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MILAN



AGREGAT DO UPRAW PRZEDSIEWNYCH

SAATBETTGRUBBER

SEEDBED CULTIVATOR

CULTIVATEUR DE LIT DE SEMENCES

ПОДГОТОВИТЕЛЬНЫЙ УСТРОЙСТВО ДЛЯ УРОЖАЙ



PL

MANUAL

BIEDRZYCHOWICE 2020

DEKLARACJA ZGODNOŚCI

DECLARATION OF CONFORMATY
DICHIARAZIONE DI CONFORMITA

004/PM/20



NAMYSLO Damian Namysło
Biedrzychowice 96A, 48-250 Głogówek
Ust-IdNr.(NIP): PL 755-184-91-20, Regon: 369058315

Oświadczamy, że produkowany przez nas wyrób

We affirm that product manufactured by us

Affermano che e prodotto da noi

Nazwa: **KOMPAKTOR UPRAWOWY**

Name:

Nome:

Typ/model: **MILAN**

Type/model:

Tipo:

Spełnia wymogi następujących norm i norm zharmonizowanych:

Is in accordance with the following harmonized standards:

E in conformita delle seguenti norme:

oraz spełnia wymogi zasadnicze następujących dyrektyw:

And is in accordance with the following directives:

A conforme alle seguenti directive:

2006/42/WE Dyrektywa Maszyn

2006/42/WE Machinery Directive

2006/42/WE Le direttiva macchine

EN ISO 12100-1:2003 Bezpieczeństwo maszyn - Pojęcie podstawowe, ogólne zasady projektowania - Część 1: Podstawowa terminologia, metodyka

EN ISO 12100-1:2003 Safety of machinery - Basic concepts, general principles for design - Part 1: Basic technology, methodology

EN ISO 12100-1:2003 Sicurezza del macchinario - concetti di base, principi generali di progettazione - Parte 1: Concetti fondamentali e metodologia

89/686/EWG Dyrektywa Środków Ochrony Indywidualnej PPE

89/686/EWG Personal Protective Equipment (PPE) Directive

89/686/EWG Directtiva DPI



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1. General information

NAMYSLO Damian Namysło congratulations on the purchase of a modern MILAN compactor. We are convinced that the compactor meets the customer's expectations.

At the time of purchase, the user receives a complete machine, assembled at the factory and ready to work.

For proper and safe use, we recommend that you read this instruction manual thoroughly.

The manual is an essential part of the machine and should be kept for future use. The manual includes a machine parts catalog and a warranty card.

Proper use of the machine together with maintenance, lubrication and storage makes it easier to maintain it in good condition and in working order.

The machine has been designed and manufactured taking into account all the requirements related to its safe use, in accordance with applicable standards. However, it is necessary to comply with all recommendations contained in the operating instructions and applicable legal regulations regarding the use of the machine.

Should be used for needs that require the use of functions that meet the requirements of the standard and international in the field of ergonomics and safety of use, and cannot be excluded their use, for example, with residual restrictions, as well as situations that arise during work can be displayed.

The MILAN compactor can work on light, medium and medium firm soils, on even, stony fields, with slopes up to 13°.

Using the compactor for other purposes will be understood as improper use.

Additional information regarding the rules of use and spare parts can be obtained on the website: **www.namyslo.pl**, directly or by phone at **NAMYSLO Damian Namysło** or at machine sales outlets

Any deviations from the manufacturer's requirements and applicable legal regulations, including making any changes to the machine's design, without the consent of the manufacturer, the use of non-original spare parts will be understood as non-compliant use.

Damian Namysło is not liable for damages arising at that time.

The manufacturer reserves the right to constructional, technological and equipment changes agreed with IBMER and PIMR. Changes that should be included in the instructions for use and maintenance on a regular basis in the form of annexes.

The product is identified by a data plate located on the beam of the main frame of the compactor.

The name plate contains the following data:

- name and address of manufacturer,
- machine name,
- machine type,
- year of construction
- serial number,
- mass,
- KTM symbole



Figure 1. Name plate

2. Principles of safe work

In order to avoid hazards, before using the machine, read this operator's manual and observe the following instructions:



The operation and use of machines may be entrusted only to a person who has appropriate qualifications authorizing the tractor to work with agricultural aggregates and operating instructions available with the manual. Supported, used only with protection, after lowering the machines onto an even, hardened surface.



