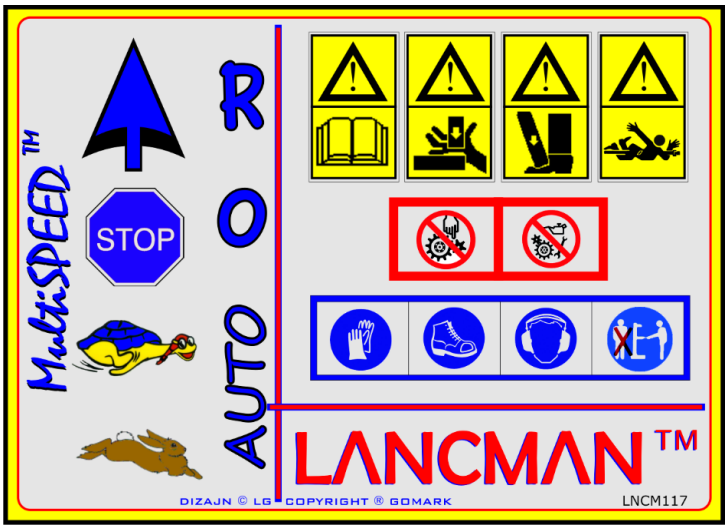
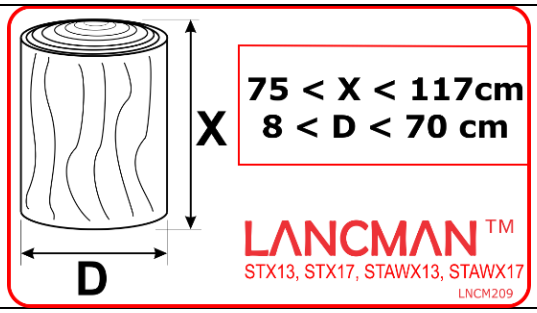
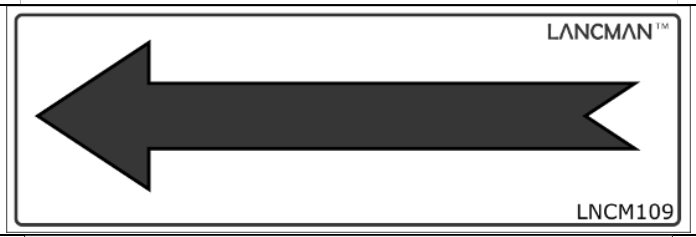
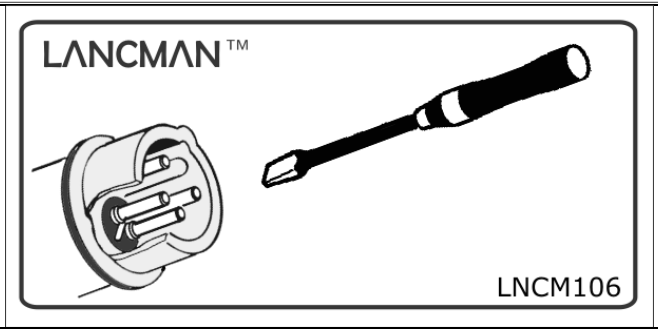
Data on the plate:
- name of the machine,
- type,
- power,
- max. pressure,
- weight of the machine,
- year of manufacture,
- manufacturer,
- bar code.

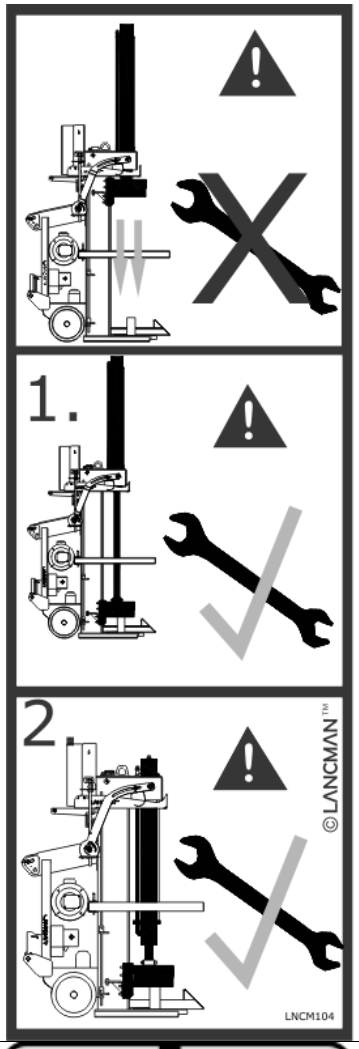
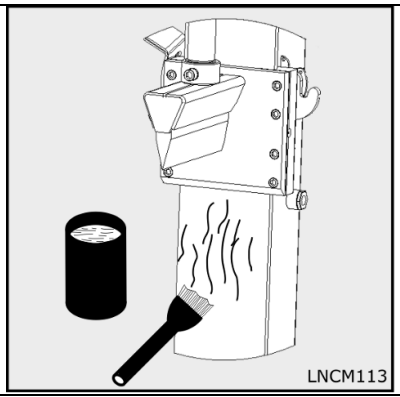
5.2 Warning signs

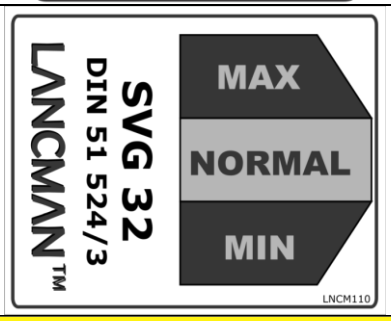
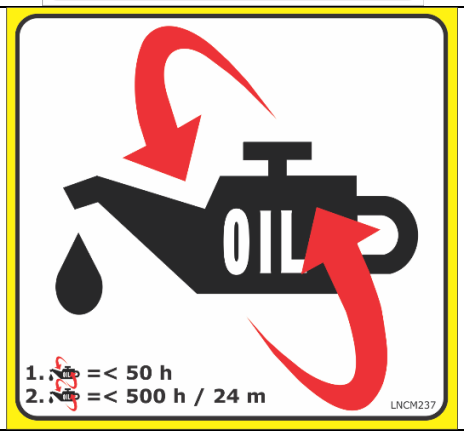
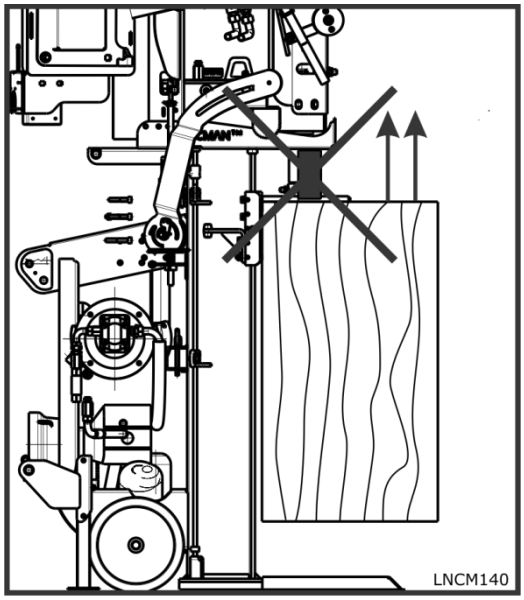
Warning signs, placed on the splitter, are warning the workers of the dangers which may occur when using the splitter (each pictogram is placed once only).

	NUMBER OF THE SIGN	MEANING
LNCM116	1	**Please carefully read the user's manual before using the log splitter.**
	2	**Risk of injury – squeezing of the arms.**
	3	**Risk of injury - squeezing of the legs.**
	4	**Danger in the vicinity of the PTO axle.**
	5	**Do not remove the safety parts from the splitter while operating.**
	6	**Do not repair, clean, adjust or oil the moving parts of the splitter.**
	7	**Obligatory use of protective gloves.**
	8	**Obligatory use of safety shoes.**
	9	**Obligatory hearing protection.**
	10	**For the operation of one person only.**



LNCM117		1	Please carefully read the user's manual before using the log splitter.
		2	Risk of injury – squeezing of the arms.
		3	Risk of injury - squeezing of the legs.
		4	Danger in the vicinity of the PTO axle.
		5	Do not remove the safety parts from the splitter while operating.
		6	Do not repair, clean, adjust or oil the moving parts of the splitter.
		7	Obligatory use of protective gloves.
		8	Obligatory use of safety shoes.
		9	Obligatory hearing protection.
		10	For the operation of one person only.
LNCM2__		X-MAXIMUM AND MINIMUM LENGTH OF WOOD D-MINIMUM AND MAXIMUM DIAMETER OF WOOD	
LNCM224		Obligatory rotation of the PTO axle. Max. number of turns on the PTO axle: 540 rpm. When connecting the PTO shaft please make sure that the protective PTO cap extends over the PTO swivels. DANGER OF CAPTURE! * PLACED ON THE SPLITTER MODELS WITH PTO PUMP	
LNCM109		THE RIGHT ROTATION DIRECTION OF THE MOTOR ON THE LOG SPLITTER. * PLACED ON THE LOG SPLITTER WITH ELECTROMOTOR ONLY!	
LNCM106		SETTING THE ROTATION DIRECTION OF THE MOTOR ON THE LOG SPLITTER. * PLACED ON THE LOG SPLITTER WITH ELECTROMOTOR ONLY!	

LNCM104		**IT IS NOT ALLOWED TO UNSCREW THE BOLTS THAT HOLD THE CYLINDER, WHEN THE SPLITTING BLADE AND CYLINDER ARE IN THE UPPER POSITION!** **1. FIRST YOU SHOULD LOWER THE SPLITTING BLADE TO THE LOWEST POSITION AND UNSCREW THE BOLTS.** **2. WHEN THE BOLTS ARE LOOSENED YOU CAN LOWER THE CYLINDER INTO THE TRANSPORT POSITION.** *** PLACED ON THE SPLITTER MODELS**
LNCM112		**THE LABEL INDICATES THE PLACE WHERE YOU CAN FIX THE ROPE FOR LIFTING OF THE SPLITTER.** *** PLACED ON ALL LOG SPLITTERS.**
LNCM113		**THERE MUST ALWAYS BE GREASE ON THE SLIDING SURFACE!** **DO NOT USE OILS BUT GREASE ONLY.** *** PLACED ON ALL LOG SPLITTERS.**

LNCM167		**GREASE PLACES - LUBRICATION CONNECTIONS!**
LNCM110		**THE OIL LEVEL IN THE LOG SPLITTER SHOULD BE ALWAYS BETWEEN THE MIN AND MAX MARK!** *** PLACED ON ALL LOG SPLITTERS.**
LNCM237		**OIL CHANGE.** *** PLACED ON ALL LOG SPLITTERS.**
LNCM140		**IN THE EVENT THAT THE LOG JAMMED, THE USE OF LEVER FOR REMOVING OF THE LOG FROM THE BLADE IS NOT ALLOWED (THE CYLINDER MAY GET UNHOOKED AND INJURE THE USER)!!!** *** PLACED ON ALL LOG SPLITTERS.**

6. SAFETY

	Before the first use read the technical data and the user's manual.
	The person using the machine is responsible for the area around the machine and must ensure that other people are not in the working area of the machine in order to avoid possible injuries.
	The splitter may be used only by the person qualified for this work and who is aware of the danger and is familiar with the user's manual for the splitter.
	The splitter may be used only if it is safely in place.
	The minimum age of the machine user: 18 years.
	When operating the machine always wear appropriate shoes and tight clothes.
	The working environment should be light. Working in a dark space may result in injuries.
	The splitter may be used only by one person at a time.
	When splitting do not hold the log with your hands.
	Do not reach into the work zone of the blade and do not keep your hands under the blade.
	Never split the diagonally cut logs.
	Regularly remove chips and debris from the work zone.
	Never leave your splitter unattended while the engine is running.
	In the event of the stuck log, lift the blade in the upper position or to the max possible level in the given situation. Shut off the drive of the engine (electricity, PTO shaft). Use the tools (wedges, hammer) may be helpful.
	When inspecting or repairing the splitter, turn off the engine.
	The maximum length of the splitted log depends on the model (see: technical data).
	Never start working without protective equipment.
	Turn off the splitter before you change the settings.
	Before the use always make sure that the machine is in good technical condition. Never use the machine if the machine parts are damaged or the screws are not tightly screwed down. Before use screw down the screws and replace the damaged parts. Use the manufacturer's specified parts only.
	When transporting or shutting of the engine, the blade and the cylinder should be in a folded up (transport) position.
	Keep your work zone clean at all times. Any obstacles which could cause danger should be removed before using the machine.
	The splitter meets the electrical safety standards. Any intervention, change or update damages the required safety standards and warranty.
	The engine and electrical parts are protected by IP 54.
	If using an extension cord, make sure that: - it suits the laws and the power and is in a good condition, - it has a relevant wire diameter for the prescribed current for the engine.
	A too thin cable may cause a surging voltage, causing the power to shut off (the switch turns the engine automatically off) and/or engine overheating.
	Check regularly if all safety instruments work correctly.
	When operating the splitter use both hands to avoid risk of injury.
	In case the power turns off, the blade stops automatically. A magnetic switch prevents an automatic turning on of the machine when the machine is again connected to the power. The machine is re-activated by a press on the switch.

7. PREPARATION OF THE SPLITTER FOR OPERATION

Prior to the sale the splitter is inspected at the factory and tested to the maximum pressure, thus preparing it for operation.
The hydraulic system and the multiplication device (rotation multiplier, connected to a gear pump) are filled with oil.

Before the first operation check:
1. If the splitter is intact (possible transport damage).
2. The hydraulic hoses and cylinder of the splitter because of possible transport damage.

In the event of damage to the machine immediately contact the dealer or manufacturer's service department.



Place the splitter on the flat ground with a 3 m radius of empty space so that all operations can be done in complete safety.



Make sure the room is high enough for the blade to reach the max upper position (see technical data on the height).

8. WORKING WITH THE LOG SPLITTER

8.1 How to place the splitter

Place the splitter on even and solid ground.

The splitter may be used only if it is safely in place.

Place the splitter directly on the ground. The ground should not be levelled by a board, metal etc.

8.2 Splitter driven by a PTO shaft on the tractor

1. Plug in the splitter to a three-point connection of the tractor. The connection of the log splitter meets the category stated under the Technical data.

Firstly plug in the splitter to a three-point connection of the tractor.

When approaching the tractor to the log splitter, please make sure no one is between the log splitter and the tractor. Risk of capture! In the area of the lifting of the hydraulic system of the tractor there is a danger of injuries in form of crushing and pressing. All pins shoud be secured by spring pins (everything included!).

The arms of the tractor hydraulics must be firmly attached so that the machine is tightly attached and does not sway. To ensure a safe stability, there must be at least 20% of the tractor weight together with the machine on the front tractor axle.

Make sure that the carrying capacity of the rear wheels is appropriate (check the technical data in the user's manual for the tractor).

Before you connect the machine to the tractor, please read the user's manual for the tractor.

Plug in the PTO shaft and secure it with a safety chain.
PTO shaft on the pump of the log splitter meets standards of the PTO shaft with 6 cogwheels.

The PTO shaft must be CE-marked, properly protected and must have a chain to lock it. Carefully read the user manual for the PTO shaft and connect it as described by the manufacturer of the PTO shaft. Make sure that all protective equipment on the PTO shaft and a plastic cap (protection) on the splitter are covered at least 50 mm (2 inches).



Picture; the direction of rotation of the tractor PTO shaft

The PTO shaft shall not be too long! A too long PTO shaft may cause damage the pump of the log splitter. In such case the warranty is voided.

In order to start the machine press both the turn on levers. The tractor PTO shaft must rotate in a clockwise direction.

If your tractor has a tractor hydraulic clutch, you have to use a free-running PTO shaft.

Set the revolution on the tractor to a minimum.
Slowly turn on the tractor PTO shaft and turn on the splitter.
Set the desired rotation speed of the tractor PTO shaft.

When the PTO shaft is not on, the tractor PTO shaft must also be turned off.

The maximum rotation speed of the PTO shaft: 540 rpm

The maximum rotation speed of the PTO shaft is an important piece of information. The speed should not be exceeded under any circumstances, because it may result in the oil overheating and cause damage to the pump, cylinder or hydraulic hose.

Do not use a PTO shaft with clutch!

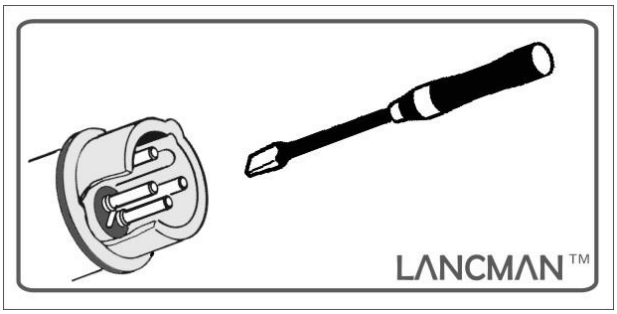
8.3 Power driven log splitter

Before you plug in the splitter, please check if the power and voltage are proper. Carefully read the plate on the electromotor and on the splitter. The line voltage must be at 400 V/50 Hz or 230V 50 Hz (depends on the model).

The log splitter is equipped with a heat relay which stops the engine if overheated.
Power cables and extended electric conductors must contain 5 wires (3P+N+Z) or 3 wires (1P+N+Z), depending on the model. For the power of the attachment see the table with the technical data.

In order to prevent overheating of the engine, use a right electric conductor (min. thickness 2.5 mm (0.098 inch)/max. length 15 m (49.2 feet). Do not use a rolled cable.

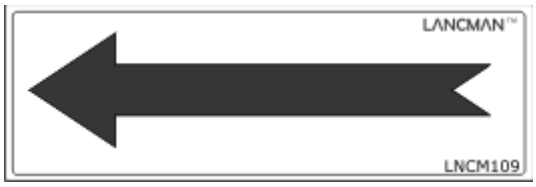
Make sure that the power is grounded and that the splitter is connected to a voltage with a differential switch.



Check the direction of the engine rotation!

When checking the direction of engine rotation, let the engine run for the shortest time possible to prevent possible damage to the pump.

There is a label on the engine showing the direction of engine rotation. In case the direction of rotation is incorrect, turn off the power and change the phase of the current using a phase inverter – a screw in the socket switch (model 400 V only).



This operation must be carried out carefully and by an informed person only.

When the splitter is connected to power press the green button on the splitter (1).

In order to shut down the engine press the red button on the switch (0) and stop the operation of the splitter.



Do not shut down the engine when under pressure.

Do not press the blade hard upon a log which will not split. Increased pressure may cause the hydraulics and engine to overheat.

8.4 Power- and PTO shaft-driven log splitter

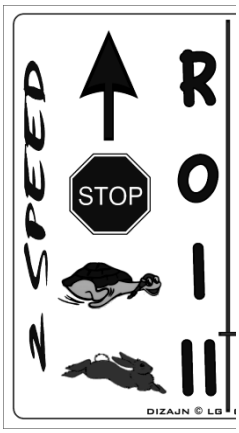




See the top two chapters.
In a combination drive design, it must be taken into consideration that one drive and the other drive are moved at the same time. This means that if the electric drive wants to be used, the PTO must be removed and the safety lid on the PTO closed and secured. The cover at the PTO shaft is secured by a push button and if the cover is not locked, the electric drive can not be switched on.

8.5 Switch on/off system

8.5.1 Classical model – 2 SPEEDS



»R« position
When you push both levers up, the blade moves back to its initial working position and the levers to the position »O«.

»O« position
The levers are in the basic position and the blade does not move.

Position »I - turtle«
Press both levers simultaneously down. As long as the levers are in this position, the blade is moving down. The blade moves at normal speed (2x) and full power.

Position »II - rabbit«
When you push both levers down to the end position, the blade starts moving faster and with 40% less power.

8.5.2 Model MULTISPEED



»R« position
When you push both levers up, the blade moves back to its initial working position and the levers to the position »O«.

