

Paweł Pruszyński *CNC Plasma Center*

Instructions for use and maintenance belt sander

Type	75 x 2000
Serial number	
Year of production	2026



Made In Poland



Any other form of use and use of the machine not in accordance with the form described in these operating instructions is forbidden.



ATTENTION: In order to optimally and safely use the machine, please read carefully and fully comply with the recommendations of this instruction.



ATTENTION: The machine was made in a version for operators who are not persons disabled. In the event that the machine is operated by disabled people, the machine should be properly adjusted.

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Information for the user

This manual is an important aid to the correct and safe operation of the machine. The operation and maintenance instructions contain important information for the safe, correct and economical operation of the machine. Observing them helps to avoid dangers, reduce repair and downtime costs and increase reliability and service life.

Follow these recommendations:

- Machines may only be operated, maintained, repaired and transported by the following persons, only instructed and trained personnel.
- Clearly define personnel responsibilities for operation, maintenance, repair, and transportation.
- Before starting up the machine, carry out a production test with checking of all safety devices.
- Ensure the safe operation of the plant and the ability of operating personnel to use it safely and properly.
- Before operating the system, read these operating and maintenance instructions and use.

The operating and maintenance instructions must be available at all times and must read and understood by any person who is required to work with the machine. The operating and maintenance instructions will help you :

- avoid danger to operating personnel,
- learn the machine functions,
- make the most of the system,

Original instructions

- avoid malfunctions caused by operating errors and eliminate malfunctions during operation,
- increase system life and prevent repair and downtime costs,
- avoid environmental hazards.

Qualification of operating person

A machine can pose a risk to health and life if :

- is operated or maintained by untrained or uninstructed personnel,
- is not used as intended.

Trained staff

Trained personnel are persons who have been thoroughly and verifiably

The user must be able to verify that they have been trained in their assigned tasks and the tasks assigned to them and the possible dangers arising from them.

Qualified staff

Qualified personnel are persons who, due to their professional training, knowledge and experience, as well as knowledge of the applicable regulations, are able to correctly perform the assigned tasks, independently recognize possible hazards and avoid personal injury and material damage.

Maintenance services

All work on electrical equipment may only be carried out by qualified maintenance personnel. Qualified maintenance personnel are persons who, due to their specialized training, knowledge and experience, and knowledge of the applicable regulations, are able to correctly perform work on electrical installations, independently recognize possible dangers and avoid personal injury and material damage caused by electric current.

Technical specifications

General information

Kind of machine	Belt Grinder
Type of machine	75 x 2000
Machine dimensions	L = 900 mm, S = 500 mm, H = 500 mm
Belt speed	26 m/s
Number of rolls	4
Motor power	2,2 kW 3phase
Year of production	2026
Weight	100 kg
Serial number	



ATTENTION: The belt sander is designed exclusively for machining wooden, or steel objects, use of the machine for other purposes is not permitted.

Incorrect use of the machine



It is forbidden to make modifications or attach any other object to the machine without carrying out a risk assessment and analysis.



It is forbidden to lean materials or other objects or any part of the body against the machine when working on the machine.



IT IS FORBIDDEN to consume alcohol in the immediate vicinity of the machine and IT IS STRICTLY FORBIDDEN to operate the machine if under the influence of alcohol.



ATTENTION: Adding extra mounting brackets or exceeding the the permissible load limits can cause damage to the machine.



It is IMMEDIATELY PROHIBITED to remove all designed covers and enclosures while the unit is in operation.

