

OPERATING INSTRUCTION SPARE PARTS LIST



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ENGLISH C€

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2 FOREWORD

We thank you for your confidence in our product and also take this opportunity to wish you every success in your profession.

We would ask you to read and to memorize the operating hints and instructions outlaid in this manual. A full knowledge of the operation of the machine, together with correct adjustments and careful maintenance guarantee a full working safety and un-interrupted operation during busy working days. It is of utmost importance that every aspect mentioned in this manual be fully understood and that the instructions are complied with without exceptions. If in doubt on any point, please do not hesitate to contact your dealer to clear it up.

We also hope that after acquainting yourself with the manual, you will take the trouble of returning the undersigned warranty certificate back to the manufacturer.



THE SIGN OF CAUTION

This symbol is used throughout the manual to denote operations where there is a risk of danger to the operator or any persons near the machine at the moment of carrying out the specified operation.

The symbol is also used to denote any risk of danger which might befall environment or property.

3 TECHNICAL SPECIFICATONS

Machine type Cutter flange dia. Cutter flange weight kg Flange speed rpm No. of cutter knives Chip size Stem dia. (max) Cutting efficiency cu.m/h Power requirement hp/kW Weight of basic model kg Height in transport position cm Feed orifice size Hydraulic system

HJ 260 Gt 31½" (80 cm) 170 540-1000 4 0.15 - 0.78" (3 - 20 mm) 10" (25 cm) 7-20 40-100/30-75 770 114"(290 cm)

Utilizing self contained

HJ 260 G 31½" (80 cm) 170 540-1000 4 0.15 - 0.78" (3 - 20 mm) 10" (25 cm) 7-20 40-100/30-75 740

114"(290 cm) 10¹/₂"x 10¹/₂"(26cm x 26 cm) 10¹/₂"x 10¹/₂"(26cm x 26 cm) Utilizing tractor

INCLUDED IN THE DELIVERY:

HJ 260 GT: UNIVERSAL DRIVE SHAFT	D52435
HJ 260 G: UNIVERSAL DRIVE SHAFT	D52435
HJ 260 C: UNIVERSAL DRIVE SHAFT	D52435

and remote control

SPECIFICATIONS OF YOUR PARTICULAR CHIPPER:

Model

Serial No.

Year of manufacture

4 SAFETY PRECAUTIONS

4.1 GENERAL SAFETY NOTES



- CLOTHING: For the sake of personal safety use well-fitting clothing without any loose or hanging projecting sleeves etc. which might be caught in the running machinery.
- OPERATING: Before attempting to operate the machine, acquaint yourself fully with the attachment, controls and the operation of the machine.
- CAUTION DECALS: Always comply with all the cautions and instructions given on the various caution decals on the machine.
- SAFETY EQUIPMENT: The machine may only be used when all its safety shields and devices are in place and in a proper condition. For personal safety always wear a hard hat (a lumberjack type) plus hearing and eye protectors.
- ATTACHMENT TO TRACTOR: Take special caution when attaching the machine to or disengaging it from the tractor.
- DRAWBAR LOAD: Take into consideration the maximum allowed tractor drawbar and hydraulic hitch loadings.
- PARKING: Make certain that the machine cannot start to move by itself while parked between the working shifts.
- SAFE DISTANCE: Due to its operational principles, the machine has certain parts whichcannot be fully safe-guarded. A safe distance must therefore be kept to these components while he machine is in operation. The operator must also take care not to allow any outsiders to approach these points on the machine.
- OPERATIONAL NOTES: While the machine is operating, no persons, except the operator, must be allowed to remain in vicinity of the machine.
 - Never enter the space between the tractor and the chipper when the chipper is being lifted up, lowered or moved about.
 - Never go below or climb onto the chipper which is being held up above ground supported on the tractor hitch without proper supporting stands.
 - Before starting up the chipper, make sure that it is correctly attached and that all safety shields are in place and properly fitted.
 - Always ensure before starting to operate the machine that not outsiders remain within the operational area.
 - Check the condition of the machine always at the end of a working shift. Pay special attention to the mounting and attachment points.