The aggregate should be connected to the tractor in a correct manner, in accordance with the instructions in the operating manual, securing the connecting elements with factory-made pins and cotter pins.



Before starting the compactor, make sure that there are no bystanders, especially children, of objects that can pose a threat. Only the operator may remain in the unit's work area.



Before using the machine, pay attention to its technical condition, in particular the method of attaching individual working units and connecting (hydraulic) system to the tractor. Check that all components are working properly.



Do not use a machine that is not technically efficient!



Compactor working units can be dangerous, but due to their functions, they cannot be protected. During work, the operator must make sure that there are no bystanders near the working aggregate. Ensure good visibility of the area around the unit. The safe distance from the working compactor is 5m.



When working with the compactor, in the event of a hazard to operators or bystanders, stop the tractor immediately, turn off the engine of the tractor, lower the machine to the resting position and apply the handbrake.



The operator of the compactor should wear fastened clothing during work. Loose items of clothing can be caught in rotating items, which puts the operator at risk.



The compactor must not be moved backwards with the machine lowered.



It is forbidden to transport people on the machine, as well as objects that are not equipment of the compactor.



It is forbidden to leave the tractor cabin while the compactor is moving.



Before leaving the tractor, lower the machine to the ground, turn off the engine of the tractor and remove the key from the ignition. Do not leave the machine on a slope.



It is forbidden to get between the tractor and the machine with the engine running and if it is not secured by applying the parking brake and placing wedges under the wheels.



Operation of the compactor is only permitted when the safety device is working properly.



The manufacturer is not liable for damage resulting from incorrect operation of the machine, incorrect or inaccurate adjustment, use of the machine contrary to its intended use, use of non-factory spare parts, introduction of changes in the structure by the user without consulting the manufacturer.



If the inscriptions and signs placed on the machine become damaged or illegible, they should be immediately replaced with new ones (ordered from the manufacturer or at the point of sale).



Meeting the requirements for using the machine, operating and repair according to the manufacturer's instructions and strict compliance with them is a condition of proper use.



Failure to comply with the above rules may lead to hazards for the operator and bystanders, as well as damage to the compactor. NAMYSLO Damian Namysło is not responsible for damages resulting from this.

2.1. Combination of the compactor with a tractor



Before connecting or disconnecting the compactor with the three-point linkage, make sure that the tractor control levers are in a position in which the unintentional raising or lowering of the lifting arms does not occur.



When connecting the machine to a three-point linkage, make sure that the linkage systems are in the same category.



There is a risk of crushing or cutting in the linkage zone of the linkage. When starting the lift, nobody may be between the machine and the tractor.

2.2. Hydraulic system



When connecting the hydraulic system hoses to the tractor, make sure that there is no pressure in the system. However, when disconnecting the system, lower the machine to the ground, reduce the pressure and turn off the engine of the tractor.



Sockets and plugs of the hydraulic system should be properly marked to avoid errors during connection. Incorrect connection of the hoses can lead to danger for the operator. When replacing installations, new hydraulic hoses must have the same technical specifications as those replaced.



Hydraulic system leaks should be removed using available methods which do not pose any hazards.



The injection of hydraulic fluid under pressure can cause personal injury and pose a serious threat to the operator. In case of injury, consult a physician immediately.



Hydraulically lowered elements can change their position only if there are no bystanders, objects or devices (e.g. power lines) in their range that can pose a threat.



Used oil and grease, in accordance with applicable legal regulations, should be handed over to the appropriate points (refineries, gas stations) collecting lubricants.

2.3. Service and repair activities



Corrective actions may be performed by a person with appropriate qualifications.



Servicing and repair work requiring connecting the machine with the tractor should be carried out with the handbrake applied and the engine in the tractor and machine turned off.



When carrying out maintenance or repair work, it is prohibited to get under the machine, which must be in the rest position.



Replace damaged parts with new ones. Disassembly and assembly of parts in the compactor can be performed by a suitably trained person using appropriate tools.



Bolts and nuts should be checked and tightened regularly.



Loose components for repair or inspection must be reattached properly.



When working with sharp parts, use appropriate tools and gloves.



When welding on a machine or tractor, disconnect the leads from the battery and alternator.



When replacing parts, use original spare parts with the same technical specifications.

2.4. Road transport



When traveling on public roads, observe the applicable laws regarding road safety, vehicle lighting and the machine.



During journeys, remember that the aggregate exceeds the transport width of 2.5 m and may pose a threat to people and animals passed during transport journeys.