Noise



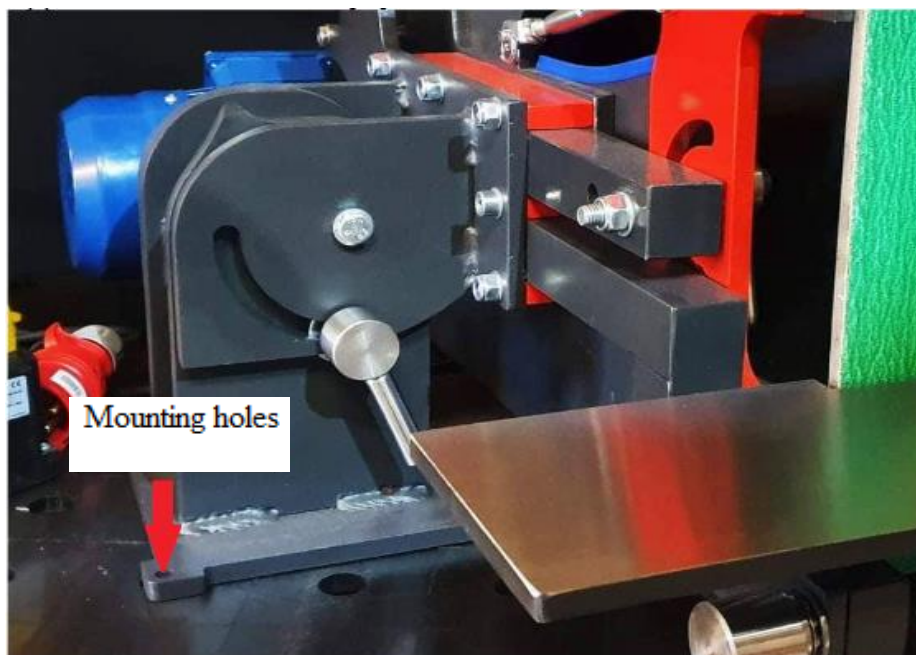
**WE ARE ALLOWED TO WORK WITH HEAR PROTECTORS
WHEN OPERATING THE MACHINE**

Transport and installation

The machine is delivered to the customer in two parts on a pallet. The machine is attached to the pallet with screws. After unpacking the machine, it should be placed on the table, folded and fixed to the table with screws. This work should be carried out by qualified and authorized workers.

Place the machine in a place protected from direct influence of changing weather conditions.

Place the machine on an even and solid surface or table and bolt it to the table using M10 x 50mm bolts. Leave enough free space around the machine to operate the machine and carry out maintenance and service work.



Original instructions

The drive should be supplied from a three-phase mains 3~230/400 V, 50 Hz with protection system. The drive must be connected to the electrical system by a qualified electrician.

Before actual operational startup, read the operating instructions and then perform a "dry" preliminary startup after connecting the drive to the electrical system.

When installing the machine, make sure that the assembly and installation is carried out by personnel who are familiar with the machine's operating instructions. In addition, the following points should be noted when preparing the setup site:

- Place the machine on a level and solid surface with a sufficient load-bearing capacity
- Leave sufficient clearance around the machine to operate the machine, and to perform maintenance and service work on the machine.
- Do not obstruct evacuation routes.
- Maintain safe distances according to local regulations.
- Provide sufficient space for peripherals, pallets, etc..
- Provide access to the machine for maintenance and repair work
- Provide sufficient lighting and ventilation at the workstation



ATTENTION: Ensure that the table on which the machine will be mounted is of adequate strength with respect to the weight, surface area and weight distribution of the machine to the various support points.



ATTENTION : Sawdust extraction should be used at the workstation where the belt sander is installed to extract the dust during machining from the machine.

General description of the machine

The belt sander is used for mechanical working of wood or steel elements. The machine is a steel construction assembled from several elements. Depending on the user's needs, the grinder can work in vertical or upright position. The machine is designed to work as an independent machine. It is recommended to use stationary suction (not supplied) to avoid dusting the room.

Safety rules



ATTENTION: The customer or a person authorized by him on the basis of this manual and the characteristics of his own production technology is absolutely obliged to prepare STANDARD OPERATING INSTRUCTIONS for operators.



ATTENTION: Only personnel trained in the operation of the machine and in health and safety regulations with particular reference to the risks posed by the machine may be permitted to operate the machine.

Have a qualified specialist check the machine regularly (at least once a year) who is qualified to do so.

The machine may be operated only by an adult employee, who has the appropriate professional training and a medical certificate confirming that there are no contraindications to work at a given position. In order to properly and

safely operate the machine, it is necessary to appoint employees who are trained in the operation of the machine and who are familiar with its technical instructions. An employee operating the machine should be instructed on the job. You should start work resting, sober, wearing working clothes without loose or hanging parts (such as loose sleeves, scarves, ties, etc.), and you should also wear a head covering your hair if appropriate.



ATTENTION: When using the machine, do not obstruct the space around it, as this may contribute to tripping, slipping, falling and accidents.

Lighting

It follows from the minimum illuminance level criterion that the illuminance
The criterion for a minimum level of illuminance for a workstation that can be
accepted in rooms
The criterion for a minimum level of illumination implies that the level of
illumination at a workstation that can be accepted in rooms where people are present
for long periods of time, regardless of the visual task being performed, should be 300
lux. If the visual task is more difficult than average, if the work is made more difficult,
if a high level of visual comfort is required and if the majority of employees are over
40 years of age, the illuminance level should be set one degree higher than the
minimum acceptable level, i.e. 500 lx

Service



WORKING CLOTHING that minimizes the possibility of being grabbed or pulled in must be worn.



You **MUST** wear ear protection.



You **MUST** wear a dust mask.



The use of slip-resistant work footwear is **STRONGLY ENCOURAGED**.