THE NOISE LEVEL ON THE WORKING SITE EXEEDS 85 db AND FOR THIS REASON ALWAYS USE HEARING PROTECTORS.

4.2 RUN DOWN TIME

Junkkari HJ 260Gt run down time is

- loaded 10 seconds
- without load 60 seconds.

4.3 TRANSPORTATION AND TRAFFIC RULES

- Always comply with the highway when transporting the machine on public roads.
- For transportation on public roads, always fit the chipper with any locally required safety accessories, such as additional rear lights, reflectors and slow-moving-machine triangle.
- Take care to note the allowed maximum axle weights, total weights and transporting dimensions of the combination.
- All accessories and equipment used for moving the chipper (chains, drawbars, tie-rods etc.) must be attached and placed in such a way that any inadvertent movements cannot affect them in any manner when the machine is either operating or being transported.

- The manoeuvrability of the tractor during any transportation and its steering or braking characteristics may be affected adversely by trailed or hitchmounted implements or extra weights. It is therefore imperative to ensure that the tractor can be properly steered and braked down under all circumstances.
- It is forbidden to carry passangers on top of a moving chipper.
- The machine may be lifted only from points clearly marked for the attachment of a lifting hook.
- Always use only approved lifting ropes or chains and always also check their condition before attempting a lifting operation.
- If the machine is to be transported on a truck or a trailer bed, make sure to use proper straps or chains to tie the machine.
- If a fork lift or equivalent is used i.e. to load the machine on a truck, care must be taken to ensure that the machine is properly balanced and that there is no danger of its falling down on the ground.

4.4 UNIVERSAL DRIVE SHAFT

- Shut down the tractor P.t.o. (power take-off) drive every time you leave the tractor cab.
- Check that the universal drive shaft external, enveloping safety tubes do not rotate with the shaft inside. Attach the check chain with care.
- When the machine is being transported on public roads, the driver must make sure that the P.t.o. power is cut off.
- Before connecting the P.t.o. drive on, make sure that nobody is staying near the rotating P.t.o. shaft.
- The universal drive shaft must be attached to the tractor P.t.o. only when the P.t.o. shaft is in neutral and not turning, the tractor engine stopped and the ignition key removed from the ignition switch.
- When starting up the engine, the P.t.o. must be in the neutral position.
- The tractor P.t.o. speed must correspond to the operating speed range of the machine's drive mechanism.
- The limitations set for the P.t.o. speed must be fully observed, otherwise a too high a speed will damage the machine.
- Move the P.t.o. drive into neutral position every time when it is not needed to drive an implement or when the tractor and the implement are turning through a very steep articulation angle.
- Before connecting the drive to the P.t.o. shaft, and while it is rotating, make sure that no persons are staying within the danger area of the rotating drive shaft.
- Do not use other than CE labelled drive shafts, approved by the manufacturer. All P.t.o. safety guards, shields and the tractor P.t.o. guard must be in place and in proper condition.
- Never use a damaged drive shaft because of the grave danger its use poses. A damaged shaft must be repaired before it is used in the P.t.o. drive.
- Observe the lengths of the drive shaft telescoping outer and inner shield tubes both in transport and in working positions.
- After having shortened the drive shaft, the splined ends must be cleaned and the lubrication grease applied to the splines thoroughly.
- When the universal drive shaft is being attached to or detached from a tractor, the tractor P.t.o. must be in neutral position. Never use the tractor clutch for disengaging transmission drive to the P.t.o. gears momentarily in order to stop the P.t.o. shaft from rotating.
- After having attached the drive shaft, its securing peg must engage in the locking position in the shaft groove. Check that the shaft is positively secured in its place.
- Attach the drive shaft shield securing chain so that the shield cannot rotate.
- When not in use, store the drive shaft on suitable supports.

4.5 HYDRAULIC SYSTEM

- After having coupled the chipper's hydraulic system to the tractor hydraulic system outlets and started the engine, the chipper hydraulic system is pressurized by the high Tractor system pressure. A burst of high pressure oil will penetrate the skin and may cause grievous bodily harm. A risk of injury exists even when looking for possible oil leaks.
- Take extra care when handling any hydraulic components. Due to their nature there exists a risk of skin cuts or getting fingers bruised between binding components.
- When coupling the tractor and chipper hydraulic hoses together, the hydraulic systems of both units must be non-pressurized.