On public roads it is allowed to move only with arms folded to transport position and mechanically secured against accidental unfolding.



For driving on public roads, the compactor must be equipped with lighting devices and appropriate plates for slow moving vehicles.

3. Warning and information graphic

The MILAN is factory-marked with the following graphics:


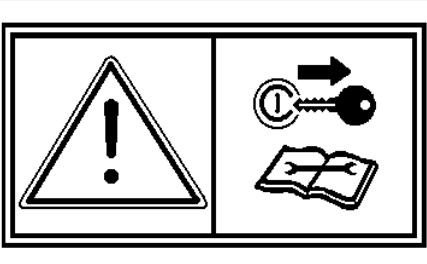



Safety symbol (sign)	The meaning of the symbol (sign)	Location on the machine
	Read the manual	Central beam of the aggregate frame
	Turn off the engine and remove the key before starting the service or repair activity	Central beam of the aggregate frame
	Crushing the finger of the hands	Aggregate frame hinge
	Crushing - the outer segment of the cultivator	Left / right side arm of the genset
	Crushing the toe or foot	Tractor track eradicators

Table 1. Warning and information graphic

4. Compactor purpose

The **MILAN** compactor is intended for pre-sowing soil cultivation. It is used for loosening the top soil layer, breaking and crushing lumps of crusted field surface and kneading the ground for better soaking of ground water. The compactor is especially useful when growing plants that require a particularly even field before sowing seeds, e.g. before sowing sugar beet.

The working elements of the compactor are coulter harrows (straight or bent tine) or spring harrows (spring tines with overlays) or frames with S-shaped tines - cultivator type (cultivator tine bent or straight with or without reinforcement) and rollers (front - supporting, stringed) and conditioners. Kompaktory uprawowe mogą współpracować z ciągnikami kl. 1,4 i 2,0 . . .

Tractors cooperating with the cultivator must be equipped with a set of front axle weights.

5. Description of seedbed compactor

The MILAN seedbed compactor is produced in the following working widths: 3m, 4m, 4.5m, 5m, and 6m. It is equipped with a three-point linkage system (TUZ) category II - version 3m and a drawbar category III - version 4m, 4.5m 5m, 6m. Power requirements: 100-120 HP for the 3m version, 120-140 HP for the 4m version, 130-150 HP for the 4.5m version, 150-180 HP for the 5m version, 180-240 HP for the 6m version.

The main part of the compactor is the middle frame, wings folded to transport position by means of a hydraulic system with two or four cylinders (version 4m, 4.5m, 5m, 6m) and working members i.e. toothed harrows or cultivator frames, rear string rollers and front support rollers and conditioners. Working members are connected with each other by chains and support frames.

The transport width of the machine is 2.58cm



Figure 2. 4m seedbed compactor in working position.

5.1 Main frame

The main frame is made of hollow sections and flat bars. For a folding aggregate, the main frame consists of a central part and two side parts, while for a rigid aggregate it consists of the central part only. In folding compactors, the frame folds and unfolds hydraulically. Assemblies with working elements are directly attached to the main frame.

5.2 Harrows

The harrow assembly consists of a frame and two, three or four harrows. On the front beam of the harrow frame are front hooks to which harrow chain assemblies are attached. The harrows are equipped with sharp teeth on the front beam and coulter teeth on the other beams. On the last crossbar of the harrow field there are two handles for connecting the harrow fields to the roller frame using chain hooks.

5.3 Cultivator frame

The cultivator frame assembly consists of two (two middle), three frames (middle and two side) or four frames (two middle and two side) with screwed cultivator tines. Cultivator frames can be subtracted from the cultivator frame (knocking out bolts) and in their place suspend coulter or spring harrows.

5.4 String rollers

The string roller assembly consists of two, three or four frames that are a combination of a support frame and a shaft frame. Each shaft frame has two shafts (tandem), one of which has left strings and the other right-handed. The frame structure is shaped in such a way that the shafts fixed in it have a lateral displacement of 80 mm relative to each other, which means that there is no so-called blind spot. The task of the string roller is breaking up, crushing the soil stronghold and compacting the top layer of soil.

Each shaft contains 10 strings with a specially profiled working edge. The strings are distributed around the circumference of rings with an outside diameter of Ø400mm. The outer rings are twisted by 40 ° to each other. String rollers are mounted as shafts on UCFL 209 bearing units requiring cyclic lubrication (every 10 hours of operation).

