



Snow Blower City Ranger 2260/2250

EC Certificate of Conformity

EG-Konformitätserklärung / Déclaration de conformité pour la CEE Certificato di conformita Comunitario / Declaración de conformidad para la CEE / EC Certificate of Conformity

Wir / Nous / Noi / Nosotros / We RAPID Technic AG

(Name des Anbieters) (Nom du vendeur) (Nome del fornitore) (Nombre del vendedor) (Name of supplier)

CH 8956 Killwangen, Industriestrasse 7

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erklären in alleiniger Verantwortung, dass das Produkt déclarons sous notre seule responsabilité que le produit dichiariano sotto la nostra piena responsabilità che il prodotto declaramos bajo nuestra responsabilidad, que el producto declare in sole responsibility, that the product

Schneefräse Typ: 1565/1566

auf das sich diese Erklärung bezieht, den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Richtlinien 2006/42/EWG (89/392/EWG) enspricht.

faisant l'objet de la déclaration est conforme aux prescriptions fondamentales en matière de sécurité et de santé stipulées dans la Directive de la CEE 2006/42 (89/392/CEE).

cui la presente dichirazione si riferisce, risponde alla normativa CEE 2006/42 (CEE 89/392) in materia di sicurezza e sanità

a presente declaración referida, responde a la Normativa CEE 2006/42 (CEE 89/392) en materia de seguridad y sanidad

to which this certificate applies, conforms to the basic safety and health requirements of EEC Directions 2006/42 (EEC 89/392)

Zur sachgerechten Umsetzung der in den EG-Richtlinien genannten Sicherheits- und Gesundheitsanforderungen wurde(n) folgende Norm(en) und/oder technische Spezifikation(en) herangezogen:

Pour mettre en pratique dans les règles de l'art les prescriptions en matière de sécurité et de sante stipulées dans les Directives de la CEE, il à été tenu compte de la/des norme/s et/ou de la/des spécification(s) téchnique(s) suivante(s):

Per un'appropriato riscontro nell'ambito della normativa CEE delle norme di sicurezza e sanitarie sopro citate, e (sono) stata(e) consultata(e) la(e) seguente(i) norma(e) e/o specifica(che) tecnica(che):

Para poner en practica dentro de la reglas prescritas en materia de seguridad y de sanidad dentro de las Normativas de la CEE, hay que tener en cuenta la(s) norma(s) y la(s) especificación(es) técnica(s) siguiente(s):

To effect correct application of the safety and health requirements stated in the EEC Directions, the following standards and/or technical specifications were consulted:

EN ISO 4254-1; 2005

(Titel undloder Nummer sowie Ausgabedatum der Norm(en) undloder der technischen Spezifikation(en))
(Titre etlou numéro et date de publication de la/des norma(e) etlou de la/des spécification(s) technique(s))
(Titlolo elo numero, data di promulgazione della(e) norma(e) elo specifica(che) tecnica(che))

(Título y/o número y fecha de publicación de la(s) norma(s) y/o de la(s) especificación(es) técnica(s))

(Title and/or number and date of issue of standards and/or specifications))

Entwicklungsleiter / Chef du service techn. / Direttore tecnico / Director técnico / R & D Manager Dokumentationsbevollmächtigter

Dietikon, den 17.12.2009

K. Iten

A. Nussbaumer

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Honest Machines

1.0 First thing first

Purpose of this The operating instructions contain important information enabling you to operate the machine safely, correctly and economically. By paying attention to the instructions, you will help to prevent accidents, reduce repair costs and downtimes, and increase the service life and reliability of the machine. The operating instructions are included in the scope of delivery of the machine.

Before commissioning The operator has to read the operating instructions of the machine and the engine manufacturer before putting the machine into operation.

Other documents Spare parts list, article no. 281 872

1.1 Safety terms and their symbols and meaning in these instructions



Danger

In conjunction with the term "Danger", this symbol stands for an immediate danger, which results in severe injury or death.



Warning

In conjunction with the term "Warning", this symbol stands for a potentially dangerous situation, which results in severe injury or death.