PROTECTING ONESELF AGAINST OIL AND GREASE

- Always wear suitable protective clothing and oilresistant gloves when handling oil or grease.
- Avoid skin contact with oil or grease as this may lead to skin damage.
- Never use oil or grease for cleaning any part of your skin. These substances may contain minor metallic particles which may cause scratching of hands, further aggravated by the action of the oil.
- Always comply with the handling and safety instructions given by the oil or lubricant manufacturer.

- Synthetic oils tend to be corrosive in many cases and cause intense irritation of the skin. WASTE OIL

- Collect all of any used oil and take it to a hazardous waste disposal centre or collection point to be duly disposed of as required by national regulations.

ACCIDENTS

- If any oil is spilled on ground its spreading into the soil must be stopped and the oil removed, for example, by using peat to absorb the oil.
- If any skin damage occurs while handling oil or lubricant call on a doctor immediately.



NOTE THAT THE MACHINE IS MEANT TO BE OPERATED BY ACOMPETENT OPERATOR. THUS, THE USE OF THE MACHINE REQUIRES SUFFICIENT KNOWLEDGE AND SKILL.



Safety decals and components and serial number plate



SERIAL NUMBER PLATE





OPERATING INSTRUCTIONS AND SPARE PARTS BOOK



6 OPERATING ENVIRONMENT

6.1 OBJECT OF USAGE

The purpose of a chipper is to produce chips from trees, which due to their diameter and other measurements are suitable for feeding into the chipper's feed orifice. The in-fed material must be clean. Dust, sand or soil ingredients accelerate wear on the knives very quickly. Metal bits, nails e.g., cause denting of the knives. Any large metal pieces may severely damage the chipper.

If the chipper is intended to be used for chipping down card-board rolls, plastic piping or hard boarding panels, please contact your dealer before commencing this kind of activity.

6.2 LIMITATIONS OF USE AND PROHIBITED FORMS OF USE



Limitations regarding the machine operator

- The machine operator may not be under the influence of intoxicating substances, alcohol or strong medication.
- In cases of ill health or permanent disability the doctor in charge should be consulted for permission to operate the machine.
- Use of the chipper is prohibited for persons without the sufficient knowledge and skill required to operate the machine and for persons under the age of 18 years.

Prohibited forms of use

- The chipper may not be used within any areas reserved for the conservation of nature.
- The machine may not be used for spreading liquids, inflammable materials, sand or equivalent non-fibrous materials.
- Avoid using the machine in areas where its use could cause inconvenience to its surroundings due to excessive noise or spreading of dust.
- Chipping of highly inflammable materials is absolutely forbidden.

7 PRINCIPLE OF OPERATION

A chipper model not fitted with a feed mechanism operates on the principle that, while chipping the stem or other wood material, the chipping knives mounted on the rotating chipping flange draw in the material automatically. The feeding speed depends on the knife setting as follows: A short knife setting results in a small chip size and a slow intake speed - a wide knife setting results in a large chip size and consequently in a high intake speed. The chips produced by the action of the knives are ejected through the knife flange orifices to the blower fan and out of the machine through the discharge spout.

In chipper models, which are equipped with a feed mechanism, the intake of material is power-assisted by a set of feed rollers driven by hydraulic motors. The motors in turn are driven by pressurized oil either from the tractor hydraulic system or a self-contained, independent hydraulic system via a control valve. The feed control lever has 4 positions: Feed, Stop, Reverse and Stop locked.



NOTE! LOADER INFEED CHUTE DOES NOT FULFIL THE CONDITIONS OF HAND INFEED CHUTE SAFETY DEMANDS.

8 TRANSPORTATION, HANDLING AND STORAGE

8.1 TRANSPORTATION

- Terms of delivery is ex works unless other terms are mutually agreed upon.
- The Distributor shall agree with the Manufacturer on the date upon which the product in question is ready for delivery at the factory.
- The Manufacturer shall take care of the loading of the product onto the goods vehicle ranged to fetch the product.
- For the duration of transportation from the factory to the Distributor's premises all responsibility of the product shall lie with the forwarding agent.

