PRONAR Sp. z o.o. 17-210 Narew, ul. Mickiewicza 101A; woj. podlaskie



 tel./fax:
 085 681 63 29
 085 681 64 29
 085 681 63 81

 085 681 63 82
 085 681 63 84
 085 681 63 84

 fax:
 085 681 63 83
 085 682 71 10

www.pronar.pl

SNOW-PLOUGHS

PUV-2600 PUV-2800

INSTRUCTIONS FOR USE AND SERVICING



1st Edition
Narew 2006

PRONAR

17-	210 NAREW, woj. po	dlaskie	
tel./fax:	085 681 63 29 085 681 63 82	085 681 64 29 085 681 63 84	085 681 63 81
fax:	085 681 63 83	085 682 71 10	

www.pronar.pl

SNOW-PLOUGHS

PUV-2600 PUV-2800

INSTRUCTIONS FOR USE AND SERVICING

Identification of the machine

Symbol /Type:

PUV-2600 PUV-2800

PRONAR Sp. z o.o.

ul. Mickiewicza 101A

Factory Number:

The factory No. is engraved on the data plate. The data plate is located on the frame of the snowplough to the left.

While purchasing the snow-plough it must be checked conformity of the factory numbers placed on the snow-plough along with the number written down in the guarantee certificate, in the sales documents and in the instruction for servicing.

Mark of quality control.....

The instruction is valid along with the annex no. of

The manufacturer reserves itself the right to introduce, in the manufactured machines, structural alterations facilitating servicing and improving quality of their operation.

If any of the parts of the plough needs replacement, it must be observed that these parts must be produced or recommended by the manufacturer of the plough. Using other parts of untested quality could be the cause of serious damage of the machine.

Comments and remarks on the structure and action of the machine please sent to the Manufacturer's address. This information will allow objective evaluation of the machine and will be helpful as guidelines in their further modernization.

Information on essential structural alterations are delivered to the user by means of informative supplements (annexes) attached to the instruction.

ATTENTION!

The instruction for use and service constitutes the Basic equipment of the machine

Before starting exploitation the user must get acquainted with contents of this instruction and observe all recommendations contained therein. It will guarantee failure-free operation of the machine.

The machine has been designed in accordance with binding standards, documents and currently binding legal provisions.

Table of content

1.	INTF	RODUCTION	7
	1.1	GENERAL INFORMATION	7
	1.2	APPROPRIATION OF THE PLOUGH	7
2.	SAF	ETY OF USE	8
	2.1	GENERAL REQUIREMENTS	8
	2.2	RULES FOR SAFETY OPERATION OF THE PLOUGH	8
	2.3	SAFETY RULES WHEN TRANSPORTING THE PLOUGH	9
	2.4	INFORMATION-WARNING LABELS	9
	2.5	MAINTENANCE	11
3.	ADD	DITIONAL INFORMATION	12
	3.1	EQUIPMENT OF THE PLOUGH	12
	3.2	WARRANTY TERMS	12
	3.3	WITHDRAWAL OF THE PLOUGH FROM USE	12
4.	INFO	DRMATION RELATING TO USE	13
	4.1	TECHNICAL SPECIFICATION	13
	4.2	THE PLOUGH STRUCTURE	14
5.	SER	VICING AND OPERATION	15
	5.1	accoupling the plough with the tractor	15
	5.2	HANGING THE PLOUGH UP THE TRACTOR (THREE-POINT HAN 15	G-UP SYSTEM)
	5.3	CONNECTING POWER SUPPLY AND HYDRAULIC FEEDING	16
	5.4	WORKING WITH THE PLOUGH	18
	5.5	CHANGING WORKING POSITIONS	18
	5.6	MOUNTING AND DISMANTLING OF PLOUGHSHARES	20
	5.7	HYDRAULIC SYSTEM	20
	5.8	LUBRICATION POINTS	20
	5.9	TRANSPORTATION	22
	5.10	PLOUGH LAYOVER	22





FIGURE 1. SNOW-PLOUGH PUV-2600/PUV-2800

1. INTRODUCTION

1.1 GENERAL INFORMATION

This instruction purpose is to familiarize the owner-user with proper and safe operation, servicing as well as maintenance of the plough.

If information contained in the instruction appears not fully comprehensible it should be turned for help to the sales point in which the tractor has been purchased or to the manufacturer.

Particularly important information and recommendations the observance of which is utterly necessary are distinguished in the text through underlining or preceded with the word "ATTENTION".

Information, description of threats and precautions as well as recommendations and orders connected with safety of use, in contents of the instruction, are distinguished with the sign:



as well as mentioned in the chapter "Safety of use".

The clock sigh is used in order to pay attention for the necessity of carrying out time-service.