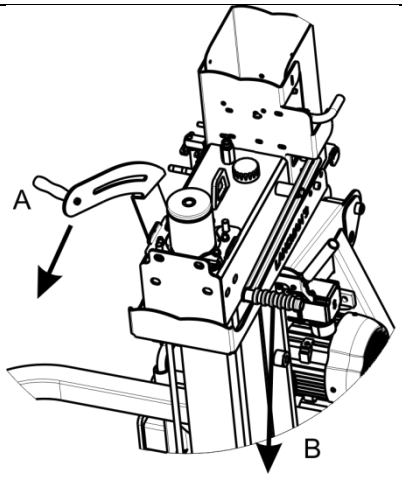
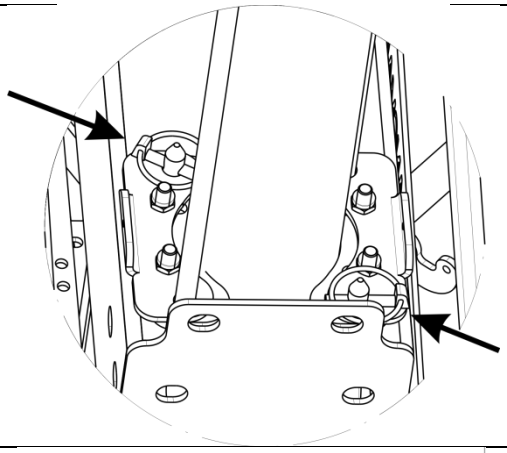
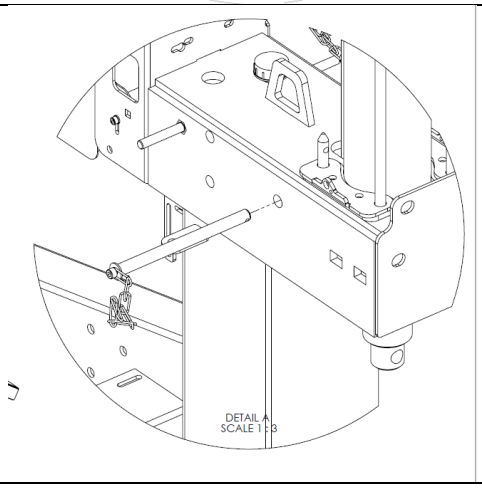
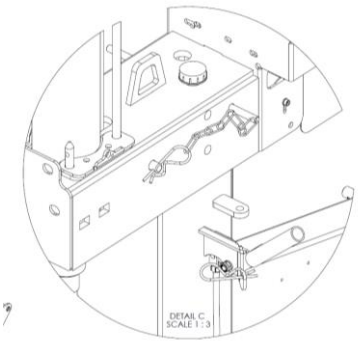
»O« position
The levers are in the initial position and the blade does not move.

»AUTO« position
Press both levers simultaneously down. As long as the levers are in this position, the blade is moving down. The speed of the blade is adjusted automatically according to the blade load.

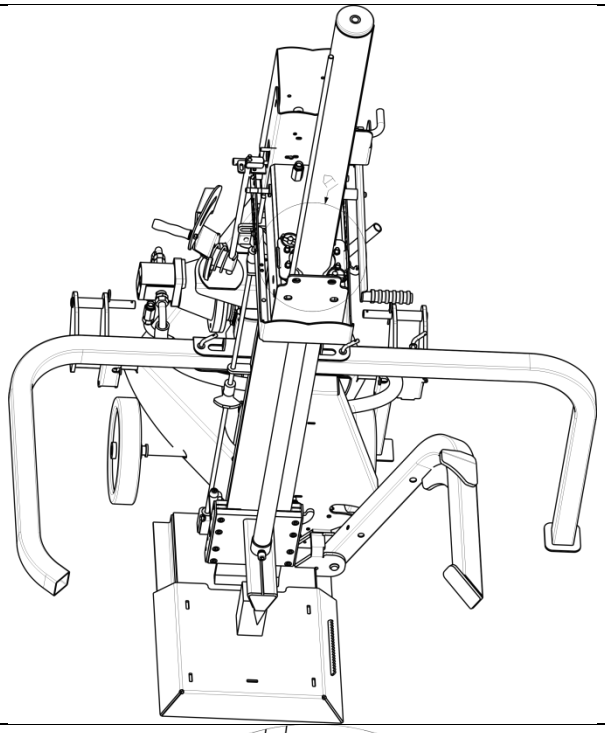
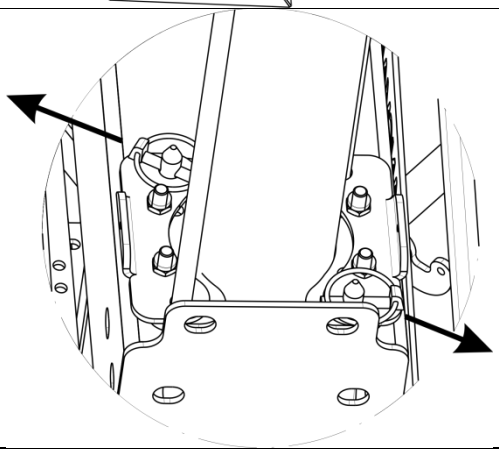
8.6 How to prepare the splitter for a working position

The splitter is supplied with a lowered cylinder.

First you must set the cylinder to the initial position and then you may start splitting.
When the log splitter is in folded up position, put a suitable pad (for example wooden) under the blade of the log splitter, in the size of 15 cm. Make sure that the bottom activation lever does not lean on the security shutdown switch that prevents the log splitter from activating.

	FIRST, PUSH DOWN THE (A) LEFT LEVER (AND HOLD IT), THEN ALSO THE RIGHT (B) AND HOLD IT UNTIL THE CYLINDER MOVES TO THE UPPER POSITION. WHEN THE CYLINDER REACHES THE UPPER POSITION, RELEASE BOTH LEVERS.
	PUT IN THE SAFTY PARTS PUSH THE LEVER B UP IN ORDER TO MOVE THE BLADE TO THE UPPER POSITION. YOU MAY START SPLITTING.
	SAFETY LOCK. CYLINDER MUST BE PROTECTED WITH FIX BOLT AS SHOWN ON THE PICTURE. 

8.7 How to prepare the log splitter for transport

	PLACE THE BLADE INTO THE LOWER POSITION OF THE LOG SPLITTER SO THAT IT LEANS ON THE WOODEN PART (YOU CAN USE A SPLITTED LOG, PLACED SIDEWAYS).
	WHEN THE BLADE IS IN THE LOWER POSITION, REMOVE THE SAFEGUARD OF THE CYLINDER, PUSH THE LEVER B UP. THE CYLINDER WILL MOVE DOWN. WHEN THE CYLINDER REACHES THE LOWER POSITION, PRESS THE LEVER B DOWN IN ORDER TO PLACE THE VALVE INTO A NEUTRAL POSITION.

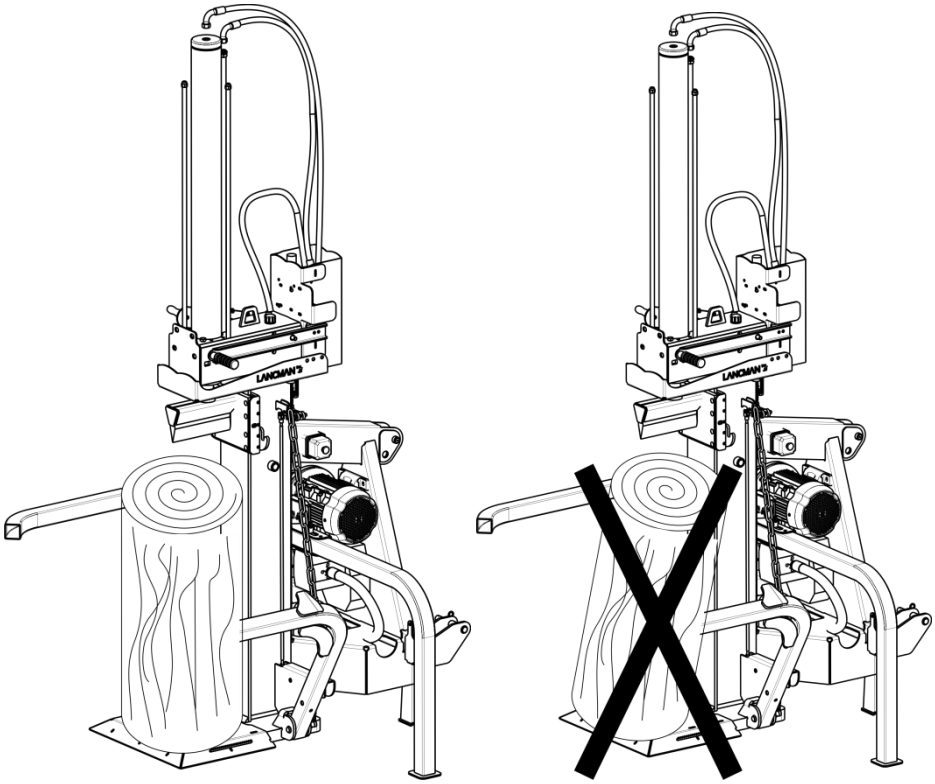
In case you cannot fold the log splitter, you should release the security shutdown button below.

Push both levers away down. The cylinder descends to the safety table.

Before you install the cylinder on the splitter again, make sure that no hydraulic hoses are stuck or caught.

8.8 Splitting

In case the outside temperature is below zero (below 32 F) allow the splitter to run for approx. 5 minutes so that the hydraulic system reaches the operating temperature and then you may start working (hydraulic hoses should be slightly warm).



Put the log in an upright position and push it under the blade so that the log leans under the blade. In this way also work with thin logs is safe.
Push both levers on the splitter simultaneously. The blade moves towards the log and splits it. When releasing the levers the blade stops.
In order to move the blade into the initial position, push the levers up.
Note: The rod for switching-off can be also used for adjusting of the movement of the blade towards the initial position.
Unscrew the wing nut and push the rod for switching-off into the desired position (see picture: Log splitting).

In case the log is pressing against the safety bow, it can pop out of its position and fall to the ground. In this way the safety bow will not be damaged.

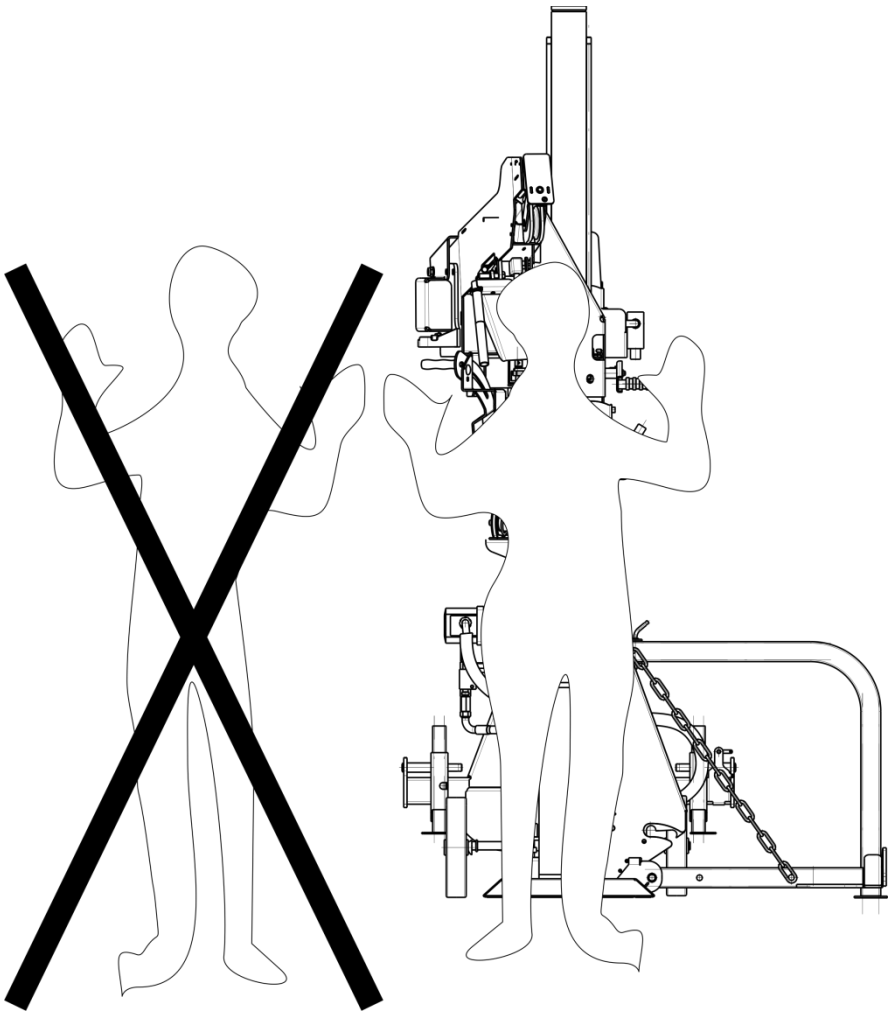
Before you start splitting another log, place the safety bow back to its operating position.

OIL WORKING TEMPERATURE MUST NOT EXCEED 80˚C (176 F). CHECK THE TEMPERATURE ON THE SENSOR. (ONLY MODELS LANCMAN 17, LANCMAN 22 and LANCMAN 26).

Never split the diagonally cut logs.

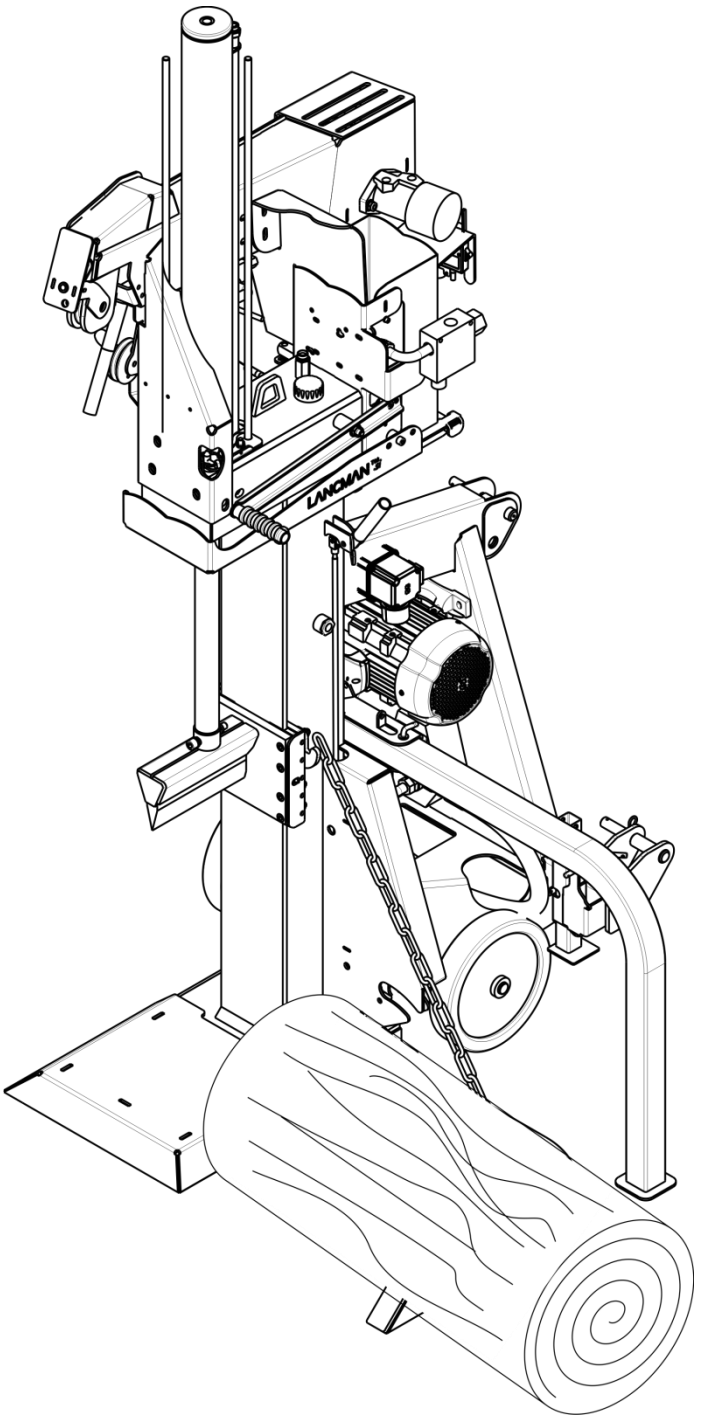
When splitting forked logs and irregularly shaped logs be careful since they may not be safely in place. The danger when splitting forked logs may arise from the fact that such logs move unexpectedly. Therefore please be cautious!

In case a log gets stuck on the blade turn off the splitter and safely remove the stuck log.



The splitter may be used by only one person at a time.

8.9 Mechanism for lifting logs



Through this mechanism the log is placed in the correct position for splitting. Actually the blade places the log while returning to the initial position.

The mechanism for lifting logs may be used only on a log splitter that is connected to a three-point connection of the tractor.

Installation of the lifting chain
The lifting arm (1) moves up and down together with the blade:
- Fix the last link of the chain onto the plate.

The lifting arm remains raised:
- with a manual lift of the mechanism (hook the lifting arm should in the notch of the lever (2)), or
- with fixing the link of the chain to the arm (the lifting arm automatically hooks in the notch of the lever).

Note: As the lifting arm moves down with a chain, you should activate the safety lever (5) in order that the lifting arm moves out of the notch of the lever.

To turn off the axe while returning to the initial position push the yellow shield up until the blade stops.

8.10 Mechanism for lifting logs

Through this mechanism the log is placed in the correct position for splitting with the help of the hydraulic gripper arm.
The hydraulic system of the gripper arm is separated from the other hydraulic system (it has a separated pump).

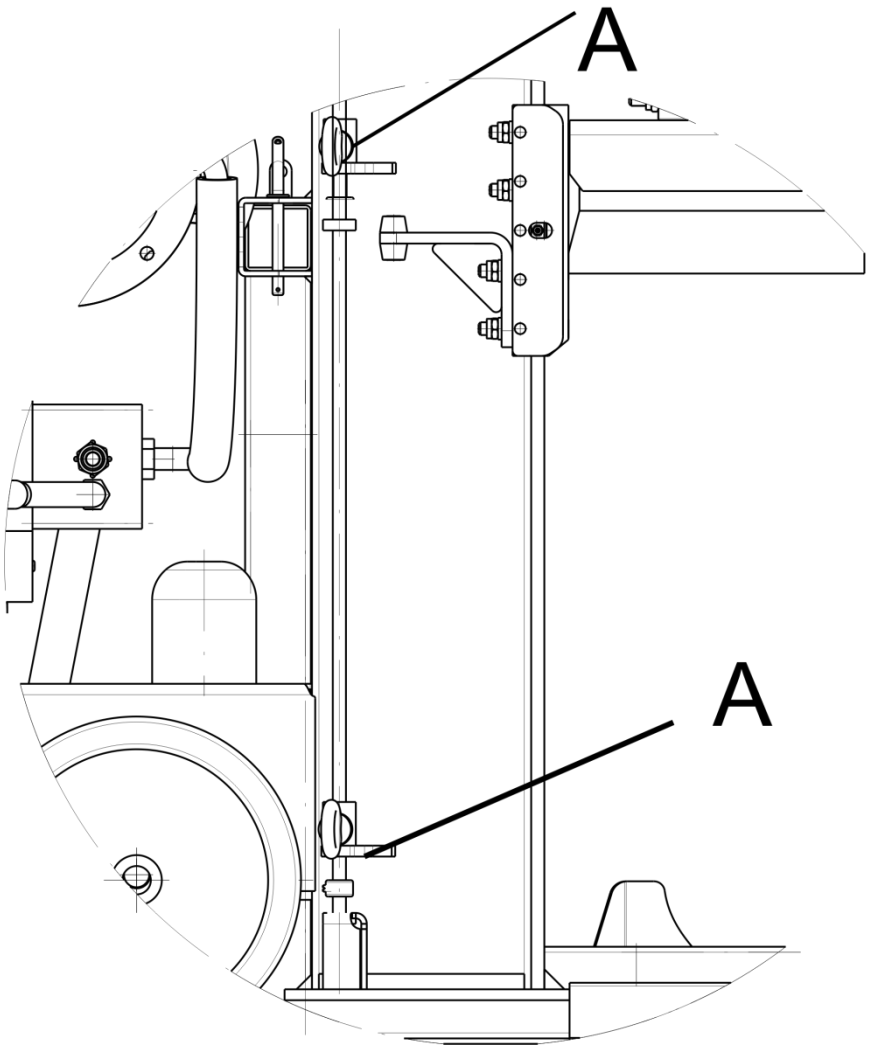
On the right side at the top there is a valve for controlling the gripper arm.
The arm operates only when the hydraulic pump is running.
When moving the lever **down** the gripper arm moves **up** and vice versa.