5.5 Spindle

The equipment of each aggregate consists of two, three or four spindles used to connect the harrow frame with the shaft support frame. A strong spring mounted on the spindle ensures proper pressure of the string rollers, which also acts as a shock absorber when the rollers come across stones or other obstacles. Turning the spindle screw changes the spring tension thus affecting the depth of string rollers.

5.6 Supporting shafts

The support shaft assembly consists of two, three or four frames that combine the support shaft frame and the main frame or side frame. These assemblies are mounted in front of the main and side frames to regulate the working depth of the aggregate. Each shaft contains 10 strings with a straight working edge. The strings are distributed around the circumference of rings with an outside diameter of $\varnothing 400\text{mm}$. The outer rings are twisted by 40° to each other. Support shafts are mounted as shafts on UCFL 209 bearing units requiring cyclic lubrication (every 10 hours of operation).

5.7 Aerators

The conditioner set consists of four teeth (two right and two left), which are connected to the main frame by means of outriggers. These units are placed in front of the main frame and at the same time behind the tractor wheels. The purpose of the conditioners is to break up and crush the soil along the tracks of the tractor wheels.

5.8 Hydraulic installation

The hydraulic system of the aggregate consists of a hydraulic cylinder CJ2F - 63/36/630 and two hydraulic (high-pressure) hoses for aggregates with working widths from 3.0 m to 4.5 m. The hydraulic system for aggregates with a working width from 5.0 m to 6.0 m consists of two CJ2F-45-80-630z hydraulic cylinders and six hydraulic (high pressure) hoses. The hoses are connected to the tractor's external hydraulic sockets. The hydraulic cylinder is used to fold the aggregate into the transport position.

The oil flow in the installation is throttled by the flanges of the hydraulic hose connection point to the cylinder.

6. Work with aggregate

6.1. Connection of the aggregate to the tractor

Before hitching the aggregate, check that the tractor linkage connectors have the same length; After inserting the coupling pins into the holes of the three-point suspension system (three-point suspension system), secure them with cotter pins;

When reversing cause coupling of the set to the tractor;

Connect the hydraulic hoses to the tractor's external hydraulic sockets;

Connect the rear wheel brake pneumatic hoses;

Unlock the wing coupling bolt in transport position;

Fold the machine wings to a horizontal position;

Level the cultivator transversely and longitudinally by shortening or lengthening the tractor drawbar;

We adjust the working depth of the machine by changing the angle of inclination of beams using a hydraulic system consisting of four hydraulic cylinders - with a fixed position of the rear shaft (Fig. 4, Fig. 5).

In order to ensure controllability and proper operation of the drive system, it is necessary to install in the front of the tractor properly selected weights corresponding to the purchased machine version.

6.2. Wing blocade

The unit is equipped with manual wing lock in transport position (4m, 4.5m, 5m, 6m version). The wings must always be blocked, especially when traveling on public roads.

In order to protect the wings against accidental, uncontrolled dropping, after raising the wings to the vertical position, lock the wings by pulling the bolt fixed on the right wing of the machine, and then insert it into the hole of the left wing plate, which will permanently engage both wings.

6.3. Hydraulic system

The hydraulic system of the MILAN aggregate consists of two or four double-sided cylinders operating with the symbol:

CJ2F - 100/56 / 500z (4m, 5m, 6m version) and two high pressure pipes. The hoses are connected to the tractor's external hydraulic sockets. The servomotors are used to fold the unit's wings into transport or working position.

Four double-acting cylinders with the symbol: **CJ2F - 63/36 / 200z** (4m, 5m, 6m version) and two 3m versions were used to adjust the working depth.

Before each season, check the condition of the hoses, system connections and installation tightness. Remove leaks and replace damaged cables with new ones.

It should also be remembered that high pressure oil is present during operation and that chafing or cutting may cause uncontrolled leakage, dangerous to the operator and the environment.

Regardless of the condition of the hydraulic hoses, they should be replaced every 5 years with the same ones. Damaged hoses should be replaced with new ones, under no circumstances should they be repaired!

6.4. Aggregate adjustment

Depending on soil, weather conditions or, for example, the need to prepare the soil for the right type of crop, the MILAN aggregate requires proper adjustment.

Adjustment of the aggregate operation should be carried out during the first journey, at the recommended operating speed: 7-10 km / h.

Recommended maximum working depth is 16cm.