Caution

In conjunction with the term "Caution", this symbol stands for a potentially dangerous situation, which results in minor injury or damage to equipment.



Notice

The term "Notice", stands for a situation which results in damage to equipment.

1.2 Responsibilities



Owner

The owner guarantees the use of the machine for the specified purpose and the safe condition of the machine and its mounted devices.

He shall inform Rapid/Egholm immediately of asafety defects becoming apparent on the machine or its mounted devices.



Service centers

Complex work on the machine must only be carried out by an authorized Rapid/Egholm service center.



User

The machine must only be used, serviced and repaired by persons familiar with such work who have been informed of the potential dangers involved.



Specified use

Specified use includes:

- Snow clearing
- Operating basic machines approved by Egholm
- Compliance with operation, service and maintenance as prescribed by the manufacturer
- Use of original Rapid/Egholm spare parts

Use other than the above-mentioned is considered not to be in accordance with the specific use. The manufacturer cannot be held responsible for any damage resulting from such use. In that case, only the user is responsible.

2.0 Safe operation



Prerequisites Users of the machine must strictly adhere to the following instructions apart from the warning

signs and warning information in the operating instructions:

- Before operating the machine, it must be checked for traffic and operational safety
- When using the machine, it is forbidden to wear long loose hair and loose clothing or jewelry, which might become trapped in the machine.
- Closed footwear with non-slip soles is indespensable.
- Before starting to work, the user must be acquainted with all facilities and control elements and their functions.
- All defects must be rectified before each use.
- All safety equipment must be properly installed.
- The operator bears the full responsibility for third parties in the danger zone.
 Stones and other objects might be projected during work. Persons, particularly children, and pets must be kept away from the machine.
- Any working method impairing the stability of the machine is prohibited.
- Foreign objects must be removed from the area to be worked on before starting work.
 Milestones, pieces of stone, drainage covers etc. should be identified with a marker post before the work is begun.
- Only work during daylight hours or with sufficient artificial lighting.
- · Working on the machine under the influence of alcohol or drugs is strictly forbidden.
- Never allow children to use the machine.
- Persons or pets must not be transported on the machine.
- When leaving the machine, secure it against rolling away and unauthorized use
- No changes must be made to safety equipment.
- Never remove any warning sign. Replace lost or illegible warning signs.
- Always turn off the engine and the blower drive in case of obstructions in the discharge chute and wait until the snow blower is completely stopped. Then use a wooden rod to remove the obstruction.

Accident prevention regulations

The accident prevention regulations and the generally approved safety-related rules must be observed.

Stopping the In case of unexthe **blower drive** parking brake.

In case of unexpected situations, immediately switch off the blower drive and apply parking brake.

2.1 Workstation

Working place (A) is situated at the handlebar. The operator must not leave the handlebar while working.

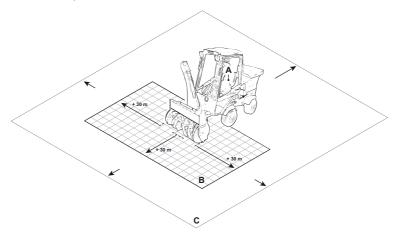
2.2 Danger zone

Working on even terrain and slopes with an inclination of up to max. 10%.

The danger zone [B] is defined, starting from the attachment unit, as follows:

- 30 m to the front.
- 30 m to each side.
- to the rear up to the wheel axle of the machine.

Do not use the blower on slopes with an inclination of more than 10%.



\triangle

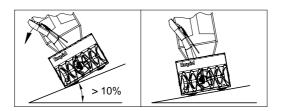
DANGER

Machine

The machine can trap the user or third persons, cause them to fall over, run them over, crush or lacerate them. Apart from this there is a danger of flying stones.

- The operator bears the full responsibility that there are no persons within the danger zone.
- Do not touch machine parts until they have come to a complete standstill (moving parts continue to run).

2.3 Working on the slope or in uneven terrain





WARNING

Slopes

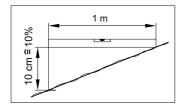
On slopes with an inclination of more than 10% or on uneven terrain the machine may slip or

topple over.

