



ASFALTO Y HORMIGÓN

CORTADORAS

RZ 120

RZ 120 H

RZ 170

RZ 170 Y





RZ 120



RZ 170

FICHA TÉCNICA

Tipo	RZ 120	RZ 120H	RZ 170	RZ 170 Y
Profundidad corte (mm)	120	120	170	170
Posición disco	Derecha	Derecha	Derecha	Derecha
Diámetro duro (mm)	350 (400)	350(400)	450 (500)	450 (500)
Motor	Honda	HATZ	Honda	Yanmar
Tipo	GX 270	1 B 30	GX 390	L100AE-D
Potencia (kW)	6,6	4,5	9,6	8,5
Velocidad (min ⁻¹)	3600	3000	3600	3000
Retroceso arranque	recoil startér	recoil startér	recoil startér	recoil startér
Movimiento	Empuje	Empuje	Empuje	Empuje
Ajuste profundidad corte	mecánico	mecánico	mecánico	mecánico
Diámetro eje apriete (mm)	25,4	25,4	25,4	25,4
Velocidad husillo (min ⁻¹)	3600	3600	2800	2800
Capacidad tanque de agua (l)	20	20	20	20
Suministro agua	Enganche rápido	Enganche rápido	Enganche rápido	Enganche rápido
Peso (kg)	95	109	106	122
Dimensiones (cm)	102x53x104	102x53x104	105x53x104	105x53x110

DISCO DIAMANTE RECOMENDADO

Hormigon Viejo - corte húmedo		
Hormigon Viejo - corte seco		
Asfalto - corte húmedo		
Asfalto - corte seco		
Hormigon nuevo - corte húmedo		

1. SAFETY INSTRUCTIONS

1.1. General instructions for operation of light construction equipment

1.1.1. Requirements for qualification of the operator

1. The machine must be operated by trained reliable operators of age above 18. The operator must read and understand the safety instructions, the regulations valid for the respective jobsite and valid technological procedure. This should be proved by getting the operator's signature.
2. The operator is obliged to use suitable working dress, safety gloves and firm boots with hard tip. Do not wear loose or torn clothes, chains or jewelry that could be caught by moving parts of the machine. The operator is obliged to use safety goggles and ear protection.
3. The machine may be used for intended purpose only, in accordance with this operation manual.

1.1.2. Contractor's obligations

The contractor is understood to be a physical or legal person that carries out construction works and for such purpose uses construction equipment. The contractor is responsible for operational safety.

The contractor is obliged to:

- designate the operator and arrange his training
- ensure safe working conditions
- inspect attendance of the safety regulations

- inspect that the operator works with the machine in accordance with the Operation Manual
- ensure regular inspections, maintenance and repairs of the machine
- store the Operation Manual so that it is readily available
- arrange suitable, safe and adequate storing of the machine when not in use

The contractor is also responsible for proper attendance of lawful regulations of work safety and regulations valid for each respective jobsite.

1.1.3. Operator's obligations

The operator is to be designated by the contractor, while keeping conditions of the article 1.1.1.

The operator is namely obliged to:

- prior to starting, he should read and understand the Operation Manual including the safety instructions
 - attend all instructions of the Operation Manual
 - learn about the jobsite and the locally valid safety regulations; these must be kept during the work
 - pay full attention to operation of the machine
- arrange that regular inspections, maintenance and repairs of the machine are carried out as according to the Operation Manual
 - require from the contractor proper conditions for keeping safety instructions, regular inspections, maintenance and repairs
 - avoid damage, misuse or unauthorized use to the machine, namely by proper storing the machine to a secured place

1.1.4. Operation of the machine

Before starting:

1. Check the machine thoroughly, repair all failures before starting the engine. If the failures cannot be repaired at the jobsite, do not operate the machine.

2. Check the fuel system for leaking. Dripping fuel poses fire hazard.

Starting and operation:

3. When starting the engine, take stable position and held the grip firmly.
4. The controls must be in good order.

5. The operator must not leave from his position when the engine is running.
6. Stop the engine before interrupting the work. When parking the machine, secure it from falling.
7. Stop the engine before refueling. Avoid contact between fuel and hot parts of the engine. Let the engine to cool down first.
8. Keep the fuel tank tightly closed. Close the fuel tap when not in operation. Drain the fuel before transporting the machine for longer distances.

