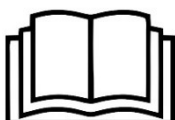
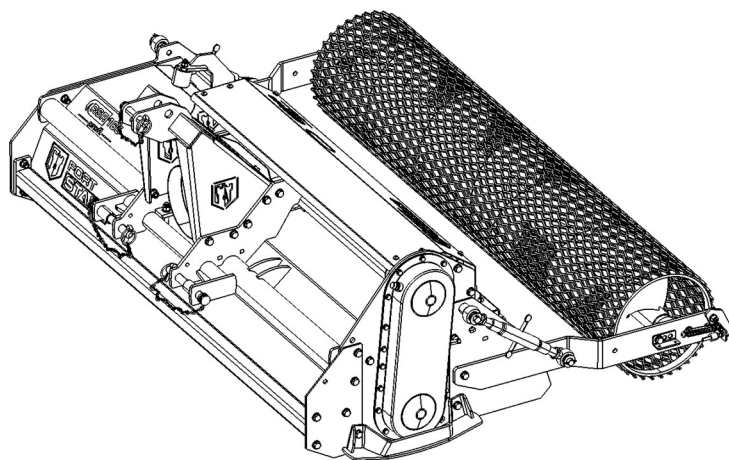


Part List No. 10

OPERATING INSTRUCTIONS WARRANTY CARD

STONE BURIER

RSR 125 Profi, RSR 145 Profi, RSR 165 Profi



**BEFORE STARTING WORK, READ THE
OPERATING INSTRUCTIONS**

UAB „AGROTEKAS“
K.Donelaičio g. 62-1
LT-44248 Kaunas, Lithuania
info@agrotekas.com
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Issue date: 20.01.2026

Edition 1, Lithuania 2025

*Original instructions
Language: English*



EC DECLARATION OF CONFORMITY



In accordance with the Regulation of the Minister of Economy of 21 October 2008 on the essential requirements for machinery (Journal of Laws 2008 No. 199 item 1228) and Directive 2006/42/EC of the European Parliament and of the Council.

UAB „AGROTEKAS”
K.Donelaičio g.62-1,
LT-44248 Kaunas, Lithuania

Person responsible for compiling the technical documentation of the machine:

Name and surname: *Address:*

Acting as the manufacturer, declares under full responsibility that:

Machine:
Type/model:
Serial no:
Year of production:
Function:

to which this declaration relates meets the requirements:

Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery
(Official Journal of the European Union L157 of 09.06.2006, pages 24-86)
and the Regulation of the Minister of Economy of 21 October 2008 on essential requirements for machinery
(Journal of Laws No. 199 item 1228)

The following harmonised standards were used for conformity assessment:

PN-EN 4254-5:2018-08
PN-EN ISO 4254-1:2016-02

PN-EN ISO 12100:2012
PN-EN ISO 13857:2020-03

and standards and regulations:

ISO 3600:2022
PN-ISO 730:2018-02

PN-EN ISO 20607:2019-08

PN-ISO 11684:1998
ISO 2332:2009

This EC Declaration of Conformity becomes invalid if the machine is altered or converted without the manufacturer's approval.

The operating manual is an integral part of the machine.

The machine may only be passed on to another person in a fully functional condition, accompanied by the operating manual and the declaration of conformity.

.....
Place and date of issue

Direktorė
Justina Stankutė



.....
Name, position and signature of the person empowered to draw up the declaration of conformity on behalf of the manufacturer

WARRANTY CARD

Stone burier
Serial number
Production date
Controller's signature
Date of sale
Seller's signature

.....
Seller's stamp

.....
Manufacturer's stamp

ATTENTION: The purchaser must require the dealer to accurately and legibly complete the warranty card and claim vouchers. The omission of details, such as the date of sale or the dealer's stamp, may result in the rejection of future warranty claims. A warranty card containing unauthorized alterations or illegible entries is void.

Warranty claim procedure

1. "User" refers to the natural or legal person purchasing the machine. "dealer" refers to the commercial entity supplying the machine to the user. "manufacturer" refers to the producer of the machine.
2. The manufacturer guarantees the high quality and proper operation of the stone burier for which this warranty is issued.
3. Any defects or damage to the stone burier will be repaired free of charge for a period of **12 months** from the date of sale.
4. Discovered defects or damage must be reported using the warranty claim form, either in person, by mail, via email, or by telephone.
5. If, during the warranty period, the machine requires three warranty repairs and continues to exhibit defects that prevent it from being used for its intended purpose, the purchaser is entitled to have the machine replaced with a new, defect-free unit or to receive a full refund.
6. Unless the manufacturer, dealer, and user agree upon an alternative timeframe, the processing of a warranty claim, machine replacement, or refund shall be completed within 14 days from the date the claim is filed by the user.
7. Warranty repairs do not cover damage caused by:
 - Operating the stone burier in a manner contrary to the operator's manual and its intended use,
 - Force majeure events or other occurrences for which the manufacturer bears no responsibility.Such repairs can only be performed at the expense of the user/purchaser.
8. The warranty does not cover parts and components subject to normal wear and tear during regular operation, regardless of the warranty period. These consumable elements include, but are not limited to, the following parts/components:
 - Curved blades,
 - Guards/shields,
 - Bearings,
 - Gearbox/transmission components.
9. Any modifications to the machine without the prior written consent of the manufacturer are strictly prohibited. In particular, it is forbidden to weld, drill, cut, or heat the main structural components of the machine, as these directly affect operational safety.
10. The manufacturer reserves the right to void the machine's warranty if it determines that:
 - Structural modifications have been made,
 - Unauthorized repairs performed without consultation with the machine manufacturer,
 - **A PTO shaft with a slip clutch was not utilized,**
 - Non-original spare parts were used,
 - There was a failure to perform regular lubrication or oil changes,
 - Damage occurred due to accidental events or force majeure,
 - Required entries in the warranty card are missing, or unauthorized alterations have been made to it by the user,
 - The machine was operated contrary to its intended use or the operator's manual.

Claim voucher no. 1

Stone burier

Serial No. Purchase date

No. of complaint protocol

.....
signature and stamp of the seller

Claim voucher no. 2

Stone burier

Serial No. Purchase date

No. of complaint protocol

.....
signature and stamp of the seller

Claim voucher no. 3

Stone burier

Serial No. Purchase date

No. of complaint protocol

.....
signature and stamp of the seller

Technical equipment in working order, received after repair

On.....

.....
user's signature

Notes

.....
.....
.....

Technical equipment in working order, received after repair

On.....

.....
user's signature

Notes

.....
.....
.....

Technical equipment in working order, received after repair

On.....

.....
user's signature

Notes

.....
.....
.....

IDENTIFICATION STONE BURIER

The stone burier is equipped with a nameplate located on the machine body. It contains the basic data used to identify the machine: manufacturer's name, machine model, serial number, year of manufacture. The data located on the nameplate serves to identify the stone burier and should correspond to the following data entered at the time of sale.

Symbol

Year of production

Serial No.

UAB „AGROTEKAS“ K. Donelaičio g. 62-1, LT-44248 Kaunas, Lithuania			
GLEBOGRYZARKA SEPARACYJNA			
Symbol:		TYP:	
Rok prod.:		Masa:	
Nr seryjny:		KJ:	*

**THE SUPPLIER OF MACHINES, BOTH NEW AND USED, MUST POSSESS A
CONFIRMATION OF RECEIPT OF THE STONE BURIER OPERATOR'S MANUAL
SIGNED BY THE PURCHASER**



**THE OPERATOR'S MANUAL CONSTITUTES THE BASIC EQUIPMENT
OF THE MACHINE! KEEP THE MANUAL FOR FUTURE REFERENCE!**



ATTENTION!

When renting out the machine, it must be remembered to provide the stone burier operator's manual and the PTO shaft along with the rented machine..



ATTENTION!

The use of a PTO shaft without a slip clutch and non-original spare parts results in the loss of warranty!



REMEMBER

Before operation, check the proper interaction of the PTO (power take-off) shaft with the tractor. The length of the PTO shaft must be adjusted to the tractor by changing the length of the telescopic tubes - see the PTO shaft operator's manual.

TABLE OF CONTENTS

WARRANTY CARD	3
IDENTIFICATION STONE BURIER.....	6
1. INTRODUCTION	8
2. INTENDED USE OF THE STONE BURIER	8
3. SAFETY AND WARNING NOTES.....	9
3.1. Symbols: meaning and usage.....	9
3.2. Intended use of the stone burier	9
3.3. Description of residual risk.....	10
3.4. Residual risk assessment	10
3.5. Health and safety regulations	11
3.6. Compliance with standards.....	15
3.7. Pictograms.....	16
3.8. Manufacturer's liability and warranty.....	18
3.9. Noise and vibrations	18
3.10 Danger zone	18
4. OPERATING INSTRUCTIONS	20
4.1. General information	20
4.2. Machine construction and description.....	20
4.3. Equipment and accessories of the stone burier	22
4.4. Preparation of the tractor for operation	22
4.5. Preparation of the stone burier for operation	22
4.6. Hitching the stone burier to the tractor.....	23
4.7 Rules for adjusting the stone burier	23
4.8 Operation of the stone burier	24
5. TECHNICAL MAINTENANCE	26
5.1 Guidelines for maintaining the stone burier	26
5.2. Post-season maintenance	26
5.3. Storage of the stone burier	26
5.4. Replacing the curved tines	27
5.5 Adjusting the working depth.....	29
5.6. Lubrication	31
5.7 Bevel gearbox maintenance	32
5.8 Chain transmission maintenance.....	33
5.8.1 Checking the oil level.....	34
5.8.2 Oil change.....	34
5.8.3 Adjusting the transmission chain tension.....	36
5.8.4 Replacing the transmission chain or tensioner	37
5.9 Changing the transverse position	38
5.10 Adjusting the mesh roller scraper	39
5.11 Screening rods.....	41
5.12. Clearing blockages	42
5.13. Troubleshooting	43
6. TRANSPORT	44
6.1. Transporting the stone burier on means of transport.....	44
6.2. Transporting the stone burier on a tractor.....	45
7. DISASSEMBLY	46
8. DISPOSAL	46
9. TECHNICAL SPECIFICATIONS.....	47
ANNEX A: STABILITY OF THE TRACTOR-MACHINE COMBINATION	48
MACHINE HANDOVER PROTOCOL.....	49

1. INTRODUCTION

This operator's manual is included with every machine to familiarize the user with the construction, operation, and adjustment of the stone burier. It also aims to warn against existing or potential hazards. The manual also contains information regarding the preparation of the stone burier for operation and transport. Strict adherence to the recommendations contained within the operator's manual will ensure long-term and trouble-free operation and will contribute to lowering the machine's operating costs. The individual chapters of the manual discuss specific topics in detail. If the operator's manual contains information that is unclear to the user, or if difficulties arise in the operation and use of the machine, comprehensive explanations can be obtained by writing to the manufacturer's address (the address is located on the cover) - in such cases, the following must be provided: the exact address of the machine purchaser, machine model, serial number, year of manufacture, and the year and edition number of the operator's manual. The terms used in the operator's manual: left side, right side, rear, and front – refer to the position of the operator facing the machine's direction of travel. Whenever the operator's manual refers to the machine or the tiller, this shall be understood to mean the stone burier. The warranty claim procedures and the resulting rights are specified in the warranty card.

2. INTENDED USE OF THE STONE BURIER

The stone burier is intended exclusively for agricultural and horticultural work for the purpose of loosening and separating the soil. It is used to prepare the soil for agricultural and horticultural crops and for the reclamation of green areas. Prohibited uses of the stone burier:

- transporting people, animals, and objects on the machine,
- working on stony terrain,
- working in areas where thick branches are present,
- working on surfaces with rubble buried in the ground,
- working in areas where the soil is excessively wet.

Fulfilling the requirements regarding the handling of the machine, i.e., operation and repairs according to the manufacturer's recommendations, and strict adherence to them, constitutes a condition of use in accordance with its intended purpose. Anyone who utilizes the machine in a manner contrary to its intended use thereby assumes full responsibility for all consequences resulting from its improper use. The machine may only be operated and maintained by persons familiar with its detailed characteristics and acquainted with the safety procedures. Accident prevention regulations and all basic occupational health and safety regulations, as well as traffic laws and transport regulations, must always be observed. Any violation of these regulations is treated by the Manufacturer as use contrary to the intended purpose. To drive the stone burier, a power take-off (PTO) shaft with a slip clutch possessing the parameters presented in Table 7 must be used. The stone burier may only operate with agricultural tractors with a narrow track width recommended by the Manufacturer (see Table 7), equipped with the appropriate hitch category and standard front axle and rear wheel weights to maintain the required steering ratio ($Ws \geq 20\%$). The calculation of the steering ratio can be performed in accordance with Annex D of the PN-EN ISO 4254-1:2016-02 standard or Annex A of this manual.

3. SAFETY AND WARNING NOTES

3.1. Symbols: meaning and usage

Symbols are used in this manual to draw the user's attention and emphasise certain crucial aspects that need to be discussed.



This warning symbol indicates the need to pay close attention to the instructions contained in the operator's manual. It highlights particularly important information and recommendations, information and descriptions regarding hazards and precautions, as well as commands and directives related to operational safety.



DANGER

This word indicates a danger, with a possible severe risk of an accident. Failure to observe the recommendations marked with this word may result in a situation of severe risk of injury to the operator and/or persons in the vicinity! These recommendations must be strictly observed!



ATTENTION!

This word indicates the possibility of damage to the machine or surrounding objects and dictates caution. This is an important instruction to which special attention must be paid!



REMEMBER

This word indicates a tip or note regarding key functions or useful information concerning the correct operation of the machine.

3.2. Intended use of the stone burier

The stone burier has been designed, constructed, and adapted for agricultural and horticultural work for the purpose of loosening and separating the soil. It is used to prepare the soil for agricultural and horticultural crops and for the reclamation of green areas. Work with the stone burier may be performed on terrain with a slope of up to 8.5°. The stone burier may only operate with tractors with a narrow track width recommended by the manufacturer - see Table 7.



REMEMBER

The regulations regarding intended use and the configurations provided for this machine are the only ones exclusively permitted. The machine must not be used for purposes other than those for which it is intended. The regulations cited in this operator's manual do not replace the obligations regarding applicable statutory regulations relating to safety and accident prevention standards, but rather summarize them.

3.3. Description of residual risk

Residual risk arises from incorrect or improper behavior by the operator of the stone burier. The greatest danger may occur during the performance of the following activities:

- operating the stone burier by minors as well as persons not familiar with the operator's manual or not possessing the qualifications to drive agricultural tractors with which the stone burier can operate,
- operating the stone burier by persons who are ill, under the influence of alcohol, or after taking narcotics,
- transport and operation without observing appropriate precautions,
- hitching the stone burier to the tractor if the operator is present between the machine and the tractor while the engine is running,
- operation if children, bystanders, or animals are within the machine's operating range,
- maintenance and adjustment tasks on the stone burier if the tractor engine is running,
- maintenance tasks when the moving parts of the stone burier are rotating,
- operation without guards and with damaged or incomplete guards,
- operating the stone burier contrary to its intended use,
- riding on the machine during operation or transport,
- failing to maintain a safe distance from hazard zones or occupying a position within these zones while the machine is operating.

In describing the residual risk of the stone burier, the stone burier is treated as a machine that, from the moment production commenced, was designed and manufactured according to the current state of the art.