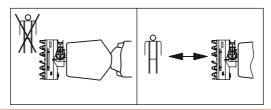
- Observe the ambient conditions.
- · Inspect the subsoil before working.
- Select the correct tires: if necessary, snow chains,
- · Correct air pressure in the tires.
- Use the largest possible track width and axle width.
- · Adapt your speed.
- · Keep people away from the danger zone.

NOTICE

Simple checking of the slope inclination in % with a spirit level, see illustration below.



2.4 Working



DANGER

Machine

The machine can trap the user or third persons, cause them to fall over, run them over.

crush or lacerate them.

- Do not touch machine parts until they have come to a complete standstill parts continue to run).
- Keep people away from the danger zone.

2.5 Fire or poisoning

DANGER

Fuels are highly inflammable and constitute an explosion hazard. Combustion gases can

result in poisoning or suffocation.

- Always turn the engine off and allow it to cool down before filling up with fuel
- Do not expose the machine to open fires.
- No smoking in the vicinity of the machine.
- Do not let the engine run in enclosed areas.

2.6 Noise and vibration



CAUTION

Noise and vibration

Health hazard due to noise and vibration. Long-term exposure to noise and vibrations may

damage your health.

- Wear ear protectors.
- Adjust your working hours accordingly.

2.7 Safety stickers and their position



Symbol	Meaning
	Read and observe the operating instructions and safety information before putting the machine into operation.
STOP STOP	Machine parts should only touched after they have come to a complete halt.
<u></u>	Danger due to rotating screw. Maintain safety distance.
	Danger due to rotating machine parts. Keep hands and feet away from rotating parts.
	Danger due to rotating screw. Keep hands and feet away from rotating parts.
<u> </u>	With the blower drive running, there is a risk of parts being hurled away. Maintain a safety distance.
	Shut off engine and remove key before performing maintenance or repair work.

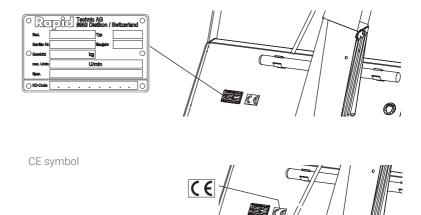
Honest Machines

3.0 Identification / Labeling

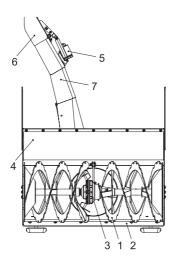
3.1 Manufacturer's nameplate

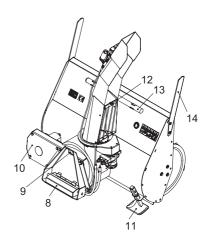
When ordering spare parts or in case of inquiries with regard to the machine, please indicate the device type and vehicle number always.

3.2 Markings



4.0 Machine parts





- Cutter 1.
- 2. Scraper bar
- 3. Gears
- Protective cloth
- 5. Electric cylinder "Ejection door adjustment"
- 6. Ejection door
- 7. Discharge chute
- 8. Plug connection
- 9. Coupling triangle
- 10. Cover "tooth belt"
- 11. Sliding block
- 12. Protection fence
- 13. Rod
- 14. Drift cutter

5.0 Attaching on basic machine

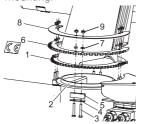
NOTICE

It is assumed that you have read and understood the chapters "First things first" and "Safe operation".

5.1 Fastening the discharge shute

If the discharge chute is delivered separately for reasons of transport, place it onto the

discharge connection piece and fasten it using the material provided for mounting.



- Discharge chute (1)
- Discharge connection piece (2)
- Screw(3)
- Base plate (4)
- Plastic part (5)
- Gear segment (6)
- Nut (7)
- Cover (8)
- Stop nut (9)

5.2 Coupling and uncoupling the snow blower

Attaching

- Open the attachment unit lock on the basic machine.
- Approach the basic machine to the snow blower until the coupling triangles interlock.
- Lift the coupling triangle by means of the joystick (chapter 6.2) until the snow blower no longer touches the ground.
- Switch off the motor.
- Close the attachment unit lock (chapter 6.1).