The MILAN has the following adjustment options:

- **Changing the working depth of the aggregate** - the basic adjustment of the working depth of the aggregate is to strengthen the position of the pin
- **Change the position and angle of the finger harrow** - we regulate the position and working angle of the toe harrow. We adjust the angle by moving the fixing screws in the holes, and the depth is adjusted by turning the crank levers accordingly, then we lock the screws again in the new harrow position;
- **Adjusting the position of the side covers** - depending on the need to reduce the formation of so-called hills on the edges of the working machine, we use side covers. The angle and position of the harrow plate are adjusted by means of screws in the side arm. We usually use side guards when working at greater depths, when larger masses of soil are displaced. For soils with large amounts of manure or sodden, unused fields, it is recommended to remove the covers.

6.5. Road transport

Each time before the machine is expected to be transported on public roads, the machine must be properly prepared. To do this, we perform the following actions:

- Fold the machine arms to a vertical position using the hydraulic system and mechanically secure using a cable controlled pin;
- Disconnect the hydraulic hoses from the tractor and place them in the appropriate sockets;
- At the front of the tractor, we attach appropriate weights with a weight appropriate to maintain maneuverability on the road;
- We attach slow-moving vehicles and portable light and warning devices on the brackets located on the aggregate. A device containing two warning signs with white position lamps and white retro-reflectors facing forward and two signs with combined lamps shall be used and red reflectors facing backwards.

During transport, the aggregate should be raised to such a height that the clearance under the aggregate is about 30cm. Transport speed must not exceed 25 km / h.

Moving on public roads without the warning signs and lighting required by traffic regulations may cause an accident.

Light and warning devices are not the equipment of aggregates. The user can buy them at points of sale of agricultural machinery.

7. Technical characteristics





Model	 m	 pcs.	 kg	 KM
Milan 30	3,0	16	1900	100-120
Milan 40	4,0	22	2500	120-140
Milan 45	4,5	24	2800	130-150
Milan 50	5,0	28	3100	150-180
Milan 60	6,0	32	3900	180-240

Figure 7. Technical characteristics

8. Malfunction removal

Symptom	Reason	Removal methods
The hydraulic cylinder is not working	<ul style="list-style-type: none"> Wrong connection Not enough oil Installation leakiness Obstrucked bore in the orifice 	<ul style="list-style-type: none"> Improve connection Add oil Remove the leak Check the permeability of the flange
The string roller does not turn relatively excessive roller play	<ul style="list-style-type: none"> Faulty bearing Shaft hub wound with a rope 	<ul style="list-style-type: none"> Check team condition of the bearing assembly Replace the bearing Unlock the hub
To low pressure of string rollers to the ground	<ul style="list-style-type: none"> Bad leveling of the machine 	<ul style="list-style-type: none"> Check the condition of the spring Supporting frame spindles Adjust the spindle length

Table 2. Malfunction removal

9. Technical service and storage

The length of operation and reliability of operation of the aggregate strictly depends on properly performed service and maintenance.

After the first 10 hours of operation, tighten all screw connections. Each time after finishing work, the aggregate should be carefully inspected, cleaned of soil residues and dust.

Before prolonged standstill, for example in winter, the machine's working elements that come in direct contact with the soil should be preserved by lubricating their surface with oil. And the defects of the paint coats should be supplemented.

The hydraulic hoses must be cleaned, the plugs protected against any dirt or moisture and placed in appropriate sockets on the machine.

When carrying out maintenance and repair work, wear suitable protective clothing and gloves.

Maintenance operations should be carried out after ensuring adequate clearance around the machine.

The aggregate should be stored on an even, hardened, horizontal surface in a dry, well-ventilated place, sheltered from atmospheric influences in a way that does not pose a threat to humans and animals.

During storage the aggregate must rest on the ground in an unfolded state.

10. Disassembly and cassation

Disassembly of the machine should be carried out by persons previously familiar with its construction and appropriate qualifications, equipped with appropriate personal protective equipment and working clothes. These operations should be carried out with the use of appropriate tools after placing the machine in rest position on a flat and hard surface.

Due to the magnitude of forces that may exceed 200N, when dismantling individual components such as the frame, wings, etc., use lifting devices using constructional nodes as hooks.

Lifting devices used during dismantling may only be operated by a qualified person.

The machine must be deleted after it has been completely dismantled. Used lubricants and oil from the hydraulic cylinder should be handed over via the collection network of gas stations or directly to the refinery.