1.2 APPROPRIATION OF THE PLOUGH

It was designed for clearing snow from roads, squares, car parks as well as all other hard roads and pavements. The working elements of the plough are hydraulic-controlled poughshares (right and left), which appropriate arrangement gives four working positions. The plough is equipped with elastic (rigid as an option) skimming bar, which deflective spring clamping makes, that the plough is shock-resistsnt when hitting against protruding elements of the ground. PRONAR does not bear any responsibility for using the plough inappropriately (e.g. levelling, transport of goods, etc.) nor damages resulting thereof and in that case all warranty claims become invalid

Snow-ploughs PUV-2600 and PUV-2800 can be mounted on the farm tractors and other low-speed vehicles equipped with:

- Three-point hang-up system (THREE-POINT HANG-UP SYSTEM cat. II ISO 730),
- Front loader ŁC-1650,
- Loaders with EURO-SMS fastening system.

There are numerous kinds of snow-ploughs PUV-2600 and PUV-2800:

- Standard version: steel ploughshares + slide blocks.
- Rubber ploughshares + slide blocks.
- Steel ploughshares + traveling wheels.
- Rubber ploughshares + traveling wheels.

- Steel ploughshares + slide blocks + hydraulic shock absorption.
- Rubber ploughshares + slide blocks + hydraulic shock absorption.
- Steel ploughshares + wheels + hydraulic shock absorption.
- Rubber ploughshares + wheels + hydraulic shock absorption.

2. SAFETY OF USE

2.1 GENERAL REQUIREMENTS

Before starting exploitation of the plough, get acquainted thoroughly with the contents of this instruction, because its shallow knowledge could casue situation of life hazard of the operator and equipment failure.

Careful and consistent following the rules and requirements of safety of use as well as observance of the principles of road traffic ptotects the operator and other users of roads againts all sort of threats. It also provides optimum usage of the plough, protecting it against failure, damage or destruction.

2.2 RULES FOR SAFETY OPERATION OF THE PLOUGH

- Before starting exploitation perform visual inspection of the machine, examining in particular:
 - a) condition of screw joints (fasteners) of basic sub-assemblies of the machine.
 - b) correctness of accouplement of the machine with the tractor.
- Use only original pins and original safety devices for accoupling the plough and the tractor.
- Adjust the tools hang-up in a way making the plough hung in a transport position be inflexibly connected with the tractor. **Backlash in hang-up system is unacceptable.**
- Do not mount any parts neither sub-assemblies, that change or modify the plough, without carrying out agreement and consultation procedure with the manufacturer.
- Do not connect the plough with the tractor of lower carrying power in relation to threepoint hang-up system. It could cause damage or serious failure of the tractor.
- Do not connect the plough to the tractor of power higher than recommended.
- In the face of long-lasting standstill, lower the plough in rest position.
- Do not take any action when plough is hoisted up and unsecured.
- Do not take any action relating to washing, adjusting or operating of the plough when the engine of the tractor is running.
- Damaged hoses and pipes of the hydraulic system ought to be repalced immediatelly into original spare parts.
- It is forbidden to use the plough inconsistently with its appropriation.
- It is forbiden to take advantage of the plough when being unauthorised or squiffied.
- Take maintenance and repair action according to the safety of use principles.

2.3 SAFETY RULES WHEN TRANSPORTING THE PLOUGH

When driving on public roads respect the road traffic regulation without fail.

Do not abandon the tractor with the plough on downhills and gear the parking brake in the tractor (when the engine is running it is possible to immobilize the tractor by gearing the first gear).

2.4 INFORMATION-WARNING LABELS

Description and meaning of the information-warning labels was visualized in table 1, and the place of its location was visualised in the picture 2.

Table 1.	Information-warning labels.	
No. in the picture 2	The symbol (sign) of safety or contents of the inscription	Meaning of the symbol (sign)
1	PUV 2600	Type label.
2	PUV 2800	Type label.
3		ATTENTION! Before starting exploitation of the plough, get acquainted thoroughly with the contents of this instruction.
4		ATTENTION! If the engine is running keep safe distance form the machine. Foot or leg injury hazard !
5		ATTENTION! Do not grasp into crash area in case there are moving elements – fingers or hands injury hazard !

No. in the picture 2	The symbol (sign) of safety or contents of the inscription	Meaning of the symbol (sign)
6		WARNING AGAINST BEING CRUSHED! In so marked zones, presence of third parties when operating the machine is forbiden. If in those zones it is necessary to carry out any operation, it is essential to make sure that the tractor is immobilized and that the tool is powered off.
7		Left contour label
8		Right contour label



FIGURE 2. PLACEMEN

PLACEMENT OF LABELS ON THE PLOUGH

2.5 MAINTENANCE

When carrying out maintenance-repair procedures, it is essential to pay attention that:

- Repair, maintenance and cleaning actions should be taken with engine powered off and ignition key taken out.
- When operating the machine it is essential to wear appropriate protective clothing and tools.
- During post-warrantee period, any warrantee action is to be taken by authorised warrantee service only.
- In case of necessity of having particular part of the machine replaced, it is allowed to use only original parts or parts advided by the manufacturer. Noncompliance with these requirements could create health or life hazard in relation to third parties or in relation to the operator of the plough, and could cause machine failure.