DANGER! Leaking fuel tank and distribution may cause explosion. Replace these parts immediately if damaged.

Jobsite:

9. No bystanders are allowed within the operational range of the machine. Especially children should be kept in safe distance.

10. Do not operate the machine in areas with explosion danger.
11. If operated in closed spaces (halls, tunnels), there should be ensured sufficient ventilation.
12. Held and guide the machine with high care in order to avoid hands injury caused with contact with an obstacle.
14. Do not smoke, do not use naked flame. Do not work close to flammables or in explosion danger areas.
15. Avoid touching hot parts. The exhaust silencer and other parts of the engine are very hot during operation and touching them can cause serious burns.

1.1.5. Maintenance and Service

1. Do not remove any covers or other safety devices. In case this must be done because of service, install all the parts back before starting.

2. Use genuine spare parts only. Do not carry out any modifications without prior written approval of the manufacturer.
3. Stop the engine before servicing the machine.

1.1.6. Transport and Storage

1. When loading and transporting the machine fasten the machine properly on the carrier.
2. The machine is to be transported in upright position (with engine upwards). This position is also suitable for storing.

3. Prior to long-term storage: Conserve the machine, cover it and store it at safe, dry and ventilated place.

1.1.7. Testing

It is recommended to test the machine by authorized service at least once a year or more often if used under heavy conditions.

If necessary, carry out repairs of all possible failures.

1.2. Prohibited activities

Never:

- use the machine for other than intended purposes
- use the machine in other way than as described in the Operation Manual
- operate the machine drunk or intoxicated
- operated the machine if its operation could cause harm to other people
- start and operate the machine if there are other people within the dangerous area

- operate the machine if some safety device (i.e. cover) is damaged or missing
- operate the machine in areas with external risks (risk of soil flow, dangerous fumes, risk of explosion, risk of electrical shock, etc.)
- operate the machine in areas where its operation may cause damage to buildings, structures or utility lines

- operate the machine within the protective range of power lines or transformer stations
- operate the machine under poor visibility or at night, unless the jobsite is sufficiently illuminated
- leave unprotected machine
- disable or modify safety devices, protective and safety systems
- operate the machine with leaking oil, fuel or other liquids
- start the engine in other way than described in the Operation Manual
- clean a running machine
- smoke or use naked flame when refueling

1.3. Hygienic principles

Oil derivatives (fuel, lubricants) as well as paints and thinners are harmful agents. Anyone who gets into contact with such agents is obliged to protect himself and follow general principles health protection as well as to follow instructions valid for each specific agent.

Pay special care to:

- skin care
- wash hands properly after finishing the work and apply suitable cream

Store the fuels, lubricants, paints, thinners, cleansing and conservation agents, as well as other dangerous agents in original containers, properly sealed. Never allow storing in unmarked bottles or containers or even in beverage bottles. Store such agents in safe place, out of reach of children.

In case that the agent gets into touch with skin or eyes, or when it is eaten or inhaled, apply the first aid and get immediately medical aid.

1.4. Environmental principles

Fuel, lubricants and other operational fluids are harmful to environment. This category also includes part of the machine that get into contact with operational fluids, such as filter and hydraulic hoses.

After use these belong to dangerous waste.

Pay high attention to avoid leakage of the fluids and their escape into soil or water (including the sewage).

Store the fluids in such manner, that the fluids gets caught in case of accidental leakage.

If these agents still escape, arrange their safe collection and liquidation.

1.5. Liquidation of the machine

After the machine exceeds its lifetime period, the contractor is obliged to arrange its proper liquidation in accordance with the respective

lawful regulations and with regards to environmental protection.

It is highly recommended to commit this task to a specialized company.

1.6. Safety Instructions

Besides of general safety instruction, the following special instruction must be followed:

1. Prior to starting the work, find out where are underground spaces, utility lines, etc.
2. Never remove the blade cover when the engine is running.
3. After stopping the engine, wait till the blade gets fully halted.
4. After fitting the cutting blade, pace on the cover and secure it.

5. Be sure to remove the wrenches from the blade shaft!

6. Do not allow other people close to running machine.

7. **DANGER!**

The cutting blade is always turning as soon as the engine is started. The revolving blade presents a risk of injury!