The mechanism for lifting logs may be used only on a log splitter that is connected to a three-point connection of the tractor.

When you are done working always make sure the gripper arm is in the lower position, since the hydraulic can lessen also when the pump is not running.

8.11 Controlling the position of the blade

When splitting short logs and you want to do it faster, adjust the blade to the desired length. Place the screw (a) to a desired height.
In order to do that you need to move the blade to the lowest position, unscrew the bolt (A), set the desired height and tighten the bolds in the position.



9. USE OF THE WINCH FOR TOWING OF LOGS – EXTRA EQUIPMENT

Winch for towing of logs is regarded as extra equipment and can be ordered together with the log splitter. It is not possible to order it separately (without the log splitter)!

9.1 Intended use of the winch

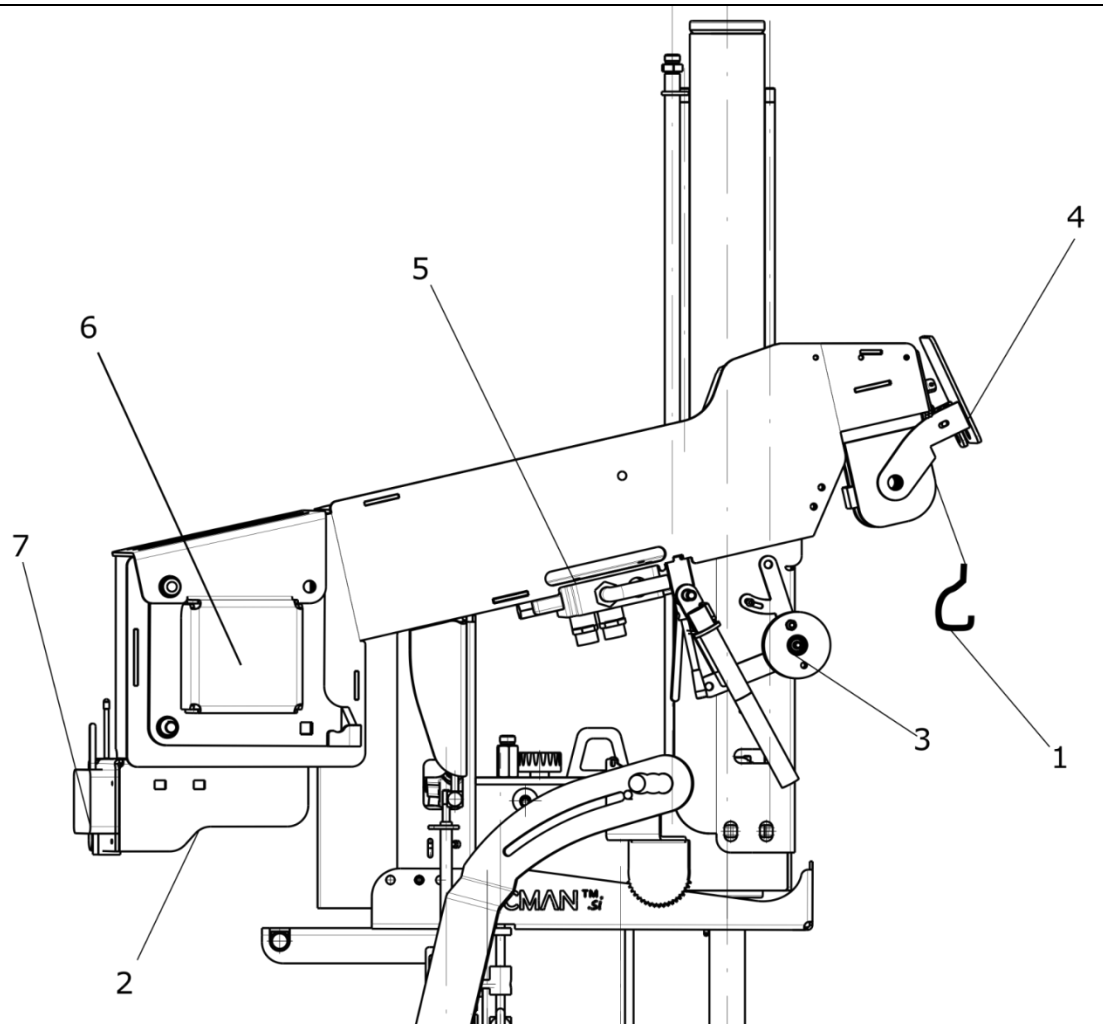
The winch for towing of logs makes the work with the log splitter easy. Thick and heavy logs that are difficult to move or carry can be towed closer to the splitter with the winch, placed on the splitter.

The models that are compatible with the winch are described in the chart on the technical data in the next chapter.

9.2 Technical data on the winch for the log splitters LANCMAN

TIP	STX13	STX17	STX21	STX 17 GP STX21GP/ STX22/STX26
WEIGHT:	90 kg	90 kg	90 kg	90 kg
TRACTIVE FORCE:	7,5 kN	7,5 kN	7,5 kN	7,5 kN
Min. breaking load of the tightrope	19,6 kN	19,6 kN	19,6 kN	19,6 kN
BUILT-IN TIGHTROPE:	See the plate			
BUILT-IN TIGHTROPE	6 mm / 25 m	6 mm / 25 m	6 mm / 25 m	6 mm / 25 m
SPEED OF THE TIGHTROPE: 6 mm AT 400 rpm ON THE PTO SHAFT	0,89 m/s	1,11 m/s	1,11 m/s	0-1,18 m/s
TONGS IN BASIC EQUIPMENT:	NO	NO	NO	NO
MAX. LENGTH OF THE TOWED LOG:	117 cm			
MAX. WEIGHT OF THE TOWED LOG:	750 KG			
OPERATING VIBRATIONS	none			

9.3 Machine description



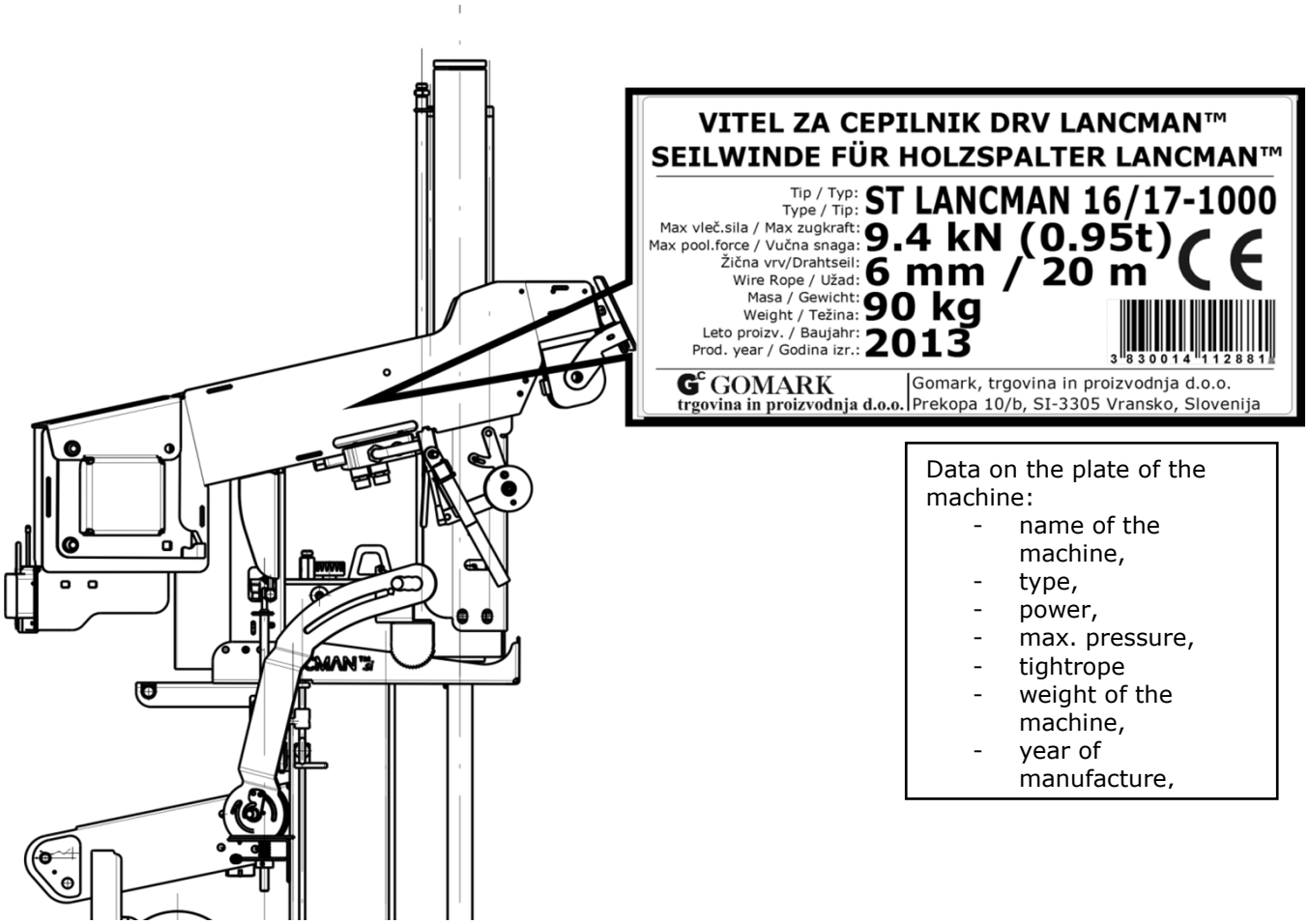
1. HOOK FOR FASTENING THE TONGS
2. **ELECTROMAGNETIC VALVE FOR WINCH CONTROL
3. * WHEEL FOR AN EASIER UNWINDING OF THE TIGHTROPE
4. CRADLE FOR DIRECTING OF THE TIGHTROPE AND LIMIT SWITCH
5. *HYDRAULIC VALVE
6. FRAME OF THE WINCH
7. **REMOTE CONTROL RECEIVER FOR WINCH

* MODELS WITHOUT REMOTE CONTROL ONLY
** MODELS WITH REMOTE CONTROL ONLY

9.4 Picture with identification data on the machine and location of the plate.

The plate is at the top of the machine frame, on the side of the composite panel, next to the on/off power system.

Safety warnings placed on the splitter.

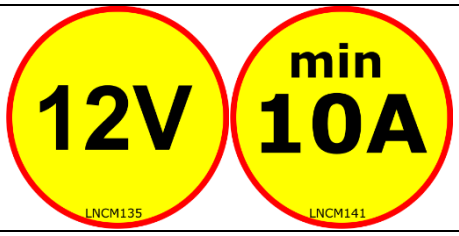
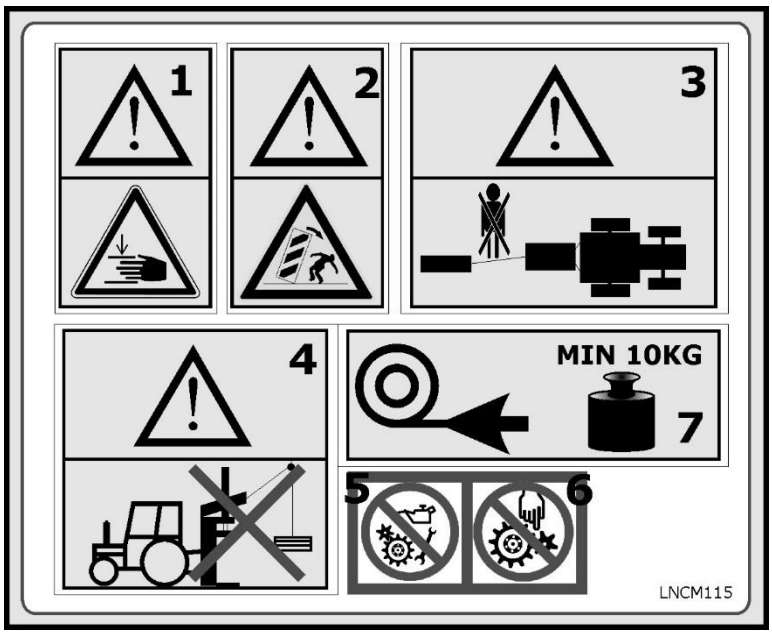
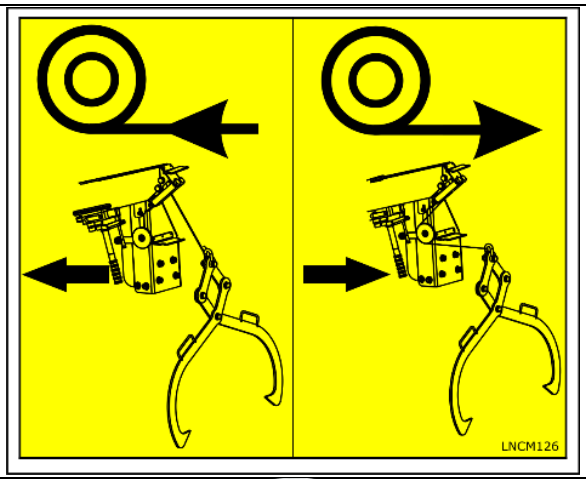


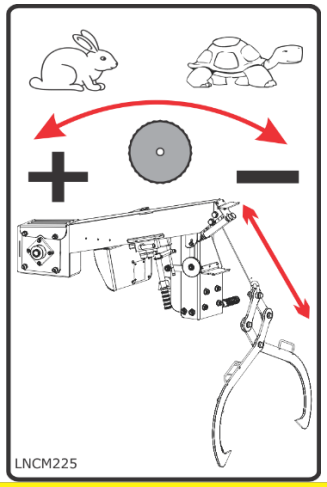
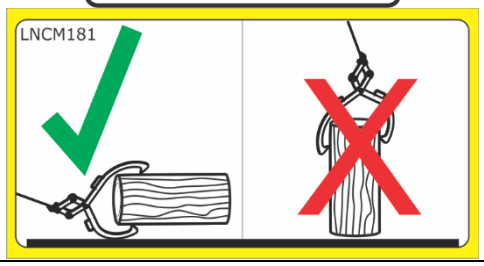
Data on the plate of the machine:

- name of the machine,
- type,
- power,
- max. pressure,
- tightrope
- weight of the machine,
- year of manufacture,

9.5 Warning signs

Warning signs, placed on the splitter, are warning the workers of the dangers which may occur when using the splitter (each pictogram is placed once only).

NUMBER OF THE SIGN			MEANING
LNCM120, LNCM141			**REQUIRES ELECTRICITY 12V / 10A**
LNCM115		**1**	**Risk of injury – squeezing of the arms.**
		2	**Risk of tipping over of the load.**
		3	**Use the winch only in the case the log splitter is connected to tractor. Do not enter into the dangerous area!**
		4	**It is not intended for lifting load.**
		5	**Do not remove the safety parts from the splitter while operating.**
		6	**Do not repair, clean, adjust or oil the moving marts of the splitter.**
		7	**MIN WEIGHT OF WINDING MUST BE 10 KG.**
LNCM126			**WINDING OF THE WIRE– ROTATE LEVER TO THE LEFT** **UNWINDING OF THE WIRE– ROTATE LEVER TO THE RIGHT** ***Models with a mechanical winch only.**
LNCM122			**REMOTE CONTROLED WINDING/UNWINDING OF THE WIRE**

LNCM225		**SPEED REGULATION WINDING/UNWINDING OF THE WIRE**
LNCM181		**RIGHT USE OF THE GRIPPING PILERS**

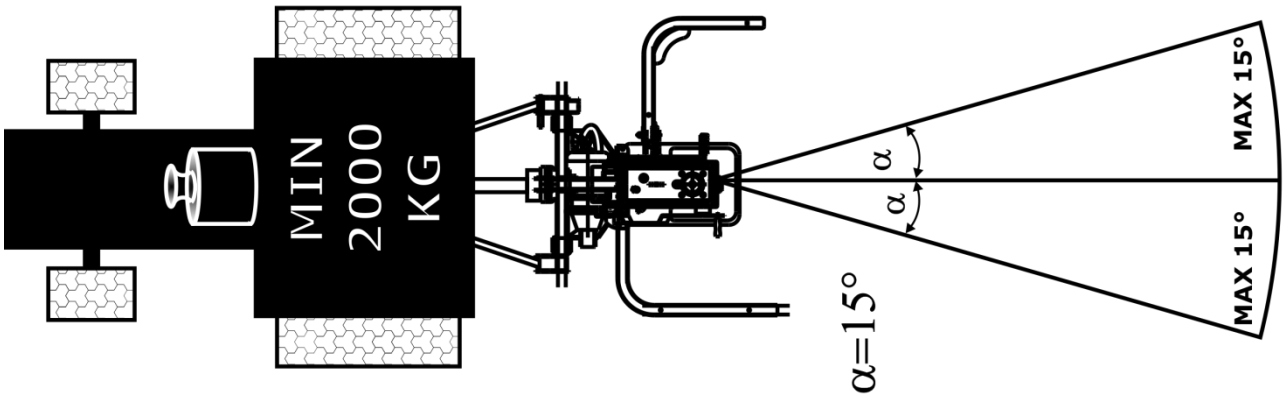
9.6 PREPARATION OF THE WINCH FOR OPERATION

Prior to the sale the winch is inspected at the factory and tested to the maximum pressure, therefore it is prepared for operation.
The hydraulic system is filled with oil, the tightrope is coiled on the drum of the winch.

Before the first operation check:
If the winch is intact (possible transport damage).
The hydraulic hoses and cylinder of the splitter because of possible transport damage.
In the event of damage to the machine immediately contact the dealer or manufacturer’s service department.