Before every disconnecting action of the plough from hydraulic supply, it is necessary to reduce the partial pressure in hydraulic system.



After work-stoppage period lasting more than 4 weeks, it is necessary to subject the plough to allembracing test.

Technical condition of the plough ought to be checked every time:

- before starting up
- in determined time intervals
- after repairing and shutting it down

In-service time of pneumatic pipes should not exceed 6 years.

When inspecting the plough it is essential to:

- check all screws and tight them if need be
- check the tightness of the hydraulic system
- check the correctness of tightness of all securing elements
- check the condition of slide blocks and securing pawls performance
- check the functioning of contour lighting
- clean the ploughshares and lubrication points
- lubricate all adequate places

Lubrication points of the plough are defined in paragraph 5.8.

3. ADDITIONAL INFORMATION

3.1 EQUIPMENT OF THE PLOUGH

The equipment of the plough includes:

- instruction of use and servicing
- warantee card

3.2 WARRANTY TERMS

"PRONAR" Sp. z o.o. in Narew hereby warrants failure-free operation of the machine, when using in compliance with technical-operational terms described in the following instruction.

Troubles revealed during warantee period are to be removed by the Warrantee service within 14 working days from the day of taking the machine for repair by the warrantee service, unless otherwise agreed.

The warranty does not hold parts neither sub-assemblies of machines, that undergo wear and tear before expiring the warranty period, e.g.: exploitatively worn rubber and steel ploughshares, mechanical damages, damages resulting form improper usage, adjustment and maintenence.

Detailed warranty terms are included in warranty card attached to each newly purchased plough.



You must request from the seller to fill in the guarantee card and claim coupons. Lack of e.g. date of sale or the seal of the selling point expose the user to non-recognition of possible claims.

3.3 WITHDRAWAL OF THE PLOUGH FROM USE

In case of taking decision by the user on withdrawal of the machine from use, the whole tractor must be delivered to the scrap depot designated by the Starost. Dismounted parts remained after repair must be delivered to a purchasing centre of secondary materials.

4. INFORMATION RELATING TO USE

4.1 TECHNICAL SPECIFICATION

Table 2.Basic technical data

Plough type	PUV-2600	PUV-2800
Type of fixing	Three-point hang-up system II Kat. ISO ***	Three-point hang-up system II Kat. ISO ***
Number of working positions	2 steady Possibility to set intermediary positions	2 steady Possibility to set intermediary positions
Working width of particular positions (Fig. 7):		
A B C D	2360/2320 mm* 2360/2320 mm* 2360/2320 mm* 2360/2320 mm*	2550/2490 mm* 2550/2490 mm* 2550/2490 mm* 2550/2490 mm*
Ploughshares	Displaceable, metal or rubber	Displaceable, metal or rubber
Ploughshare working height	820/850* mm	820/850* mm
Control	Electrohydraulic Electrohydraulic with shock absorption**	Electrohydraulic Electrohydraulic with shock absorption**
Weight	575/590*	605/620*
Power demand	Min. 80 KM up to 150 KM	Min. 80 KM up to 150 KM

*- rubber ploughshare option **- hydraulic system with shock absorption option ***- suspension system on the front loader ŁC-1650 or other equipped with EURO-SMS fastening system.

Data plate:

Data plate is located on the left wing of the plough (Fig. 3).



FIGURE 3.

LOCATION OF THE DATA PLATE ON THE PLOUGH

4.2 THE PLOUGH STRUCTURE

The plough structure is shown in the (Fig. 4).

The plough consists in the frame (1), hang-up system (7), with use of which the plough is suspended to the tractor. Other main elements are left (2) and right (3) wing, that are fixed on th main bolt (11) of the plough. Thanks to this, wings of the plough can be arranged at different angle one to another. The working angle of wings is adjustable by means of two hydraulic servomotors (8 and 9), controlled by electro-valve. The hydraulic system of the plough is fed by oil supplied from the tractor. When working, the plough rests upon the ground on two skimming ploughshares (5 and 6), which, in the face of some obstacle, lean out thanks to absorbing springs (10). During down-time the plough rests upon feet equipped with slide blocks (4) and upon ploughshares.



FIGURE 4.

THE STRUCTURE OF THE PLOUGH

1-FRAME, 2-LEFT WING, 3-RIGHT WING, 4-FOOT, 5-LEFT PLOUGHSHARE, 6-RIGHT PLOUGHSHARE, 7-THREE-POINT HANG-UP SYSTEM, 8-LEFT HYDRAULIC CYLINDER, 9-RIGHT HYDRAULIC CYLINDER, 10-SPRING, 11-MAIN BOLT, 12-RUBBER COVER.

The snow-plough can be optionally equipped with:

- Traveling wheels with position slide blocks (4).
- Other suspension systems instead of position (7),e.g. for front loader ŁC-1650 or front loader equipped with EURO-SMS fastening system.

5. SERVICING AND OPERATION

Before starting exploitation of the tractor, the user must get acquainted thoroughly with the contents of this instruction. It is essential to pay special respect to proper use.