8.2 HANDLING

- The product must be handled with such care as is normal when handling agricultural or forestry machinery without causing the product any damage.
- No other products may be loaded on top of the machine transportation crate.
- The product is delivered well-packed from the factory.

8.3 STORAGE

- The chipper is to be stored in its normal working position and protected against sunlight and rain.
- Should the machine be left standing outdoors for any period of time without proper protection, it should be inspected from time to time and any rainwater accumulated on top of the machine drained away.
- For long periods of storage always store the machine indoors under shelter.

8.4 SPECIFIC NOTES ON TRANSPORTATION SAFETY



- It is prohibited to lift the machine from any other points than those clearly marked for lifting by decals.
- Make certain that the crane or equivalent used for the lift has sufficient capacity and is safe enough for the job and that no risk of overturning or falling down accurs.
- Use only approved ropes or chains for lifting.
- The chipper must not be lifted up resting on the forks of a fork lift truck, only ropes or chains are suitable for any lifting operations.
- Always check the condition of lifting ropes or chains prior to any lifting attempt.
- If during a lifting operation the machine is to be laid down resting on its side or lifted up to rest on its wheels the lifting ropes or chains must be kept tight to prevent any accidental swaying of the machine in order to avoid dangerous situations.
- If using a lifting crane, always check the lifting radius.
- The chipper must be securely tied down to the platform for the duration of transportation.

9 TAKING A NEW MACHINE INTO USE

9.1 PREPARATIONS PRIOR TO OPERATING

A new machine must be brought into a proper operating condition by the operator prior to the machine's first use. If the chipper is delivered with its discharge spout independently packed, the attach the spout to the machine as follows: Place the spout on its mountings in such a manner that the guide lug on the spout lines up with recess in the mounting adaptor. Secure the spout in its place by means of the enclosed split clamp and its knurled nut. Turn the nut until it is tight. When taking the chipper into use make sure that all the safety panels are in place, that no foreign matter is left inside the feed orifice and that the disc rotates freely. Before connecting the machine and its drive to the tractor check the instruction manual notes on the PTO shaft and proceed accordingly. Only after observing these points may the chipper be coupled to the tractor.

9.2 DISCARDING PACKAGING MATERIALS

The wooden and cardboard packaging materials may be disposed of by burning or taking them to a dump site. The polyethylene bags and plastic cords should be disposed of either by recycling them according to national regulations or by taking them to a dump site.

9.3 ATTACHMENT TO A TRACTOR

The chipper is designed for attachment to tractors equipped with category 1 or 2 lower links (i.e. either with 22 or 28 mm attachment pins).

In the delivery condition the chipper's mounting links have been raised into vertical positions. The length of the mounting links can be adjusted by the set of alternative attachment holes in the links. The tractor lower links and the top link are attached to the chipper mounting points in the normal manner and the lower links secured in their centre position by means of their stabiliser.

TRACTOR PTO

The starting of the chipper should be made smoothly on low rpm due to the large rotating masses inside the chipper. During operation, the chipper cutting flange speed must be kept within the range of 540-1000 r.p.m.

FLANGE SPEED (accessory)

When making compost chips, 2000 r/min flange speed can be used by using lower drive shaft with tractor PTO speed 1000 r/min.

ATTENTION ! WHEN USING 2000 r/min FLANGE SPEED, THE MAX. DIAMETER OF THE STEM IS 50 mm. The universal drive shaft has been discussed separatively in the chapter titled "PTO SHAFT".

HYDRAULIC SYSTEM

The chipper model HJ260Gt does not require hydraulic oil from the tractor hydraulic system. The HJ260G model requires, hydraulic oil from the tractors hydraulic system 1.3 - 5 gal./min (5 - 20 L/min) and a single control valve, fitted with single pressure and return connectors for its operation.