3.4. Residual risk assessment

During the use of the stone burier, danger and residual risk can be minimized if the following recommendations are observed:

- careful reading of the operator's manual,
- using the machine in accordance with its intended purpose,
- prohibiting persons from being on the stone burier during operation and transport,
- prohibiting persons from being between the tractor and the stone burier while the tractor engine is running,
- performing all adjustment, maintenance, and lubrication tasks on the stone burier only with the tractor engine turned off,
- having repairs to the stone burier performed only by trained personnel,
- operating the machine by persons possessing the qualifications to drive agricultural tractors,
- operating the machine by persons who have read the machine's operator's manual,
- maintaining a safe distance by bystanders from the operating machine – min. 50m,
- operating the machine with installed, undamaged, and complete guards,
- securing the machine against access by children,
- using protective gloves and protective clothing without loose parts.

Even though the company UAB „AGROTEKAS” assumes responsibility for the design and construction to eliminate hazards and residual risk, certain elements of risk during work with the stone burier are unavoidable.



1) Danger of cutting or severing by the rotating tines of the stone burier during operation and after turning off the machine's drive and shutting off the tractor engine, during work related to replacing the tines.



2) Danger of snagging or injury by protruding elements of the machine, especially the sharp ends of the stone burier tines, during operation, repairs, maintenance, working, and during hitching or changing the position of machine components.



3) Danger of crushing during hitching, lifting, and lowering the machine, as well as during work with the machine raised. While performing these activities, exercise extreme caution, maintain a safe distance, and use necessary safeguards.



4) Danger of cuts or abrasions by machine components during operation, repairs, and adjustments.



5) Danger of loss of stability during storage and transport. During storage, to maintain stability, the machine should stand on a flat, hard, level surface.



6) Danger of drawing in or entanglement by rotating components. Maintain a safe distance when rotating components are in motion and use all guards and safety devices. Bystanders should not approach the machine while it is operating.



7) Danger of being struck by thrown hard objects (e.g., stones) during operation. Exercise extreme caution and maintain a safe distance during machine operation (min. 50 m). Bystanders should not approach the machine while it is operating.

3.5. Health and safety regulations



ATTENTION!

In order to avoid hazards, before commencing work with the stone burier, it is necessary to read this operator's manual and observe the following rules regarding hazards and precautions:

General regulations

- In addition to this operator's manual, the traffic laws and occupational health and safety regulations, as well as the provisions contained in the operator's manual of the agricultural tractor and the manufacturer of the PTO shaft, must also be observed.
- The pictograms placed on the stone burier provide instructions concerning the safety of the user and third parties and the avoidance of accidents by these persons.
- When moving on non-public roads, the regulations contained in the Highway Code of the country where the machine is used must be observed.
- Before each start-up of the machine, it must be checked whether all machine components are in good condition. Any damage that has occurred must be repaired immediately, and any missing parts must be replenished.
- Avoid being in the working zone of the stone burier.
- Before leaving the tractor cabin and before any activity performed on the stone burier, turn off the tractor engine, remove the key from the ignition, lower the machine to the ground, and ensure that all rotating assemblies have stopped.
- The stone burier must be stored in a dry room, on a hard and flat surface. When lowering the stone burier to the ground, exercise extreme caution. Danger of injury!
- The operator's manual must be located near the machine and must be easily accessible.
- When lending the machine, it must be handed over in good working order along with the operator's manual and the PTO shaft.
- Adding extra weight to the machine is prohibited!
- Starting the stone burier when it is raised upwards is prohibited!

- Inserting hands and feet under the machine body when the rotor shaft with tines is rotating is prohibited! After turning off the machine's drive and the tractor engine, the rotor shaft with tines continues to rotate. Wait until the rotor shaft with tines stops rotating!
- Careless and improper use and operation of the machine, as well as failure to observe the recommendations contained in this operator's manual, pose a threat to the health and life of the operator and bystanders.
- Wearing loose clothing, loose belts, or anything that could be caught by the rotating PTO shaft is prohibited. Contact with the rotating power take-off (PTO) shaft can cause drawing in or entanglement, which poses a threat to the health and life of the operator! Approaching the rotating PTO shaft is prohibited!
- The operator's manual must be read both before the first start-up of the machine and after a longer break in operation.
- In the event of an accident or breakdown during operation, maintenance, or transport, secure the site of the accident, check the condition of the injured persons, and notify the appropriate services, e.g., police, ambulance, or fire brigade.

Coupling

- Exercise extreme caution when hitching the stone burier to the tractor and when unhitching it.
- Being between the machine and the tractor when the tractor engine is running is prohibited.
- Securing the pins of the machine's hitch system must only be done using standard safeguards in the form of linchpins.
- Being between the machine and the tractor while performing any operations with the tractor lever controlling its three-point hitch system is prohibited.
- During the hitching of the stone burier to the tractor, it is prohibited for persons to be between the machine and the tractor when the tractor engine is running.
- When hitching the machine to the tractor, shut off the engine, remove the key from the ignition, and engage the parking brake.
- The stone burier must only be hitched to an agricultural tractor recommended by the manufacturer and equipped with standard front axle and rear wheel weights. The agricultural tractor must be fully operational.
- The stone burier may be operated by a person possessing valid qualifications permitting the driving of agricultural tractors.
- Untrained persons and bystanders who have not read the operator's manual must not be allowed to operate the stone burier.
- Use the recommended power take-off (PTO) shaft with a slip clutch. Working with a PTO shaft without a guard or with a damaged or incomplete guard, as well as with a damaged shaft, is prohibited. Danger of being drawn in by the rotating PTO shaft.
- The PTO shaft has markings on the casing indicating which end of the shaft should be connected to the tractor and which to the machine.
- Stepping over and under the PTO shaft, as well as standing on the shaft both during operation and while the machine is stationary, is prohibited.
- Operation without guards, with incomplete or damaged guards is prohibited. If guards are destroyed or lost, they must be replaced with new ones.
- During hitching, the minimum load on the front axle of the tractor must be observed, as the mounted machine in the transport position may affect the stability and steering of the tractor. The condition for maintaining the steering and stability of the tractor is to ensure a pressure on the front axle of the tractor with the mounted machine equal to a minimum of 20% of the weight of the tractor itself.
- Standing, placing, or hanging objects on the PTO shaft attached to the tractor and the stone burier is prohibited.

- After finishing work, the PTO shaft must be disconnected from the tractor and placed on a special bracket on the stone burier.
- The stone burier may only operate with agricultural tractors equipped with a complete and undamaged operator's cabin.
- Any manipulation of the lever adjusting the position of the linkages of the tractor's three-point hitch system must be performed exclusively from the operator's seat. Operating the lever after leaving the tractor's operator seat is prohibited.
- In tractors equipped with EHR (electronic hitch control), controlling the tractor linkages is done using buttons located outside the agricultural tractor cabin. Exercise extreme caution when performing this action. Danger of crushing!
- After attaching the PTO shaft to the tractor's power take-off (PTO) stub shaft and to the power input connection (PIC) stub shaft on the machine, its locking pin must be located in the groove of the shaft. Check whether the PTO shaft is properly attached and secured.
- If a different PTO shaft is used, remember the required overlap of the PTO shaft guards with the PIC and PTO guards. The guard overlap should be a minimum of 50 mm when the PTO shaft is aligned in a straight line.
- Connecting the machine to a tractor is prohibited if the machine's hitch system does not comply with the category of the tractor's hitch system.



ATTENTION!

Operating with a tractor other than the one recommended by the manufacturer may pose a risk of losing stability - danger of the tractor-machine combination overturning! The load on the tractor's front axle must not be less than 20% of its unladen weight.

Operation

- **The stone burier may only operate with a power take-off (PTO) shaft equipped with a slip clutch and possessing the parameters specified in Table 7.**
- The stone burier may be operated by a person possessing valid qualifications permitting the driving of agricultural tractors and familiar with the machine's operator's manual as well as traffic laws.
- Bystanders unfamiliar with the operator's manual must not be allowed to operate the stone burier.
- Children and persons under the influence of alcohol must not be allowed to operate the stone burier.
- The stone burier must be lifted on the tractor's three-point linkage (TPL) smoothly, without jerks or vibrations.
- Always raise the stone burier upwards when turning around and reversing.
- Before performing a reversing maneuver and before each commencement of work, use the tractor's horn to warn bystanders who are in the vicinity of the machine about the danger.
- Operating a tractor with the hitched stone burier on slopes exceeding 8.5° is unacceptable. Danger of the tractor and machine overturning!
- Every time the operator dismounts from the tractor, the tractor engine must be turned off and the stone burier must be left in the lowered position on the ground.
- Clearing blockages that occur during machine operation and require operator intervention may only be performed after turning off the agricultural tractor engine, removing the key from the ignition, and disconnecting the PTO shaft from the tractor.
- Do not use the tractor's reverse gear during operation when the machine is in the working position. Danger of machine damage!

- All maintenance tasks (lubrication, repairs, cleaning, etc.) must be performed with the stone burier lowered to the ground, the tractor engine turned off, the key removed from the ignition, the parking brake engaged, and the PTO shaft disconnected from the tractor. The tractor-machine combination must be secured against rolling away.
- Persons operating agricultural machinery should wear work clothing, work footwear, and personal protective equipment appropriate to the existing hazards.
- During any repair of the machine raised on the tractor's TPL, it is necessary to secure it against falling using a stable, strong, certified support stand and a chain.
- Supporting the raised machine using fragile elements, e.g., bricks or hollow blocks, is prohibited.
- During any break in work, turn off the tractor engine, remove the key from the ignition, and lower the machine to the ground.
- Before commencing work, check whether there are any low-hanging power lines in the working area.
- Exercise extreme caution when working on sloping terrain and near ditches.
- In the event of damage, loss, or wear of the guards, they must be replaced with new ones.
- When performing maintenance tasks on the machine under a raised rear flap, always secure it against falling.

Transport

- The transport of the stone burier on means of transport from the manufacturer to the dealer or customer is described in detail in the "Transport" chapter. Remember the safety rules during loading and the correct securing of the stone burier on a car trailer. The attachment points for ropes or chains are marked with pictograms.
- **Transporting the stone burier suspended on a tractor on public roads is prohibited.** The machine must be transported to the workplace on other means of transport. Driving a tractor with a suspended stone burier on public roads may cause a traffic accident!
- Climbing onto the machine and transporting people, animals, or objects on the stone burier during operation and transport is prohibited.
- Pay attention to the machine's swing due to the width of the stone burier and the rigid connection to the tractor, especially when turning around during work and on curves during transport.
- Exercise extreme caution when making a turn with the tractor and suspended stone burier, both during transport and when turning around in the field, especially if people or objects are nearby.
- The driving speed of the tractor with the stone burier during transport **on non-public roads** must not exceed:
 - When driving on paved roads with a flat surface: 15 km/h
 - When driving on field roads: 10 km/h

Storage

- Disconnecting the stone burier from the tractor may only take place after turning off the tractor engine, removing the key, and engaging the parking brake.
- For the duration of machine storage, the rear guard must be lowered to its lowest bottom position.
- Storage of the stone burier should take place in areas where there is no possibility of accidental injury to people or animals.
- During storage, the machine should stand on a flat surface supported on the rotor shaft with curved tines and on the mesh roller, preferably under a roof.
- The stone burier must be stored in a dry room, on a hard and level surface. When lowering the stone burier to the ground, exercise extreme caution - there is a danger of injury!

**DANGER**

The stone burier tines have sharp ends – there is a possibility of injury! Exercise extreme caution when performing tasks around the machine. Improper positioning of the stone burier in the storage position may cause an accident!

Fire safety regulations

- Firefighting equipment should be part of the tractor's equipment and be located in its cab (ABC extinguisher).
- Smoking and the use of open flames near the working machine are prohibited.
- It is prohibited to conduct repairs, and especially welding work, without first cleaning the machine of any material residue that could cause a fire.
- Before starting welding work, disconnect the tractor battery.
- Working on areas covered with dry grass and near forest areas poses a risk of fire.
- Before starting work with the machine, check if a high degree of fire risk is in effect in the area. Working in such areas is prohibited!

**REMEMBER**

User, remember that occupational health and safety requirements and fire safety regulations must be strictly observed!

Other

- Using the stone burier for purposes other than those specified in the operator's manual is prohibited.

**ATTENTION!**

Failure to comply with the above rules may pose hazards to the operator and bystanders, as well as lead to damage to the stone burier. The user bears sole responsibility for damages resulting from failure to observe these rules.

3.6. Compliance with standards

The machine has been designed and manufactured in compliance with safety standards in the machinery industry in force on the day the tiller was placed on the market. In particular, the following legal acts and harmonized standards have been taken into account:

- 2006/42/EC – Machinery Directive implemented by the Regulation of the Minister of Economy of October 21, 2008 (Journal of Laws 2008 No. 199, item 1228).
- PN-EN ISO 12100:2012 – Safety of machinery. General principles for design. Risk assessment and risk reduction.
- PN-EN ISO 4254-1:2016-02 – Agricultural machinery. Safety. Part 1: General requirements.
- PN-EN ISO 4254-5:2018-08 – Agricultural machinery. Safety. Part 5: Soil-working machines with powered working tools.
- PN-ISO 730:2018-02 – Agricultural wheeled tractors. Rear-mounted three-point linkage. Categories N1, 1, N2, 2, N3, 3, N4, and 4.
- PN-ISO 730:2018-02/A1:2018-06 – Agricultural wheeled tractors. Rear-mounted three-point linkage. Categories N1, 1, N2, 2, N3, 3, N4, and 4.
- ISO 2332:2009 – Agricultural tractors and machinery. Connection of implements via three-point linkage. Clearance zone.
- ISO 3600:2022 – Tractors, machinery for agriculture and forestry, powered lawn and garden equipment. Operator's manuals. Content and format.
- PN-EN ISO 20607:2019-08 – Safety of machinery. Instruction handbook. General principles for drafting.
- PN-ISO 11684:1998 – Tractors, machinery for agriculture and forestry, powered lawn and garden equipment. Safety signs and hazard pictorials. General principles.

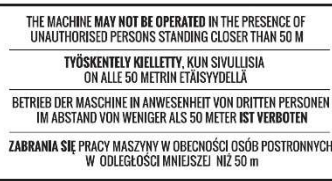
3.7. Pictograms

The stone buriers from UAB „AGROTEKAS” are equipped with all devices that ensure safe operation. Where hazardous areas cannot be completely secured due to the proper functioning of the stone burier, there are warning signs - pictograms, which indicate the possibility of a hazard and present a way to avoid it. Table 1 details the pictograms placed on the machine and provides their meaning. Safety pictograms should be protected against loss and loss of legibility. Lost or illegible signs and inscriptions should be replaced with new ones. It is required that new assemblies used during repair are marked with all safety signs stipulated by the manufacturer. Pictograms can be purchased by writing to the manufacturer's address or by sending an e-mail providing the sign number (according to Table 1) as well as the version and year of issue of the manual.

Table 1: Pictograms

No.	Pictogram	Meaning	Location on the machine
1	2	3	4
1.		Read the operating manual before starting work.	On the stone burier frame.
2.		Caution! Before starting maintenance, turn off the engine and remove the key from the ignition.	On the stone burier frame.
3.		Do not stand near the lift linkage while controlling the lift.	On the stone burier frame.
4.		Keep a safe distance from the machine. Risk of foot amputation by the rotor with blades.	On the stone burier frame.
5.		Caution! Do not touch machine components until all units have come to a complete stop.	On the stone burier frame.
6.		Keep a safe distance from the machine (min. 50 m); risk of thrown objects.	On the stone burier frame.