9.7 SAFETY OF THE WINCH

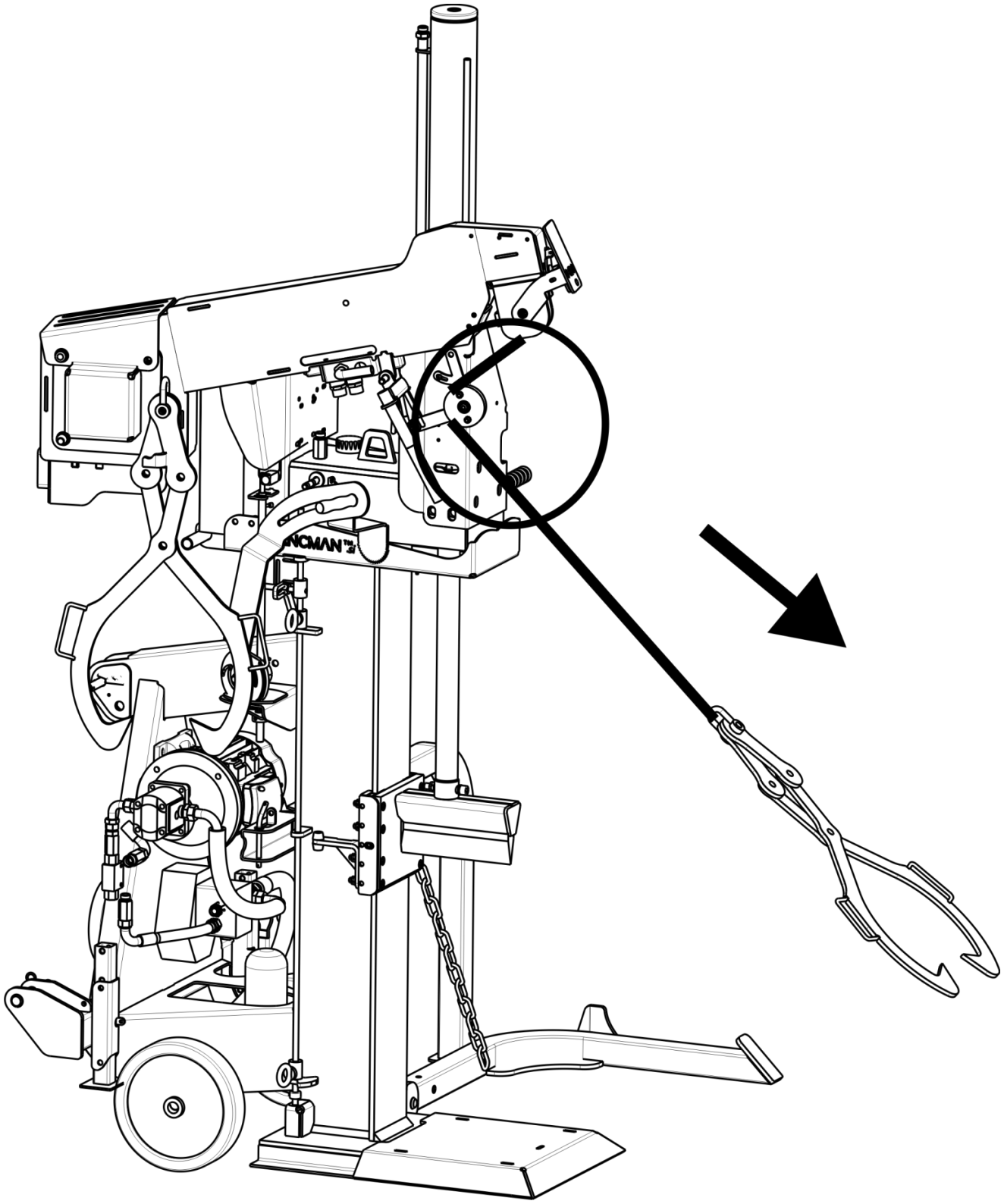
⚠	Before the first use read the technical data and the user's manual.
⚠	The person using the machine is responsible for the area around the machine and must ensure that other people are not in the working area of the machine in order to avoid possible injuries.
⚠	The winch may be used only by the person qualified for this work and who is aware of the danger and is familiar with the user's manual for the winch.
⚠	The minimum age of the machine user: 18 years
⚠	Mandatory use of the personal protective equipment: helmet, gloves, forestry work boots.
⚠	Use only appropriate winching equipment and devices suitable for the tractive force of the winch.
⚠	Make sure that the tightrope under load does not unwind completely but only to the red mark. The tightrope must be always firmly winded on the drum.
⚠	**Throughout the entire operation the log splitter must be connected to the three-point system of the tractor. Danger of tipping over!**
⚠	Log splitter with the winch must stand firmly on the ground so that the foot of the splitter. Log splitter seats correctly on the ground.
⚠	The working environment should be light. Working in a dark space may result in injuries.
⚠	The splitter may use only one person at a time.
⚠	**During the operation do not stand between the towed load and the winch! Do not reach into the area of the route of the tightrope of the winch.**
⚠	For your safety, use the winch on flat terrain only!
⚠	If operating the winch with remote control, walk behind the towed load!
⚠	When inspecting or repairing the machine, turn off the splitter and the winch.
⚠	Before the use always make sure that the machine is in good technical condition. Never use the machine if the machine parts are damaged or the screws are not tightly screwed down. Before use screw down the screws and replace the damaged parts. Use the manufacturer's specified parts only. **A damaged tightrope must be replaced.**
⚠	During the transport the tightrope must be always be on its place (stored).
⚠	**You may unhook the load when the tightrope is loose!**
⚠	Keep your work zone clean at all times. Any obstacles which could cause danger should be removed before using the machine.
⚠	Regularly check the performance of all safety means.
⚠	Throughout the entire operation of the winch the log splitter must be connected to the three-point system. Danger of tipping over!
⚠	**Beware the max. angle of the way of the towed logs. The log splitter with the winch should be connected to a tractor with a minimum weight of 2000 kg. Danger of tipping over! See picture below.**



9.8 OPERATING WITH WINCH

Route the rope of the winch through the roller as shown on the picture. Then pull the rope using tongs to the desired position and clamp the log.

9.8.1 MECHANICAL WINCH



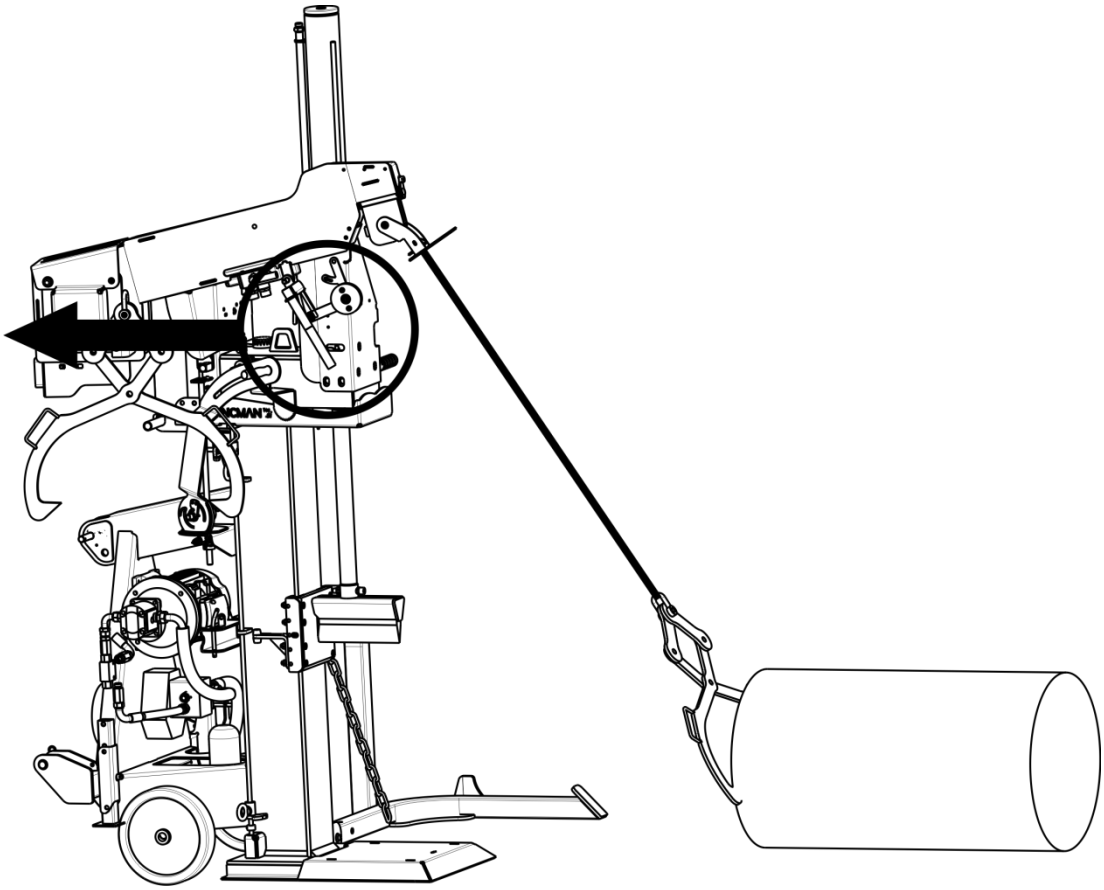
When unwinding take care that the tightrope is taut at all times in order not to get stuck in the casing of the winch!

This will cause damage to the rope. In case this happens to you, immediately stop the winch and manually solve the problem before resuming the work. You should unwind the tightrope and wind it again on the drum of the winch.

When unwinding be careful not to exceed the maximum unwinding length of the rope. Beware of the red part of the tightrope! Stop unwinding the rope as soon you reach the red part. It indicates that the rope is entirely unwound. Any further unwinding may cause only damage to the winch and the rope!

⚠ **When winding it is necessary to provide load that weights min. 30 kg in order for the rope to evenly and correctly wind on the drum of the winch.**

THE WINCH DOES NOT HAVE AN BUILT-IN AUTOMATIC SWITCH-OFF SYSTEM!

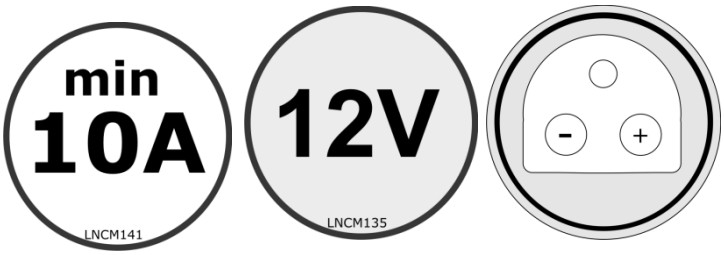


Fasten the log with tongs (grasp it as shown on the picture above). Step to the place of the operator to control the winch – next to the activation lever. Turn on the lever of the winch for towing in the direction as shown on the picture above. When the rope returns take care that during the towing you do not hit an obstacle. Danger of tipping over! Make sure that the way of the rope stays free from persons and objects (danger of capture).

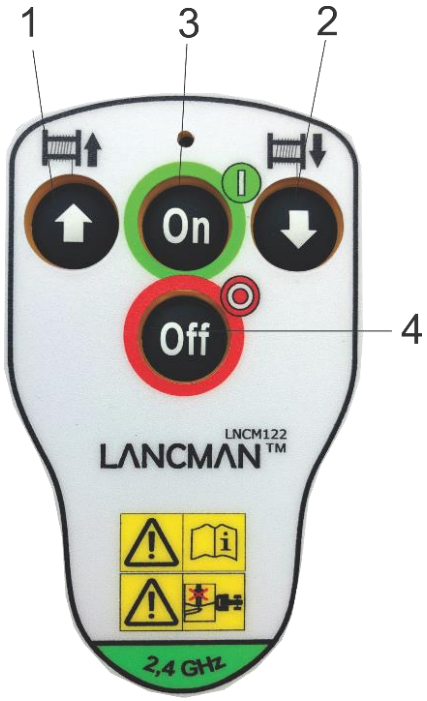
When the rope returns take care that you stop the operation on time that the obstacle (load) does not hit the cylinders at the top of the winch! The end of the rope is again marked with a red colour.

9.8.2 WINCH WITH A REMOTE CONTROL

Log splitter also has a winch, operated per remote control winch.



THE OPERATION OF THE WINCH REQUIRES ELECTRICITY 12V / 10A !



1 START – SWITCH ON
2 STOP – SWITCH OFF
3 WINDING, TOWING OF LOGS
4 UNWINDING

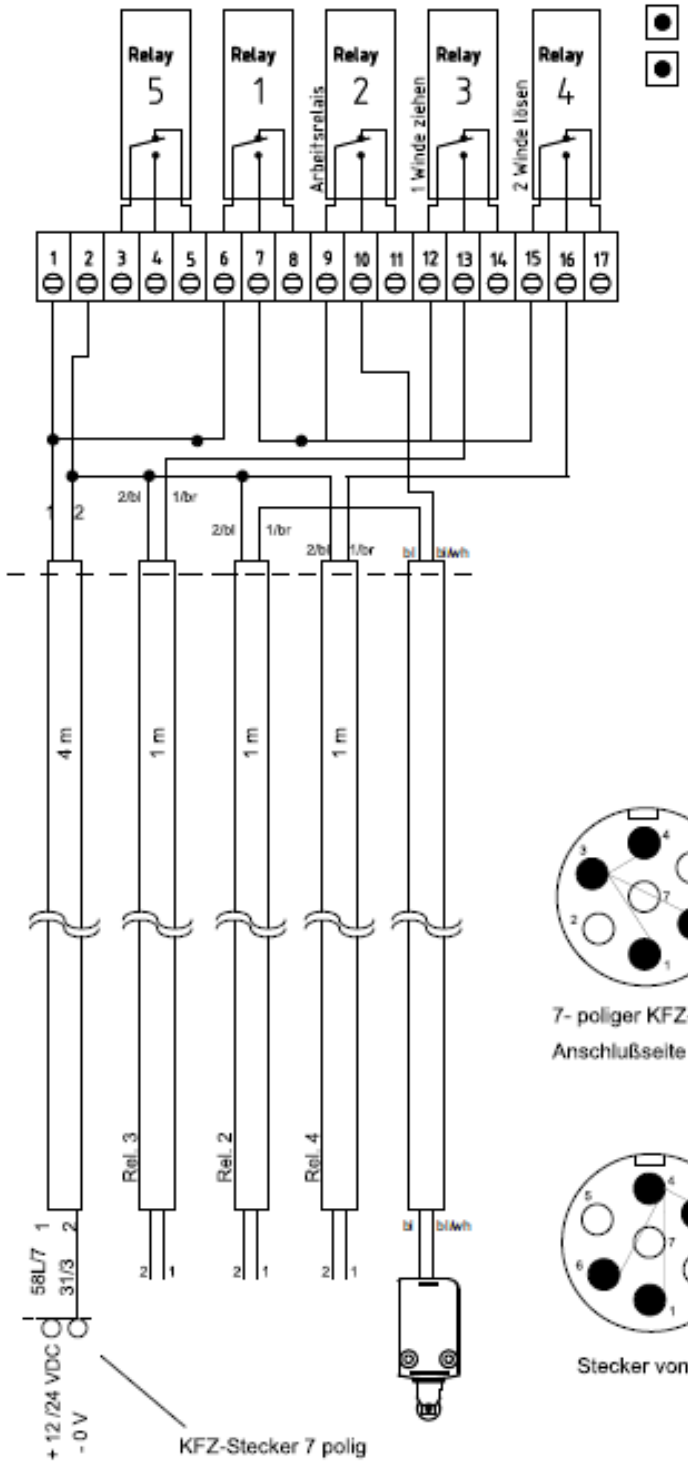
When unwinding take care that the tightrope is taut at all times in order not to get stuck in the casing of the winch!
This will cause damage to the rope. In case this happens to you, immediately stop the winch and manually solve the problem before resuming the work. You should unwind the tightrope and wind it again on the drum of the winch.

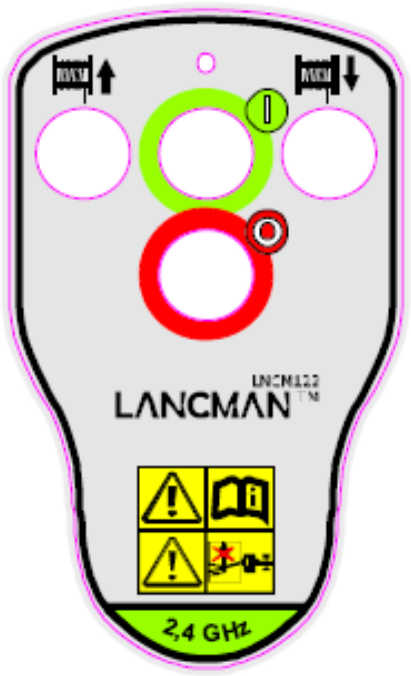
When unwinding be careful not to exceed the maximum unwinding length of the rope. Beware of the red part of the tightrope! Stop unwinding the rope as soon you reach the red part. It indicates that the rope is entirely unwound. Any further unwinding may cause only damage to the winch and the rope!

When winding it is necessary to provide load that weights min. 30 kg in order for the rope to evenly and correctly wind on the drum of the winch.

THE WINCH DOES NOT HAVE A BUILT-IN AUTOMATIC SWITCH-OFF SYSTEM!

9.8.3 SCHEME OF THE ELECTRICAL CONNECTION OF THE RECEIVER





7- poliger KFZ-Stecker
Anschlußseite

Stecker von vorne

Wird der Sender mittels Taste 2 EIN geschaltet, so schalten im Empfänger das Relais 1 EIN und das Relais 5 EIN.

Wird der Sender mittels Taste 4 AUS geschaltet, so schalten im Empfänger das Relais 1 AUS und das Relais 5 AUS.

Wird innerhalb von 15 Minuten keine Taste gedrückt so geht das Relais 1 AUS, Relais 5 verbleibt auf EIN. Sender muss dann über die Taste 2 neu gestartet werden.

Relais 5 geht erst durch das explizite Drücken der Taste 4 (Sender aus) aus.

9.9 MAINTENANCE AND INSPECTIONS OF THE WINCH

Before carrying out maintenance and inspections disconnect the log splitter from the PTO shaft.

General safety rules

- Use original spare parts only.
- Never use the winch without protection.
- Before every use, check the function of the splitter's steering system

Inspection of the splitter

- Screw down all nuts after the first hour of work and then periodically after every 100 working hours on the winch.
- Replace used nuts with new ones.
- Before every use check the condition of the tightrope and its attachments.
- **The manufacturer of the tightrope warrants for 1 year. Then every year you should carry out the inspection or replace the tightrope with a new one.**

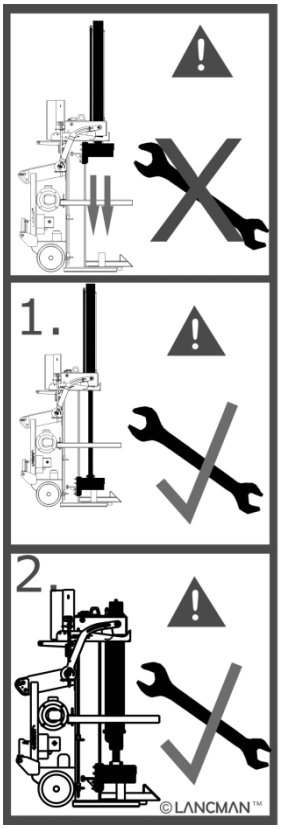
Hydraulic system

- Before every use, check the condition of the hydraulic installation (hose). Pay special attention to possible mechanical damage. A damaged hydraulic hose can burst under high pressure and oil can squirt out. This is very dangerous!

9.10 TROUBLESHOOTING

DEFECT	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The winch does not tow.	Wring direction of the pushing oft he control lever.	Push the control lever into other direction.
	Stuck towing rope.	Inspection of the towing rope.
	Oil leaking	Check all hydraulic joints.
The control lever operates inversely.	The rope was unwound until the end and then it started to wind it towards other direction.	Unwind the entire rope and wind it again in the right direction.

10. TRANSPORT AND STORING OF THE MACHINE



10.1 How to prepare the cylinder for the splitter transport

1. Push the levers down. The blade must descend to the table or the base.
2. Unscrew the two hexagonal screws on the cylinder protection.
3. Push both levers down. The cylinder descends to the blade.
4. Log splitter The splitter is ready for transport.

5. Before you install the cylinder on the splitter again, make sure that no hydraulic hoses are stuck or caught.

6. The splitter can only be transported on public roads and in the upright position.
7. For safety reasons and visibility you must stick reflective stickers on the back side of the splitter when transporting it on public roads.
8. Max. transport speed is 25 km/h (15 mph).
9. After disconnecting the splitter from the tractor place it on even and solid ground.

10.2 Transport of the splitter (Models STX11, STX 13, STX 17)

Special log splitter models can transport by hand with wheels and transport levers.

If you are not careful there is a chance to tip over the splitter when moving it, irrespective of the height and weight of the splitter.

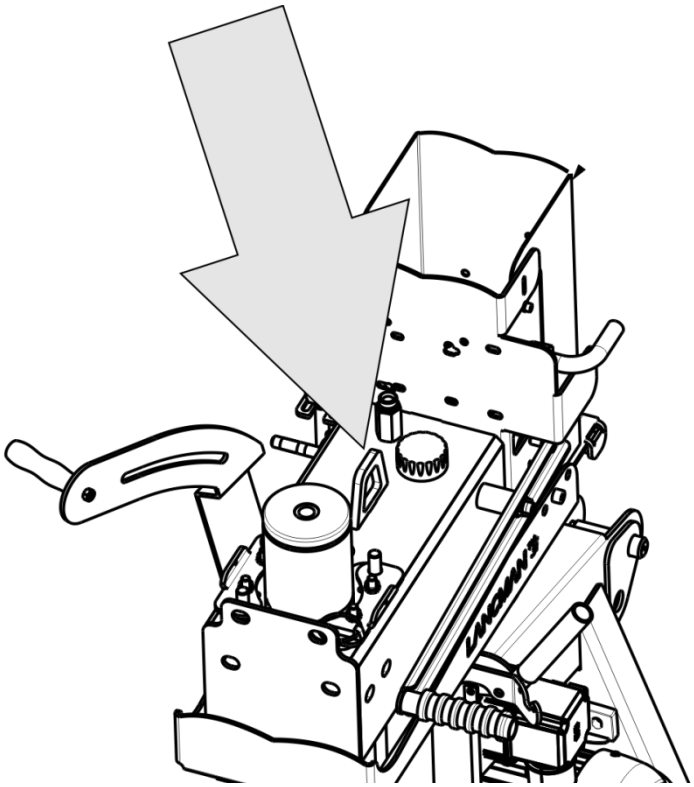
You should connect the lever to upper 3-point recording and tilt with the help of foot the log splitter until the 3rd wheel makes contact with the ground. Then you can move through the lever help log splitter in all directions. But you have to know that this is feasible only on the planes and smooth surfaces (asphalt, concrete ...)