1.7. Hygienic data

	RZ 120	RZ 170	RZ 111	RZ 121	RZ 171
Noise level	87,58dB(A)	104,5dB(A)	87,58dB(A)	87,58dB(A)	104,5dB(A)
Acoustic power	103,4dB(A)	115,6dB(A)	103,4dB(A)	103,4dB(A)	115,6dB(A)
Acceleration transferred to hands	10,0 m/s ²	14,5 m/s ²	10,0 m/s ²	10,0 m/s ²	14,5 m/s ²

	RZ 120	RZ 170	RZ 111	RZ 121	RZ 171
1. Because of the noise level, the operator is obliged to use ear protection effective for the noise level:	90 dB(A)	105 dB(A)	90 dB(A)	105 dB(A)	90 dB(A)
2. Work with the machine must be interrupted regularly, the breaks should last at least:	10 min.	10 min.	10 min.	10 min.	10 min.
3. Total time of work with the machine should not exceed:	10 minutes per working shift.	10 minutes per working shift.	10 minutes per working shift.	10 minutes per working shift.	10 minutes per working shift.

4. Technological procedures should be adapted to suit the safety breaks.
5. The operator shouldn't be exposed to excessive noise and/or vibrations during the safety breaks.
6. Should the limits of maximal exposition be exceeded, the working position should be

pronounced as "risky" and the respective authorities should be informed.

7. Operation in or close to residential areas is restricted from 6.00 a.m. to 6.00 p.m.

2. TECHNICAL DESCRIPTION

The asphalt and concrete cutters RZ are intended for cutting of asphalt and concrete floors or road layers when repairing roads, industrial areas, etc.

The machine is based on a rigid frame with fixed spindle; the cutting disc is lowered to the cut together with the whole frame. Lowering and rising of the cutting disc is controlled by means of a arrested handle that enables fine regulation of cutting depth.

The machine is intended for wet cutting and therefore it is equipped with a sprinkling

system. Water for sprinkling can be brought either from machines-mounted water tank or from external source.

The machines can be used also for dry cutting, assuming a suitable cutting disc is used. This method however causes high generation of dust and thus breathing protection would be required.

The machine is driven by a single-cylinder, four-stroke gasoline engine HONDA or ROBIN.

Travel is manual; the operator pushes the machines by height-adjustable handle.

2.1. Basic Technical Data:

		RZ 120	RZ 170
Cutting depth	(mm)	120	170
Cutting disc fastening		at right	at right
Max. disc dia	(mm)	350	450
Travel		manual	manual
Cutting depth adjust.		mechanical	
Fastening hole dia	(mm)	25,4	25,4
Spindle speed	(RPM)	3600	2800
Water tank capacity	(ltr)	20	20
Weight	(kg)	95	106
Dimensions L x W x H	(mm)	1020x530x1040	1020x530x1040
Engine		HONDA	HONDA
Type		GX 270	GX 390
Power	(kW)	6,6	9,6
Speed	(RPM)	3600	3600
Oil sensor		yes	yes
Fuel consumption	(ltr/hr)	1,2	1,5

"ultralight"		RZ 111	RZ 121	RZ 171
Cutting depth	(mm)	110 (135)	120	170
Cutting disc fastening		at right	at right	at right
Max. disc dia	(mm)	300 (350)	350	450
Travel		manual	manual	manual
Cutting depth adjust.		mechanical		
Fastening hole dia	(mm)	25,4	25,4	25,4
Spindle speed	(RPM)	3600	3600	2800
Water tank capacity	(ltr)	15	20	20
Weight	(kg)	55	72	78
Dimensions L x W x H	(mm)	780x410x850	920x460x950	920x465x950
Engine		HONDA	HONDA	HONDA
Type		GX 160	GX 270	GX 390
Power	(kW)	4	6,6	9,6
Speed	(RPM)	3600	3600	3600
Oil sensor		yes	yes	yes
Fuel consumption	(ltr/hr)	1,0	1,2	1,5



2.2. Lubricants

Use brand lubricants according to the specification below only:

- engine oil	15W-40	API SG/CF 4, API SG/CE
	content - depending on engine	HONDA approx. 1,1 ltr
		ROBIN approx. 1,1 ltr

2.3. Identification

For communication with the manufacturer (i.e. for warranty claims, service requests, spare parts ordering) always report exact model and serial number of your machine.