Table 1 (continued)

1	2	3	4
7.		Do not open or remove safety guards while the tractor engine or the machine is running.	On the gear transmission housing.
8.		Riding on the machine during operation and transport is prohibited.	On the stone burier frame.
9.		Do not reach into the crushing area if components can move.	On the stone burier frame.
10.		Information about the PTO (Power Take-Off) shaft rotation speed and direction of rotation.	On the WPM (Power Input Shaft) guard.
11.		Identification of loading attachment points.	Lower 3-point linkage (TUZ) points. Rear hatch brackets.
12.		Identification of lubrication points.	On the right side guard.
13.		Identification of oil fill points.	On the gear transmission housing. On the bevel gear housing.
14.		Prohibited to travel on public roads with the tractor and mounted machine.	On the stone burier frame.
15.		Operating the machine in the presence of bystanders at a distance of less than 50 m is prohibited.	On the stone burier frame.

3.8. Manufacturer's liability and warranty

Regarding the machine types described in this manual, UAB "AGROTEKAS" does not accept any civil liability in the event of:

- Improper use or use inconsistent with the manufacturer's recommendations.
- Use of the machine in a manner that violates national laws regarding safety and accident prevention.
- Non-compliance or incorrect compliance with the regulations cited in this manual.
- Introduction of unauthorized modifications to the machine.
- Use of the machine by untrained personnel.
- Use of replacement parts that are not original parts.

If the purchaser wishes to utilize the warranty, they should strictly follow the recommendations and regulations provided in the manual. In particular, they:

- Should work only within the specified operating ranges of the machine.
- Should use a Power Take-Off (PTO) shaft with an overload clutch.
- Should always carry out careful maintenance.
- Must allow only operators with appropriate skills and qualifications to use the machine.
- Should use only original spare parts recommended by the manufacturer.

3.9. Noise and vibrations

During operation of the stone burier, there is no noise hazard to the operator contributing to hearing loss, because the operator's workstation is located within the tractor cabin. In order to reduce the noise level during machine operation, the windows and doors of the agricultural tractor cabin must be closed.

During the sound pressure level measurement performed while the machine was stationary (the machine operated without load) in accordance with Annex B of the PN-EN ISO 4254-1:2016-02 standard, at nominal speeds of the tractor engine and the tractor PTO shaft, the noise in the agricultural tractor cabin at the operator's workstation was 72 ± 3.2 dB.

During operation of the stone burier, there are no hazards caused by vibrations, as the operator's workstation is located within the tractor cabin, where the seat is cushioned and appropriately ergonomically shaped.



ATTENTION!

If the noise in the agricultural tractor cabin at the operator's workstation exceeds 85 dB, the operator must work wearing hearing protection.

3.10 Danger zone

When working with the machine, it is important to avoid staying in the tiller's danger zone, marked in yellow in Figure 1. The danger zone is the area where bystanders are within a 50 m radius around the tractor-machine unit, where injuries may occur due to:

- Movements of the machine's working elements.
- Ejection of stones.
- Unintended lowering or raising of the machine.
- Unintended rolling of the tractor and machine.

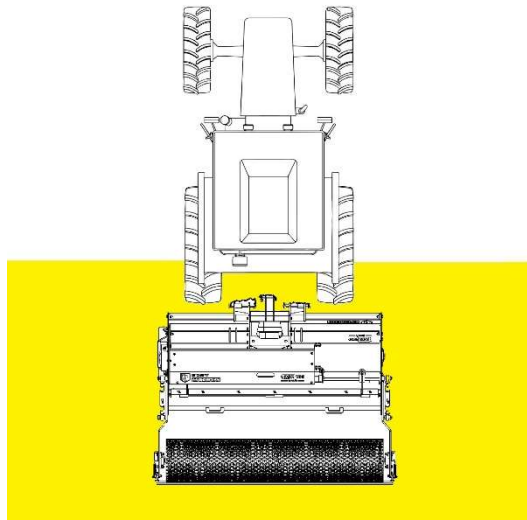


Figure 1. Machine danger zone

Within the machine's hazard area, there are places of continuous or unexpected danger. These locations are marked with signs warning of residual hazards that cannot be avoided by design. Special safety regulations given in the relevant chapters apply here.

No persons may remain in the machine's movement areas:

- As long as the tractor engine remains running.
- Until the tractor and machine are secured against unintended start-up and rolling.

Hazardous locations are situated:

- Between the tractor and the stone burier, especially during hitching and unhitching.
- In the area of moving parts, e.g., the working shaft (rotor), PTO shaft, etc.
- Under a raised and unsecured machine or a raised part of the machine.



ATTENTION!

Being in the danger zone of the stone burier during operation causes the operator or bystanders to be exposed to the danger of being struck, cut, injured, or facing another unforeseen hazard. Maintain a safe distance from the machine (min. 50 m)!

4. OPERATING INSTRUCTIONS

4.1. General information

The stone burier is adapted for operation on terrain slopes not exceeding 8.5° and operates with narrow-track tractors and with the parameters specified in Table 7. The stone burier may only operate on the rear three-point linkage (TPL) of the tractor.

4.2. Machine construction and description

The stone burier is a mounted machine hitched to the rear TPL of a narrow-track tractor. The construction of the stone burier is presented in Figures 2a, 2b, and 2c.

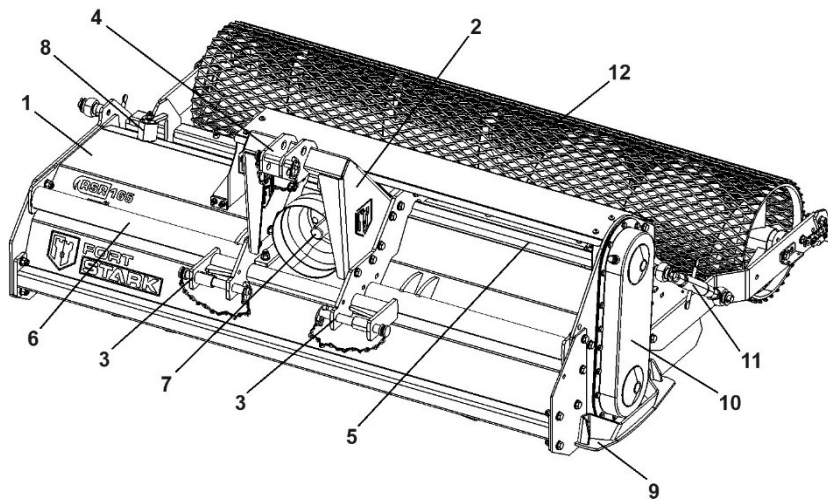


Figure 2a. Stone burier - general construction: 1 – body, 2 – frame with hitch system, 3 – lower hitch point (pin), 4 – upper hitch point, 5 - intermediate drive shaft, 6 – tubular guides, 7 – power input connection (PIC) shaft, 8 – shock-absorbing elements, 9 – skid, 10 – chain transmission, 11 – adjusting screw (turnbuckle), 12 – mesh roller

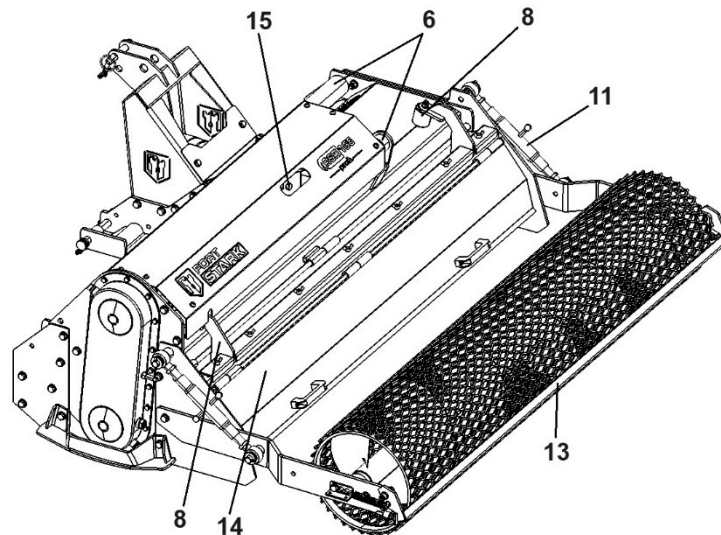


Figure 2b. Stone burier - general construction: 13 – scraper, 14 – rear guard, 15 – bevel gearbox

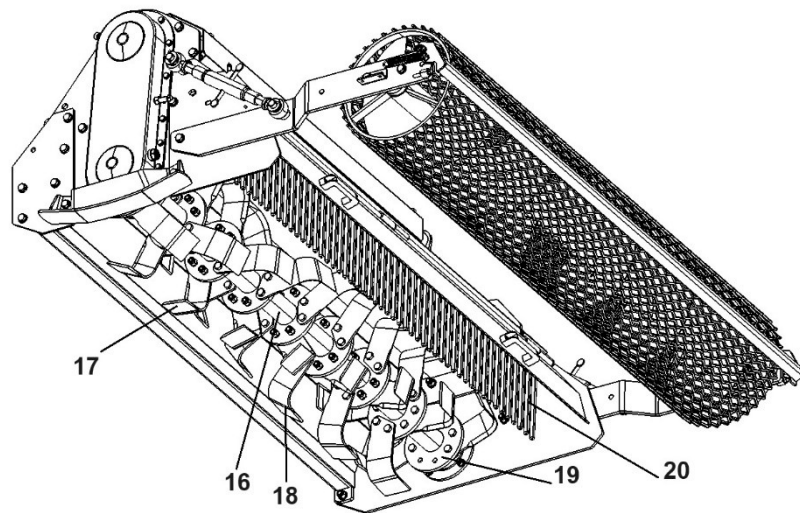


Figure 2c. Stone burier - general construction: 16 – rotor shaft, 17 – left tine, 18 – right tine, 19 – tine flange, 20 – screening rods

The body of the stone burier (1) is a welded assembly that forms a fixed guard for the rotor shaft (16). The frame with the hitch system (2), which features a Category 1N TPL hitch system (3 and 4), enables the machine to be mounted on the rear TPL of a narrow-track tractor. The frame with the hitch system is attached to two tubular guides (6), and it is possible to transversely change its position relative to the longitudinal axis of the tractor.

The rotor shaft with tine flanges (19), to which the left (17) and right (18) curved tines are bolted, is mounted on bearings in the side plates of the body. The rotor shaft in the stone burier rotates in the opposite direction to the tractor's direction of travel.

The rotor shaft of the stone burier is driven from the tractor's PTO via the PTO shaft, which is connected to the power input connection (PIC) shaft (7) constituting an element of the bevel gearbox (15), and further through the intermediate drive shaft (5) to the chain transmission (10). The chain transmission consists of two sprockets, a link chain, and a tensioning system located in a separate guard situated on the side of the machine. The lower part of the transmission guard is protected by a skid (9).

Soil screening rods (20) are mounted under the machine body. The direction of rotation of the tines causes the soil to be sifted through the system of rods, which act like a sieve, separating larger elements from the fine ones. The entire coarser fraction, such as stones, roots, and larger clods of earth, lands in the lower layer of the soil and is covered by the pulverized earth.

The stone burier is equipped with a bracket serving to support the PTO shaft when disconnected from the tractor.

A hinged guard (14) is located at the rear of the stone burier. Two shock-absorbing elements (8) are located in the upper part of the machine. The moment a larger stone or clod of earth gets under the curved tines, these elements cause the system of screening rods to deflect in order to minimize the risk of a blockage occurring.

The working depth of the stone burier is regulated using two adjusting screws (turnbuckles) (11), located on the sides of the machine, which change the position of the mesh roller (12). The mesh roller, which levels and compacts the loosened soil, is equipped with a scraper (13) that cleans the mesh roller and prevents it from being clogged with earth.

4.3. Equipment and accessories of the stone burier

The manufacturer delivers the stone burier for sale in an assembled state. Along with the machine, the manufacturer provides (standard equipment): a PTO shaft with a slip clutch, the stone burier operator's manual, and a warranty card.



REMEMBER

The operator's manual constitutes the basic equipment of the stone burier.

4.4. Preparation of the tractor for operation

Preparation of the tractor for operation with the stone burier consists of checking its general technical condition in accordance with the tractor's operator's manual (pay special attention to the proper operation of the braking system, suspension, and TPL lift). The stone burier must be hitched to the recommended narrow-track tractors equipped with standard front axle and rear wheel weights according to the data provided in the tractor's technical specifications. The agricultural tractor must be equipped with a complete and undamaged operator's cabin.

The air pressure, particularly in the tractor's rear tires, should be the same in both wheels and in accordance with the tractor's operator's manual. Before mounting the machine, the lower links of the tractor's hitch system should be set to the lower position at the same height (distance of the joints from the ground min. 200 mm). Links set at the same height from the ground facilitate mounting the stone burier on the tractor.

4.5. Preparation of the stone burier for operation

Preparation of the stone burier for operation and after a period of storage (e.g., after winter) consists of checking its technical condition, and above all, the durability of the connections of the working elements. If damage or wear of the elements is found, they must be replaced with new ones. Otherwise, this may cause a decrease in the quality of the machine's work.



ATTENTION!

All inspection activities on the stone burier must be performed before mounting it on the tractor.



ATTENTION!

It is prohibited for the operator to be in the space between the tractor and the machine with the tractor engine running. Danger to the life of the operator! The stone burier must be lifted smoothly, without jerks and vibrations.



ATTENTION!

When preparing the stone burier for operation, protective gloves must be worn - risk of injury!

In addition, the following should be performed:

- check the bolted connections; if looseness is found, tighten the nuts,
- check whether the rotor shaft rotates easily and without binding; if binding occurs, check the condition of the bearings and replace if necessary,
- check the condition of the curved tines; if damage is found, replace with new ones,
- check the condition of the rear guard,
- check the condition and setting of the mesh roller,
- check the oil level in the chain transmission and bevel gearbox,
- lubricate the stone burier according to the recommendations contained in the "Lubrication" chapter.

4.6. Hitching the stone burier to the tractor

When hitching the stone burier to the tractor, the following activities must be performed:

- drive the tractor sufficiently close to the machine,
- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- attach the tractor's lower links to the lower hitch points of the machine and secure them with standard linchpins
- connect the tractor's top link with a pin to the upper hitch point on the stone burier's hitch system frame and secure it with a standard linchpin,
- lightly tension the chains of the tractor's lower links, maintaining the symmetry of the machine's suspension relative to the tractor.

Disconnecting the machine from the tractor is performed in the reverse order of hitching; lower the machine to the ground, unsecure the pins of the lower links and the pin of the top link.



ATTENTION!

It is prohibited to connect the machine to the tractor with the tractor engine running. It is prohibited to use elements to secure the machine's hitch system other than those recommended by the manufacturer. This may threaten an accident or damage to the machine!

4.7 Rules for adjusting the stone burier

Before commencing work with the stone burier, it must be adjusted. This adjustment consists of setting the required working depth and the transverse and longitudinal leveling of the stone burier.

Changing the working depth of the stone burier is done by changing the position of the rear mesh roller. Each arm of the mesh roller is equipped with an adjusting screw (turnbuckle) for regulating the working depth. Attention must be paid to the equal length of both adjusting screws (turnbuckles) after the adjustment has been made.