INSTALLATION OF THE ELECTRICAL SYSTEM (accessory/loader infeed) Install the remote control box to a suitable place inside the tractor cabin, And the 15-pin socket to the outside of the cabin rear wall, to a suitable place. Connect the remote control to the tractors electrical system with a 12V plug. Connect the 15-pin plug from the chipper to the socket. Then the chippers electrical system should be in working order. That can be tested, for example, by adjusting the spout discharge direction flap.









9.4 PTO SHAFT

TYPE OF PTO SHAFT



The universal drive shaft should have the capacity of transmitting power at a rate of 67 kW at a nominal speed of 540 rpm and to sustain a torque of 1700Nm. The shaft should be fitted with an overload clutch. A suitable drive shaft is, for example, Walterscheid W2400 SD25-610-FK96/4 173kpm/IV.

PTO SHAFT LENGTH

The drive shaft must be of correct length for the application for the sake of operator safety, the mechanical durability of the shaft itself and its operational characteristics. The splines of the sliding tubes must overlap at least by 100 mm (4"). Too long a shaft will bottom causing the shaft to get damaged. With too short a shaft the two halves may get separated from each other when lifting the implement on the tractor hitch. This could lead even to grave consequences.

Too small an overlap also reduces the shaft's capacity to transmit the required power and thus may lead to mechanical damage to the shaft itself.

SHORTENING A PTO SHAFT

- 1. Determine the shortest operational length of the shaft by liftig the machine on the tractor hitch (see Fig.1).
- 2. Leave a 25 mm (1") free play on the shaft and mark on the shaft circumference (see Fig.2).
- 3. Using a hacksaw, saw off equal lengths from inner and outer tubes and shields of both shaft halves (see Fig.3).
- 4. Remove cutting burns with a file and make clean all tubes.
- 5. Grease the shaft tubes thoroughly before fitting the shaft in place.





10 ADJUSTMENTS

PLEASE READ THESE INSTRUCTIONS VERY CAREFULLY AS THE MOST IMPORTANT POINT IN THE OPERATION OF THE CHIPPER IS THE CONDITION OF THE KNIVES AND THEIR CORRECT ADJUSTMENT.

10.1 KNIFE SETTINGS

The knife setting may be adjusted within the range of 3 to 20 mm. The smaller the setting, the smaller the chips the chipper produces. On the other hand, the knife setting affects the intake speed in the manner that a larger knife setting results in a faster and better intake of material.

To adjust, loosen the knife attaching screws (3 ea) and the locking screws (2 for each knife). Open the bed knife attaching screws and pull out both bed knives towards the feed chute. Move one cutting knife into a required position on the disc (measurement 'A'). Tighten down both the attaching and locking screws of the knife in question. Move the bed knives correspondingly to leave a free gap of 1 mm (measurement 'B') between the knife and the bed knife. Tighten down the counter-blade attaching screws. Proceed to adjust the remaining 4 cutting knives bringing each one in turn to the adjusted bed knife and adjusting each knife to leave the 1 mm gap ('B') between each knife and the bed knife. Finally tighten down all knife and bed knives do not make contact with the bed knives and that the gap ('B') between the knives and bed knives equal (1 mm) for each cutting knife. Finally, tighten down the cutting knife screws against the rear edge of each knife to a 3 kpm (22 lbft) tightness.



10.2 ADJUSTMENT OF FEEDER MECHANISM SPEED

The rotational speed of the feed rollers in chipper model HJ 260 must be synchronized with the cutting speed of the cutting knives. If the feed roller rpm is too high in relation to the knife cutting speed, the roller tend to dig into the stems being fed in. If the feed roller speed has been set too slow, the feed becomes jerky.

The adjustment is to be started with low feed roller rpm. At this stage, the cutting knives tend to pull out the stem from between the feed rollers. The feed mechanism speed is then slowly increased until it synchronizes with the cutting knife setting in use and the feed remains smooth.

ADJUSTMENT

The feed speed adjustment is carried out by first loosening the locknut 'A' and moving the adjusting lever 'B' to the end of the adjustment range. A stem is the fed into the chipper for chipping down and the potential variation between the speeds of the feed mechanism and the cutting knife action is observed. If the feeding speed is too slow, increase the speed by moving the adjustment lever towards the fast end of the range. Repeat the adjustment as necessary. When the syncronization is correct, screw in the locking nut 'A' tightly.