These data are stamped on the machine decal.

Fig. Machine decal



2.4. Engine Identification

In case of problems related to the engine report also engine type and serial number. This number is stamped on the engine block (HONDA, ROBIN) or on the engine decal (HATZ).

Fir. Location of the S/N on engine HONDA



3. PRIOR TO STARTING

3.1. Check - Oil Level

It is highly recommended to check regularly the engine oil level even at machines equipped with the oil sensor.

In case of a machine without the oil sensor, daily check is a must.

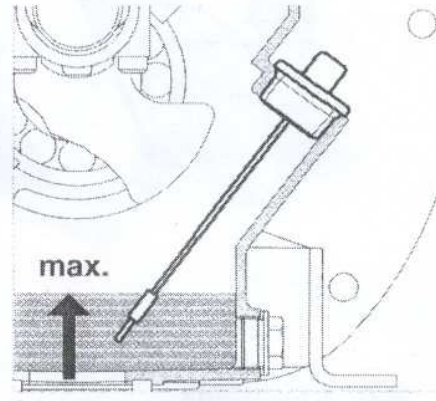
Clean the filling hole before checking or adding oil. Wipe dry the dipstick and immerse it in the oil without screwing it in.

If necessary, add specified sort of oil up to the upper mark.

NOTE :

Operation with insufficient oil level may cause serious damage to the engine.

Check the engine oil level daily!



3.2. Visual Inspection of the Machine

Check regularly the machine for:

- missing parts
- released bolts and screws
- oil or fuel leakage

- free motion of the cutting disc spindle
- Pay special attention to safety devices (covers) and controls.

3.3. Adding Fuel

1. Gasoline engines:

Use unleaded or leaded gasoline for motor vehicles, with octane number 91 or more.

Top up fuel as necessary.

Never use dirty fuel or mixture with oil.

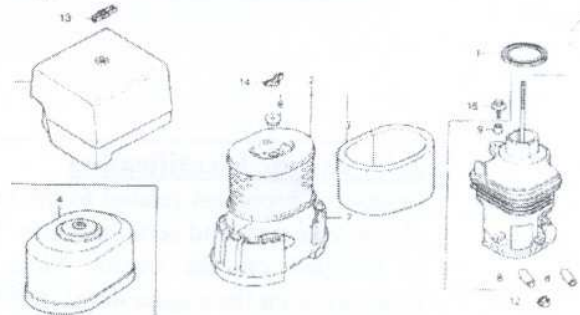
Avoid water and dust from entering the fuel tank.

3.4. Check - Air Filter

Check the air filter for cleanness on a daily basis. Clean or replace the filter if dirty.

Never run the machine with air filter missing or damaged. Dust and dirt which get into the engine would cause rapid wear.

Fig. Air filter - HONDA

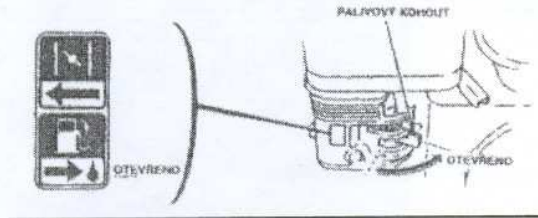


4. OPERATION

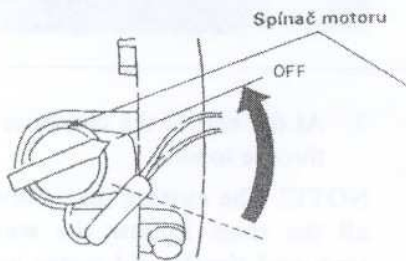
4.1. Starting

4.1.1. Gasoline Engines HONDA and ROBIN

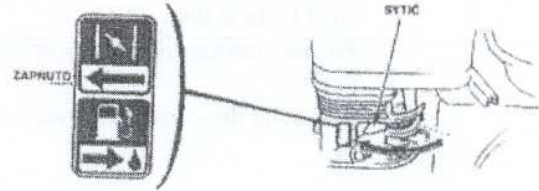
1. Turn the fuel tap into the ON position.