5.1 ACCOUPLING THE PLOUGH WITH THE TRACTOR

In order to accuple the plough with th tractor it is recommended to pay respect to following issues:

- the tractor should be equipped with front three-point hang-up system of 2nd class for tools, front loader PRONAR ŁC-1650 or other front loaders with EURO-SMS fastening.
- exploitation of the plough requires to employ hydraulic circuit with reverse circulation with leading out one pair of quick-connectors to the front
- the tractor should be equipped with 12 V lighter seat.
- the tractor power ought to range from 80 to 150 KM.

5.2 HANGING THE PLOUGH UP THE TRACTOR (THREE-POINT HANG-UP SYSTEM)

When hanging the plough on the tractor, one ought to take following actions:

- drive the tractor up to the plough close enough to the plough
- put the lower link of the three-point hang-up system for tools on the plough fronts (see Fig. 5) and secure it with spring cotter pin;
- accuple the upper link of the tractor with use of pin with upper contact point of the plough (see Fig. 5) and secure it with spring cotter pin;
- after having the upper link and central link fastened, one must adjust the chain tension, that limit the movement from one side to another, with use of adjusting bolts (it refers to deflective three-point hang-up systems).
- after having the plough hung up, it is necessary to check tightness of all screws and securing elements.



ATTENTION!

One should observe the recommendations regarding fixing points (see Fig.5).



ATTENTION!

In order to obtain optimal operation of the plough, one must position the plough body levelly by adjusting the position of central link of the tractor (the axis of main bolt of wings should be perpendicular to the ground level, skimming ploughshares ought to be peaked against the ground).



5.3 CONNECTING POWER SUPPLY AND HYDRAULIC FEEDING

Hydraulic piping of the plough must be connected with external hydraulic system of the tractor with use of pair of quick-couplers (4) (Fig. 6). When establishing hydraulic connections with the tractor make sure to lay them straight, avoid the piping being bent or twisted, and secure them against being damaged.

Additionally, connect the power supply of the electro-valve. In order to do so, connect the power bundle to the lighter seat, located in the cabin of the tractor operator.

Connection procedure of the power supply and hydraulic feeding is shown in the (Fig. 6).

After having the plough hung up and connected, it is necessary to check tightness of all screws and securing elements.



FIGURE 6. CONNECTING POWER SUPPLY AND HYDRAULIC FEEDING 1-HYDRAULIC SERVOMOTOR, 2-ELECTRO-VALVE, 3-HYDRAULIC PIPING,4-QUICK COUPLERS, 5-CAR POWER PLUG (A SERIES A-400), 6-COVER WITH CLAMPING AND ON-OFF SWITCH, SINGLE-SECTION, 7-ELECTRIC BUNDLE.

5.4 WORKING WITH THE PLOUGH

After makin sure, that all securing elements and all hydraulic and electric connections are properly set, it is allowable to set about working with the plough.

The working speed of the plough depends on the kind and amount of skimmed material and type of the surface. The weight of the tractor must not load the plough, because it could cause its damage.

Working with ploughs PUV-2600/2800 hung up the front loaders of the farm tractors, with maximum placement of ploughshares (snow-removal to the right or to the left, position B or D in the Fig. 7), is not recommended in the face of hard weather condition, ie.:

- uneven ground,
- unknown uneveness and obstacles,
- compact or frozen snow or ice,
- snow layer thicker that 30 cm.

It is not recommended to remove snow with farm tractors equipped with front loaders, at speed higher that 6 km/h.

It is not recommended to work in aforemantioned hard conditions at working speed higher than 6 km/h.

For removing snow at working speed higher than 25 km/h, it is recommended to use hydraulic system equipped with shock absorbing system (Spare parts list, Fig. 12).

5.5 CHANGING WORKING POSITIONS

The plough provides four working positions. In order to change the wing-angle setting, use one lever of the divider in the tractor and switch located in the tractor.



*- opcja lemiesz gumowy

FIGURE 7. LOCATION OF THE PLOUGH WINGS

When setting the switch into **off position** (off) one can control one wing of the plough, wherat setting the switch into **on position** (on), one can control the other wing of the plough.



FIGURE 8. CHANGE OF GRADIENT OF SKIMMIMG PLOUGHSHARES 1-SPRING, 2-ADJUSTING NUT, 3-PLOUGHSHARE

5.6 MOUNTING AND DISMANTLING OF PLOUGHSHARES

Before setting about changing the ploughshare, raise the plough and rest it upon feet or supporting wheels. Immobilize the tractor (switch the engine off and pull the parking brake). Now you can set about changing skimming ploughshares. In order to dismount ploughshares, unscrew nuts (9), take the bolts out of the openings and take the ploughshare off. In order to mount ploughshares, take aforementioned actions in reverse order.



- when taking any action in relation to the machine, it is necessary to mind its stability. -ploughshares (both rubber and steel) can be shifted after having one side worn (left into right and vice versa).

5.7 HYDRAULIC SYSTEM

When disconnecting the plough from hydraulic-feed, one must reduce partial pressure in the hydraulic system.