10.3 Lifting of the splitter

Use the mooring to fasten the splitter when lifting.

⚠ Make sure that the lifting machine can lift the splitter (see: technical data, »weight of the splitter«).





11. MAINTENANCE AND INSPECTIONS



Before carrying out maintenance and inspections turn off the splitter!

11.1 General safety rules

- Never leave your splitter unattended while the engine is running.
- Use original spare parts only.
- Never use the splitter without protection.
- Before every use, check the function of the splitter's steering system and security components (yellow shield).

11.2 Inspection of the splitter

- Screw down all nuts after the first hour of work.
- Screw down all nuts and other parts after 100 working hours on the splitter.
- Replace used nuts with new ones.
- For security reasons check all connections with the hydraulics.

11.3 Hydraulic system

- Before every use, check the condition of the hydraulic installation (hose). Pay special attention to possible mechanical damage. A damaged hydraulic hose can burst under high pressure and oil can squirt out. This is very dangerous!
  Note: Check the oil level when the blade is in the starting position.
- Maximum oil level is reached when the lens for the oil level is full.
- When the oil level reaches 60 % on the scale, the minimum oil level is reached.
- If this is the case, add enough oil immediately.
- To add oil, unwind the lid of the filling part (see picture – main parts of the splitter).

11.4 Guiding framework

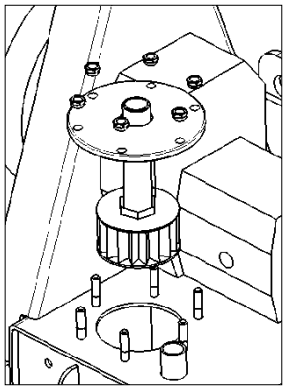
- The guiding framework needs to be lubricated regularly (put the lubricant on a brush or broom). You can also lubricate it through the lubricating nipple (depends on the model)!

11.5 Maintenance of the log splitter

Change of oil in the hydraulic system
Warning! Used oil must be removed in accordance with environmental regulations. Read and consider valid environmental regulations. *Note:* Before the change, the blade must be in the open position (starting position). The oil change must follow every 500 hours of work on the splitter or at least once in 24 months.

1. 1. Unwind the lid of the tap on top of the filling part on the tank.
2. Prepare a container for approx. 30 l of waste oil and place it under the tap on the bottom of the tank. Unwind the magnet tap on the bottom of the tank and clean it before adding new oil.
3. Insert the tap on the bottom of the tank and seal it with a sealing compound. Add new oil to the tank. The oil must be of suitable quality described under item 4. **For the amount see the technical data on the log splitter**. You should reach the maximum point on the oil scale.

11.6 Maintenance of the oil filter



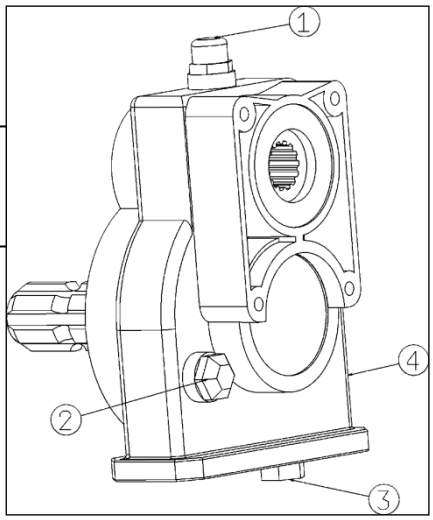
Check and/or clean the oil filter when you change oil. You may find aluminium scrapings that originate from the pump operation.
Change the filter if you find a mechanical damage or holes.

11.7 OIL FOR A MULTIPLIER DEVICE

Use oil with viscosity SAE 90.

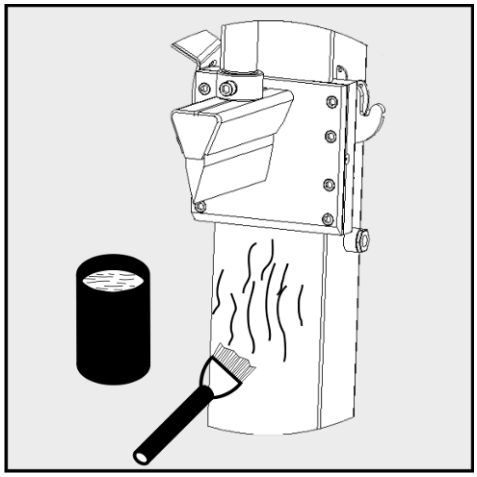
Change oil after the first 50 working hours of the splitter. Further oil changes should follow after 1500 working hours or once a year (0.5 l).

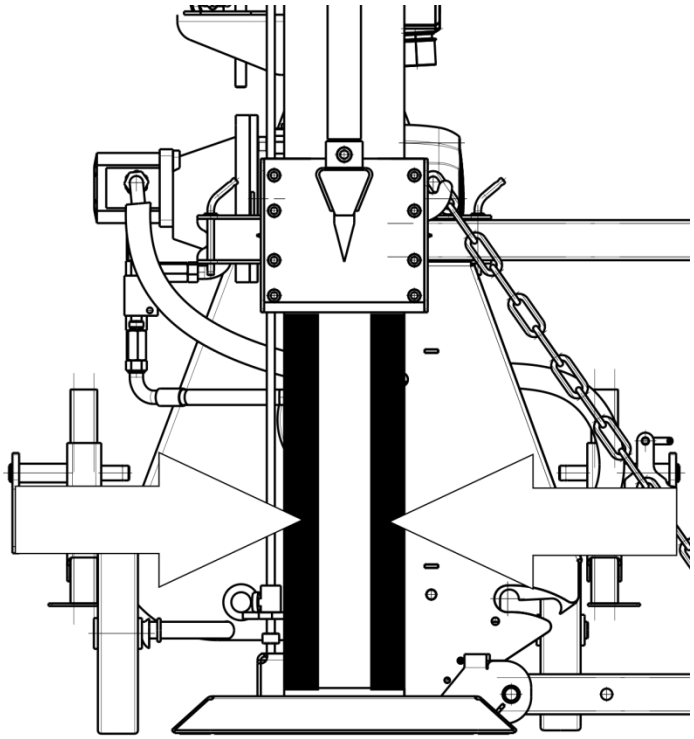
1. venting tap
2. oil scale
3. oil outlet
4. housing



11.8 Lubrication of the splitter

Regularly lubricate the gliding surface of the splitter (where the slide plate moves). The life span of plates and brass depends on the lubrication of the slide plate surface. You should also lubricate all joints on the splitter as hinges on security arms, hinge of the offset, blade and regulator of the control stick.





11.9 Slide plates of the log splitter

Slide plates of the splitter and lined brass are parts that are used fast and are consumable materials. When they are extensively used, they have to be replaced with new ones. By doing so, you enable a longer life-span for the cylinder and seals of the cylinder.

12. TROUBLESHOOTING

DEFECT	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
The blade does not move	Broken lever	Change the lever
	Wrong direction of rotation of the tractor PTO-shaft	Change the direction of rotation of the tractor PTO-shaft
	To little or no oil in the hydraulic system	Check oil level
Weak engine	Improperly installed safety valve	Check the pressure, adjust the safety valve
	To little or no oil in the hydraulic system	Check oil level
Weak engine	Improperly shaped log	Split the log from the side
Increased noise, produced by the splitter	A too high rotation speed	Preserve the prescribed rotation speed
	Clogged filter	Clean the filter
	To little oil in the multiplication device	Check the oil in the multiplication device
The blade does not move, the cylinder moves up and down	The splitter is still in the transport position. The screws for the cylinder are not tighten as described.	Unscrew the two screws, push the levers down and hold them until the cylinder housing sits on the splitter housing. Then insert the screws and tighten them.
Hydraulic system leaks	Worn out piston seal	Replace the seal
	Cranky cylinder piston	Tighten the cylinder piston
	Damaged cylinder piston	Replace the cylinder piston
Oil and hydraulic hoses overheating	Too many rotations on the drive.	Reduce the number of rotations on the tractor.
	Too little oil in the hydraulic system	Check oil level
	Poor quality of the hydraulic oil	Change oil

13. CONSUMABLES FOR THE SPLITTER

The consumables for the log splitter are:
- oil,
- wearing of the sliding plates and underlay brass,
- wearing of the blade,
- oil filter.

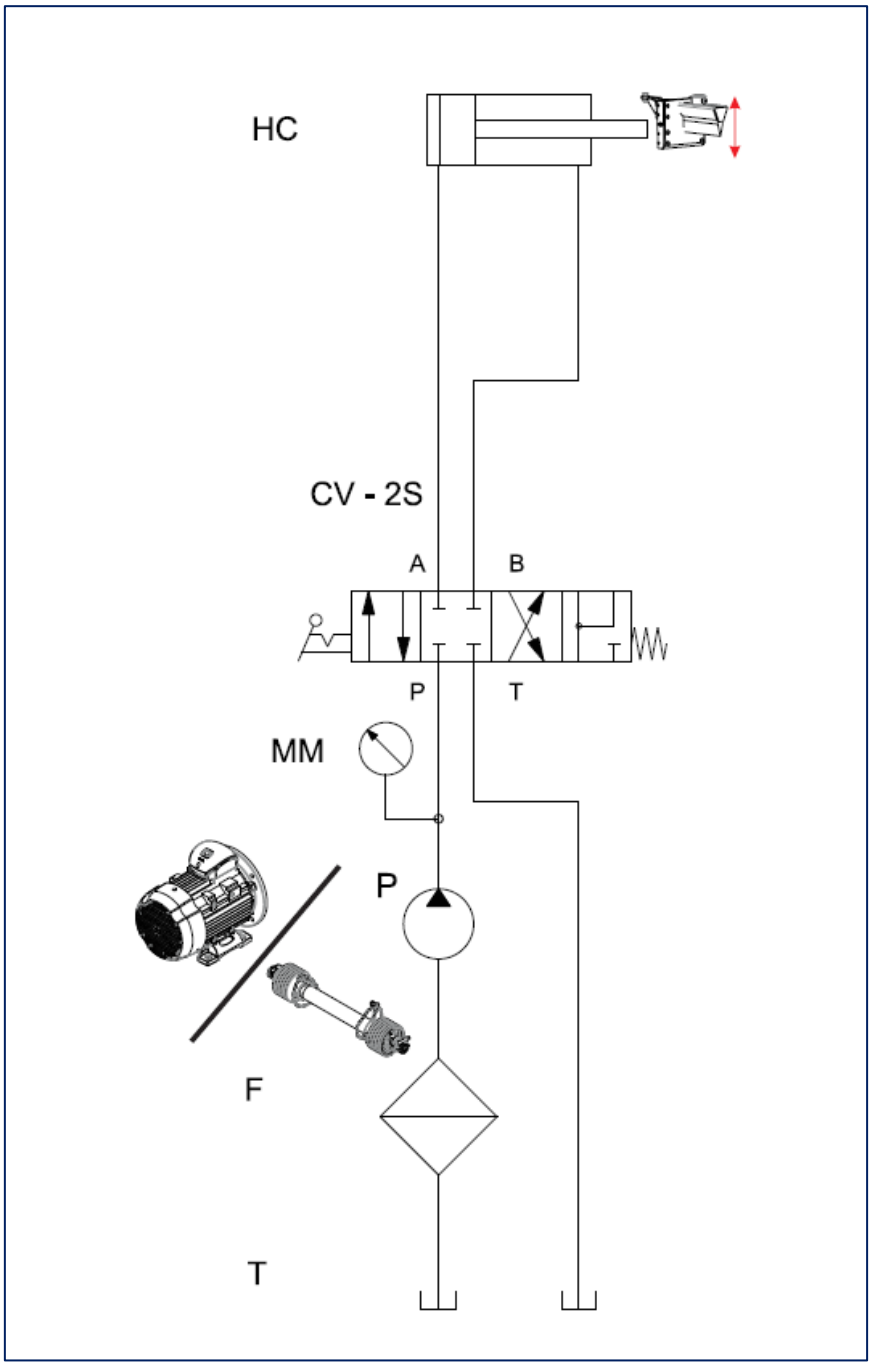
Consumables are not subject of claims.

14. HYDRAULIC SCHEME

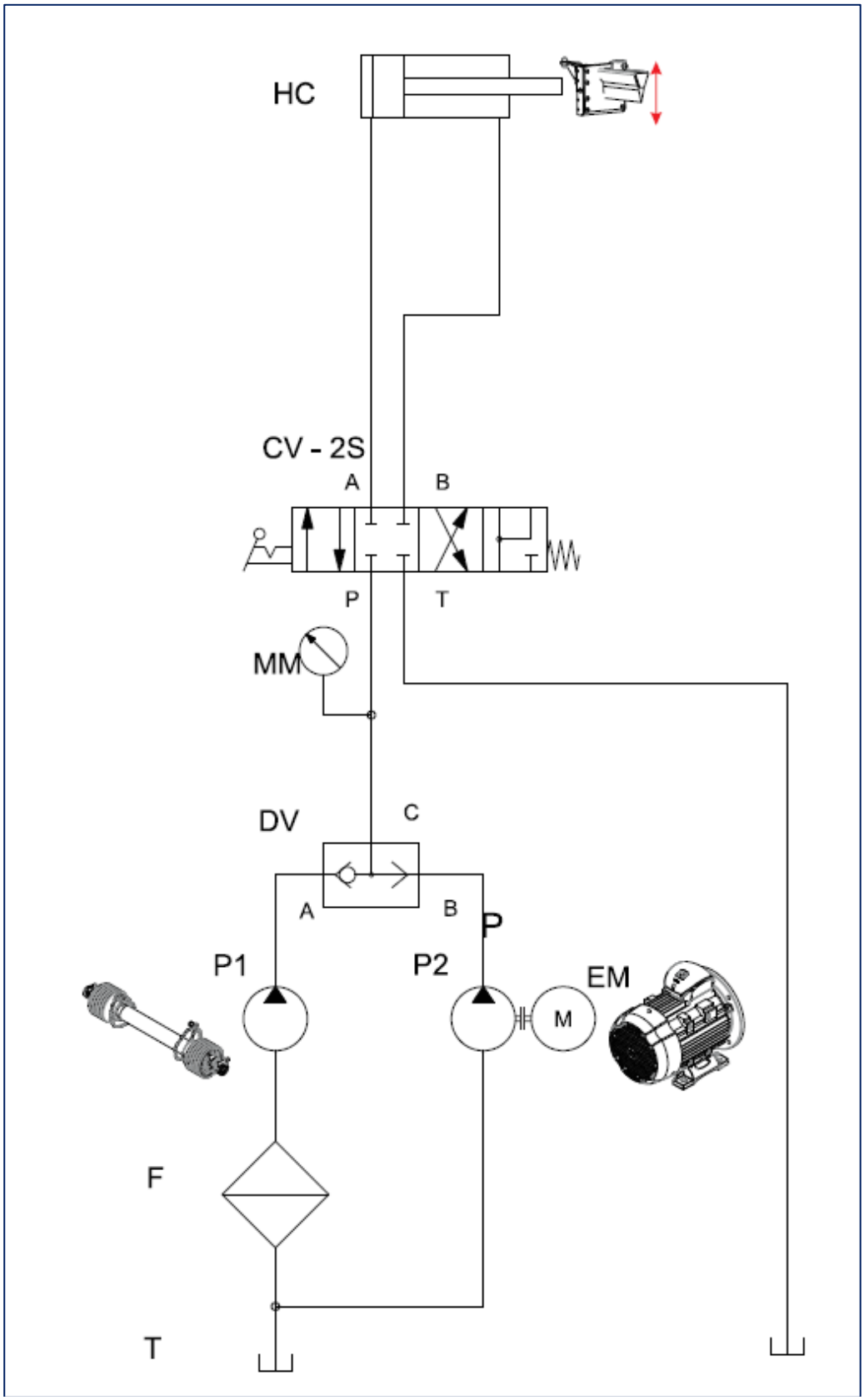
TABLE: LEGEND OF THE INICIALS

2S	**2 SPEEDS**	**FRT**	**FLOW REGULATOR WITH TANK COMP.**	**PRT**	**PRESSURE REGULATOR**
CO	**CARRY OVER**	**HC**	**HYDRAULIC CYLINDER**	**SV**	**SAFETY VALVE**
CV	**CONTROL VALVE**	**HM**	**HYDRULIC MOTOR**	**T**	**OIL TANK**
DV	**DIRECTIONAL VALVE**	**MM**	**MINI MESS**	**TV**	**T – PIECE**
EM	**ELECTRIC MOTOR**	**MSP**	**MULTISPEED VALVE**	**VI**	**WINCH**
F	**OIL FILTER**	**ODV**	**FLOW DIRECTION**	**XTSPD**	**XTRMSPEED**
FR	**FLOW REGULATOR**	**P**	**PUMP**		

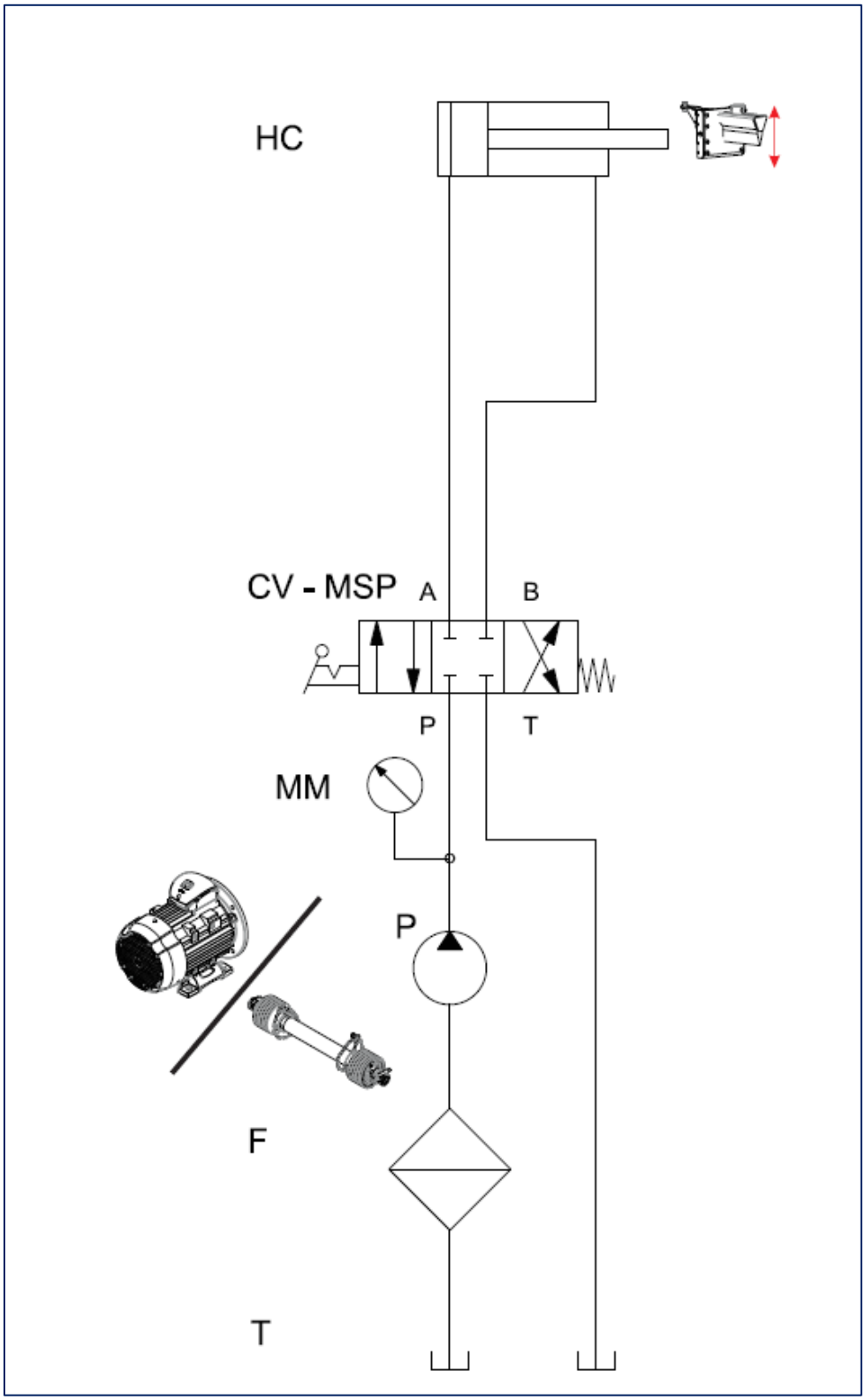
14.1 Hydraulic scheme for model PTO and EL with 2 speeds