2. Turn on the electric switch of ignition .



3. Engage the choke („CHOKE“). Do not use it at warm engine or at high ambient temperature.



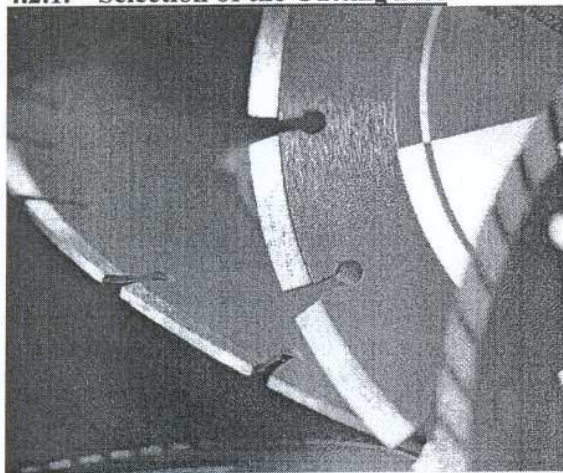
4. Adjust the throttle control lever to idle.
5. Pull out the starter grip slowly till some resistance is felt, then pull vehemently. Do not release the grip, but return it slowly into the original position.
6. Let the engine to warm up, then disengage the choke.
7. Let the engine to run at idle for a while before loading.
8. For cutting, shift the throttle control lever to fully open position.

DANGER!

The spindle and the cutting disc begins to rotate immediately. Be sure that the revolving disc would not cause any danger for the bystanders. Have the disc cover closed before starting.

4.2. Operation

4.2.1. Selection of the Cutting Disc



For safe and efficient operation, right selection of the cutting disc is highly important. Choose a high-quality diamond cutting disc and appropriate type depending on the material to be cut (asphalt, concrete).

Cutting discs of most suppliers are divided in quality categories (standard/profi etc.), sometimes also according to length and height of the diamond segments, spacing, etc.

Cutting disc diameter is to be selected according to the type of the machine; if possible, choose always the maximal allowed diameter (RZ 120 ... 350 mm, RZ 170 ... 450 mm). The spindle speed is adjusted for this size to keep optimal circumferential cutting speed of the disc.

4.4.1. Manual Handling

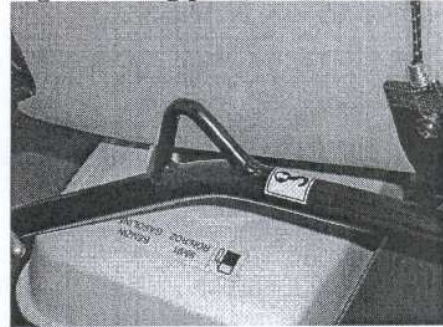
For manual lifting, cooperation of more people is required. Hold the machine by frame or the base plate. Never lift the machine by engine.

4.4.2. Handling by Crane

Use a crane of sufficient payload (see Technical Data). Observe the regulations valid for operation of cranes. Only qualified personnel may carry out this work.

Fasten the lifting cable to the marked point at the machine.

Cutters RZ 121R and RZ 171R should not be lifted by a crane.

Fig. Hooking point**4.4.3. Handling by Forklift**

Should the machine be extensively handled by a forklift (as when sending it by a parcel service), it is recommended to palletize it. For one

machine use "small" pallet (0,8x0,6m), for two machines standard EUR pallet (1,2x0,8m).

4.4.4. Transport

Secure the machine against rolling over, falling down or sliding on the carrier. Fasten the binding means to suitable points at the frame.

NOTE:

The machine must be kept in upright position.

4.4.5. Storing

Store the machine on a safe place, secured from theft and misuse. We recommend an indoor dry place, without excessive concentration of chemical agents and dust.

Prior to long-term storing clean the machine, repair the paint and apply suitable preservation agents. Mark visibly that the machine has been conserved.

4.5. Special Conditions of Operation**4.5.1. Work at Low Temperatures**

The cutter is able to work even at low temperatures. Let the engine warm up sufficiently before commencing the work.

In case that the machine is difficult to start, let it warm up at room temperature first.