Detaching

Takes place in reverse order to coupling

NOTICE

It is assumed that you have read and understood the operating instructions of the basic machine



WARNING

Machine

The machine can suddenly trap the user of third persons, cause them to fall over or run them over

 After attaching the snow blower, check whether the attachment unit locking bolt is engaged and the snow blower is connected to the basic machine.



DANGER

Machine

The machine can suddenly trap the user or third persons, cause them to fall over, run them over, crush or lacerate them.

 Coupling and uncoupling the snow blower may only be done when the engine is turned off.

6.0 Drive

NOTICE

It is assumed that you have read and understood the chapters "First things first" and "Safe operation".

6.1 Attachment unit lock

See operating instructions of the basic machiene A = Attachment unit lock





Unlocked

Locked

6.2 Lifting and lowering the snow blower

See operating instructions of the basic machine



The joystick (B) can be used to lift and lower the snow blower.

- "Joystick towards the rear "snow blower is lifted".
- "Joystick towards the front "snow blower is lowered".

6.3 Turning the discharge chute

See operating instructions of the basic machine



Use the joystick (B) to turn the discharge chute and to set the throwing direction.

- "Joystick to the right "Discharge chute turns to the right".
- "Joystick to the left "Discharge chute turns to the left".

↑ WARNING

Projected parts

Projected parts may hit persons, animals and objects.

- Do not point the discharge chute in direction of people, animals and objects.
- Keep people away from the danger zone.

6.4 Ejection door adjustment

See operating instructions of the basic machine



Adjust the ejection door and set the throwing distance by activating the switch (C).

- Pos. 1 = Door upwards.
- Pos. 2 = Door downwards.

The steeper the door is adjusted, the higher and farer the snow will be projected.

★ WARNING

Projected parts

Projected parts may hit persons, animals and objects.

- Do not point the discharge chute in direction of people, animals and objects.
- Keep people away from the danger zone.

6.5 Switching on and off the blower drive

See operating instructions of the basic machine



The blower drive can be switched on and off by activating the switch (D).

- On = Blower drive on
- Reverse/off = Blower drive off.

↑ WARNING

Projected parts

Projected parts may hit persons, animals and objects.

- Do not point the discharge chute in direction of people, animals and objects.
- Keep people away from the danger zone.

6.6 Adjusting the skid shoes

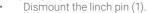
The skid shoes are used to adjust the distance between ground and scraper bar. Depending

on the type of snow clearance, adjust the skid shoes as follows:

 If the ground is asphalted or cemented, the scraper bar can work directly on the

ground (complete snow clearance).

• On loose ground, the scraper bar may not touch the ground and must be adjusted to the corresponding height (upper snow clearance).



- Adjust the skid shoes (2) to the desired height.
 - Mount the linch pin (1).

NOTICE

The height of the skid shoes has to be adjusted to the same height on the left and the right side.

Projected parts

Projected parts may hit persons, animals and objects...

• Take into account the ground when adjusting the skid shoes.

6.7 Drift cutter

The higher the engine speed, the higher the throwing distance.

6.8 Operating the snow blower

Work with max. engine speed during snow clearance. Regarding the travel speed, observe

that the engine speed does not reduce excessively (risk of plugging).

NOTICE

The higher the engine speed, the higher the throwing distance.

6.9 Moving, maneuvering the snow blower

When maneuvering or moving the snow blower, the blower drive must be switched off.

NOTICE

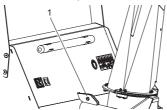
For transport protection see operating instructions of the basic machine.

6.10 Transporting without basic machine

- Transport the snow blower in horizontal position only.
- Secure the snow blower against rolling or slipping.

6.11 Loading / Lifting

The machine can be lifted easily and securely on the device (1) by means of a crane hook or rope.



↑ WARNING

Machine

The machine can fatally injure persons and animals and destroy objects.

- Persons must keep away from the lifted load.
- Only use permitted lifting devices.
- Observe the lifting capacity of the ropes and the machine weight.
- Separate the snow blower from the basic machine when loading it.