Inspection schedule:

Control the oil level in the hydraulic system – before each start-up of the machine. Change hydraulic oil – once a year.

5.8 LUBRICATION POINTS

Lubrication procedure of the plough must be executed in places marked in the (Fig. 10) nad described in the Table 3.



FIGURE 10.

LUBRICATION POINTS OF THE PLOUGH

Table 5. Lubrication points of the plough	Table 3	3. ∟	ubrication	points	of the	plough
--	---------	-------------	------------	--------	--------	--------

No. in the Fig. 10	Place of lubrication	Number of lubrication points	Lubricant type
1	Piston rod eye	2	SOLID
2	Cylinder eye	2	SOLID
3	Main bolt of the plough	4	SOLID
4	Screw of the support	2	SOLID
5	Wheel of the support	2	SOLID



Lubrication procedure must be carried out at least two times in one season. It is recommended to use ŁT-42, ŁT-43 lubricant.

5.9 TRANSPORTATION

- For transportation purposes, the plough hun up on the tractor must be raised.
- When driving on public roads, one must observe road traffic rules.



ATTENTION!

When transporting the plough, set the ploughshares in A position (Fig.11).

5.10 PLOUGH LAYOVER



ATTENTION!

Before disconnecting the plough from the tractor, set the plough in A position (Fig. 11). During downtime, the plough must rest upon feet equipped with slide blocks or upon wheels and ploughshares.





SNOW-PLOUGHS

PUV-2600/PUV-2800

SPARE PARTS LIST

FIGURE 1. PLOUGH.



Plough 1,2	QUANTITY
ITEM PART NAME NUMBER OF FIGUR (STANDARD)	RE PUV- PUV- 2600 2800
1 LEFT PLOUGHSHARE SHELF 131RPN-01.00.00L	. 1 -
2 LEFT PLOUGHSHARE SHELF 126RPN-01.00.00L	- 1
3 RIGHT PLOUGHSHARE SHELF 131RPN-01.00.00.00P	P 1
4 RIGHT PLOUGHSHARE SHELF 126RPN-01.00.00.00P	° - 1
5 LEFT WING 131RPN-02.00.00L	. 1
6 LEFT WING 126RPN-02.00.00L	1
7 RIGHT WING 131RPN-02.00.00P	° 1 -
8 RIGHT WING 126RPN-02.00.00P	° - 1
9 FRAME SET 126RPN-03.00.00	1 1
10THREE-POINT HANG-UP SYSTEM126RPN-04.00.00.00	1 1
11 PLATE-TYPE HANG-UP SYSTEM *126RPN-17.00.00.00	1 1
12EURO-SMS-TYPE HANG-UP SYSTEM *126RPN-18.00.00.00	1 1
13 ŁC-1650-TYPE HANG-UP SYSTEM * 126RPN-19.00.00.00	1 1
14 FOOT 126RPN-05.00.00.00	2 2
15 SPRING GUIDE 126RPN-06.00.00.00	4 4
16 SPRING LEAD LOCK 126RPN-07.00.00.00	4 4
17 GUIDE SET 126RPN-08.00.00.00	2 2
18 PIN SET 126RPN-11.00.00.00	2 2
19 RUBBER PLOUGHSHARES 131RPN-12.00.00.00	1 -
20RUBBER PLOUGHSHARES126RPN-12.00.00.00	- 1
21 PLOUGHSHARE 131RPN-00.00.03	2 -
22 PLOUGHSHARE 126RPN-00.00.03	- 2
23 MAIN BOLT 126RPN-13.00.00.00	1 1
24 SUPPORTING WHEEL 79RPN-16.00.00.00-02	2 1 1
25 FASTENER 126RPN-00.00.00.04	1 1
26 RUBBER COVER 126RPN-00.00.05	1 1
27 SHELF BOLT 126RPN-00.00.00.06	8 8
28 TIGHTENING STRIP 126RPN-00.00.00.07	2 2
29 SERVOMOTOR BOLT 126RPN-00.00.00.08	2 2
30 SECURING PLATE 126RPN-00.00.09	2 2
31 SPRING 126RPN-00.00.00.01	4 4
32 BOLT M5x25-5,6-Fe/Zn5 PN-EN ISO 4017	6 6
33 BOLT M6x20-8.8-Fe/Zn5 PN-EN ISO 4017	4 4
34 BOLT M12x35-8,8-Fe/Zn5 PN-EN ISO 4017	12 12
35 TIGHTENING SCREW M12x16-45H-Fe/Zn5 PN/M-82315	2 2
36 BOLT WITH FILLING Z M16x40-8,8-Fe/Zn5 PN/M-82406	10 10
37 WASHER 5-200HV-Fe/Zn8 PN-EN ISO 7093	6 6
38 SPRING WASHER Z12,2-Fe/Zn8 PN/M-82008	12 12
39 SPRING WASHER Z6,1-Fe/Zn5 PN/M-82008	2 2
40 SELF-SECURING NUT M5-5-Fe/Zn5 PN-EN ISO 7040	6 6
41 NUT M12-8-Fe/Zn5 PN-EN ISO 4032	12 12
42 SELF-SECURING NUT M16-8-Fe/Zn5 PN-EN ISO 7040	10 10
43 SELF-SECURING NUT M24-8-Fe/Zn5 PN-EN ISO 7040	4 4
44 LOW NUT M24-Fe/Zn5 PN-EN ISO 8752	8 8
45 SPRING-TYPE STRAIGHT PIN 8x50-St PN-EN ISO 8752	2 2
46 LUBRICATING NOZZLE M8x1 PN/M-86002	4 4
47 COTTER PIN 6,3x50-St-Fe/Zn8 PN-EN ISO 1234	8 8