10.3 ADJUSTMENT OF THE ROTATION SPEED SENSOR (accessory)

The limit value is adjusted by turning the adjustment screw 'C' at the side of the rotation speed sensor which is used to control the feeder. The sensor limit value is adjusted at the factory to c.a. 450 r/min. The symbol on the side of the sensor is changing due to the limit value. When the sensor activates the feeder, the LED-symbol turns from blinking yellow light to continuous green light. From the year model 2002 on, the sensor limit rpm is set by pushing the acknowledgment switch on the remote control as follows: Set the output speed to the level that the feeder should stop. Then push the acknowledgment switch once to set the speed to the sensor memory, then raise the speed of rotation suitable for chipping. (If chipper has not remote control, switch button is mounted body of chipper)

11 USAGE

The HJ260G chipper is primarily designed for handfeeding. When necessary, pre-treat the material you are going to chip so that all heavy tree branches or off-shooting main roots etc. are removed to adapt the stem into the dimensions of the feeding orifice.

It is a recommended practice to arrange the material alongside the chipper so that there is little need to carry any of it more than the minimum distances. In this way the working efficiency remains as high as possible and additionally a solid flow of material produces the best quality chips.

12 MAINTENANCE

READ THE SAFETY INSTRUCTIONS



MAINTENANCE AND REPAIRS

- Before attempting any cleaning, lubrication, assembling or adjustment operations, always ensure first that the tractor PTO is disengaged and the engine stopped. Remove the ignition key from the starter switch to prevent any accidental starting up of the tractor or the implement.
- Use suitable blocks to make the machine securely immovable before commencing any maintenance operations on the machine.

12.1 SHARPENING THE CUTTING KNIVES

The cutting angle of factory-new cutting knives is 30.5° . This is he optimum angle which should always be used when re-sharpening the knives. A smaller angle will result in chipping in the knife edges, while a greater angle will reduce the knife edge's clearing angle causing a reduction in the ability of the knives to draw in the material.

Note that the cutting knives must not be allowed to heat up during the sharpening process as the knives will otherwise loose the hardness acquired by their heat-treatment. The knives should therefore be sharpened solely by grinding. When grinding, care should also be taken to sharpen all knives by equal amounts, so that the overall balance of the knife flange is retained.

As a rule, there is normally no need to sharpen the bed knives. Their cutting edges may, however, be rounded off if the intaken material includes substances that are harder than wood (nails, sand etc.). A blunted bed knife can be re-sharpened with e.g. an electric hand-grinding machine. In the main, the bed knives should remain maintenance-free.





DISC SAFETY LOCK All JUNKKARI-chippers are fitted with a safetylock for securing the cutting flange Immobile while carrying out an maintenance work on the cutting knives.

12.2 LUBRICATION

Following lubrication operations should be carried out at the intervals of the cumulative operating hours given in the tables.

50 h

50 h

Disc shaft bearings (2 ea): Fill in with lubricating grease Feed mechanism bearing (5 ea) Hydraulic system (HJ260Gt) First oil change Subsequent oil changes First oil filter changes Subsequent oil filter changes Hydraulic oil System oil capacity:

50 h 200 h 50 h 200 h MOBIL DTE 13 or equivalent 25 L (5.5 gal Imp., 6.6 gal US)



LUBRICATION POINT

CHECK OIL LEVEL



13 TROUBLESHOOTING CHART

FAULT	CAUSE	REMEDY
The chipper does not draw in material	Dull knives Knife cutting angle faulty Knife fitted the wrong way round	Sharpen and refit as per instructions given in the manual
Uneven chip size	Knife gap ('B') too large Single lengths of wood turn sideways after passing the feed rollers	Adjust as per instructions given in the manual
The discharge spout gets blocked	Too low rpm	Raise the rpm to within the speed range of 540-1000 rpm
Power requirement excessive on the tractor	Tractor hp too small Knife setting too large ('A')	Reduce the cutting knife setting or remove the oppositeblades
Ingoing material produces excessive vibrations	Feed rolles not properly synchronized	See the notes on synchronization of the feed rollers
The feed rolles do not rotate	There is lots of water in the tank (on wintertime) Emergency-stop button is on Rpm of drive shaft < No-stress setted rpm	De-frost, remove water and change new oils Release the emergency-stop button Raise drive shaft rpm or adjust No-stress rpm