Transverse leveling ensures an equal working depth across the entire width of the machine and is performed using the right lift rod of the tractor's hitch system. Longitudinal leveling ensures the machine frame is positioned parallel to the ground.

The longitudinal leveling of the machine is performed by shortening or lengthening the top link of the tractor's hitch system. With incorrect longitudinal leveling, damage to the PTO shaft may occur (shaft operating angle less than 25°).



ATTENTION!

It is prohibited to perform adjustments on the stone burier with the tractor engine running.

4.8 Operation of the stone burier

The stone burier may only operate with a power take-off (PTO) shaft equipped with a slip clutch. A correctly mounted and adjusted stone burier should, during operation, move evenly behind the tractor and maintain an equal working depth across the entire width of the machine. The working speed of the stone burier should be 3 - 4 km/h.



ATTENTION!

Before connecting the PTO shaft, its length in the working position must be checked. The length of the PTO shaft must be adjusted to the tractor according to the shaft manufacturer's recommendations, i.e., if the shaft is too long, the telescopic tubes must be shortened to the correct length. Shortening the shaft must be performed according to the instructions contained in the PTO shaft operator's manual.



REMEMBER

The telescopic tubes of the power take-off (PTO) shaft must overlap each other by at least 1/2 of their length under normal operating conditions and by at least 1/3 of their length under all extreme operating conditions. Even when the PTO shaft is not rotating, the telescopic tubes must overlap appropriately to avoid jamming.

Before commencing work, the following activities must be performed:

- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- perform longitudinal leveling using the top link,
- adjust the working depth,
- check the technical condition of the stone burier, especially the state of wear of the tines, the security of their mounting, the condition of the bolts and nuts securing the tines, the condition of the guards, and the correctness of the machine's attachment to the tractor,
- ensure that no bystanders (especially children) or animals are in the danger zone,
- check whether the rear flap is lowered,
- remove the PTO shaft from the bracket and connect it to the tractor's power take-off (PTO) shaft,
- attach the rotation limiters (chains) of the PTO shaft guard to the holders located on the cone guard, situated on the machine's bevel gearbox, and to fixed, stationary elements of the tractor.

After connecting the PTO shaft, it must be ensured that it is properly and safely connected to the tractor and to the machine. An improperly attached PTO shaft may be the cause of an accident!

Before commencing work, the terrain where the machine will operate must also be checked. If there are stones, thick branches, or hard objects on this terrain that could block or damage the machine, they must absolutely be removed.



REMEMBER

After finishing work, always turn off the tractor engine, remove the key from the ignition, disconnect the PTO shaft from the tractor, and place it on the bracket located on the machine.

**ATTENTION!**

Exercise extreme caution when working on sloping terrain and near ditches. No bystanders may be in the vicinity of the operating machine! Driving diagonally across a slope is prohibited due to the risk of the tractor and machine overturning! Never leave a running agricultural tractor unattended. When leaving the tractor-machine combination unattended, always turn off the tractor engine, remove the key from the ignition, and lower the machine to the ground.

**ATTENTION!**

It is prohibited to start the stone burier when it is raised upwards! Work with the machine can only be commenced when it is lowered just above the ground. Working with the machine with the rear flap raised is prohibited. There is a danger of thrown hard objects, which poses a threat to the health and life of the operator and bystanders!

**ATTENTION!**

Before starting the stone burier, ensure that no bystanders (especially children) or animals are in the danger zone. The machine operator is obliged to ensure proper visibility around the machine and the working area.

Before commencing work, a test drive must be performed to determine the best working parameters for the machine. The driving speed must be selected depending on the terrain conditions and the type of ground, as improper selection of the stone burier's working parameters may lead to damage to the machine.

The best results are obtained when the soil is not too wet. Operating the stone burier on excessively wet soils may lead to the clogging of the machine's rotor shaft and the mesh roller. After starting the stone burier, bring the rotor shaft to maximum rotational speed before the machine penetrates the ground. Work with the machine can only be commenced with the rotor shaft running! Starting a stone burier that is lowered to the ground or under load may cause its damage!

Work with the machine can only be commenced after the tractor's power take-off (PTO) shaft has reached nominal revolutions – see Table 7. Operating the machine at a tractor PTO speed other than that specified in Table 7 is prohibited - danger of machine damage!

**ATTENTION!**

Do not use the tractor's reverse gear during operation when the machine is in the working position – risk of machine damage!

During turns, the stone burier must be raised to the transport position and the rotor shaft drive must be turned off. Do not turn around during operation with the tines buried in the ground! Risk of machine damage!

5. TECHNICAL MAINTENANCE

To ensure long-lasting and trouble-free operation of the stone burier, the technical condition of the entire machine and the state of the bolted connections must be checked, and tightened if loose. After finishing work, the stone burier must be carefully cleaned.

Worn or damaged working elements must be replaced with new ones, and the following recommendations must be observed:

- all working elements must be replaced upon noticing wear or damage,
- observe the oil change intervals,
- check the condition and completeness of the guards,
- check the condition of the chain in the chain transmission.

For replacement, only original spare parts ensuring good quality must be used; this constitutes one of the conditions for maintaining the validity of the warranty.

5.1 Guidelines for maintaining the stone burier

Each time after finishing work, the stone burier must be cleaned of earth, after which an inspection of the connections of parts and assemblies must be carried out. Technical maintenance of the stone burier consists of checking the condition of the curved tines along with the securing bolts and nuts, as well as the fastening of bolted and pinned connections.

Lost, damaged, and worn parts must be replaced with new ones. All loose bolted connections must be tightened. Broken, damaged, bent, or worn curved tines must be replaced with new ones. The pins of the stone burier's hitch system should not be lubricated; they must be kept clean and dry.

If it is necessary to perform repairs, maintenance, cleaning, or adjustments under a raised machine, it must be secured against falling by a stable, strong, certified support stand and a chain.

5.2. Post-season maintenance

After finishing work, the machine must be carefully cleaned of debris and thoroughly washed, especially the bottom of the machine body. After cleaning, the entire machine must be inspected, and a visual inspection of the technical condition of individual elements must be carried out. Worn or damaged working elements must be replaced, and all loose bolted connections must be tightened.

Defects in the paint coating must be cleaned and replenished by covering them with a fresh layer of protective paint; then, the machine must be lubricated in accordance with the lubrication instructions.

During washing, a strong stream of water must not be directed at the warning pictograms and bearings. The pressure washer nozzle must be kept at a minimum distance of 30 cm from the cleaned surface.

5.3. Storage of the stone burier

After unhitching from the tractor, the stone burier should rest on the curved tines and the mesh roller. The machine should be stored under a roof on a flat, hard, level surface, in rooms with a temperature above 5°C and humidity not exceeding 70%. During storage, the rear guard should be set in its lowest bottom position. In the absence of a roofed area, storing the machine outdoors for a short period of time is permissible. During long-term storage of the machine outdoors, the preservation of the working elements must be repeated if the protective layer is washed away.

**ATTENTION!**

The stone burier should be stored in a place that does not pose a threat to people and the surroundings. During storage, the machine should rest on the curved tines and the mesh roller, and the rear guard should be set in its lowest bottom position. Improper positioning of the machine in the storage position may cause an accident – the machine overturning!

5.4. Replacing the curved tines

It may become necessary to replace the curved tines in the stone burier. For this purpose, hitch the machine to the tractor, raise it upwards, and secure it against falling with a stable, strong, certified support stand and a chain.

**ATTENTION!**

The replacement of the curved tines must be performed with the tractor engine turned off, the key removed from the ignition, the parking brake engaged, and the PTO shaft disconnected from the tractor. The tractor must be secured against rolling away. All activities related to the disassembly and assembly of the machine's working elements must be performed on a hard, level, stable surface, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against falling by a stable, strong, certified support stand and a chain.

**ATTENTION!**

It is prohibited to replace the curved tines under a raised machine that is not secured against falling! Danger of crushing!

**ATTENTION!**

The condition of the curved tines must be periodically checked. Damaged, bent, and worn curved tines must be replaced with new ones, as there is a risk of a damaged tine being thrown, which poses a threat to the health and life of the operator and bystanders.

All curved tines must be of the same type and have identical weight and dimensions. If necessary, the curved tines must be replaced with new ones.

**ATTENTION!**

The condition of the bolts and nuts securing the curved tines on the rotor shaft must be periodically checked. Destroyed, damaged, and worn bolts and nuts securing the tines must be replaced with new ones. The use of bolts with a strength class lower than 10.9 is unacceptable.

To replace the curved tines, one must (Fig. 3):

- hitch the machine to the tractor and raise it upwards,
- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- secure the machine against falling,
- disconnect the PTO shaft from the tractor,
- position the rotor shaft (1) so that the curved tine being replaced (2) is easily accessible,
- unscrew the nuts (3) and remove the securing bolts (4),
- replace the curved tine with a new one, paying attention to the correct installation of the cutting edge so that it corresponds to the direction of rotation of the rotor shaft (Fig. 4),
- insert the bolts and thread the nuts, remembering that the bolt heads must be on the side of the tine,
- gradually tighten the securing nuts until the tine is completely rigid,
- lower the machine to the ground.



ATTENTION!

During the replacement of working parts, appropriate tools and protective gloves must be used – risk of injury! When replacing worn or damaged parts, only original spare parts must be used. The use of non-original parts may cause improper operation of the machine or its damage! During the replacement of tines, attention must be paid to the correct mounting of individual tines so that the cutting edge corresponds to the direction of rotation of the rotor shaft.

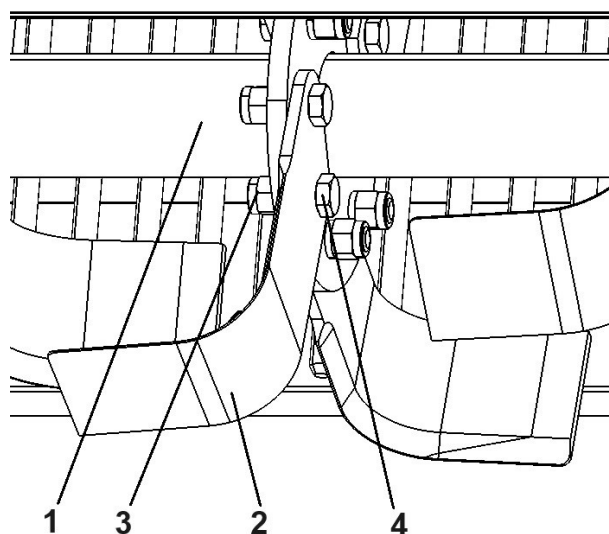


Figure 3. Replacement of curved tines: 1 – rotor shaft, 2 – curved tine, 3 – nut, 4 - bolt

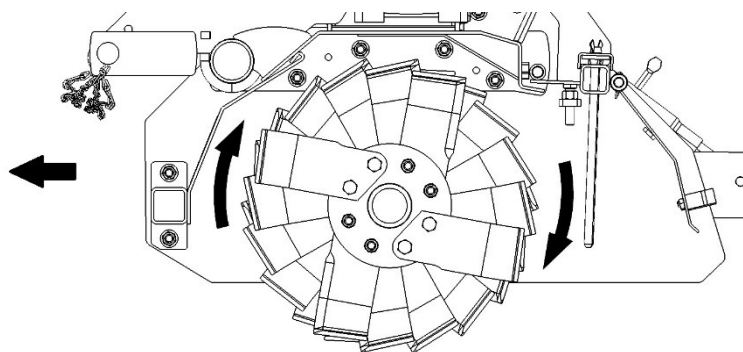


Figure 4. Direction of rotation of the rotor shaft with curved tines

**ATTENTION!**

An inspection of the condition of the curved tines and their mounting must also be carried out each time after running over a hard, solid obstacle, e.g., a stone, concrete, a metal element, etc.

The dimensions of the used curved tines are presented in Figure 5.

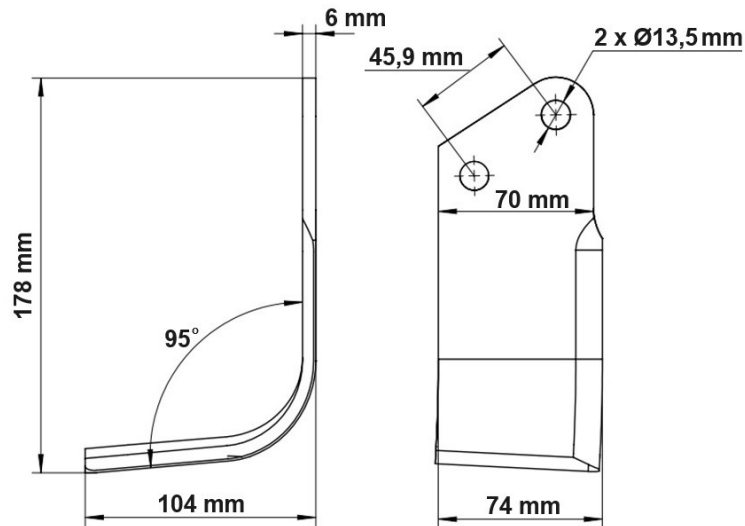


Figure 5. Dimensions of the curved tines

5.5 Adjusting the working depth

The working depth of the stone burier is regulated using two adjusting screws (turnbuckles), which change the position of the mesh roller.

**ATTENTION!**

The adjustment of the working depth must be performed with the tractor engine turned off, the key removed from the ignition, the parking brake engaged, and the PTO shaft disconnected from the tractor. The tractor must be secured against rolling away.

All activities related to adjusting the working depth must be performed on a hard, level, stable surface, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against falling by a stable, strong, certified support stand and a chain.

**ATTENTION!**

It is prohibited to adjust the working depth under a raised machine that is not secured against falling! Danger of crushing!

In order to adjust the working depth, one must (Fig. 6):

- hitch the stone burier to the tractor and raise it upwards,
- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- disconnect the PTO shaft from the tractor,
- level the machine using the top link (longitudinal leveling),
- secure the machine against falling,
- loosen the lock nuts (1),
- appropriately rotate the body of the adjusting screw (2) in order to set the required working depth,
- measure the distance between the centers of the two pins on which the adjusting screw is mounted (dimension "L"),
- after setting the required working depth, tighten the lock nuts against the body of the adjusting screw to lock its setting,
- lower the machine to the ground,
- connect the PTO shaft to the tractor.

Attention must be paid so that, after the adjustment has been made, the distance between the centers of the two pins on which the adjusting screw is mounted is the same on the left and right sides of the machine.

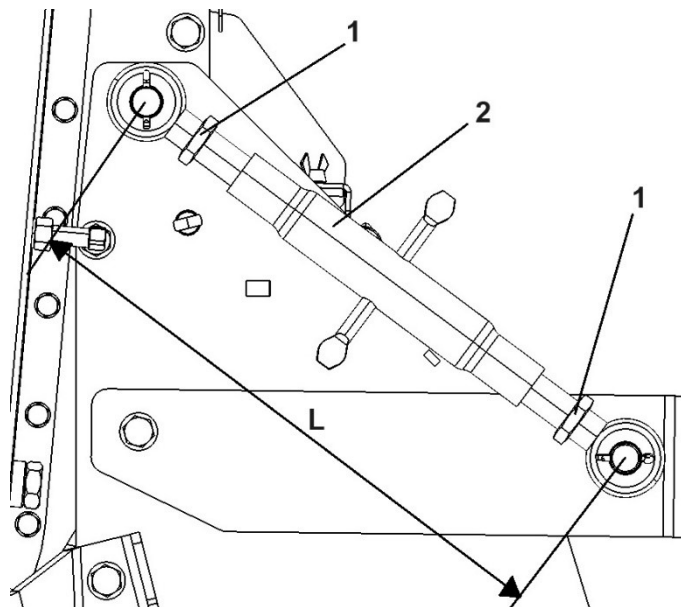


Figure 6. Working depth adjustment: 1 – lock nuts, 2 – adjusting screw body, L - distance between the centers of the two pins

Table 2 shows the relationship between the approximate working depth and the distance "L" between the centers of the two pins (Fig. 6) on which the adjusting screw (turnbuckle) is mounted.