6.12 Leaving the machine

- Stop the machine.
- Switch off the blower drive.
- Turn off the engine.
- · Apply the parking brake.
- Remove the ignition and starter switch.

⚠ WARNING

Machine

The machine can suddenly trap the user or third persons, cause them to fall over or run them over.

- Never leave the machine while the engine is running.
- Secure the machine against rolling away and unauthorized use.

Honest Machines

7.0 Maintenance

NOTICE

It is assumed that you have read and understood the chapters "First things first" and "Safe operation".

- After cleaning, all parts must be lubricated according to the maintenance schedule.
- Check nuts and screws according to the maintenance schedule for tight fit.
- If the machine is not to be used for more than 2 months it is recommended to protect it against corrosion.



Machine

The machine can suddenly trap the user or third persons, cause them to fall over, run them over, crush or lacerate them

- Cleaning and maintenance work and the removal of safety equipment must only be carried out when the engine is turned off and the parking brake is applied.
- Maintenance work must only be carried out when the snow blower is detached from the basic machine.
- · Replace defective parts.

7.1 Malfunctions

Engine running, but snow blower is not being powered!

- Blower drive switched off.
- Snow blower connection is not engaged.

Engine running, but snow is not ejected!

Discharge chute clogged.

NOTICE

If you are unable to remedy the malfunction yourself, consult an authorized Egholm dealer.

7.2 Eliminating the plugging inside the discharge chute

Remove the plugged snow by using the rod fastened on the blower housing. Do not use metal objects.

↑ WARNING

The machine can suddenly trap the user or third persons, cause them to fall over, run themover, crush or lacerate them.

- · Switch off the blower drive and wait until the cutter stands completely still.
- Foreign objects may only be removed when the engine is turned off, the parking brakeapplied and the hydraulic hoses "Blower drive" removed.
- Operate the blower drive with fitted protection fence only.
- Do not reach into the discharge chute.

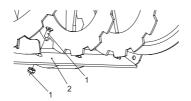
7.3 Overload protection of the blower drive

The basic machine must be equipped with a hydraulic pressure control valve (hydraulic overload protection).

If the snow blower collides with obstacles (stones, wood, etc.), the pressure control valve is activated avoiding damages on the snow blower.

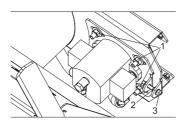
7.4 Replacing the scraper bar

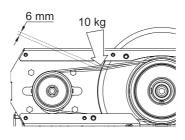
Remove the scraper bar if it is worn.



- Lift the machine (see chapter 6.2 and 6.11)
- Remove the screw joint (1), 6 pieces.
- Replace the scraper bar (2).
- Use a screw joint (1) to tighten the scraper bar to the housing.
- Lower the machine.

7.5 Tightening the toothed belt





Set the tension of the toothed belt:

- Dismount the protective cover.
- Unscrew the 4 screw joints (1).
- Unscrew the lock nut (2).
- Rotate the screw joint (3) until the required belt tension is reached.
- "Tighten the lock nut (2).
 - "Tighten the 4 screw joints (1).
- Refit the protective cover.

Belt tension:

- New toothed belt 116 125.4 Hz
- Toothed belt in use 90.8 107.4 Hz or
- pressure of 10 kg = deformation of 6 mm

7.6 Maintenance plan

Regular maintenance prolongs the service life of the machine. More regular maintenance is

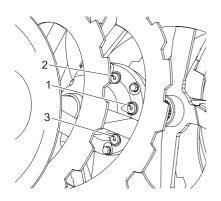
necessary for applications under difficult conditions.

	When								
Work to be done	for the first time after 10 hours	before commissioning	weekly	monthly	as required	every 50 hours or at least once a year	Service* every 100 hours or at least once a year	every 250 yours	How see chapter
Gears									
Check oil level, top up if necessary							*		7.8
Change oil, amount 0.3 liters							*		7.8
Lubricate lubrication points							*		7.9
Check, replace the toothed belt							*		7.5
Check all nuts and screws for tight fit							*		
Carry out a short test drive							*		

7.7 Table of consumables

	Name		API / Specification		
Gears	MOTOREX Gear Oil Universal 90	SAE 80W/90	GL-5 MIL-L-2105D		

7.8 Changing the gear oil/ checking



Oil level check

- Bring the machine into a horizontal position.
- Unscrew the level screw (1), a small amount of oil should leak from the opening.
- If necessary, unscrew the charging screw (2) and top up with the prescribed oil.
- Screw in the charging screw (2) and the level screw (1).