Before each start of work

1. Visually check the condition of the machine, e.g. if the electrical cable is not torn or chafed.
2. Check the sanding belt for abrasion.
3. Remove unnecessary tools, materials, and objects from the work area.
4. Check and ensure that all machine safety devices are functioning properly.

Getting started

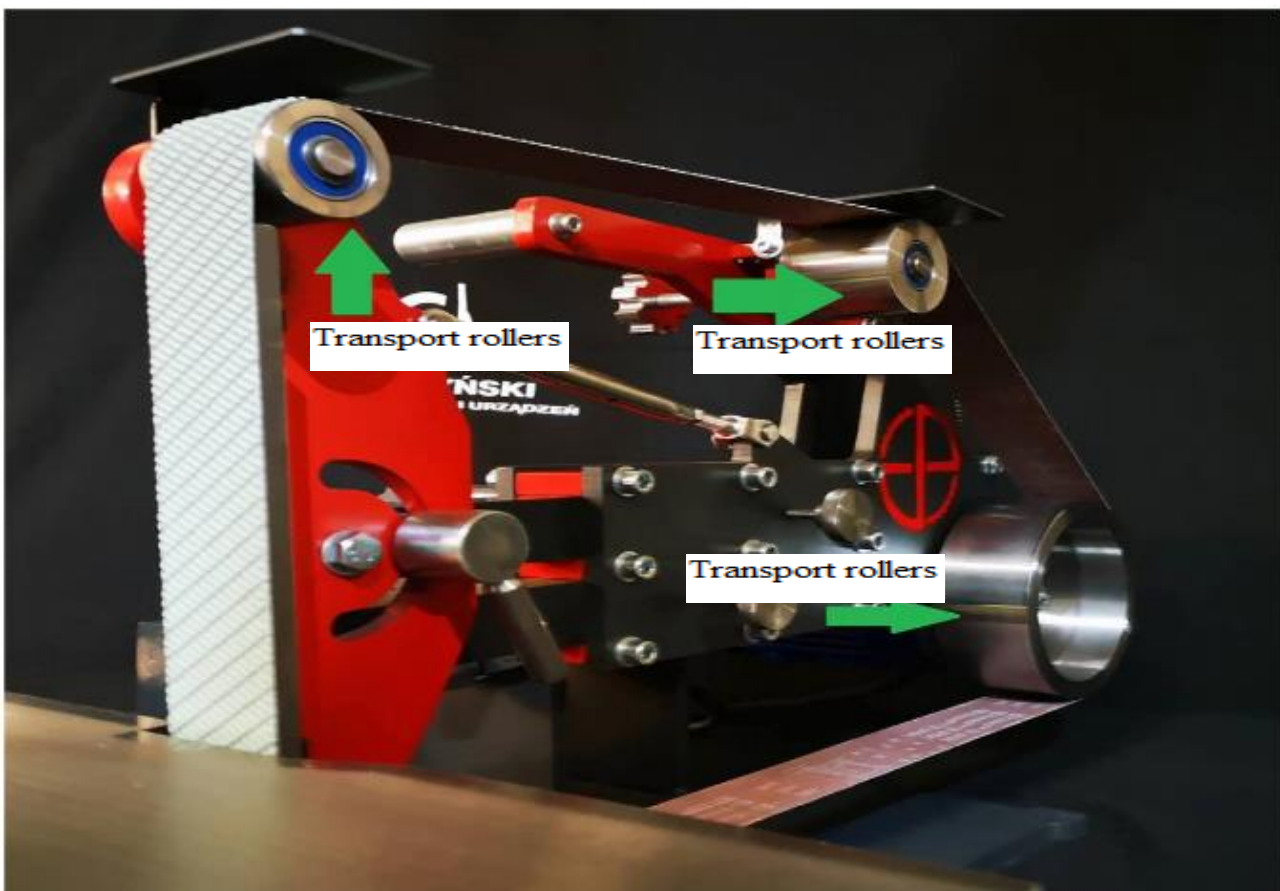
1. Wear personal protective equipment
2. Switch the main switch to position 1
3. Pay special attention and start processing the material

After work

1. Switch off the machine with the main switch in the 0 position
2. Clean up your workstation

Changing the sanding belt

1. Turn off the machine at the main switch
2. Remove the cover
3. Apply tape to the rollers
4. Turn the rollers so that the conveyor belt is aligned with the rollers
5. Screw on the grinder guard



Maintenance



ATTENTION: Do not perform any maintenance or repair work while the unit is in motion.

The adopted constructional solutions make the maintenance works and preventive inspections relatively simple and do not cause longer interruptions in the machine operation. The device has been constructed in such a way as to ensure the minimum workload in the field of current operation, tool changeover, inspection works and emergency repairs.