Table 2. Relationship between the approximate working depth and the distance "L" between the centers of the two pins

Approximate working depth [mm]	Distance "L" between the centers of the two pins [mm]
10	392
20	390
40	385
60	380
80	375
100	369
120	363
140	357
160	353

5.7. Lubrication



ATTENTION!

All activities related to lubrication must be performed on a hard, level surface when the machine is not connected to the tractor, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against moving.



ATTENTION!

During lubrication, appropriate tools and protective gloves must be used – risk of injury! The use of unsuitable grease types may cause improper operation of the machine or its damage!

Basic maintenance activities include observing the lubrication intervals and using the appropriate grease types. Before lubricating, all lubrication points must be cleaned of dirt. All lubrication points on the machine are marked with appropriate pictograms and are indicated in Figure 7. The machine must be lubricated in accordance with Table 3.

Used lubricants must be handed over to designated collection points, where they undergo processing for reuse.

The lubrication frequency of the PTO shaft must also be observed according to its operator's manual. The PTO shaft must also be lubricated before and after the storage period. Before changing the transverse position of the frame with the hitch system, it is also recommended to coat the intermediate drive shaft near the bevel gearbox with solid grease, so that the change of position proceeds smoothly and without binding. After completing the lubrication work, excess grease or oil must be removed.

Table 3. Lubrication points

No.	Lubrication point	Frequency	Type of grease
1.	Rotor shaft bearing (on the right side)	every 8 hours of operation	solid grease LT 43
2.	Mesh roller bearings (left and right side)	every 8 hours of operation	solid grease LT 43

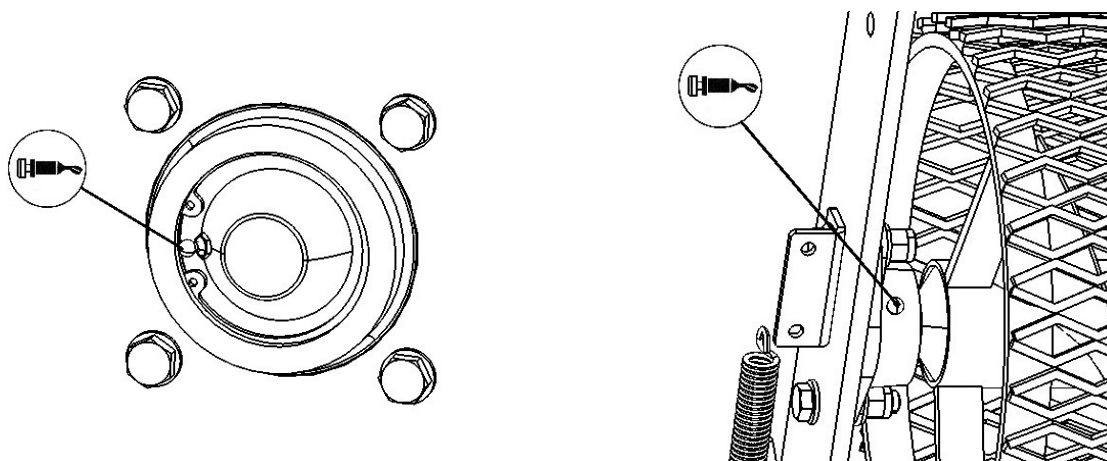


Figure 7. Points for lubrication with solid grease

5.7 Bevel gearbox maintenance



ATTENTION!

All activities related to the maintenance of the bevel gearbox must be performed on a hard, level surface when the machine is not connected to the tractor, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against moving.



ATTENTION!

During the maintenance of the bevel gearbox, appropriate tools and protective gloves must be used – risk of injury! The use of unsuitable oil types may cause improper operation of the machine or its damage!

Basic maintenance activities include checking and replenishing the oil level, as well as observing the oil change intervals in the bevel gearbox. The oil filler point for the bevel gearbox is marked with an appropriate pictogram and is indicated in Figure 8. The oil change in the bevel gearbox must be performed in accordance with Table 4.

Table 4. Oil replenishment/change points

No.	Maintenance point	Frequency	Type of oil
1.	Bevel gearbox	1st change after 20 hours. 2nd change after 60 hours. subsequent every 200 hours.	gear oil SAE 90EP (RSR 125 Profi – approx. 0,9 l) (RSR 145 Profi – approx. 0,9 l) (RSR 165 Profi – approx. 0,9 l)

The oil level in the bevel gearbox must be checked before each start of work, and if necessary, the oil must be absolutely replenished. During the oil level check, the machine should be leveled. The level plug is used to check the oil level; it must be unscrewed, and the oil should then reach the lower edge of the hole. Used oils must be handed over to designated collection points, where they undergo processing for reuse.



REMEMBER

The oil change is performed after prolonged operation of the machine, when the oil is warm (heated) but not hot! Protective goggles and appropriate protective gloves must be used due to the risk of burns!

Due to the running-in of new gears during operation, metal filings are generated, which accumulate in the bevel gearbox and then, mixing with the oil, can contribute to the faster wear of gear teeth and bearings. In order to remove the filings formed in the initial phase of the bevel gearbox operation, the intervals for the 1st and 2nd oil changes must be strictly observed. Before filling with new oil, the bevel gearbox must be flushed with machine oil in order to remove impurities.

When changing the oil in the bevel gearbox, the following activities must be performed (Fig. 8):

- set the machine on a hard, level surface and secure it against moving,
- unscrew the bolts of the intermediate drive shaft guard (1),
- remove the guard (2),
- unscrew the filler/level plug (3),
- place a container for the used oil under the drain plug (4),
- unscrew the drain plug,
- drain the old oil from the gearbox into the container,
- screw in the drain plug,
- pour machine oil into the gearbox,
- flush the gearbox with machine oil by turning the rotor shaft manually several times,
- unscrew the drain plug,
- drain the contaminated machine oil,
- screw in the drain plug,
- fill the bevel gearbox with new gear oil up to the lower edge of the filler/level plug hole,
- screw in the filler/level plug,
- install the intermediate drive shaft guard and secure it with bolts.

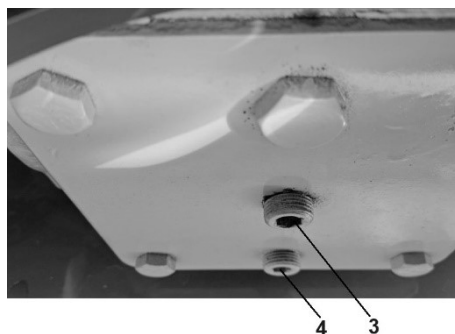
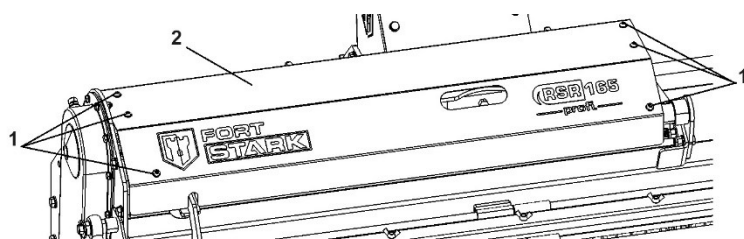


Figure 8. Oil change in the bevel gearbox: 1 – guard bolts, 2 – intermediate drive shaft guard, 3 – filler/level plug, 4 – drain plug

5.8 Chain transmission maintenance

Basic maintenance activities include checking and replenishing the oil level, as well as observing the oil change intervals in the chain transmission.

5.8.1 Checking the oil level



ATTENTION!

All activities related to checking the oil level in the chain transmission must be performed on a hard, level surface when the machine is not connected to the tractor, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against moving.

The oil level in the chain transmission, located on the left side of the machine, must be checked before each start of work, and if necessary, the oil must be absolutely replenished. The level plug with a sight glass (Fig. 9) is used to check the oil condition. The oil level should be visible through the sight glass. During the oil condition check, the stone burier should be leveled.

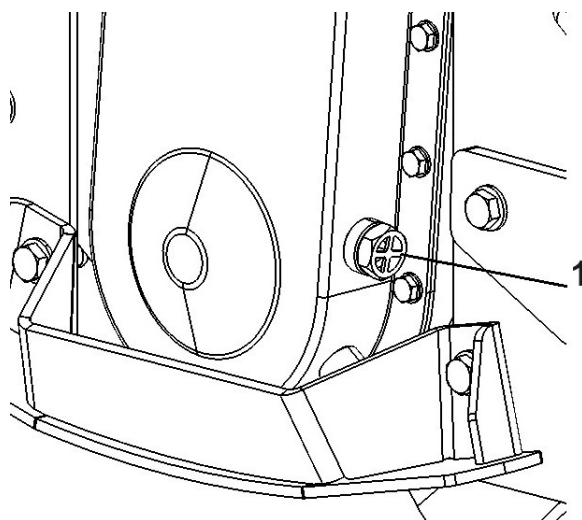


Figure 9. Oil level in the chain transmission: 1 – level plug with sight glass

5.8.2 Oil change



REMEMBER

The oil change is performed after prolonged operation of the machine, when the oil is warm (heated) but not hot! Protective goggles and appropriate protective gloves must be used due to the risk of burns!



ATTENTION!

All activities related to the oil change in the chain transmission must be performed on a hard, level surface and with the tractor engine turned off. During the oil change in the chain transmission, the machine must be secured against falling by a stable, strong, certified support stand and a chain.



ATTENTION!

During the oil change in the chain transmission, appropriate tools and protective gloves must be used – risk of injury! The use of unsuitable oil types may cause improper operation of the machine or its damage!

The oil filler point for the chain transmission is marked with an appropriate pictogram and is indicated in Figure 10, item 4. The periodic oil change in the chain transmission must be performed in accordance with Table 5.

Table 5. Oil replenishment/change points

No.	Maintenance point	Frequency	Type of oil
1.	Bevel gearbox	1st change after 20 hours. 2nd change after 60 hours. subsequent every 200 hours.	gear oil SAE 90EP (RSR 125 Profi – approx. 0,8 l) (RSR 145 Profi – approx. 0,8 l) (RSR 165 Profi – approx. 0,8 l)

When changing the oil in the chain transmission, the following activities must be performed (Fig. 10):

- hitch the machine to the tractor and raise it upwards,
- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- secure the machine against falling,
- disconnect the PTO shaft from the tractor,
- remove the side skid (1) by unscrewing the two bolts with nuts (2),
- place a container for the used oil under the drain plug (3),
- unscrew the filler plug (4) and the drain plug,
- after the used oil has flowed out, screw in the drain plug,
- flush the transmission with machine oil by turning the rotor shaft manually several times,
- unscrew the drain plug and drain the contaminated machine oil,
- screw in the drain plug,
- fill the transmission with new gear oil up to the level of the level plug (5), until it is visible through the sight glass,
- screw in the filler plug,
- install the side skid and secure it with bolts and nuts,
- connect the PTO shaft to the tractor,
- lower the machine to the ground.

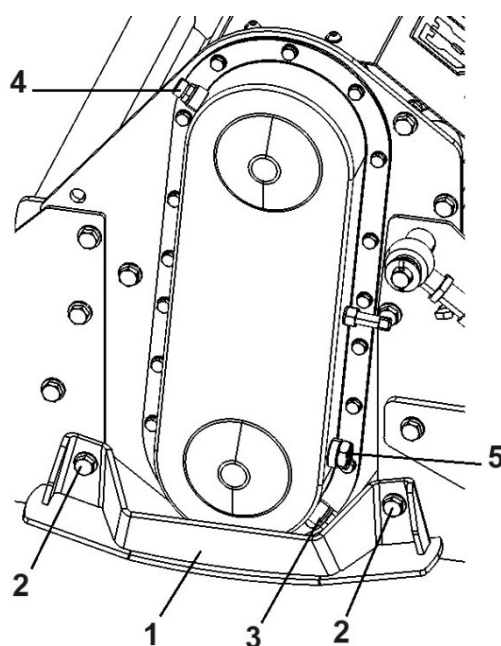


Figure 10. Oil change in the chain transmission: 1 – side skid, 2 – bolts with nuts, 3 - drain plug, 4 - filler plug, 5 - level plug with sight glass

5.8.3 Adjusting the transmission chain tension

Basic maintenance activities on the chain transmission also include checking the chain tension. An adjusting screw, whose setting is locked by a lock nut, is used to adjust the chain tension.



ATTENTION!

All activities related to adjusting the transmission chain tension must be performed on a hard, level surface when the machine is not connected to the tractor, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against moving.



ATTENTION!

During the maintenance of the chain transmission, appropriate tools and protective gloves must be used – risk of injury!

In order to adjust the transmission chain tension, one must (Fig. 11):

- set the machine on a hard, level surface and secure it against moving,
- loosen the lock nut (1),
- check the length of the protruding thread of the adjusting screw (2),
- the correct length of the protruding thread of the adjusting screw should be approx. 15 mm; if there is a need, an adjustment must be made,
- hold the head of the adjusting screw with a wrench and tighten the lock nut.

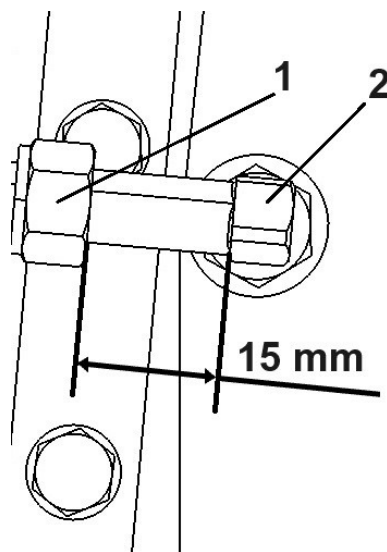


Figure 11. Adjusting the transmission chain tension: 1 – lock nut, 2 – adjusting screw

5.8.4 Replacing the transmission chain or tensioner

In the event of damage to the chain or the inability to increase the transmission chain tension, the chain must be replaced with a new one. In the event of damage to the tensioner or its wear, the tensioner must be replaced with a new one.



ATTENTION!

All activities related to the replacement of the chain or tensioner in the chain transmission must be performed on a hard, level surface and with the tractor engine turned off. During the replacement of the chain or tensioner in the chain transmission, the machine must be secured against falling by a stable, strong, certified support stand and a chain.



ATTENTION!

During the replacement of the transmission chain or tensioner, appropriate tools and protective gloves must be used – risk of injury! The use of unsuitable spare parts may cause improper operation of the machine or its damage!