*-OPTION ON SPECIAL REQUEST OF THE CLIENT.

FIGURE 2. PLOUGH.



Name of assembly		Numbers of Figures		
	Plough	1,2	QUAI	ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800
1	LEFT PLOUGHSHARE SHELF	131RPN-01.00.00.00L	1	-
2	LEFT PLOUGHSHARE SHELF	126RPN-01.00.00.00L	-	1
3	RIGHT PLOUGHSHARE SHELF	131RPN-01.00.00.00P	1	
4	RIGHT PLOUGHSHARE SHELF	126RPN-01.00.00.00P	-	1
5	LEFT WING	131RPN-02.00.00.00L	1	
6	LEFT WING	126RPN-02.00.00.00L	-	1
7	RIGHT WING	131RPN-02.00.00.00P	1	-
8	RIGHT WING	126RPN-02.00.00.00P	-	1
9	FRAME SET	126RPN-03.00.00.00	1	1
10	THREE-POINT HANG-UP SYSTEM	126RPN-04.00.00.00	1	1
11	PLATE-TYPE HANG-UP SYSTEM *	126RPN-17.00.00.00	1	1
12	EURO-SMS-TYPE HANG-UP SYSTEM *	126RPN-18.00.00.00	1	1
13	LC-1650-TYPE HANG-UP SYSTEM *	126RPN-19.00.00.00	1	1
14	FOOT	126RPN-05.00.00.00	2	2
15	SPRING GUIDE	126RPN-06.00.00.00	4	4
16	SPRING LEAD LOCK	126RPN-07.00.00.00	4	4
17	GUIDE SET	126RPN-08.00.00.00	2	2
18	PIN SET	126RPN-11.00.00.00	2	2
19	RUBBER PLOUGHSHARES	131RPN-12.00.00.00	1	-
20	RUBBER PLOUGHSHARES	126RPN-12.00.00.00	-	1
21	PLOUGHSHARE	131RPN-00.00.00.03	2	-
22	PLOUGHSHARE	126RPN-00.00.00.03	-	2
23	MAIN BOLT	126RPN-13.00.00.00	1	1
24	SUPPORTING WHEEL	79RPN-16.00.00.00-02	1	1
25	FASTENER	126RPN-00.00.00.04	1	1
26	RUBBER COVER	126RPN-00.00.00.05	1	1
27	SHELF BOLT	126RPN-00.00.00.06	8	8
28	TIGHTENING STRIP	126RPN-00.00.00.07	2	2
29	SERVOMOTOR BOLT	126RPN-00.00.00.08	2	2
30	SECURING PLATE	126RPN-00.00.00.09	2	2
31	SPRING	126RPN-00.00.00.01	4	4
32	BOLT M5x25-5,6-Fe/Zn5	PN-EN ISO 4017	6	6
33	BOLT M6x20-8.8-Fe/Zn5	PN-EN ISO 4017	4	4
34	BOLT M12x35-8,8-Fe/Zn5	PN-EN ISO 4017	12	12
35	TIGHTENING SCREW M12x16-45H-Fe/Zn5	PN/M-82315	2	2
36	BOLT WITH FILLING Z M16x40-8,8-Fe/Zn5	PN/M-82406	10	10
37	WASHER 5-200HV-Fe/Zn8	PN-EN ISO 7093	6	6
38	SPRING WASHER Z12,2-Fe/Zn8	PN/M-82008	12	12
39	SPRING WASHER Z6,1-Fe/Zn5	PN/M-82008	2	2
40	SELF-SECURING NUT M5-5-Fe/Zn5	PN-EN ISO 7040	6	6
41	NUT M12-8-Fe/Zn5	PN-EN ISO 4032	12	12
42	SELF-SECURING NUT M16-8-Fe/Zn5	PN-EN ISO 7040	10	10
43	SELF-SECURING NUT M24-8-Fe/Zn5	PN-EN ISO 7040	4	4
44	LOW NUT M24-Fe/Zn5	PN-EN ISO 8752	8	8
45	SPRING-TYPE STRAIGHT PIN 8x50-St	PN-EN ISO 8752	2	2
46	LUBRICATING NOZZLE M8x1	PN/M-86002	4	4
47	COTTER PIN 6,3x50-St-Fe/Zn8	PN-EN ISO 1234	8	8

*- OPTION ON SPECIAL REQUEST OF THE CLIENT.