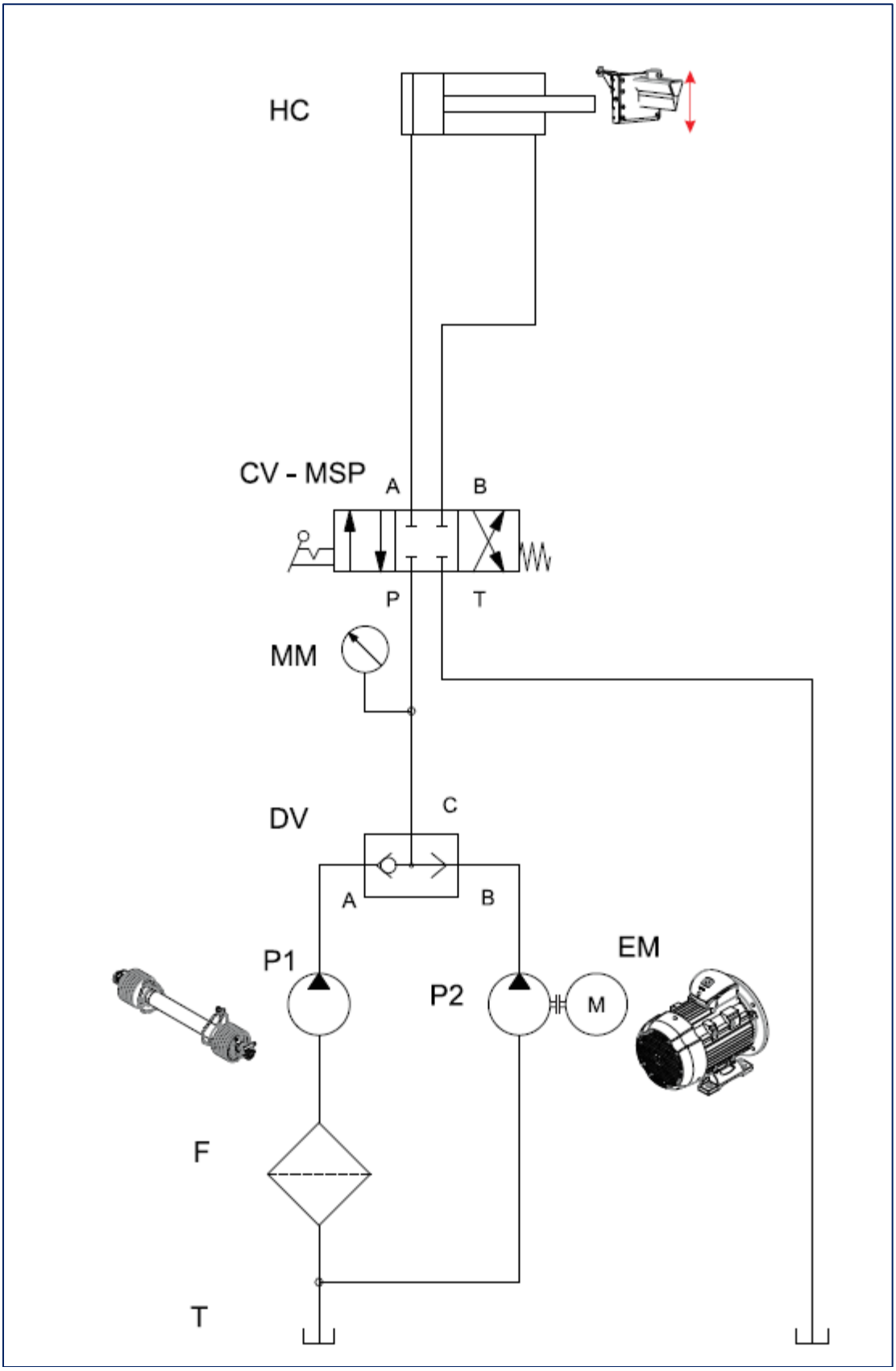
14.2 Hydraulic scheme for model PTO + ELECTRIC (COMBI) – 2 SPEEDS



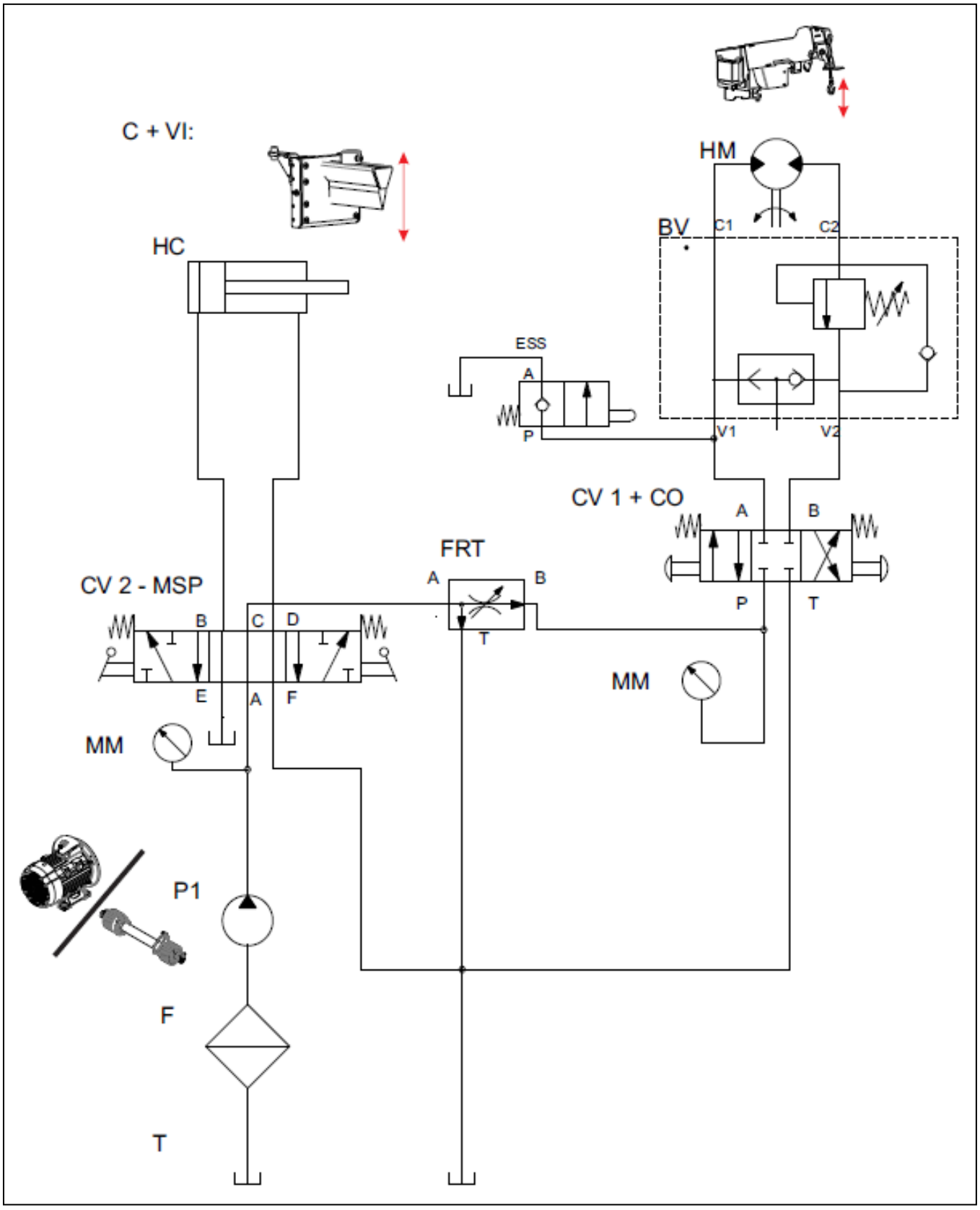
14.3 HYDRAULIC SCHEME FOR MODEL PTO OR ELECTRIC MULTISPEED



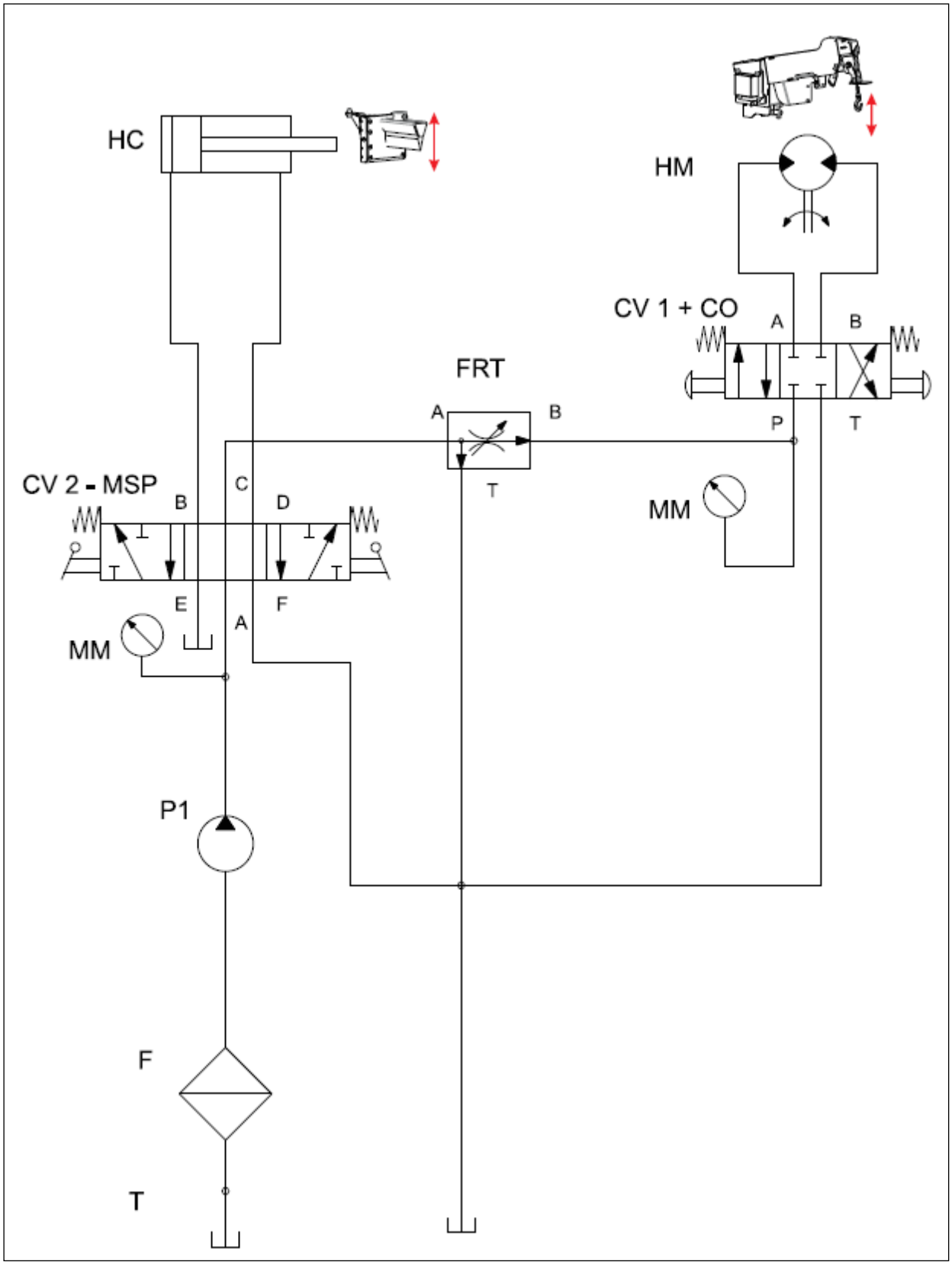
14.4 HYDRAULIC SCHEME FOR MODEL PTO AND ELECTRIC MULTISPEED



14.5 HYDRAULIC SCHEME FOR MECHANICAL ACTUATED WINCH



14.5 HYDRAULIC SCHEME FOR REMOTE ACTUATED WINCH



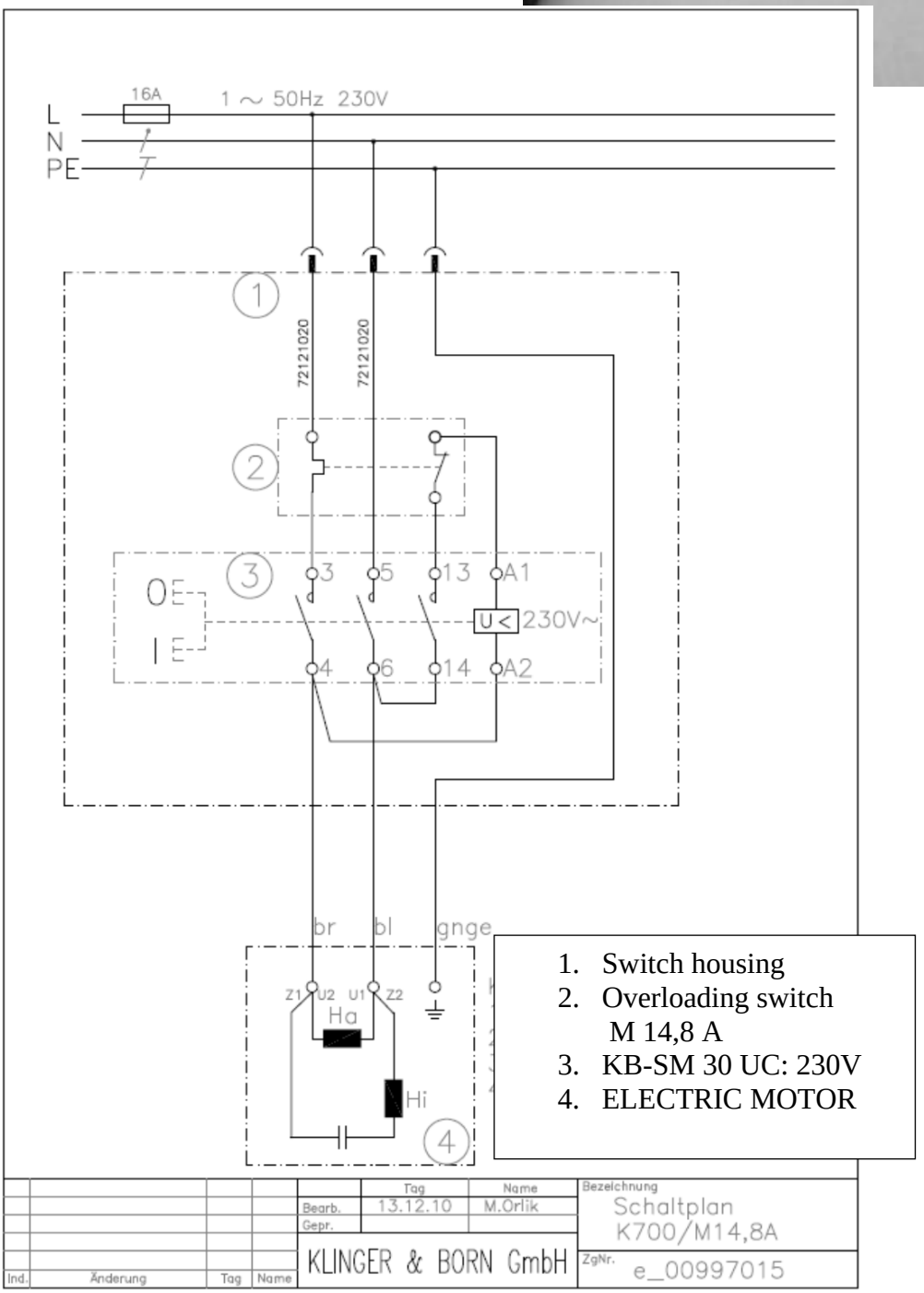
15. ELECTRIC SCHEME

15.1 ELECTRIC MOTOR 230V/2.2kW

Model: MEC100
Voltage: 230 V
Rated power: 2,2 kW
Rated current: 14 A



SWITCH KLIBO no..: 00997015.
Electric scheme:



1. Switch housing
2. Overloading switch M 14,8 A
3. KB-SM 30 UC: 230V
4. ELECTRIC MOTOR

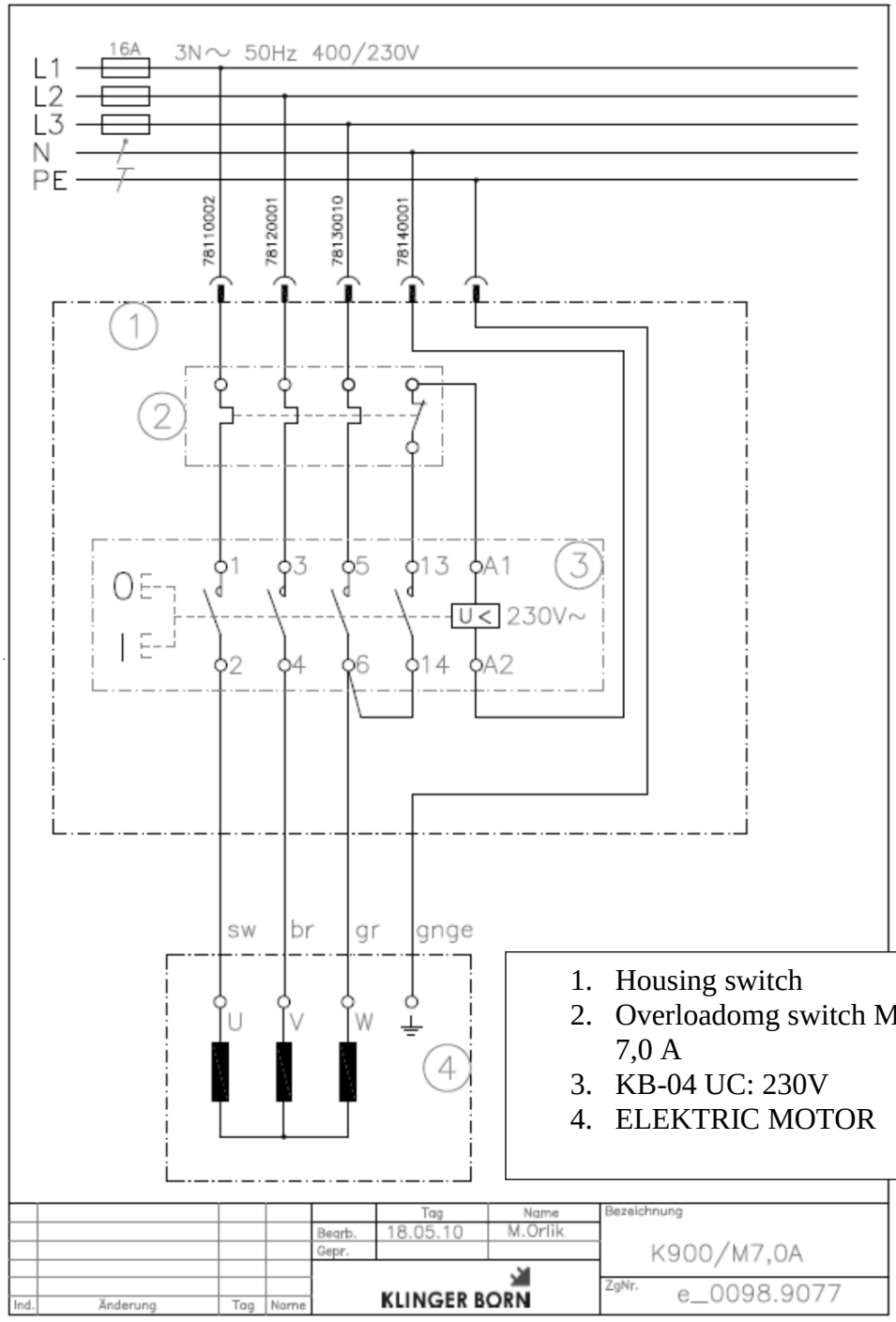
15.2 ELECTRIC MOTOR 400V/4 kW



Model: MT100 B3/B5
Voltage: 400 V/2800 rpm.
Rated power: 4 kW
Rated current: 7 A

(zero current needed)