Oil change

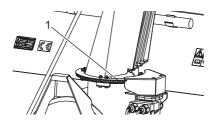
- · Unscrew the charging screw (2).
- · Unscrew the drain plug (3).
- · Drain off the oil.
- · Screw in the drain plug (3).
- Fill in the prescribed oil quantity.
- · Check the oil level.
- · Screw in the charging screw (2).

NOTICE

Check the oil level

When refilling oil or checking the oil level, the machine must be positioned horizontally.

7.9 Lubrication layout



Lubrication points
1) Toothed wheels

Lubricating greaseLithium soap base NLGI 2 (multipurpose grease)

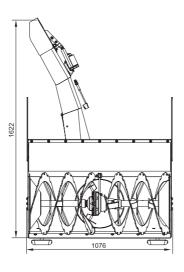
9.10 A Appendix

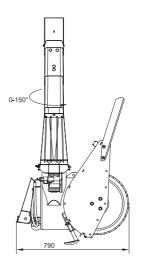
Technical data

Snow blower for smooth snow

Type 1562 (SF105)
Clearance width 105 cm
Diameter of the cutter 46 cm
Diameter of the impeller 35 cm
Max. shaft speed 1000 RPM
Weight 170 kg

Dimensions





Conditions

Honest Machines

Conditions

8.1 Warranty

The warranty period for the materials and manufacture of this Snow Blower is 12 months from the date of purchase. In case of errors or defects on the machine within the warranty period, Egholm will carry out the necessary repairs at no charge to the customer, including materials and working hours, in accordance with the terms and conditions listed below.

The scope of warranty:

- 1. The Egholm warranty is only valid on presentation of the original receipt supplied with model description, serial number and date of purchase.
- 2. Regular checks, adjustments, services and technical alterations are not covered by the warranty.
- 3. All inquiries concerning the warranty are to be addressed to the place where the machine was purchased.
- 4. This warranty does not cover faults and defects which cannot be traced back to defects in material or production errors.
- 5. This warranty is valid for persons who have legally acquired the machine within the warranty period.
- 6. In the event of failure to perform and substantiate service in accordance with the applicable instructions, Egholm reserves the right to reject any claim made within the warranty period.
- 7. Egholm reserves the right to make improvements and design-related alterations to the machine without being obliged to modify previously delivered models in relation hereto.

The warranty does not cover:

- · Wear and tear, accidents, damage to the equipment caused by operating errors, changes to the construction of the machine or use of non-Eqholm spare parts or attachments.
- · Machines with illegible serial numbers.
- · Damage cause by force majeure such as lightning, flood, fire, war, civil disturbance etc., or other causes over which Egholm has no control.

Conditions

8.2 Complaint

All inquiries regarding the machine should be made at the distributor from whom the machine was purchased. This applies to inquires concerning normal use, service, maintenance and spare parts as well as any complaints.

We wish you many years of safe and satisfied use of your machine.

Best regards Egholm A/S

8.3 Disposal

When — in many years from now — your Snow Blower has reached the end of its working life it should be disposed of in a responsible manner and in compliance with the relevant disposal regulations.

- 1. Used hydraulic oil is to be disposed of at an approved waste disposal facility or site.
- 2. Remove all plastic and rubber parts and dispose of.
- 3. After the parts mentioned have been removed, the machine is ready to be handed over to an approved scrap merchant.

Wearing parts

Honest Machines

Wearing parts

9.1 Wearing parts -City Ranger 2260-2250 Snow blower



E01604240 Toothed belt



E01905070 Tightening pin



E90605070 Slide shoe



E90605090 Scraper bar



E90605100 Protective cloth

Notes

Notes

Notes

Egholm A/S

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