Name of	fassembly	Numbers of Figures		
Hang-up systems		3 QUA		ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
1	THREE-POINT HANG-UP SYSTEM	126RPN-04.00.00.00	1	1
2	PLATE-TYPE HANG-UP SYSTEM *	126RPN-17.00.00.00	1	1
3	EURO-SMS-TYPE HANG-UP SYSTEM *	126RPN-18.00.00.00	1	1
4	LC-1650-TYPE HANG-UP SYSTEM *	126RPN-19.00.00.00	1	1
1 2 3 4	THREE-POINT HANG-UP SYSTEM PLATE-TYPE HANG-UP SYSTEM * EURO-SMS-TYPE HANG-UP SYSTEM * ŁC-1650-TYPE HANG-UP SYSTEM *	126RPN-04.00.00.00 126RPN-17.00.00.00 126RPN-18.00.00.00 126RPN-19.00.00.00	1 1 1 1	1 1 1 1

*- OPTION ON SPECIAL REQUEST OF THE CLIENT.



Name of assembly		Numbers of Figures		
Frame Set		4	QUANTITY	
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P

	FRAME SET	126RPN-03.00.00.00		
1	FRAME	126RPN-03.01.00.00	1	1
2	DISTANCE INSERT	126RPN-03.00.00.01	2	2
3	HOLDING PLATE	126RPN-03.00.00.02	2	2
4	BOLT M20x70-8.8-Fe/Zn5/A	PN-EN ISO 4017	8	8
5	SPRING WASHER 20,5-Fe/Zn8/A	PN/M-82008	8	8
6	CONE-SHAPED LUBRICATING NOZZLE M8x1	PN/M-86002	2	2



Name of assembly Numbers of Figures				
Foot		5	QUAI	ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
	FOOT	126RPN-05.00.00.00		
1	SLIDE BLOCK	126RPN-05.01.00.00	1	1
2	SLIDE	126RPN-05.02.00.00	1	1
3	HANDLE	126RPN-05.00.00.01	1	1
4	BOLT Mx25-8,8-Fe/Zn5/A	PN-EN ISO 4017	1	1
5	BOLT M16x110-8,8-Fe/Zn5/A	PN-EN ISO 4014	1	1
6	SELF-SECURING NUT M16-5-Fe/Zn5/A	PN-EN ISO 7040	1	1
7	SPRING WASHER Z8,2-Fe/Zn8/A	PN/M-82008	1	1



Name of assembly Numbers of Figures				
	Pin Set	6	QUAI	ΝΤΙΤΥ
ITEM PART NAME		NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
1 2 3 4	PIN SET PIN TECHNICAL CHAIN 2x12x25 I=150 mm WHEEL I SPRING-TYPE COTTER PIN 3x70-Fe/Zn8/A	126RPN-11.00.00.00 126RPN-11.00.00.01 29RPN-14.06.203 PN-ISO 7072	1 1 1 1	1 1 1 1



Name of assembly Numbers of Figures				
Rubber ploughshare		7	QUA	ΝΤΙΤΥ
ITEM PART NAME		NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
	RUBBER PLOUGHSHARE SET	131RPN-12.00.00.00	1	-
	RUBBER PLOUGHSHARE SET	126RPN-12.00.00.00	-	1
1	RUBBER INTERNAL PLOUGHSHARE	126RPN-12.00.00.01	2	2
2	LONG RUBBER EXTERNAL PLOUGHSHARE	126RPN-12.00.00.02	-	2
3	SHORT RUBBER EXTERNAL PLOUGHSHARE	126RPN-12.00.00.03	2	-
4	COVER PLATE	126RPN-12.00.00.04	-	2
5	RIGHT COVER PLATE	131RPN-12.00.00.04P	1	-
6	LEFT COVER PLATE	131RPN-12.00.00.04L	1	-
7	BOLT WITH FILLING Z M16x90-8.8-Fe/Zn5	PN/M-82406	12	12
8	SELF-SECURING NUT M16-8-Fe/Zn5	PN-EN ISO 7040	12	12



Name of assembly Numbers of Figures				
Supporting wheel		8	QUAI	ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
	SUPPORTING WHEEL	79RPN-16.00.00.0002		
1	COLUMN SET	79RPN-16.01.00.00	1	1
2	KNOB	79RPN-16.03.00.00	1	1
3	WHEEL PIN	79RPN-16.00.00.01	1	1
4	WASHER	79RPN-16.00.00.02	1	1
5	BEARINGS WASHER	37RPN-16.01.003	1	1
6	COTTER PIN	79RPN-16.00.00.03	1	1
7	WHEEL SET	252-30K-NI	1	1
8	CONE-SHAPED ENDING	460869	1	1
9	THRUST BEARING 51204		1	1
10	BODY	126RPN-14.01.00.00	1	1
11	CASTELLATED NUT M24-8-B-Fe/Zn5	PN-M-82148	1	1
12	WASHER 21-Fe/Zn5	PN-EN ISO 7091	1	1
13	WASHER 25-Fe/Zn5	PN-EN ISO 7091	1	1
14	WASHER 31-Fe/Zn5	PN-EN ISO 7091	1	1
15	BOLT M6x35-8.8-Fe/Zn5	PN-EN ISO 4014	1	1
16	COTTER PIN S-Zn	PN-M-82001	1	1
17	LUBRICATING NOZZLE M6x1	PN-M-82002	1	1
18	SELF-SECURING NUT M6-8-Fe/Zn5	PN-EN ISO 7040	1	1