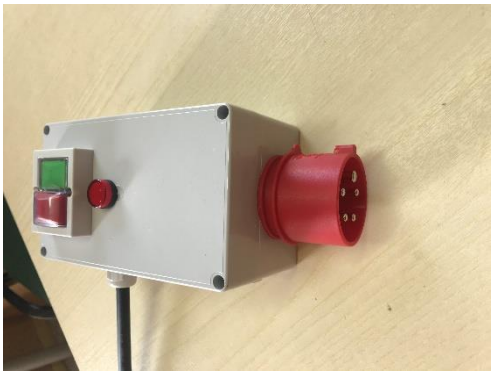
SWITCH KLIBO No.: 00989077.
Electric scheme:



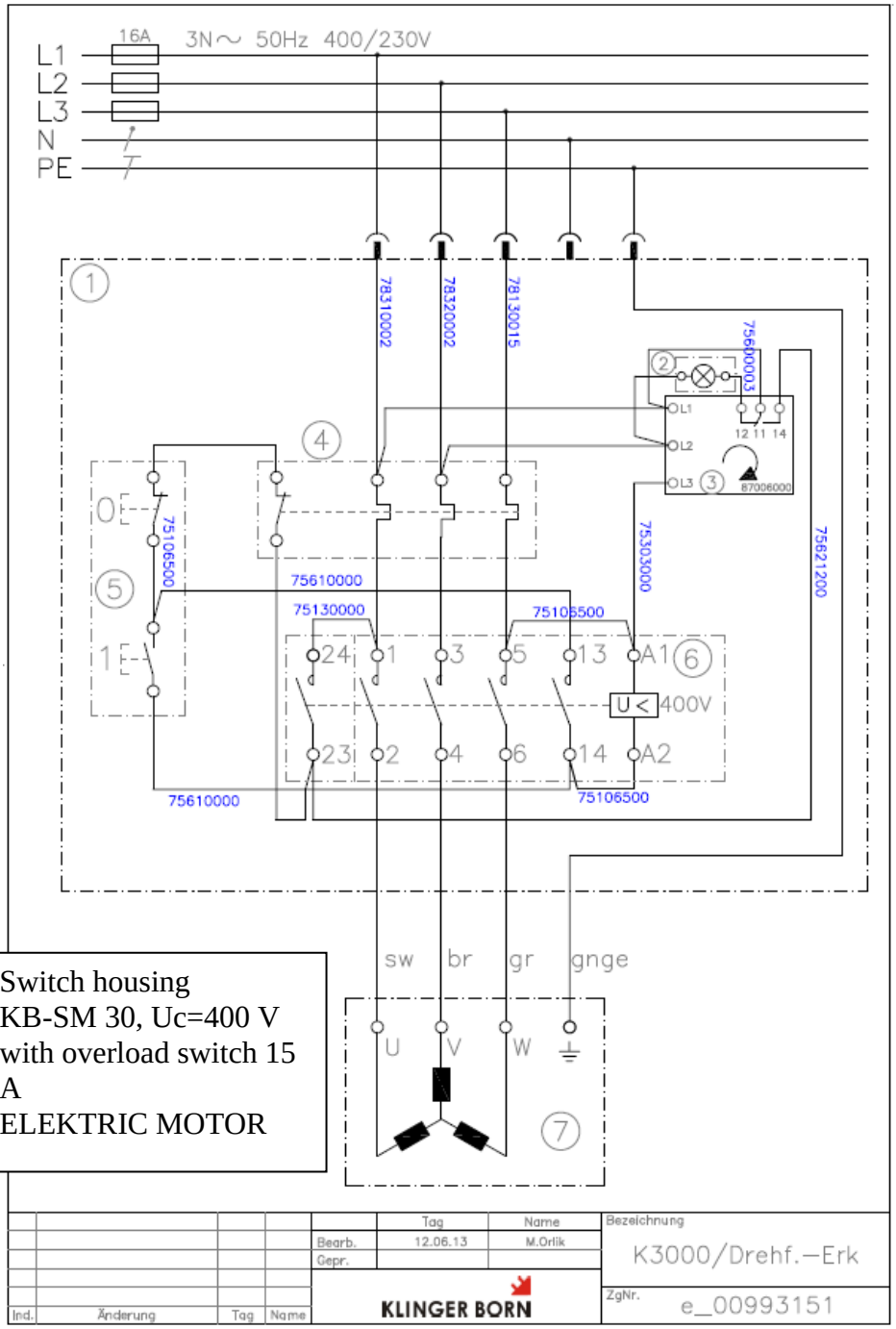
1. Housing switch
2. Overloadomg switch M 7,0 A
3. KB-04 UC: 230V
4. ELEKTRIC MOTOR

15.3 ELECTRIC MOTOR 400V/5.5 kW

Model: 112MB-4B5
Voltage: 400 V/1440 rpm.
Rated power: 5,5 kW
Rated current: 11,64 A

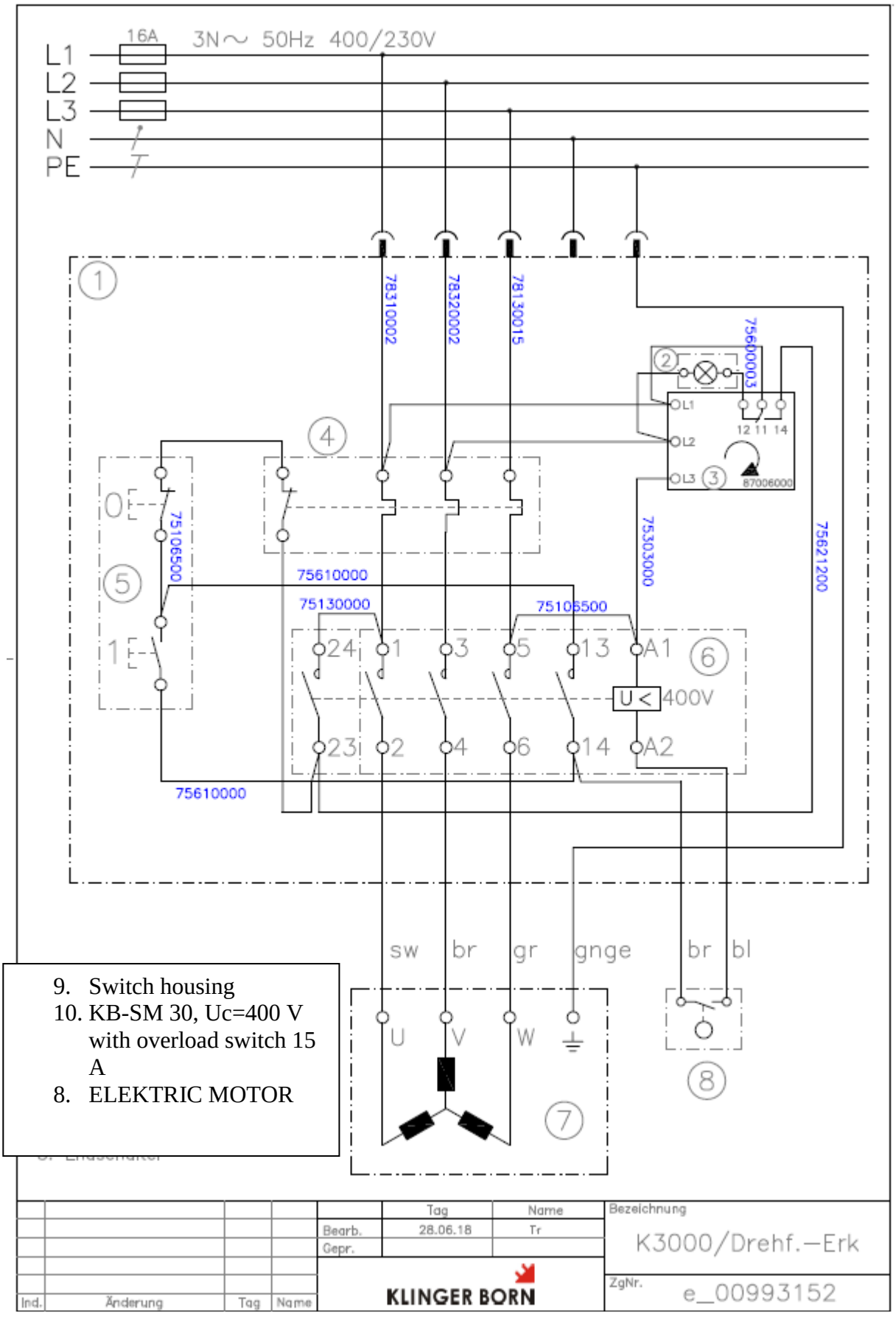


SWITCH KLIBO No.: 00982943.
Electric scheme:



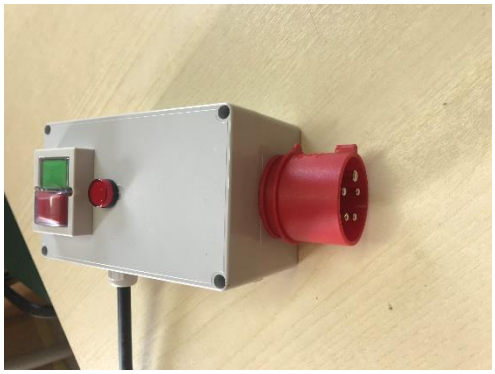
7. Switch housing
8. KB-SM 30, Uc=400 V with overload switch 15 A
7. ELEKTRIC MOTOR

Switch KLIBO No.: 00993152 Fff Fff

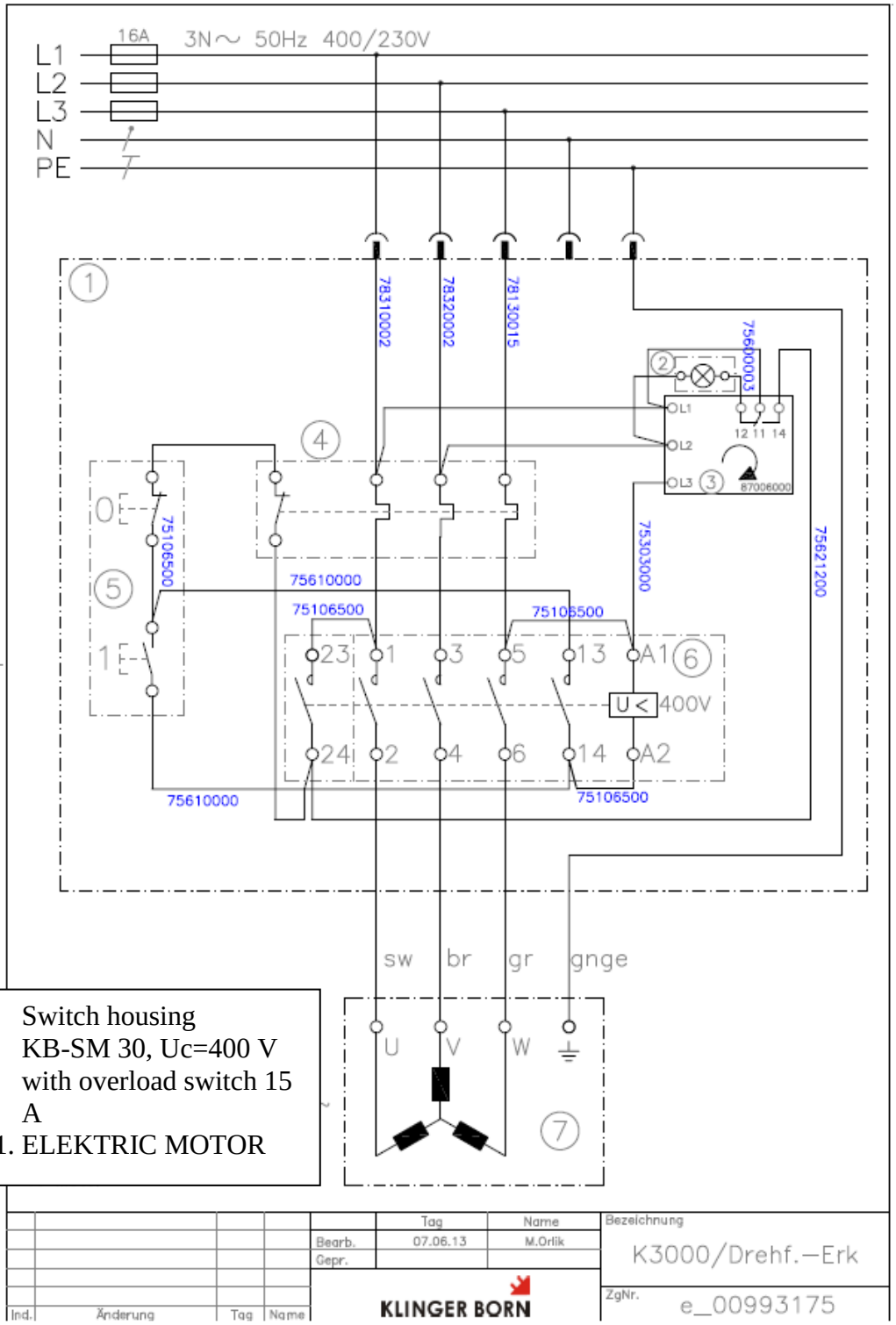


15.4 ELECTRIC MOTOR 400V/7.5 kW

Model: 112MC-4B5
Voltage: 400 V/1440 obr.
Rated power: 7,5 kW
Rated current: 15,52 A

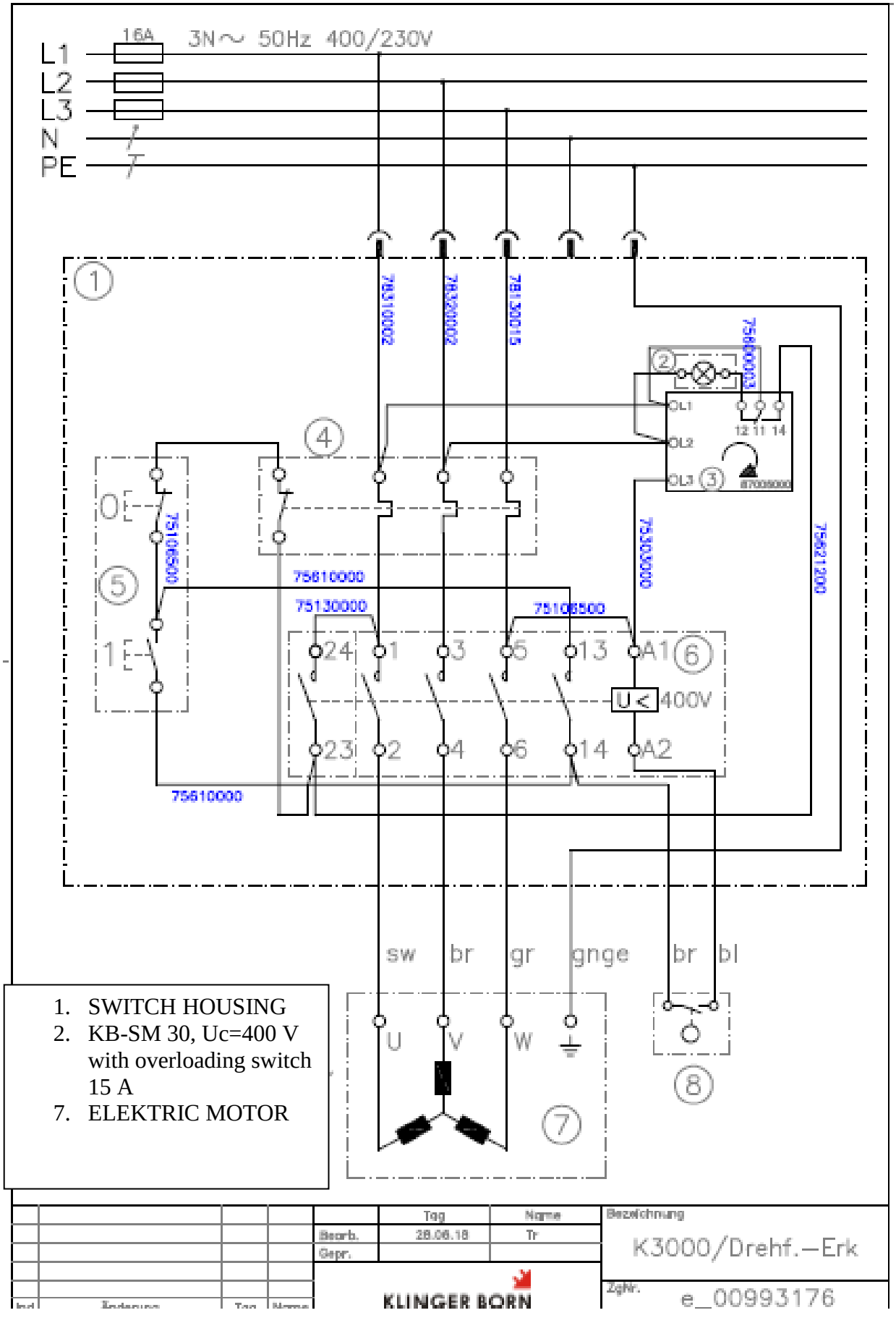


Switch KLIBO no.: 00993175.
Electric scheme:



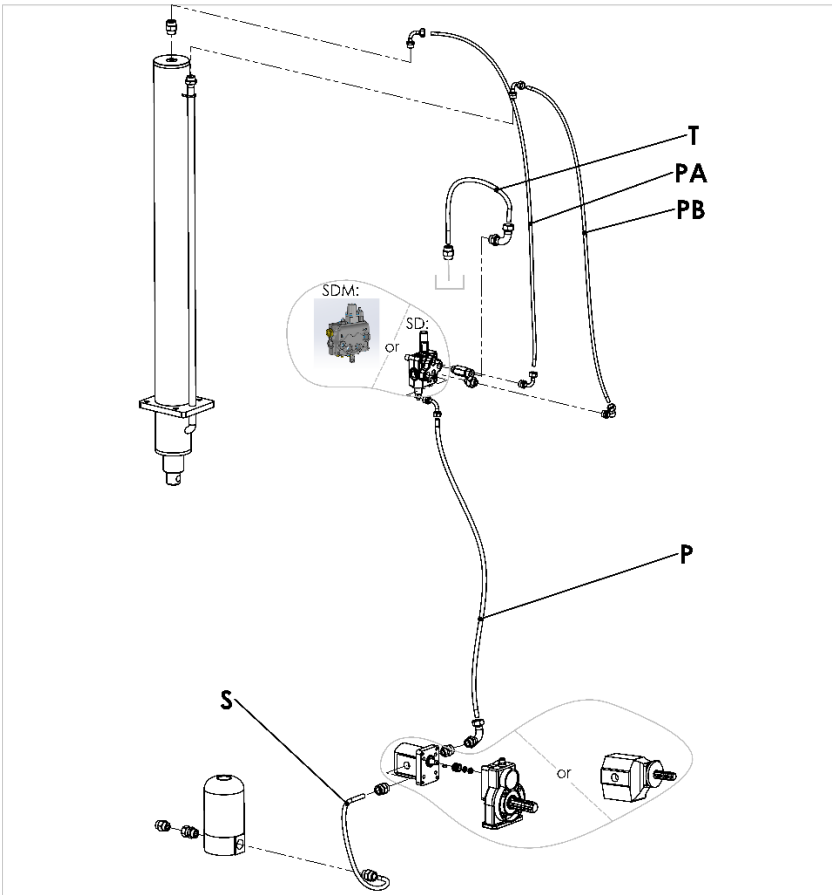
1. Switch housing
2. KB-SM 30, Uc=400 V with overload switch 15 A
11. ELEKTRIC MOTOR