However, it is advisable to delegate these tasks to the Contractor's authorized and specialized service personnel.



ATTENTION: The machine is powered with life-threatening mains voltage 3 x 400 VAC; 50 Hz. Therefore, any service or preventive maintenance may only be carried out by qualified personnel with the necessary authorizations required by law.

Attention: Before beginning repair or maintenance, turn off the power by removing the electrical cord from the electrical outlet.

Scope of activities of the annual audit

1. Checking the proper functioning of the power system.
2. Inspect the condition of the electrical cords located on the machine and replace immediately if damage or abrasion is found.
3. Measurement of electrical insulation resistance and electric shock protection
4. Checking the condition of bolts and machine structure
5. Checking the condition of covers
6. Checking bearing wear
7. Checking the operation and status of safety components, especially the main switch
8. Lubrication of motor bearings

When performing maintenance and preventive inspections always use protective clothing and non-slip footwear that reduces the risk of falling.

Year	A periodic inspection of the device was carried out	Date	Signature
2025			
2026			
2027			
2028			
2029			
2030			
2031			

Defects

Content of the error	Possible cause	Solution
Machine does not start even though power is applied	Damaged cable	Inspection of the cable by the maintenance department
	Damaged gearbox	Gearbox replacement by maintenance service
Abnormal, unstable noise	Damaged bearing	Bearing replacement required
Belt does not rotate	Loose belt	Sanding belt tension

List of wearing parts

1. Transport roller bearings
2. Tension spring
3. Actuator
4. Motor

Residual risk information

The belt grinder has been constructed to the state-of-the-art and the recognised rules of technology. Nevertheless, not all hazards connected with operation that could lead to an accident cannot be excluded. These hazards are mainly connected with improper care during machine operation and maintenance or with removing fixed guards and working without them, as well as with intentional damage to or removal of electromagnetic safety devices.

Health and safety in the workplace

The adopted safety design solutions reduce to a minimum both the abnormal behavior of the machine and the risks for operating personnel and other services when following the rules of safe operation.

The following safety issues and risk assessments have been discussed in detail. In the event of contact between man and machine, these are specified in earlier chapters of this operator's manual. Because of the importance of the subject matter it will be repeated here.

- When operating the machine, the general rules for industrial work apply.
- It is forbidden to stay in the operating area of the device outside the designated areas.
- For optimal and safe operation of the machine, carefully comply with the instructions in this operating manual and **particularly observe all the prohibitory, regulatory and information signs** especially all prohibition, warning and information signs. It is **absolutely mandatory** to read and observe these signs.
- Before starting any work on the machine, each operator must read and understand this operating manual and have the **STATION INSTRUCTIONS**.
- **Only** employees who have been instructed in the machine's operation and in the health and safety regulations with particular regard to the risks posed by the machine may be permitted to operate the machine.
- **DO NOT** permit the equipment to be installed, disassembled or transported by personnel not having the necessary qualifications and who are not familiar with the safety requirements of this manual. Such actions may cause accidents or property damage.

Disposal, scrapping, environmental protection

General comments

Adopted constructional solutions and subassemblies of high quality allow for correct operation of the device for many years. Nevertheless, there may occur situations, which are impossible to foresee today, when changes in the Recipient's needs or changes in regulations and standards, forcing to adjust or withdraw the equipment from operation, may cause the necessity of its utilization and scrapping. This also applies to parts or units of the device being replaced or repaired. The purchaser is obliged to carry out these actions in accordance with current and local legal regulations. All parts of the device are recyclable.

Waste

Always dispose of hazardous waste through specialized companies. Below is a description of the types of waste generated during the life cycle of the machine:

- liquid or solid lubricating waste,
- residues from greases used for lubrication and maintenance,
- rags or paper soaked in substances used for cleaning machine parts,
- used spare parts, depending on the type of material they are made of.

Any waste material from replacement or servicing and contaminated with residual grease must not be disposed of with industrial waste. All waste generated during the manufacturing process shall be segregated and stored in designated and labeled areas.



ATTENTION: Direct placement of waste in normal trash receptacles or disposal using standard waste collection services is prohibited.



ATTENTION: If a waste hazardous to life or health is generated, it is imperative that management be notified.




Identification pictograms



WEARING EAR PROTECTORS



NEED TO WORK WITH A DUST PROTECTIVE MASK

 <p>RUCHOME CZĘŚCI MASZyny</p>	<p>Moving machine parts</p>
 <p>POD NAPIĘCIEM</p>	<p>Device under voltage</p>
 <p>GŁÓWNY WYŁĄCZNIK PRĄDU</p>	<p>Main power switch</p>

Electrical diagram