In order to replace the transmission chain or tensioner, one must (Fig. 12):

- hitch the machine to the tractor and raise it upwards,
- **turn off the tractor engine, remove the key from the ignition, and engage the parking brake,**
- secure the machine against falling,
- disconnect the PTO shaft from the tractor,
- remove the side skid (1) by unscrewing the two bolts with nuts (2),
- place a container for the oil under the drain plug (3),
- unscrew the filler plug (4) and the drain plug,
- after the oil has flowed out, screw in the drain plug and the filler plug,
- loosen the lock nut (5),
- unscrew the chain tension adjusting screw (6),
- unscrew the bolts securing the chain transmission guard (7),
- remove the chain transmission guard (8) (verify the condition of the guard seal, and if it is damaged, install a new seal),
- unfasten the transmission chain (9) by unsecuring and removing the connecting link,
- remove the chain from the sprockets and visually inspect it (if it is worn or damaged, it must be replaced with a new one),
- remove the cotter pin (10) securing the tensioner,
- remove the tensioner (11) and visually inspect it (if it is worn or damaged, it must be replaced with a new one),
- install the tensioner and secure it with the cotter pin,
- install the chain and fasten it using the connecting link,
- secure the chain connecting link,
- install the transmission guard and secure it with bolts,
- fill the transmission with oil,
- screw in the chain tension adjusting screw together with the lock nut,
- set the required transmission chain tension (see point 5.8.3),
- install the side skid and secure it with bolts and nuts,
- connect the PTO shaft to the tractor,
- lower the machine to the ground.

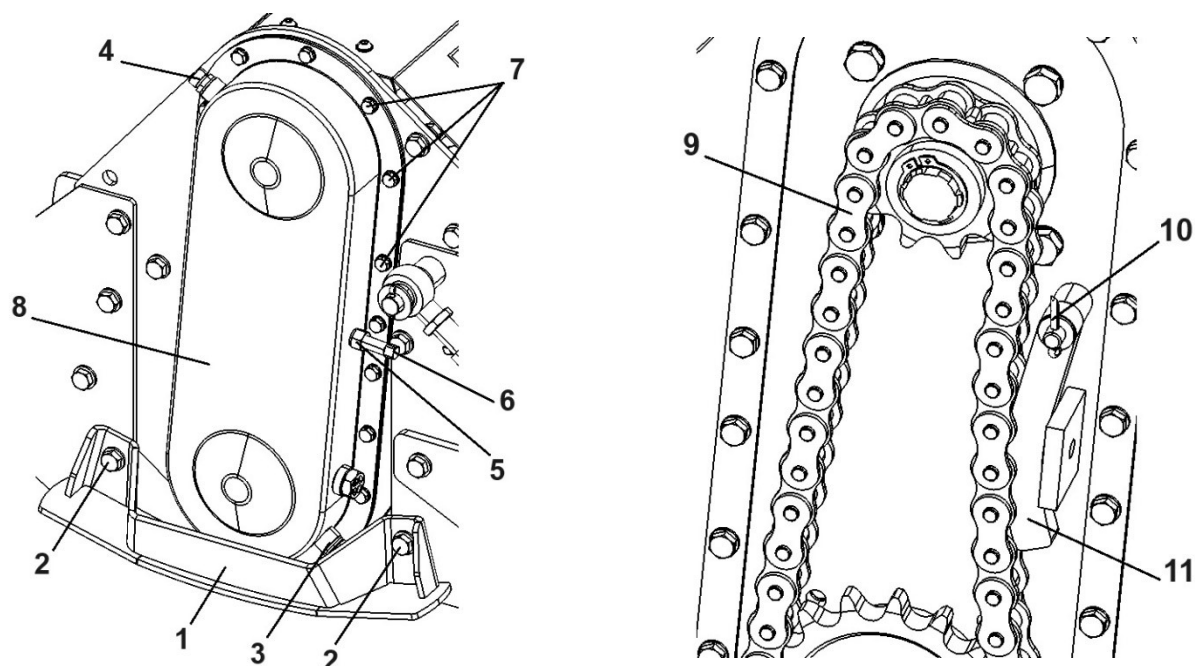


Figure 12. Replacing the chain or tensioner in the chain transmission: 1 – side skid, 2 – bolts with nuts, 3 - drain plug, 4 - filler plug, 5 – lock nut, 6 – chain tension adjusting screw, 7 - bolts securing the chain transmission guard, 8 – chain transmission guard, 9 – transmission chain, 10 – cotter pin securing the tensioner, 11 - tensioner

5.9 Changing the transverse position



ATTENTION!

All activities related to changing the transverse position of the frame with the hitch system must be performed on a hard, level surface when the machine is not connected to the tractor. The machine must be secured against moving. During the change of the transverse position of the frame with the hitch system, appropriate tools and protective gloves must be used – risk of injury! It is recommended that the change of the transverse position of the frame with the hitch system be performed by two people.

The stone burier has the capability of changing its transverse position, thanks to which the setting of the machine behind the tractor can be adjusted. The permissible range for changing the lateral position of the frame with the hitch system is 120 mm (Fig. 13).

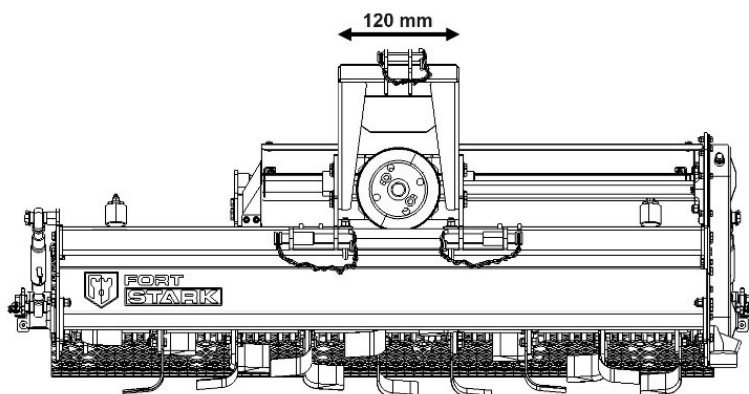


Figure 13. Permissible range for changing the lateral position of the frame with the hitch system

In order to change the transverse position of the stone burier, one must (Fig. 14):

- unscrew the bolts (1) securing the PIC cone guard,
- remove the PIC cone guard (2),
- loosen the four nuts of the clamping brackets (3),
- change the position of the frame with the hitch system (4),
- tighten the nuts of the clamping brackets,
- install the PIC cone guard and secure it with bolts.

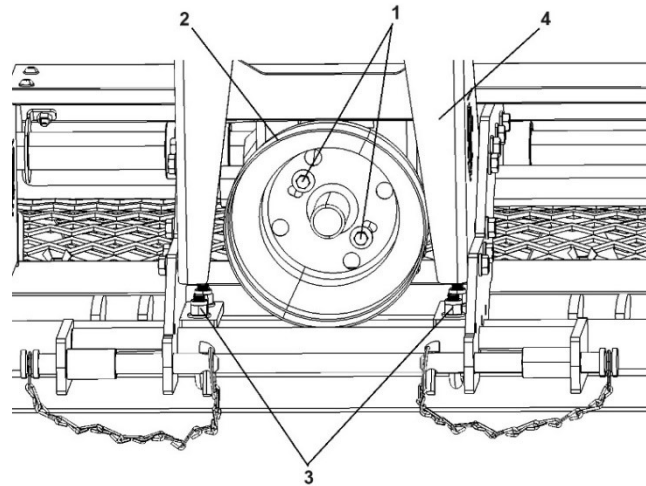


Figure 14. Changing the transverse position of the frame with the hitch system: 1 – bolts securing the PIC cone guard, 2 – PIC cone guard, 3 – clamping bracket nuts, 4 – frame with hitch system

5.10 Adjusting the mesh roller scraper

At the rear of the stone burier is a mesh roller, which serves to regulate the working depth of the machine and simultaneously levels and compacts the ground, preparing it for further cultivation (e.g., when establishing lawns).

The mesh roller is equipped with a scraper that cleans the mesh roller and prevents it from being clogged with earth. The scraper is made of a metal angle bar together with a pressure system, in which the main element is a spring.



ATTENTION!

All activities related to the maintenance of the mesh roller must be performed on a hard, level surface when the machine is not connected to the tractor. During the maintenance of the mesh roller, appropriate tools and protective gloves must be used – risk of injury! The machine must be secured against moving.

In order to adjust the position of the scraper, one must (Fig. 15):

- set the machine on a hard, level surface and secure it against moving,
- loosen the lock nut (1),
- use the adjusting screw (2) to set the appropriate position of the scraper (3) relative to the mesh roller (4) (so that the scraper does not rub against the mesh roller),
- hold the head of the adjusting screw with a wrench and tighten the lock nut.

Attention must be paid so that, after the adjustment has been made, the gap between the mesh roller and the edge of the scraper is the same across the entire width of the mesh roller.

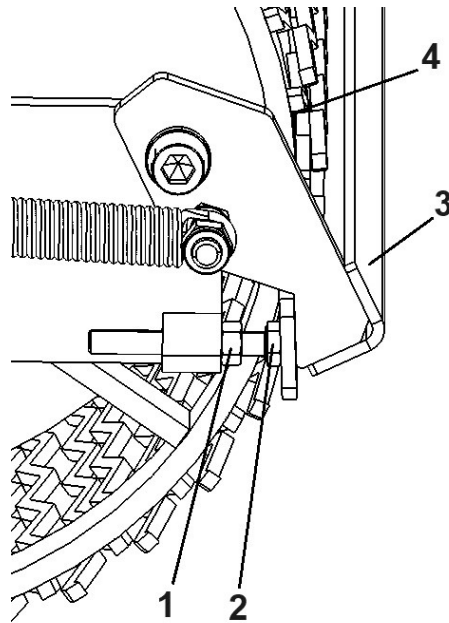


Figure 15. Adjusting the scraper position: 1 – lock nut, 2 – adjusting screw, 3 – scraper, 4 – mesh roller

In order to adjust the scraper's contact pressure, one must (Fig. 16):

- set the machine on a hard, level surface and secure it against moving,
- unscrew the nut (1),
- remove the bolt (2) together with the adjusting bracket (3), to which one end of the spring (4) is attached,
- select the appropriate adjusting hole (5) in the bracket,
- insert the bolt into the selected adjusting hole of the bracket,
- insert the bolt together with the bracket into the hole in the arm (6) mounting the mesh roller (7),
- thread and tighten the nut.

Attention must be paid so that, after the adjustment has been made, the distance between the centers of the two pins on which the adjusting screw is mounted is the same on the left and right sides of the machine.

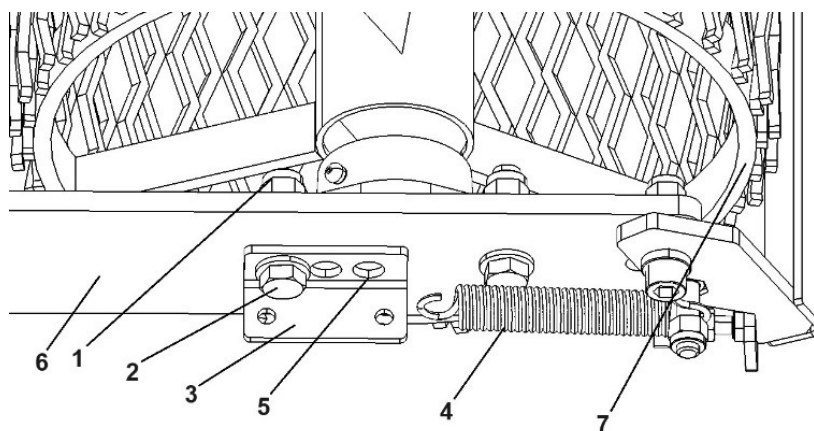


Figure 16. Adjusting the scraper's contact pressure: 1 – nut, 2 – bolt, 3 – adjusting bracket, 4 – spring, 5 – adjusting hole, 6 – arm mounting the mesh roller, 7 – mesh roller

5.11 Screening rods

The stone burier is equipped with screening rods, which separate the soil from other elements located in the ground. The entire coarser fraction, such as stones, roots, and larger clods of earth, lands on the first lower layer of soil and is covered by the pulverized earth.

The direction of rotation of the tines, which is opposite to the tractor's direction of travel, causes the soil to be sifted through the screening rods, which act like a sieve, separating larger elements from the fine ones. In the event of damage to or bending of the screening rods, they must be replaced with new ones.



ATTENTION!

All activities related to the replacement of the screening rods must be performed on a hard, level surface when the machine is not connected to the tractor, using appropriate safeguards and protective equipment (e.g., protective gloves and footwear). The machine must be secured against moving. Due to the necessity of being between the rear flap and the mesh roller during the replacement of the screening rods, extreme caution must be exercised – risk of injury, tripping, and falling!



ATTENTION!

During the replacement of the screening rods, appropriate tools and protective gloves must be used – risk of injury! The use of unsuitable spare parts may cause improper operation of the machine or its damage!



ATTENTION!

The condition of the screening rods must be periodically checked. Damaged, bent, or worn screening rods must be replaced with new ones.

In order to replace the screening rods, one must (Fig. 17):

- set the machine on a hard, level surface and secure it against moving,
- unscrew the wing bolts (1),
- remove the clamping elements of the screening rods (2) (elements made of a channel section and a flat bar),
- remove the damaged screening rods (3),
- insert new screening rods into the sockets,
- mount the clamping elements of the screening rods in the correct order,
- tighten them with the wing bolts.

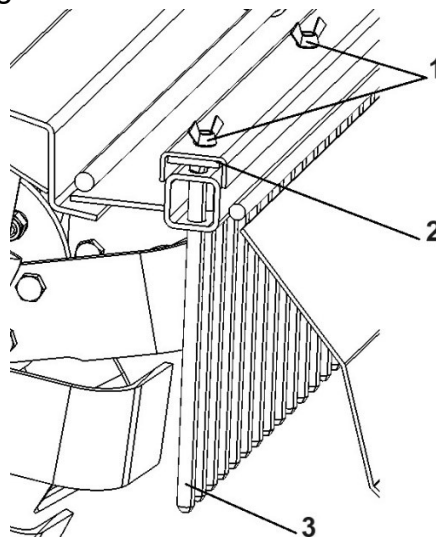


Figure 17. Replacing the screening rods: 1 – wing bolts, 2 - screening rod clamping elements, 3 – screening rods

5.12. Clearing blockages



ATTENTION!

All blockages occurring during machine operation that require operator intervention must be cleared after turning off the tractor engine, removing the key from the ignition, engaging the parking brake, and disconnecting the PTO shaft from the tractor. The tractor must be secured against rolling away. During the clearing of blockages, protective gloves must be worn - risk of injury! Clearing blockages with the tractor engine running may cause the operator to be drawn in or entangled! Danger to the health and life of the operator!



ATTENTION!

All activities related to clearing blockages must be performed on a hard, level, stable surface, using appropriate safeguards and protective equipment (e.g., gloves). The machine must be secured against falling by a stable, strong, certified support stand and a chain.



ATTENTION!

Do not use the tractor's reverse gear during operation when the machine is in the working position. The machine must be lifted smoothly, without jerks or vibrations.



ATTENTION!

In the case of clearing blockages with the rear flap raised, the flap must always be secured against falling!

If a blockage with plant residues occurs during operation, turn off the machine drive (tractor PTO shaft), lift the machine upwards, reverse a few meters backward, lower the machine just above the ground, turn on the machine drive again, and moving slowly forward, continue working. If the rotor shaft with curved tines still does not rotate, proceed to clean the rotor shaft according to the description below.

In the event of plant material wrapping around the rotor shaft, one must:

- absolutely stop the tractor,
- turn off the tractor's power take-off (PTO) shaft drive,
- lift the machine upwards to ensure easy access to the rotor shaft,
- turn off the tractor engine,
- remove the key from the ignition,
- engage the parking brake,
- disconnect the PTO shaft from the tractor,
- secure the machine against falling,
- proceed to clean the rotor shaft.