The disassembled aggregate should be returned to a scrap metal collection point or as secondary material.

GUARANTEE CARD

Aggregate for pre-sowing MILAN

Factory number:.....

Manufacture year:.....

The machine complies with the standard and is approved for use.

Warranty conditions and warranty services:

1. Hereby, NAMYSLO Damian Namyslo, Biedzychowice 96A, 48-250 Głogówek, NIP: PL 755-184-91-20, hereinafter referred to as the guarantor, provides the buyer with a warranty on the disk aggregate, ensures efficient operation of the offered product provided that it is used in accordance with its intended purpose and operating conditions specified in the operating instructions.
2. The warranty period is counted from the date of sale and is:
 - pre-sowing aggregate - 12 months,
3. The guarantor grants the customer a guarantee for the period specified above on the basis of a VAT invoice or receipt confirming the sale of the product.
4. During the warranty period, the guarantor is obliged to provide spare parts or repair a defective product free of charge. If the guarantor finds that repair of the product is not possible or the cost of repairing the device is disproportionately high in relation to the price of the new device, it is obliged to replace the product with one free from defects.
5. Under the warranty, the buyer or third parties shall not be entitled to a claim against the guarantor for any damages resulting from product failure. The guarantor's sole obligation under this warranty is to provide spare parts or repair or replace the product with a non-defective product in accordance with the terms of this warranty.
6. The Guarantor is liable to the buyer only for physical defects resulting from causes inherent in the sold product. The warranty does not cover defects resulting from other reasons, especially as a result of:
 - external factors: mechanical, thermal, chemical damage, flooding, excessive dirt, etc.
 - installing and using the product contrary to its intended use specified in the operating manual,
 - incorrect assembly, maintenance, storage and transport of the product,
 - product damage resulting from the use of non-original accessories or materials that do not comply with the manufacturer's instructions,
 - damage resulting from fortuitous events, factors bearing signs of force majeure (fire, flood, lightning, etc.)
 - malfunction of other installations (e.g. electrical, hydraulic, etc.) and / or devices affecting the operation of the product,
7. The warranty does not cover parts subject to normal wear and tear, as well as parts and consumables, such as filters, fuses, batteries, V-belts, greases, oils, etc.
8. The buyer loses the rights under the product warranty if it finds:
 - any modification of the product,
 - tampering with the product of unauthorized persons,
 - any attempts to repair the product by unauthorized persons,
 - use of any spare or wear parts in the product that are not original parts or recommended by the manufacturer.
9. The guarantor's confirmation of the existence of the reason specified in point 6 and 8 is the basis for not recognizing the product complaint. If the complaint is not accepted, the advertised product will be returned to the advertiser at his written request, provided that he covers the costs of shipping the product "to" and "from" the guarantor's service in advance.
10. Unclaimed goods referred to in point 9 after 60 days will be automatically utilized.
11. The basis for accepting a complaint for consideration is the fulfillment of the following conditions jointly:
 - Buyer submitting a complaint, possibly by fax or e-mail: name of product, date of purchase, a detailed description of the damage along with additional information regarding product defects and a photo of the defective product,
 - presenting the original invoice or receipt of the advertised product,
 - personal delivery or via the carrier of the advertised product to the headquarters of the guarantor.
12. Defects or damage to the product revealed during the warranty period should be reported to the guarantor immediately, but no later than 7 days from the date of disclosure.
13. The product in which a defect was found should be immediately excluded from use under pain of losing the warranty.
14. The guarantor undertakes to perform the warranty service within 14 days from the date of delivery of the device to the guarantor's service.
15. The product should be returned to the address after prior agreement with the guarantor, with the buyer bearing the costs and risk. Acceptance of the buyer's warranty claims will be tantamount to product repair or replacement of the product for a product free from defects and reimbursement of shipping costs incurred by the buyer in accordance with the transport price list in force at NAMYSLO Damian Namyslo.
16. For the place of performance referred to in point 14, the seat of the guarantor shall be considered. The buyer or carrier is responsible for the correct packaging and delivery of the product to the guarantor. This responsibility in no way passes to the guarantor.
17. Products sent back to the guarantor's address at his expense and / or sent back without the guarantor's knowledge and acceptance will not be accepted.
18. The guarantor decides about the legitimacy of the warranty claim and the choice of the method of implementation of recognized warranty claims

.....
Sale date

.....
Seller's signature and stamp

12. Notes