4.5.2. Work at High Altitudes

With rising altitude the engine power decreases due to changed air/fuel ratio. The engine power can be partially improved by changing of the main nozzle and different adjustment of the carburetor (gasoline engines) or different adjustment by the injector (diesel engines).

In case that the engine should work long-term above 1500 m above sea level, we recommend to contact a nearest authorized service for the respective engine.

In case that you plan this kind of operation already when purchasing a new machine, notify the manufacturer.

4.5.3. Work in Dusty Environment

In case of dusty environment shorten the cleaning/replacement intervals of the air filter to half. Clean the machine from dust regularly.

5. MAINTENANCE

The basic activities of maintenance, which are described in this Manual can be carried out by the designated operator.

Repairs and adjustments beyond the extent of this Manual should be committed to an authorized service.

NOTE:

During the warranty period, no interventions to the engine are allowed, except for prescribed maintenance.

5.1. Maintenance of the Engine

- see enclosed Engine Operation Manual

5.2. Tensioning of the Drive Belts

check regularly tensioning of the drive belts that drive the cutting disc. Deflection of the belts under finger pressure should be about 2 cm.

To tension the belts, proceed as follows:

- loosen 4 bolts which fasten the engine to the base plate

- turn the tensioning screw to tension the belts
- re-tighten the fastening bolts

When replacing the belts, use all belts of the same type and dimension.

NOTE! Do not over-tension the belts!

5.3. Inspection of Bolted Connections

It is recommended to inspect the bolted connections daily before work.

5.4. Adjustment of Engine Speed

In case of engine replacement or repair it is necessary to adjust engine speed. Proceed as follows:

Engine speed can be measured either by contact or non-contact revolution meter. If the contact one is used, remove the belt cover first.

The engine speed should be 3600 RPM.

The disc spindle speed should be:

RZ 120, RZ 121R 3600 RPM

RZ 170, RZ 171R 2800 RPM

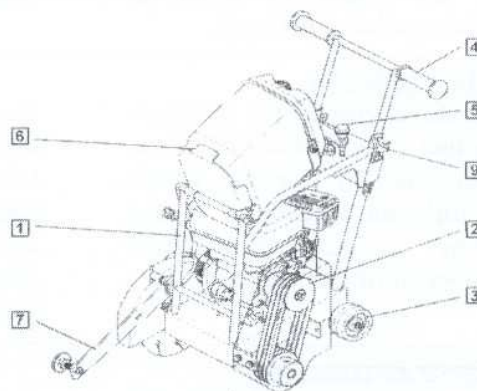
NEVER ADJUST HIGHER ENGINE SPEED THAN SPECIFIED!

(The engine could be damaged due to excessive vibrations.)

The manufacturer shall not honor any warranty claims arising from excessive speed of the engine!

THIS ADJUSTMENT SHOULD BE DONE BY AN AUTHORIZED SERVICE DURING THE WARRANTY PERIOD!

Fig. Basic groups of the cutter (see parts book for details)



4.4.1. Manual Handling

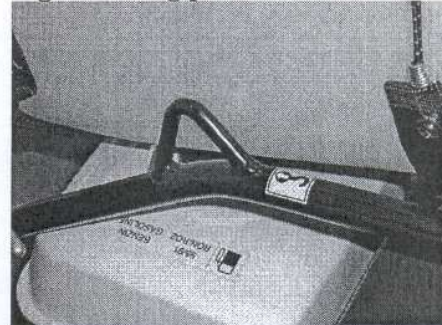
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Secure the machine against rolling over, falling down or sliding on the carrier. Fasten the binding means to suitable points at the frame.

NOTE:

The machine must be kept in upright position.

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Store the machine on a safe place, secured from theft and misuse. We recommend an indoor dry place, without excessive concentration of chemical agents and dust.

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The engine speed should be 3600 RPM.

The disc spindle speed should be:

RZ 120, RZ 121R 3600 RPM

RZ 170, RZ 171R 2800 RPM

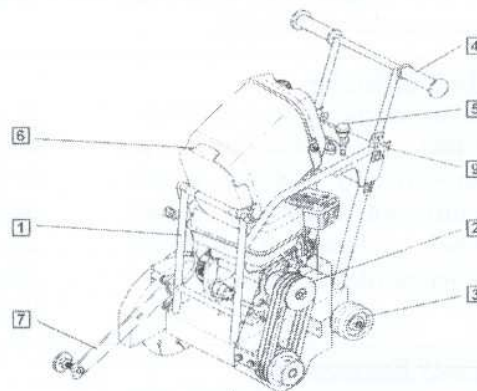
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(The engine could be damaged due to excessive vibrations.)