5.13. Troubleshooting

During operation, malfunctions may occur that can adversely affect the quality of the stone burier's work, increase the costs of the operation, and also lead to damage to both the machine and the tractor. In the event of unexpected failures or faults, stop work immediately and turn off the tractor engine.

The operator should contact the manufacturer; contact details are provided on the cover of the operator's manual. Possible causes of malfunctions and methods for their elimination are presented in Table 6.



REMEMBER

Operating a malfunctioning and poorly adjusted machine may lead to serious hazards for the operator and bystanders and lead to damage to the machine. Observed malfunctions and damage must be eliminated immediately.

Table 6. Causes of malfunctions and methods for their elimination

Symptoms	Cause	Method of elimination
The front of the tractor tends to lift	Too little weight on the front. IMPORTANT: The load on the front axle of the tractor must not be less than 20% of its unladen weight.	Check if the tractor power complies with the recommendations in the operator's manual. If not – change the tractor. If yes – check and if necessary add an appropriate number of front axle weights.
The stone burier will not penetrate the ground	Damaged or worn tines	Check and replace damaged or worn tines
	Mesh roller lowered too far	Check and adjust the working depth
Uneven working depth	Improperly adjusted turnbuckles	Check and make the appropriate adjustment
The rotor shaft does not rotate	Damaged chain transmission	Check the condition of the chain and replace if necessary
	Hard object under the body	Stop work and clear the blockage
	Damaged bevel gearbox	Check the transmission chain tension and adjust if necessary
Noisy operation of the chain transmission	Incorrect chain tension	Check the condition of the gears and replace damaged ones
	Low oil level in the transmission	Check the oil level and replenish if necessary
Transverse swaying of the stone burier	Improperly adjusted sway blocks/chains of the lower links	Check and adjust

After eliminating the fault, the correct operation of the unloaded machine must be checked, i.e., perform a short test run to ensure that all machine assemblies are functioning properly.

6. TRANSPORT

6.1. Transporting the stone burier on means of transport



ATTENTION!

When loading the machine onto means of transport, ropes or chains must only be attached in the places marked by the manufacturer with pictograms. During transport and movement, extreme caution must always be exercised. It is prohibited for persons to be under a raised machine and in the maneuvering zone! Danger of crushing!

Stone buriers can be transported from the manufacturer to the dealer or customer and to the workplace on a transport trailer. Stone buriers are transported to the dealer or customer assembled, ready for operation. The machines must be loaded onto the means of transport using lifting/hoisting equipment after attaching ropes or chains in the places marked by the manufacturer with appropriate pictograms and indicated in Figure 18. The stone buriers along with their equipment should be secured on the means of transport; the person transporting is responsible for the proper fastening and securing of the machine.

The machine should be fastened on the means of transport using belts or chains equipped with a tensioning mechanism. The fastening means must have a valid safety certificate. In order to keep the raised machine in the correct orientation, it is recommended to use an additional guy line.

Lifting equipment with a lifting capacity greater than the machine weight specified on the nameplate must be used. This also applies to the ropes or chains used for lifting. During the loading and unloading of the machine, the general occupational health and safety rules for handling operations must be observed. Persons operating handling equipment must possess the required qualifications to use these devices.

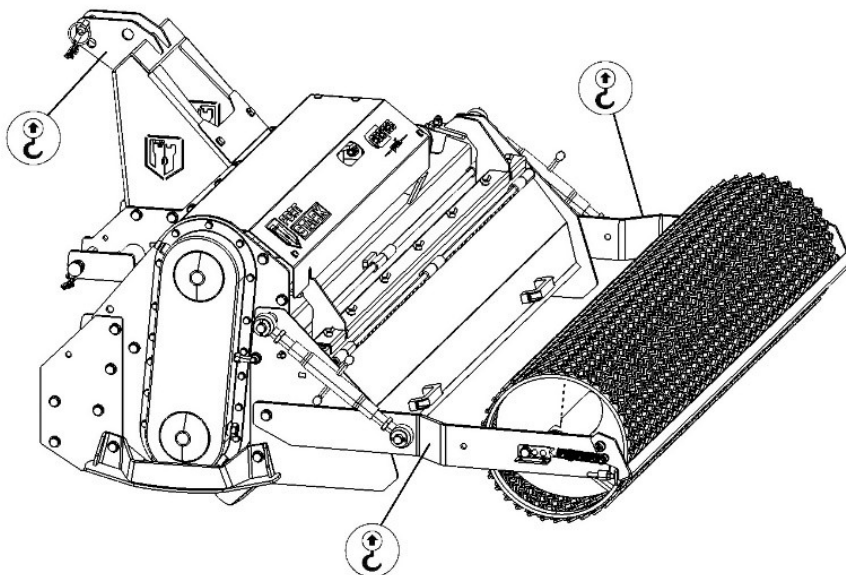


Figure 18. Attachment points for lifting equipment

The location of the machine's center of gravity is presented in Figure 19.

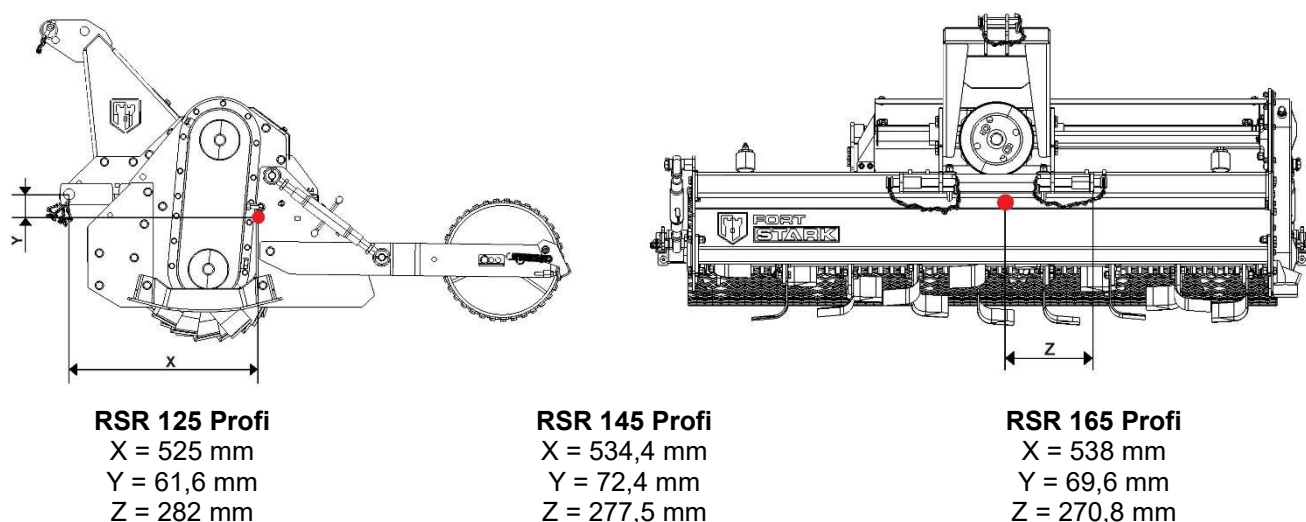


Figure 19. Location of the center of gravity

6.2. Transporting the stone burier on a tractor

The stone burier suspended exclusively on the rear TPL of the tractor may only be transported on non-public roads.

For the duration of transport, the machine should be lifted upwards to a position ensuring the required transport clearance (min. 300 mm).

The tractor on which the machine is suspended should meet the stability requirements – see Annex A of this manual.

The machine must be transported to the workplace on other means of transport. Driving a tractor with a suspended machine on public roads may cause a traffic accident!

The driving speed of the tractor with the suspended machine on non-public roads must always be adapted to current road and weather conditions.

For the duration of transport journeys, the power take-off (PTO) shaft must be disconnected from the tractor and placed on the bracket. It is prohibited to use the PTO shaft chains (PTO guard rotation limiters) to support the shaft during storage or transport of the machine on the tractor.



ATTENTION!

When making a turn, special attention must be paid to the "swing" of the machine. Risk of collision!



ATTENTION!

Journeys on public roads with a tractor and suspended machine are prohibited. Driving a tractor with a suspended machine on public roads and driving at an excessive speed may cause an accident! Transporting people, animals, and objects on the machine is prohibited.



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7. DISASSEMBLY



ATTENTION!

All activities related to the disassembly of the machine must be performed on a hard, level surface when the machine is not connected to the tractor. During the disassembly of the machine, appropriate tools and protective gloves must be used – risk of injury! The machine must be secured against moving.



ATTENTION!

Before commencing the disassembly of the machine, the oil must be completely drained from the bevel and chain gearboxes!

The disassembly of the machine should be carried out by persons previously acquainted with its construction. These activities must be performed after positioning the machine on a level and hard surface while using personal protective equipment - gloves. In the case of worn elements, proceed in accordance with the "Disposal" section. Due to the weight of some machine elements exceeding 20 kg, lifting/hoisting equipment must be used during disassembly.



ATTENTION!

The hoisting equipment used during disassembly may only be operated by a person possessing appropriate authorizations and qualifications.

All fasteners are made of standardized elements adapted for metric wrenches. Free spaces are provided for the movement of wrenches to ensure the free unscrewing of bolts and nuts.

During disassembly, appropriate tools must be used, as well as necessary personal protective equipment, such as protective clothing, footwear, gloves, safety glasses, etc. Avoid contact of oil with the skin. Do not allow oil to spill. Danger of slipping!

8. DISPOSAL

If the user makes the decision to scrap the machine, they must comply with the regulations regarding the scrapping and recycling of decommissioned machinery in the specific country where the machine was used.

Before commencing the disassembly of the machine, the oil must be completely drained from the bevel and chain gearboxes. Oils and lubricants must be handed over through a network of collection points, where they undergo processing for reuse. Plastic elements must be handed over to points dealing with the utilization of this type of material.

The scrapping of the stone burier must be carried out after its prior complete disassembly and the verification of the machine elements. During disassembly, parts must be grouped according to the type of material. Ferrous metal elements must be handed over, grouped together, to scrap metal purchasing points.



REMEMBER

Burning plastic materials in devices not adapted for this purpose leads to environmental pollution and violates applicable regulations.

9. TECHNICAL SPECIFICATIONS

The technical data of the stone buriers are presented below in Table 7.

Table 7. Technical specifications

Specification	Unit of measure	Manufacturer's data		
Model	-	RSR 125 Profi	RSR 145 Profi	RSR 165 Profi
Working width	mm	1250	1450	1650
Machine type	-	mounted		
Working depth	mm	min. 10, max. 160		
Overall dimensions:				
- length	mm	1445	1445	1445
- width	mm	1505	1705	1905
- height	mm	895	895	895
Machine weight	kg	341	371	399
Working elements:				
- tine type	-	curved		
- number of rotor shaft flanges	pcs.	7	8	9
- total number of tines	pcs.	24	28	32
Power requirement:				
- tractor power	kW	min. 34 – max. 40,8	min. 38 – max. 54,4	min. 47,6 – max. 61,2
Hitch system category	-	1 N		
Working speed	km/h	3 - 4		
Transport speed	km/h	30 - 40		
Transport clearance	mm	min. 300		
Operators	persons	1		
Transverse shift of the frame with hitch system	mm	120		
Chain transmission:				
- number of chains	pcs.	1		
- chain length	mm	1016		
- number of links	pcs.	20		
- inner width of the link for the sprocket	mm	15,75		
- length of a single link	mm	25,4		
Screening rods:				
- diameter	mm	12		
- length	mm	260		
Power take-off (PTO) shaft:				
- torque	Nm	900		
- transmitted power	kW	50,9		
- connection (splines)				
- on the tractor side	-	6		
- on the machine side	-	6		
- nominal PTO speed	rpm	540		
- PTO shaft length	mm	800		
- slip clutch	-	Yes		
The used PTO shafts must possess the CE mark.				

The geometric dimensions and weights specified in the technical specifications are provided with an accuracy of $\pm 1\%$.

ANNEX A: STABILITY OF THE TRACTOR-MACHINE COMBINATION

This chapter draws the user's special attention to information concerning the influence of the weight of a mounted machine on the maneuverability and stability of the tractor. It highlights the possibility of loss of tractor steering control due to the weight of the machine mounted at the rear on the tractor's three-point hitch. The tractor should be equipped with a sufficient number of front weights to ensure proper steering and braking performance. The load on the front axle of the tractor with a machine mounted on the rear hitch must be at least 20% of the tractor's own weight (see Figure A).

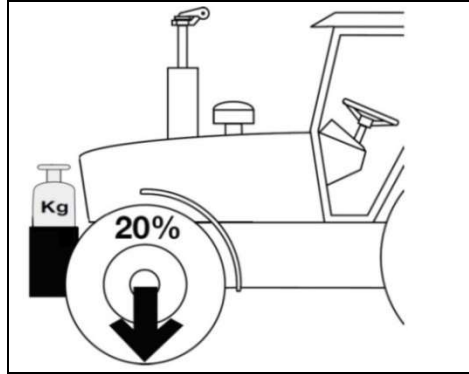


Figure A. Minimum load on the tractor front axle

It must be remembered that the road surface and the machine mounted on the rear TPL of the tractor affect the driving characteristics. The driving speed must be adapted to the terrain conditions and the type of surface (type of soil). When making turns with a mounted or trailed machine, special attention must be paid to the "swing" of the machine.

The tractor with the mounted machine **must strictly meet** the condition of safe stability, i.e., the load on the front axle of the tractor must be equal to or greater than 20% of the tractor's unladen weight

[$W_s \geq 20\%$]. To calculate the stability index W_s , it is first necessary to measure the tractor's axle loads. We must weigh the tractor itself ready for operation T_c , and then weigh the front axle load of the tractor T_p with the machine mounted on the rear three-point linkage. Having the individual weights, we can calculate the steering ratio from the formula:

$$W_s = \frac{T_p}{T_c} \times 100 \geq 20\%$$

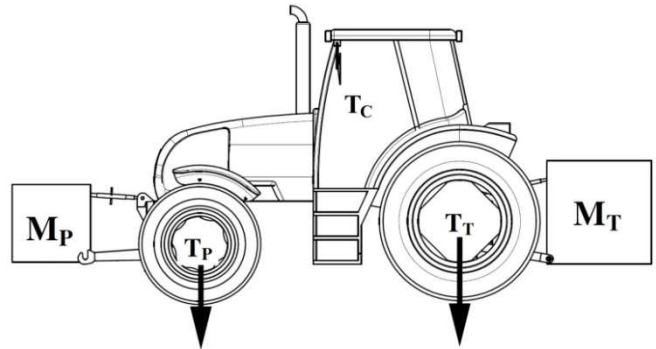


Figure B. Determination of the unit stability

- W_s [%] - stability coefficient
- T_c [kg] - empty tractor weight
[$T_{P1} + T_{T1}$ – tractor axle loads without machine, ready for operation]
- T_p [kg] - load on the front axle of the loaded tractor
- T_T [kg] - load on the rear axle of the loaded tractor
- M_T [kg] - total weight of the rear-mounted machine
- M_P [kg] - total weight of the front weights

If the front axle load of the tractor with the machine attached to the rear three-point linkage is too low ($W_s < 20\%$), it is **essential** to increase the weight of the front weights M_p in order to increase the front axle load of the tractor and to achieve a steering ratio above 20%.