The normal wear taking place in the chipper proceeds in a safe fashion without producing any risks of danger. In practice, the only wearing chipper parts are the cutting knives. Should a situation occur where excessive bearing play is observed, the adjustment of such a condition should be left to be remedied by a competent fitter.



NOTE THAT THE MACHINE IS MEANT TO BE OPERATED BY A COMPETENT OPERATOR. THUS, THE USE OF THE MACHINE REQUIRES SUFFICIENT KNOWLEDGE AND SKILL.



14 WITHDRAWAL FROM ACTIVE USE

READ SAFETY INSTRUCTIONS



Discarding the product from active use is the responsibility of the product's end-user or the person or company in whose ownership the product is at the time of discarding.

The disposal of the machine and the various resulting waste materials are governed by national laws, instructions and regulations, which are to be complied with. This applies to all countries, where the product is marketed. Most of the parts comprising a chipper are made of materials, which are not biodegradable in nature. This makes it necessary to disassemble the machine and to dispose of the various materials according to national regulations.

- Steel and other metallic parts are recycled through scrap yards or stripping yards for re-use.
- Waste oil, plastic parts and rubber components, other than tyres, are disposed of as hazardous waste by recycling, taking them to a refuse dump or disposed of by other means compliant with national regulations.
- Tyres must be disposed of in accordance with the directives 83/189 ETY, 182/88/ETY, 94/10/EY by taking the used tyres to recycling centrals or to a recycling operator, who will forward the tyres for reprocessing.

Environmental authorities will supply further information on handling the scrap and resulting waste materials.

15 TERMS OF WARRANTY

- 1. The warranty period is 12 (twelve) months provided that the machine is used for contract/task work purposes within the scope of operation for which the machine was intended for.
- 2. The warranty period starts from the date an authorized dealer delivers the product to a buyer.
- 3. The warranty is limited to manufacturing and material defects in the product. The failed part(s) will be repaired or exchanged for a part(s) in full working order, either by the factory or an authorized repair workshop. The subcontracted machine components are covered by the respective warranty policies of their manufacturers.
- 4. A repair carried out and covered by the warranty does not constitute any elongation of the warranty period.
- 5. The warranty does not cover faults or damages caused by operating practices which are incorrect or contrary to the practices laid out in this manual, incorrect maintenance, excessive loading or normal wear. The warranty shall not extend to cover any subsequent damages, down-time, travel expenses, freight charges, daily allowance, overtime expenses arising in cases in which the original machine design has been altered.

In matters related to the warranty, please contact your local Dealer, who will prepare a warranty claim on the subject matter. Before any repair work is carried out on the machine within the terms of warranty, the manufacturer must be consulted about the repair work on the machine and about the costs arising therefrom.

The warranty shall be valid only when the Warranty Registration Card is returned properly filled out to the Manufacturer within 14 (fourteen) days from the date of the delivery of the product to the end-user.

16 SCOPE OF LIABILITY

The manufacturer shall not be responsible for any consequences arising from the use of the machine in any manner contrary to law, safety regulations or instructions laid out in this manual. As situations may occur during the use of the machine not foreseen in the instructions or regulations, the operators are advised to act according to general safety regulations and directives on farm machinery.

The manufacturer shall not be liable for any damages arising from the use of components produced by other manufacturers.

The manufacturer shall bear no responsibility for any damages caused to other machinery equipment by the operation of the chipper.

The manufacturer reserves the right to further develop or alter the construction of the product. The owner of the machine shall be solely responsible for operating, maintaining and servicing the machine, unless otherwise specified.

The owner of the feed mixer shall be responsible for overseeing that each and every person operating the machine has acquainted themselves with the operating and safety instructions laid out in this manual, and that they have fully understood all such instructions.