The manufacturer shall not honor any warranty claims arising from excessive speed of the engine!

THIS ADJUSTMENT SHOULD BE DONE BY AN AUTHORIZED SERVICE DURING THE WARRANTY PERIOD!

Fig. Basic groups of the cutter (see parts book for details)



5.5. Assembly of pulleys

Asphalt cutters RZ 111, RZ 121 and RZ 171 (since 2003) are fitted with belt pulleys with split taper bushes. These pulleys do not have secured axial position and therefore it is necessary to pay care to proper assembly.

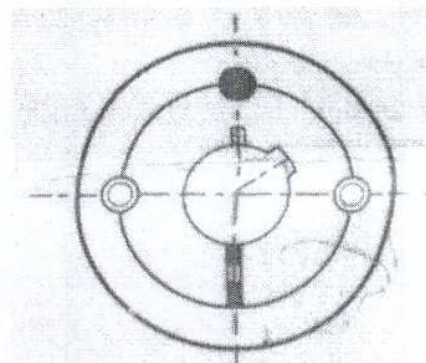
Assembly procedure:

- fit the pulley with the bush on the spindle shaft
- locate the pulley as far as possible towards the shoulder
- fasten the bush (see below)
- fit the pulley with the bush on the engine shaft
- use a liner to line-up the pulleys
- fasten the bush (see below)

Fastening of the bush:

- clean and de-grease the inner bore and taper surface of the bush and the tapered bore of the pulley
- insert the bush into the pulley and line up the holes (half-thread holes must line up with half straight holes)

- lightly oil the grub screws and screw them in, do not tighten yet
- clean and de-grease the shaft, fit pulley with taper bush on the shaft and locate in desired position
- using a hexagon socket wrench tighten the grub screws in accordance with the torques as listed below
- it is possible to knock the bush into the pulley with wooden block and a hammer



Types of bushes and torques:

Machine model	Engine shaft	Torque	Spindle shaft	Torque
RZ 111	bush 1210	20 Nm	bush 1210	20 Nm
RZ 121	bush 1610	20 Nm	bush 1610	20 Nm
RZ 171	bush 1108	5,6 Nm *	bush 1610	20 Nm

* For RZ 171 engine shaft, use the key supplied with the engine.

6. MAINTENANCE SCHEDULE

This maintenance schedule contains only the most important operations. Besides of these operations, carry out maintenance and repairs of the machine as necessary depending on the respective conditions of operation. Check also the engine operation manual.

WARNING:

Turn off the engine before any maintenance or repair activity.

Use genuine spare parts only. Use of non-original spare parts may lead to damage to the machine. The manufacturer will not honor any warranty claim arising from such reason.

Item	Operation	Initial inspection	After 1st month or 20 hrs.	Every 3 months or 50 hrs.	Every 6 months or 100 hrs.
Engine oil	Inspection of oil level	<input checked="" type="checkbox"/>			
	Exchange		<input checked="" type="checkbox"/>	DAILY	<input checked="" type="checkbox"/>
Air filter	Inspection Cleaning	<input checked="" type="checkbox"/>		DAILY As necessary	
Spark plug (gasoline engines)	Inspection - cleaning				<input checked="" type="checkbox"/>
Injection system (diesel engines)	Inspection - cleaning			Every 12 months or 300 hrs. (2)	
Filter bowl	Cleaning				<input checked="" type="checkbox"/>
Fuel hose	Inspection - Exchange			Every two years	
Valve clearance	Inspection - adjustment			Every 12 months or 300 hrs. (2)	
Fuel tank and sieve	Cleaning			Every 12 months or 300 hrs. (2)	
Drive belt	Tensioning			<input checked="" type="checkbox"/>	
Handle assembly	Lubrication				<input checked="" type="checkbox"/>

- To be carried more often when operating in dusty environment!
- It is recommended to be carried out by skilled technician.
- Use the dipstick for oil level inspection (supplied with every machine as an accessory)