KLIBO no.: 00993176 (control light + worng direction blockade).
Electric scheme:



16. HYDRAULIC CABLES AT WOODCUTTER

PTO DRIVE

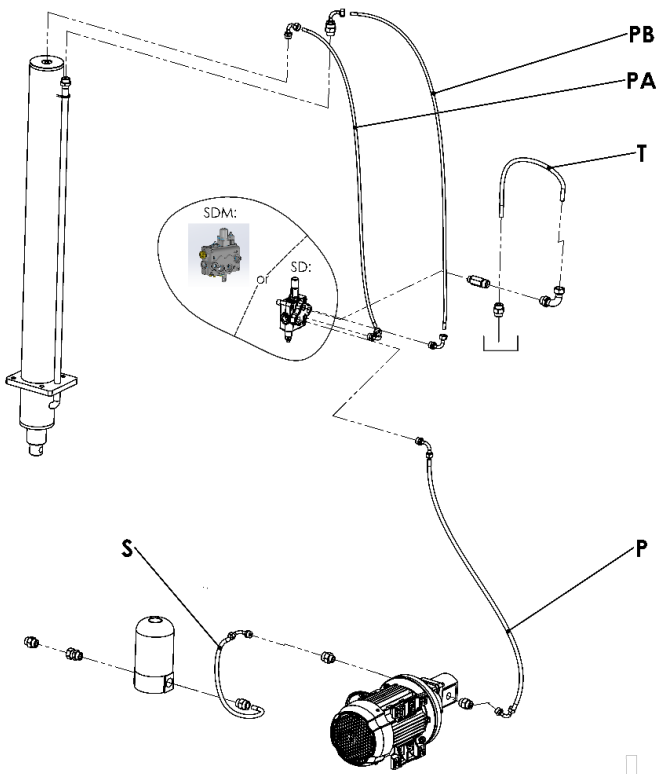


T - return hose V1
PA - pressure hose V2 + protection
PB - pressure hose V2 + protection
P - pressure hose V2 + protection
S - suction hose V1

WOOD SPLITTER IDENT/MODEL	**T** TUBE IDENT	**PA** TUBE IDENT	**PB** TUBE IDENT	**P** TUBE IDENT	**S** TUBE IDENT
15101/STX 11 C	7400	7693	6058	7399	7400
15096/STX 13 C	7400	7693	6058	7399	8857
15093/STX 13 C GP	7400	7693	7693	7399	8857
15089/STX 17 C	7400	7693	6058	7399	8857
15084/STX 17 C GP	7400	7693	7693	7399	8857
15080/STX 21 C	7400	7693	6058	7399	8857
15074/STX 21 C GP	7400	8273	8273	9907	8857
15069/STX 22 C GP	5881	8273	8273	9907	12439
15062/STX 26 C GP	5881	8273	8273	9907	12439

ident	***Description***
5881	H.TUBE V1 3/4" L1375 F/DR 3/4"+F90
6058	H.TUBE V2 1/2" L1350 1/2"+F/90 1/2"+F/90 +PROTECTION
7399	H.TUBE V2 1/2" L1200 1/2"+F/90+1/2"+F/90+ PROTECTION
7400	H.TUBE V1 3/4" L750 F/DR 3/4"+F90
7693	H.TUBE V2 1/2" L1420 F/90 1/2"+F90 275 BAR+ PROTECTION
8273	H.TUBE V2 3/4" L1470 3/4"+ F/90 + 3/4"+ F/90+ PROTECTION
8857	H.TUBE V1 1" L730 1"+ F/DR 1"+F/90
9907	H.TUBE V2 3/4" L1200 3/4"+F/DR + 3/4"+ F/90 + PROTECTION
12439	H.TUBE V1 1" L600 1"+ F/90 + 1"+ F/DR

ELECTRIC. DRIVE

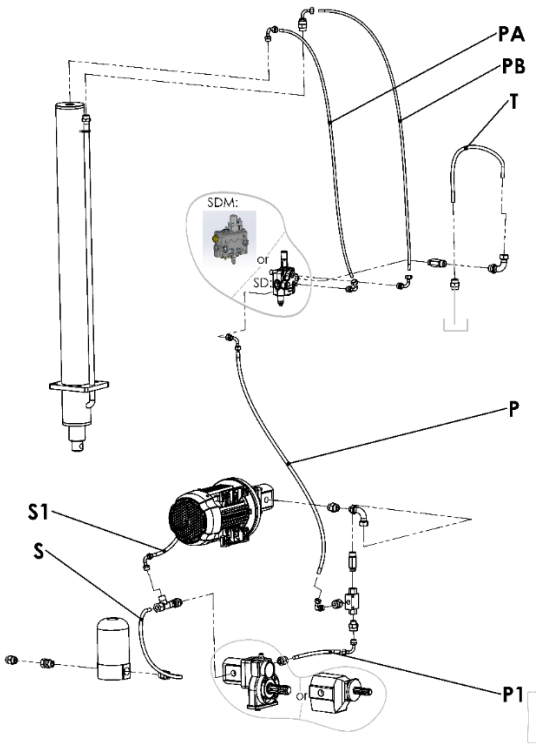


T - return hose V1
PA - pressure hose V2 + protection
PB - pressure hose V2 + protection
P - pressure hose V2 + protection
S - suction hose V1

WOOD SPLITTER IDENT/MODEL	**T** TUBE IDENT	**PA** TUBE IDENT	**PB** TUBE IDENT	**P** TUBE IDENT	**S** TUBE IDENT
15102/15103 STX 11 EL	7400	7693	8056	6524	5881
15097/STX 13 EL	7400	7693	8056	9618	9857
15099/STX 13 EL XTREMSPEED	7400	7693	8056	9618	9857
15091/STX 17 EL XTREMSPEED	7400	7693	8056	9618	9857
15082/STX 21 EL XTREMSPEED	7400	7693	8056	9618	9857
15075/STX 21 EL XTREMSPEED	7400	8273	8273	9618	9857
15070/STX 22 EL	5881	8273	8273	9618	9857
15072/STX 22 EL XTREMSPEED	5881	8273	8273	9618	9857
15065/STX 26 EL	5881	8273	8273	9618	9857
15066/STX 26 EL XTREMSPEED	5881	8273	8273	9618	9857

ident	***Description***
5881	H.TUBE V1 3/4" L1375 F/DR 3/4"+F90
6058	H.TUBE V2 1/2" L1350 1/2"+F/90 1/2"+F/90 + PROTECTION
6524	H.TUBE 2 1/2" L1000 1/2"+F/90 1/2"+F/DR + PROTECTION
7400	H.TUBE V1 3/4" L750 F/DR 3/4"+F90
7693	H.TUBE V2 1/2" L1420 F/90 1/2"+F90 275 BAR+ PROTECTION
8273	H.TUBE V2 3/4" L1470 3/4"+ F/90 + 3/4"+ F/90+ PROTECTION
9618	H.TUBE V2 3/4" L1000 3/4"+F/90 3/4"+F/DR + PROTECTION
9857	H.TUBE V1 1" L1370 1"+ F/DR 1"+F/90

COMBI DRIVE – PTO.+ ELECTRIC. DRIVE



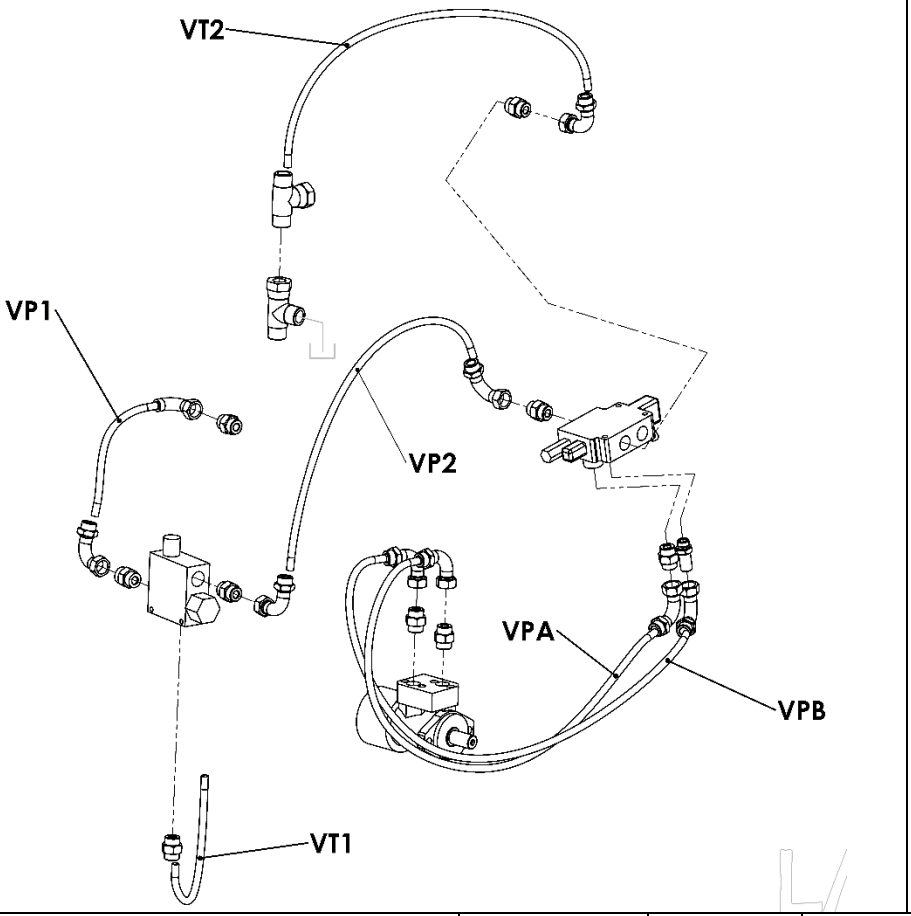
T - return hose V1
PA - pressure hose V2 + protection
PB - pressure hose V2 + protection
P - pressure hose V2 + protection
P1 - pressure hose V2 + protection
S - suction hose V1
S1 - suction hose V1

WOOD SPLITTER IDENT/MODEL	**T** TUBE IDENT	**PA** TUBE IDENT	**PB** TUBE IDENT	**P** TUBE IDENT	**P1** TUBE IDENT	**S** TUBE IDENT	**S1** TUBE IDENT
15104/STX 11 C+EL	7400	7693	6058	7399	6522	12572	7400
15098/STX 13 C+EL	7400	7693	6058	7399	6522	8857	7400
15100/STX 13 C+EL XTREMSPEED	7400	7693	6058	9907	9140	8857	8857
15095/STX 13 C GP+EL XTREMSPEED	7400	7693	7693	9907	9140	8857	8857
15092/STX 17 C+EL XTREMSPEED	7400	7693	6058	9907	9140	8857	8857
15086/STX 17 C GP+EL XTREMSPEED	7400	7693	7693	9907	9140	8857	8857
15083/STX 21 C+EL XTREMSPEED	7400	7693	6058	9907	9140	8857	8857
15076/STX 21 C GP+EL XTREMSPEED	7400	8273	8273	9907	9140	8857	8857
15071/STX 22 C GP+EL	5881	8273	8273	9907	9140	12439	12439
15073/STX 22 C GP + EL XTREMSPEED	5881	8273	8273	9907	9140	12439	12439
15063/STX 26 C GP+EL	5881	8273	8273	9907	9140	12439	12439
15064/STX 26 C GP+EL XTREMSPEED	5881	8273	8273	9907	9140	12439	12439

ident	*Description*
6058	H.TUBE V2 1/2" L1350 1/2"+F/90 1/2"+F/90 + PROTECTION
6522	H.TUBE V2 1/2" L330 1/2"+F/DR 1/2"+F/90 + PROTECTION
7399	H.TUBE V2 1/2" L1200 1/2"+F/90+1/2"+F/90 + PROTECTION
7400	H.TUBE V1 3/4" L750 F/DR 3/4"+F90
7693	H.TUBE V2 1/2" L1420 F/90 1/2"+F90 275 BAR+ PROTECTION
8273	H.TUBE V2 3/4" L1470 3/4"+ F/90 + 3/4"+ F/90+ PROTECTION
8857	H.TUBE V1 1" L730 1"+ F/DR 1"+F/90
9140	H.TUBE V2 3/4" L380 3/4"+F/90 3/4"+F/DR + PROTECTION
9907	H.TUBE V2 3/4" L1200 3/4"+F/DR + 3/4"+ F/90 + PROTECTION
12439	H.TUBE V1 1" L600 1"+ F/90 + 1"+ F/DR
12572	H.TUBE V1 3/4" L600 3/4"+F/DR 3/4"+F/90

17. HYDRAULIC CABLES IN WOODEN COLUMN CABLE WINCH

Hydraulic winch with mechanical lever

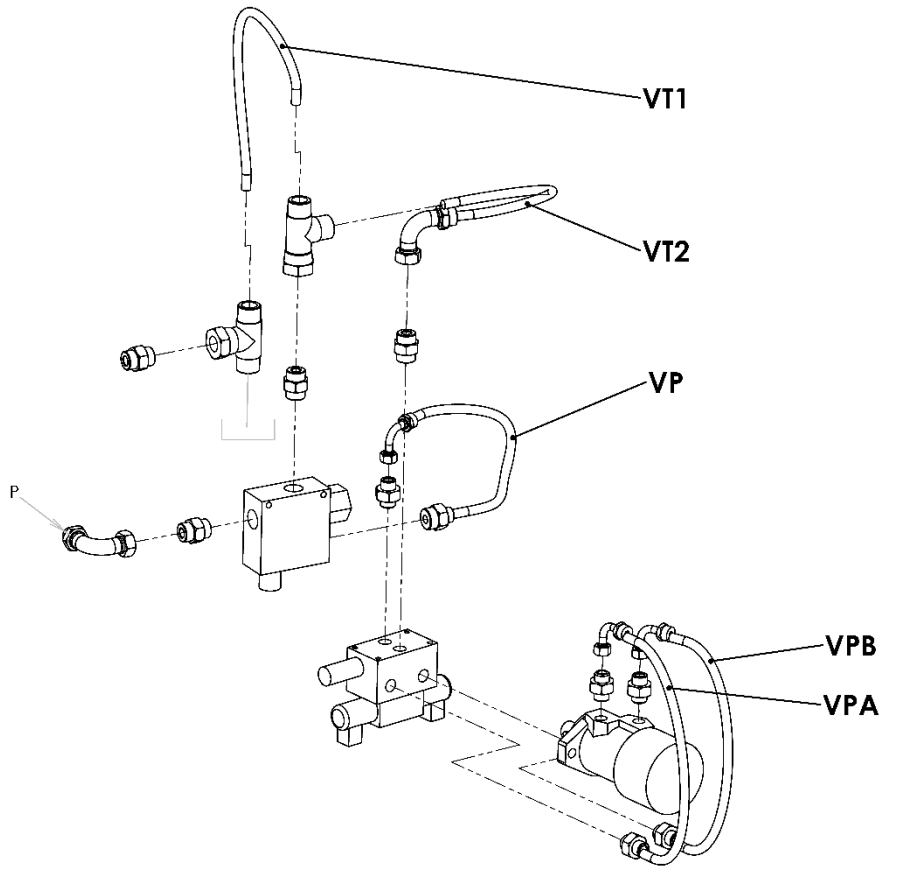


VT1 return hose V1
VT2 - return hose V1
VP1 - pressure hose V2 + protection
VP2 - pressure hose V2 + protection
VPA - pressure hose V2 + protection
VPB - pressure hose V2 + protection

MODEL	VP1	VP2	VT1	VT2	VPA	VPVB
15087/ WINCH STX 13/17	6522	6226	7949	6609	6058	6058
15078/ WINCH STX 21 C/C GP	6522/9140	6226/9618	7949	6609	6058	6058
15067/ WINCH STX 22/26	9140	9618	12572	6609	6058	6058

ident	*Description*
6058	H.TUBE V2 1/2" L1350 1/2"+F/90 1/2"+F/90 275 bar + PROTECTION
6226	H.TUBE V2 1/2" L1250 1/2"+F/DR 1/2"+F/90 275 BAR + PROTECTION
6522	H.TUBE V2 1/2" L330 1/2"+F/DR 1/2"+F/90 275 bar + PROTECTION
6609	H.TUBE V1 3/4" L700 3/4"+F/DR 3/4"+F/45 105 BAR – SUCTION TUBE
7949	H.TUBE V1 3/4" L600 3/4"+F/DR 3/4"+F/DR 105 BAR SUCTION TUBE
9140	H.TUBE V2 3/4" L380 3/4"+F/90 3/4"+F/DR 275 bar + PROTECTION
9618	H.TUBE V2 3/4" L1000 3/4"+F/90 3/4"+F/DR 275 bar + PROTECTION
12572	H.TUBE V1 3/4" L600 3/4"+F/DR 3/4"+F/90 105 BAR SUCTION TUBE

Hydraulic winch with remote control



VT1 - return hose V1
VT2 - return hose V1
VP - pressure hose V2 + protection
VPB - pressure hose V2 + protection
VPA - pressure hose V2 + protection
P - pressure line (iron elbow)

MODEL	VT1	VT2	VP	VPB	VPA	P
15088/ WINCH STX13/17	7949	9138	9692	6522	6522	
15077/ WINCH STX 21	7949	9138	9692	6522	6522	
15068/ WINCH STX 22/26	12572	9138	9692	6522	6522	

ident	*Description*
6522	H.TUBE V2 1/2" L330 1/2"+F/DR 1/2"+F/90 275 bar + PROTECTION
7949	H.TUBE V1 3/4" L600 3/4"+F/DR 3/4"+F/DR 105 bar SUCTION TUBE
9138	H.TUBE V1 3/4" L1000 3/4"+F/DR 3/4"+F/90 88 bar SUCTION TUBE
9692	H.TUBE V2 1/2" L650 1/2"+F/90 1/2"+F/DR 275 bar + PROTECTION
12572	H.TUBE V1 3/4" L600 3/4"+F/DR 3/4"+F/90 105 bar SUCTION TUBE

GARANCIJSKI LIST • JAMSTVENI LIST • GARANTNI LIST CERTIFICATE OF GUARANTEE • GARANTIESCHEIN • CERTIFICATO DI GARANZIA • ZÁRUČNÝ LIST • ZÁRUČNÍ LIST • JÓTÁLLÁSI JEGY • GARANTIE • CERTIFICADO DE GARANTÍA • CERTIFICATE OF WARRANTY • CERTIFICAT DE GARANTIE

NAZIV IZDELKA•PROIZVOD•PRODUCT•PRODUKT•PRODUIT• PRODUCTO • PRODUS

TIP/TYPE/TYP/TIPO/TIP:

SER.ŠT. • SER.NR. • SER.NO. • NÚMERO SERIAL • SERIA DE FABRICATIE:

- Ime, sedež in žig prodajalca:
- Naziv, sedište i pečat poduzeća:
- Reseller full name and address:
- Name, Sitz und Stempel des Unternehmens:
- Jméno, adresa razitko prodávajiciho:
- Meno, adresa a pečiatka predajcu:
- A terméket forgalmazó cég neve, székhelye és bélyégzoje:
- Concessionnaire nom, lieu et cachet:
- Nobre, dirección y sello de vendedor:
- Numele, adresa si stampila vanzatorului:

Datum izročitve blaga • Datum prodaje • Date of purchase • Verkaufsdatum • Data sprzedazy • Date predaja • Az eladás dátuma • Date de la vente • Fecha de la entrega • Data vanzarii

Podpis prodajalca • Potpis • Signature • Unterschrift • Potpis • Aterförsäljares namnteckning • Podpis prodejce • Aterförsäljares namnteckning • Signature du vendeur • Firma de vendedor • Semnatura vanzatorului

LANCNI

GOMARK
trgovina in proizvodnja d.o.o.

Čeplje 56, SI-3305 Vransko, Slovenija
Tel.: +386 (0) 3 700 15 03, info@gomark.si