EY -VAATIMUSTENMUKAISUUSVAKUUTUS KONEESTA

Valmistaja Osoite Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Vakuutamme yksinomaan omalla vastuullamme, että markkinoille saatettu kone

JUNKKARI HJ-260 G/GT

valmistenumerosta **101** alkaen on soveltuvilta osin rakennettu normatiivisien asiakirjojen ohjeiden mukaan ja noudattaa direktiivien 98/37/EY määräyksiä

EG- FÖRSÄKRAN OM ÖVERENSSTÄMMELSE FÖR MASKINELL UTRUSTNING

Tilverkare Adress

Manufacture

Address

Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Försäkrar härmed enbart på vårt eget ansvar, att för marknader tillverkad maskin

JUNKKARI HJ-260 G/GT

f.o.m tillverkningsnummer **101** är tillverkad i tillämpig mängd i överensstämmelse med instruktioner av det normativa dokumentet följer bestämmelser av följande direktiver: 98/37/EY

EC DECLARATION OF CONFORMITY FOR MACHINERY

Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Herewith declare on our sole responsibility that for the market produced machine

JUNKKARI HJ-260 G/GT

from the manufacturing number **101** is manufactured, where applicable, in conformity with provisions of the instructions of the normative document according to the following directive: 98/37/EY

DECLARATION CE DE CONFORMITE POUR LES MACHINES

Fabricant Adresse Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Certifions á nos propres risques, que la machine suivante commercialisée

JUNKKARI HJ-260 G/GT

et ce depuis le numéro de série 101 est en confirmité avec les normes applicables et les dispositions de la directive 98/37/EY

EG-KONFORMITÄTSERKLÄRUNG FÜR MASCHINEN

Hersteller Adresse Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Erklären hiermit ausschlieâlich auf eigene Verantwortung, daâ die Machine

JUNKKARI HJ-260 G/GT

von der Herstellungsnummer **101** konform mit den einschlägigen Bestimmungen von dem normativen Document hergestellt ist und Bestimmungen von Direktiven: 98/37/EU

EC SAMSVAERSERKLÆRING OM MASKINER

Produsent Adresse Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ

Erkærer at produktet beskrevet heretter

JUNKKARI HJ-260 G/GT

f.o.m Tillverkningsnummer **101** Som omfattes av denne erklæringen, er i samsvar med instruksjonene i dokument samt bestemmelsene i følgende direktiv: 98/37/EY.

(NO)

(FR)

(SE)

(FI)

(EN)

irecti

(DE)

TOEND MASINA NOUTELEVASTAVUSE KOHTA (EE)								
Valmistaja Aadress:	Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ							
Kinnitamme ainuüksi omaenda vastı	Kinnitamme ainuüksi omaenda vastutus el, et turule lastud masin							
JUNKKARI HJ-260 G/GT valmistusnumbrid 101 on ehitatud normatiivsete dokumentide juhiste kohaselt ja vastab direktiivi 98/37/EY nõustele								
ZAPEWNIENIE ZGODNOSCI URZA	ADZENIA Z WYMAGANIAMI	(PO)						
Producent Adres	Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ							
Zapewniamy wylaczinie na wlasna odpowiedzialnosc, ze wprowadzona do sprzedazy								
JUNKKARI HJ-260 G/GT poczawszy od nr fabrycznego 101 dyrektywy: 98/37/EY	jest skonstruowana w zakresie stosowalnosci zgodnie z normatywna dokumentacja i przepisa	ami						
CEE DECLARACIÓN DE CONFOR	MIDAD PARA MAQUINARIA	(ES)						
Fabricante: Dirección:	Junkkari Oy Pohjanmaanväylä 5, FIN-62375 YLIHÄRMÄ							
Declara en su misma responsabilidad que la máquina construida modelo:								
JUNKKARI HJ-260 G/GT con el numero de fabricación 101 está fabricada con conformidad a las prescripciones de la normativa referente a la siguiente directiva: 98/37/EY								

Ylihärmässä 1.12.2008



Arto Aro Tekninen Johtaja Technical Director