MACHINE HANDOVER PROTOCOL

The protocol constitutes an integral part of the warranty card.

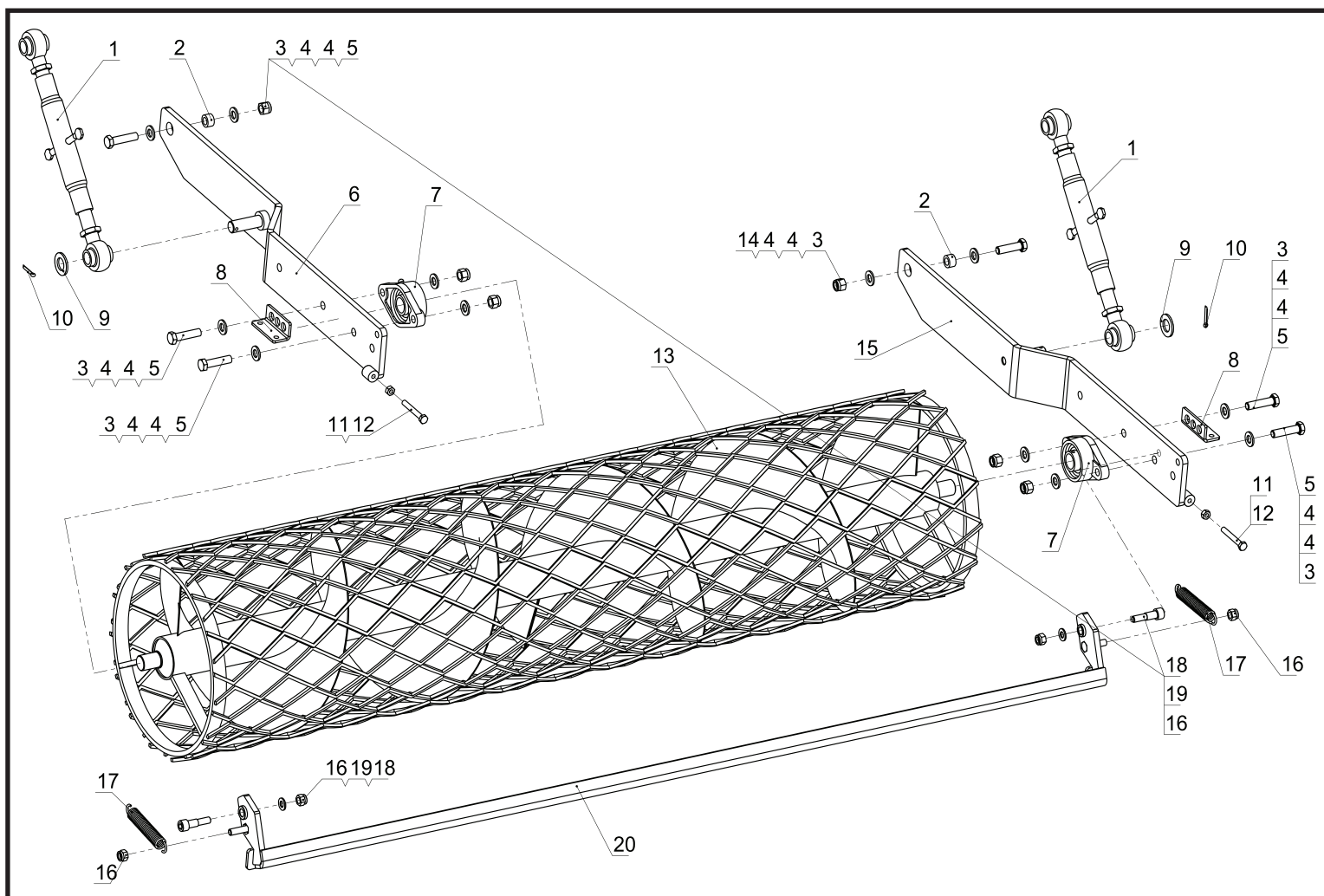
Failure to correctly or legibly complete the protocol results in the loss of warranty! The parties signing this protocol (seller and purchaser) hereby declare:

- The machine is delivered to the purchaser in an assembled state and ready for operation
- The purchaser has been informed by the seller about the proper handling of the machine, its operation and maintenance, as well as the applicable occupational health and safety regulations, in accordance with the operator's manual provided to the purchaser
- The purchaser has been informed by the seller about the warranty conditions
- The purchaser confirms receipt of the operator's manual

SELLER	BUYER
FIRST NAME	FIRST NAME
LAST NAME	LAST NAME
STREET	STREET
CITY	CITY
SIGNATURE AND DATE	SIGNATURE AND DATE

THE SELLER IS OBLIGED TO KEEP THE MACHINE HANDOVER PROTOCOL PROPERLY COMPLETED AND SIGNED.

ASSEMBLY DRAWING LIST

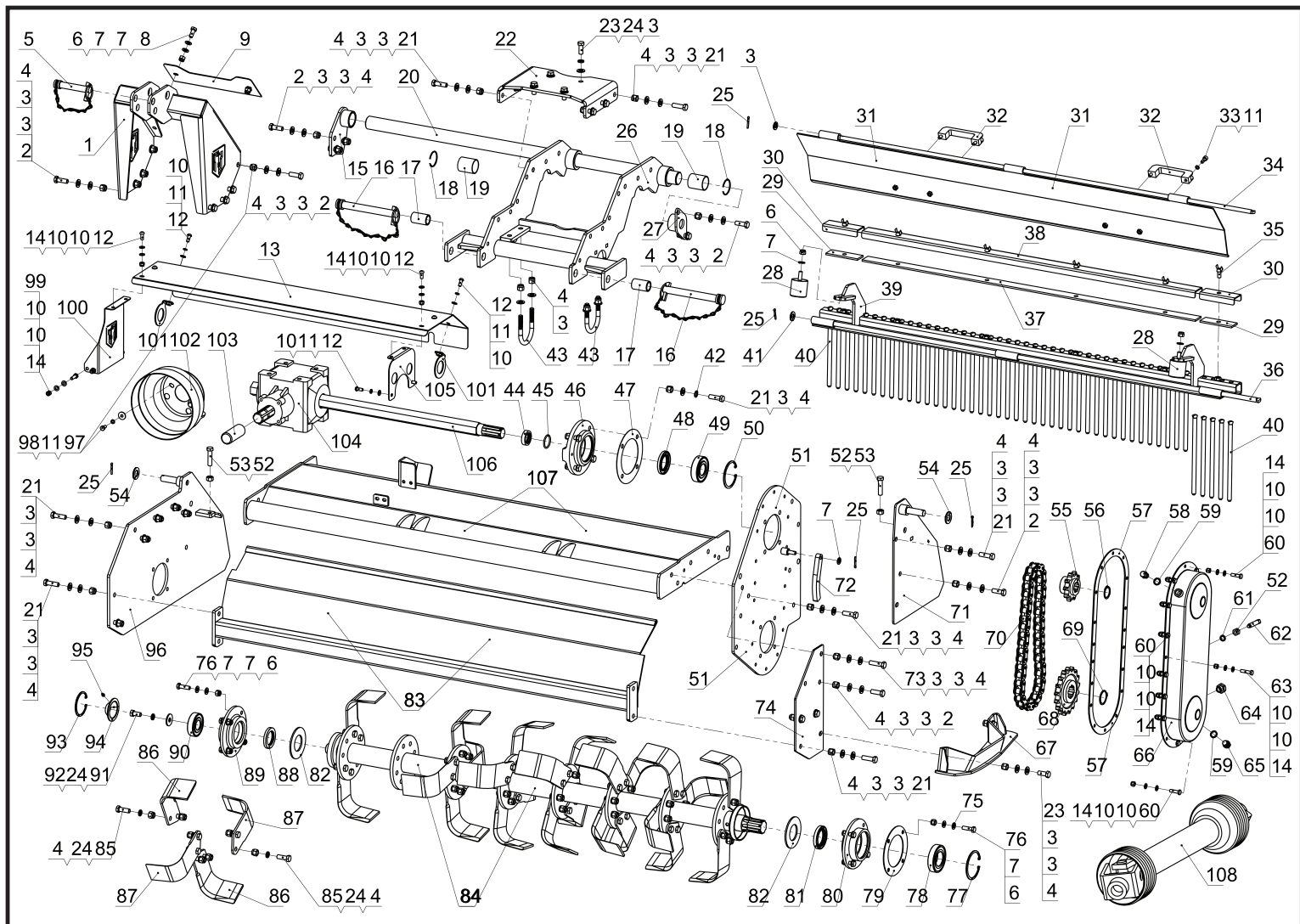


RSR Stone Buriers back roller

Ser. No	Code	Name & Specification	Quantity
1	230078	Adjustable Bar	2
2	230079	Sleeve for leveling roller holder	2
3	N000031	Lock nut M12	6
4	W000015	Washer M12	12
5	B000152	Bolt M12×50	5
6	230080	Leveling roller holder Left	1
7	230081	Bearing UCFLU205	2
8	230082	Spring plate	2
9	W000026	Washer M20	2
10	P000005	Cotter pin 4×25	2
11	N000008	Nut M8	2
12	B002117	Bolt M8×60	2
13	230083	Leveling roller for 125	1
	230084	Leveling roller for 145	1
	230085	Leveling roller for 165	1
14	B000088	Bolt M12×45	1
15	230086	Leveling roller holder Right	1
16	N000030	Lock nut M10	4
17	230087	Spring for scraper	2
18	230088	Special bolt	2
19	W000014	Washer M10	2

RSR Stone Buriers back roller			
20	230089	Scraper for Leveling roller 125	1
	230090	Scraper for Leveling roller 145	1
	230091	Scraper for Leveling roller 165	1

ASSEMBLY DRAWING LIST



RSR series Stone Buriers

Ser. No	Code	Name & Specification	Quantity
1	230001	Linkage	1
2	B000085	Bolt M12×35	16
3	W000015	Washer M12	85
4	N000031	Lock nut M12	92/100/108
5	000001	Upper linkage pin	1
6	N000030	Lock nut M10	12
7	W000014	Washer M10	19
8	B000075	Bolt M10×25	2
9	230002	Plate for linkage	1
10	W000021	Washer M8	56
11	W000008	Spring washer M8	10
12	B000455	Bolt M8×20	8
13	230003	Drive shaft cover for 125	1
	230004	Drive shaft cover for 145	1
	230005	Drive shaft cover for 165	1
14	N000039	Lock nut M8	26
15	230006	Support parts (Right)	1
16	000076	Lower linkage pin	2
17	000075	Lower linkage pin sleeve	2
18	S000015	Circlip for hole 45	2

RSR series Stone Buriers			
Ser. No	Code	Name & Specification	Quantity
19	200023	Self-lubricating bearing 40×44×50	2
20	230007	Slide pipe for 125	1
	230008	Slide pipe for 145	1
	230009	Slide pipe for 165	1
21	B000086	Bolt M12×40	21
22	230010	Gearbox mounting plate	1
23	B000084	Bolt M12×30	6
24	W000002	Spring washer M12	53/61/69
25	P000005	Cotter pin 4×25	5
26	230011	Bracket for gearbox	1
27	230012	Support parts (Left)	1
28	230013	Rubber damping	2
29	230014	Rubber rake support (small)	2
30	230015	Rake support (small)	2
31	230016	Rear cover for 125	1
	230017	Rear cover for 145	1
	230018	Rear cover for 165	1
32	150035	Plastic handle	2
33	B000134	Bolt M8×20	4
34	230019	Cover shaft for 125	1
	230020	Cover shaft for 145	1
	230021	Cover shaft for 165	1
35	230022	Bolt WB10×20	5/6/7
36	230023	Rake holder shaft for 125	1
	230024	Rake holder shaft for 145	1
	230025	Rake holder shaft for 165	1
37	230026	Rubber rake support 125 (big)	1
	230027	Rubber rake support 145 (big)	1
	230028	Rubber rake support 165 (big)	1
38	230029	Rake support 125 (big)	1
	230030	Rake support 145 (big)	1
	230031	Rake support 165 (big)	1
39	230032	Rake holder for 125	1
	230033	Rake holder for 145	1
	230034	Rake holder for 165	1
40	230035	Rake teeth	40/46/52
41	W000016	Washer M14	1
42	230036	Washer M12	4
43	230037	U form fastening	2
44	230038	Drive shaft sleeve	1
45	230039	Rubber seal 35.5×3.55	1
46	230040	Bearing block	1
47	230041	Paper washer	1
48	OS000019	Oil seal 45×72×8	1
49	220029	Bearing 6307-2RZ	1
50	S000009	Circlip for hole 80	1
51	230042	Main body side (Left) plate	1
52	N000002	Nut M12	3
53	B000090	Bolt M12×50	2
54	W000026	Washer M20	2
55	230043	Small sprocket	1
56	S000031	Circlip for hole 34	1
57	230044	Chain cover cork gasket	1

RSR series Stone Buriers			
Ser. No	Code	Name & Specification	Quantity
58	900067	Oil plug M16×1.5	1
59	900068	Combination washer 16	2
60	B000113	Bolt M8×30	16
61	200009	Combination washer 12	1
62	B000255	Tension bolt M12×60	1
63	B002116	Bolt M8×35	2
64	900070	Oil check plug M18×1.5	1
65	900071	Oil drain plug M16×1.5	1
66	230045	Chain cover	1
67	230046	Adjust plate (Left)	1
68	230047	Big sprocket	1
69	S000033	Circlip for hole 42	1
70	230048	Chain 16A	1
71	230049	Side cover (Left)	1
72	900084	Tension chain plate	1
73	B000088	Bolt M12×45	1
74	230050	Front cover connector plate	1
75	230051	Washer M10	4
76	B000077	Bolt M10×35	8
77	S000020	Circlip for hole 85	1
78	230052	Bearing 6209-2RZ	1
79	230053	Paper washer	1
80	230054	Main roller bearing block (Left)	1
81	OS000020	Oil seal 45×65×8	1
82	230055	Sealing ring	2
83	230056	Front cover for 125	1
	230057	Front cover for 145	1
	230058	Front cover for 165	1
84	230059	Main roller for 125	1
	230060	Main roller for 145	1
	230061	Main roller for 165	1
85	B000185	Bolt M12×35 (12.9)	48/56/64
86	230062	Blade (Left)	12/14/16
87	230063	Blade (Right)	12/14/16
88	OS000021	Oil seal 45×65×8	1
89	230064	Main roller bearing block (Right)	1
90	900161	Bearing 6306-RZ	1
91	B000083	Bolt M12×25	1
92	W000010	Big washer 12	1
93	S000008	Circlip for hole 72	1
94	230065	Bearing seat cover	1
95	000094	Grease Nipples M6	1
96	230066	Main body side (Right) plate	1
97	B000109	Bolt M8×16	2
98	W000013	Big washer 8	2
99	B000111	Bolt M8×25	4
100	230067	Shaft cover holder plate (Right)	1
101	230068	Shaft cover holder (small)	2
102	111000	PTO protection	1
103	000030	Gearbox shaft cover	1
104	230069	Gearbox	1
105	230070	Shaft cover holder plate (Left)	1

RSR series Stone Buriers			
Ser. No	Code	Name & Specification	Quantity
106	230071	Drive shaft for 125	1
	230072	Drive shaft for 145	1
	230073	Drive shaft for 165	1
107	230074	Main body	1
	230075	Main body	1
	230076	Main body	1
108	230077	PTO Shaft 05B800 with shear bolt	1