Name of assembly Numbers of Figures				
Column Set		9	QUAI	NTITY
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
	COLUMN SET	/9RPN-16.01.00.00		
1	COLUMN	79RPN-16.01.01.00	1	1
2	BOLT	79RPN-16.01.00.01	1	1
3	NUT	51RPN-18.01.102	1	1

FIGURE 10. LABELS.







Name of	Name of assembly Numbers of Figures			
Labels		10	QUA	ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
1	TYPE LABEL	131RPN-16.00.00.01	1	-
2	TYPE LABEL	126RPN-16.00.00.01	-	1
3	WARNING LABEL I	17RPN-12.00.00.04	1	1
4	WARNING LABEL II	17RPN-12.00.00.05	1	1
5	WARNING LABEL III	17RPN-12.00.00.06	1	1
6	WARNING LABEL IV	17RPN-12.00.00.07	1	1
7	RIGHT CONTOUR LABEL	126RPN-16.00.00.02P	1	1
8	LEFT CONTOUR LABEL	126RPN-16.00.00.02L	1	1



Name of assembly		Numbers of Figures		
Hydraulic system		11	QUAI	ΝΤΙΤΥ
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800
1	PIPE	126RPN-10.01.00.00	2	2
2	PIPE	126RPN-10.02.00.00	2	2
3	PIPE	126RPN-10.03.00.00	2	2
4	SERVOMOTOR 63sj36A/420M4a16	33RPN-05.19.00.00	2	2
5	COUPLER BODY	12RPN-25.00.01	4	4
6	COUPLER BODY	12RPN-18.00.01	6	6
7	METAL-RUBBER GASKET M20x1,5	PPM20	4	4
8	METAL-RUBBER GASKET G1/2	PP45-D	6	6
9	QUICK-COUPLER	SZ12-W06	2	2
10	ELECTRO-VALVE 6/2	E6212-12V-1/2"	1	1
11	CYLINDRICAL-HEAD BOLT M8x75-8,8-Fe/Zn5	PN-EN ISO 4762	2	2
12	NUT M8-8-Fe/Zn5	PN-EN ISO 4032	2	2
13	SPRING WASHER Z8,2-Fe/Zn5	PN/M-82008	2	2
14	PLUG-IN SOCKET ISO (WITH NUT)	920025	2	2
15	BUNDLING SLEEVE I=1600 *	43463	2	2
-				

* - NOT SHOWN IN THE PICTURE.



Name of assembly		Numbers of Figures		
	Hydraulic system *	12	QUAI	NTITY
ITEM	PART NAME	NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P
1	PIPE	126RPN-10.01.00.00	2	2
2	PIPE	126RPN-10.02.00.00	2	2
3	PIPE	126RPN-10.04.00.00	1	1
4	PIPE	126RPN-10.05.00.00	2	2
5	CONTRA-NUT M33x1,5	126RPN-10.00.00.01	1	1
6	SERVOMOTOR 63sj36A/420m4a16	33RPN-05.19.00.00	2	2
7	COUPLER BODY	12RPN-25.00.01	4	4
8	COUPLER BODY	12RPN-18.00.01	8	8
9	MEMBRANE HYDROBATTERY	SB0210-0,75E1/663U- 210AB065	1	1
10	METAL-RUBBER GASKET M20x1,5	PPM20	4	4
11	METAL-RUBBER GASKET G1/2"	PP45-D	8	8
12	ELECTRO-VALVE 6/2 WITH OVERLOAD VALVE	E6212PV-12V-1/2"	1	1
13	BOLT M8x20-8,8-Fe/Zn5	PN-EN ISO 4017	3	3
14	SPRING WASHER Z8,2-Fe/Zn5	PN/M-82008	3	3
15	PLUG-IN SOCKET ISO (WITH NUT)	920025	2	2
16	BUNDLING SLEEVE I=1600 **	43463	2	2
17	QUICK-COUPLER	SZ12-W06	2	2

*-ON SPECIAL REQUEST OF THE CLIENT.

**-NOT SHOWN IN THE PICTURE.



Name of assembly		Numbers of Figures			
Wiring system		13	QUANTITY		
ITEM PART NAME N		NUMBER OF FIGURE (STANDARD)	PUV- 2600	PUV- 2800P	

126RPN-09.00.00.00

WIRING SYSTEM OF THE PLOUGH

1	ELECTRO-VALVE BUNDLE	126RPN-10.02.00.00
2	SWITCH BUNDLE	126RPN-10.04.00.00

NOTES: