

HANSA C5

Operation, maintenance and safety manual

Original Instructions



All operators must fully read and understand this operator's manual before using the equipment. Keep this manual for future reference.



3 YEAR | **GLOBAL WARRANTY**

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MANUFACTURER: HANSA NEW ZEALAND



+64 7 849 4749



info@hansaproducts.co.nz



www.hansaproducts.com

REST OF WORLD:

Please refer to www.hansaproducts.com for a current list of our authorised dealers and contact details relevant to your territory

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What can my Hansa chipper process?

Intended uses of the chipper

The Hansa C5 chipper is built to process organic material including wooden branches not exceeding 60 mm in diameter. It is designed for intermittent use by the suburban gardener. **Do NOT** use the chipper for any other purpose.

Organic wastes include:

- ✓ Prunings, stalks, roots, vegetable matter, hay, grass, bark
- ✓ Dry manure
- ✓ Branches
- ✓ Palm fronds
- ✓ Dead and hard timbers (Note: these will dull the knives faster)
- ✓ Paper or cardboard

Do NOT process:

- ✗ Bones
- ✗ Soil, root balls, sand, grit, stones, metal

If you have any questions, contact your authorised dealer.

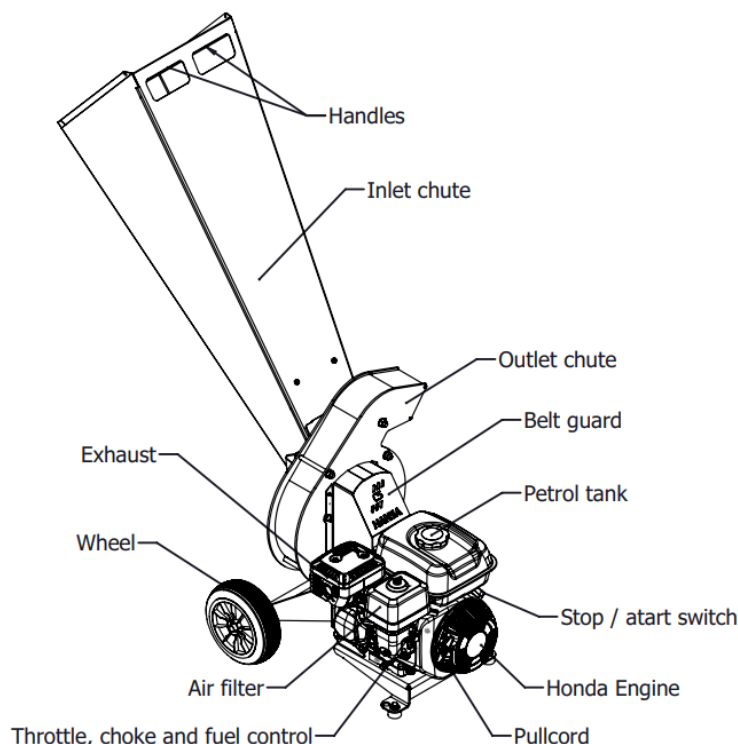


Do NOT exceed 60 mm branch diameter

Receiving your Hansa chipper

You may receive your chipper assembled from your dealer or it may be packaged in two boxes. Assembly takes approximately 30 minutes, two people working together will make the assembly easier.

Chipper components



Tools required for assembly (not supplied)

- A knife to cut open the box
- Two 13 mm spanners - to tighten the inlet chute



All the C5 parts in two separate boxes

Box 1 contains:

- ✓ The chipper body
- ✓ Axle/wheel assembly
- ✓ Fastener pack



CAUTION: The chipper body weighs 53 kg; it is recommended to cut the box open rather than lifting the body out.



Contents in box 1



Chipper body



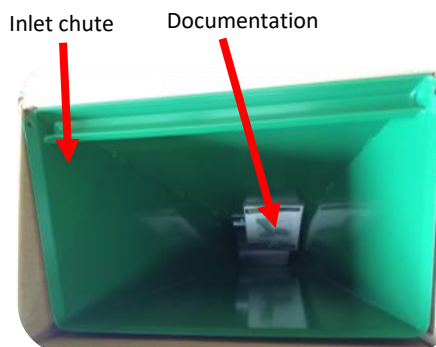
Axle



Fastener pack

Box 2 contains:

- ✓ The inlet chute
- ✓ A fastener pack containing parts required for assembly
- ✓ Documentation (Hansa operations manual, warranty card and Honda motor manual)



Contents in box 2



Fastener pack

Item no.

Fastener pack contents (in box 1)

1



Four **bolts** to attach the axle

2



Two **washers** to attach the axle

3



Two **clamping plates** to attach the axle

4



Two **nyloc nuts** to attach the axle

Item no.

Fastener pack contents (in box 2)

5



Two **bolts** to attach the inlet chute

6



Two **heavy washers** to attach the inlet chute.

7



Two **spring washers** to attach the inlet chute

8



Two **nuts** to attach the inlet chute

Assembly

Fit the axle

1



Prop the base of the chipper body up on a block (or similar item) approx. 100 mm high, so that the axle mounts are high enough off the ground to attach the axle and wheels. Put a washer (item no. 2) onto each bolt (item no. 1), then put one bolt into each clamping plate (item no. 3). Put the other sides of the bolt into the lower holes of the axle mounts at the bottom of the chipper body.

Loosely attach a nyloc nut (item no. 4) to the end of the bolt threads. Once both clamping plates are in position, place the axle on top of the bolts between the housing and clamping plate. The axle will rest on the shanks on the bolts (as per the image).

2



Place another bolt (item no. 1) through the top holes of the clamping plate (item no. 3) and axle mount. Ensure there is a washer (item no. 2) between the head of the bolt and the clamping plate. Fasten a nyloc nut (item no 4) to the other end of the bolt. Tighten all four bolts evenly using two 10mm spanners. Do not overtighten, as this can cause the clamping plate to bend. Check to make sure the axle is properly secured on both sides.

Fit the inlet chute



3



Fix the inlet chute – slide the tab at the base of the inlet chute over the tab at the top of the rotor housing. Adjust the inlet chute until the holes at the back of the rotor housing line up with the holes on the back of the inlet chute.



4



Line up the holes and insert the bolts (item no. 1), heavy washers (item no. 2), spring washers (item no. 3), and nuts (item no. 4). Ensure that the heavy washer is touching the chipper body (top) and the spring washer is touching the nut (bottom).

Safety

Preventing accidents is the responsibility of every equipment operator. The operator is responsible for any accidents or hazards occurring to people or their property. Ensure every operator is familiar with the safe operation procedures and controls of the machine, how to identify hazards, and the steps required to avoid injury while handling and operating the chipper. Relevant information is contained in this manual.

- ✗ **Do NOT** modify the design of the chipper.

Operator competency

- ✓ Ensure that every person operating the chipper understands and follows the safe operating and maintenance procedures as detailed in this manual.
- ✗ **Do NOT** allow persons below the age of 18 to operate the chipper. Additionally, local regulations may restrict the age of the operator.
- ✗ **Do NOT** allow persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge to operate the machine.

Identifying hazards and risks

Identify hazards and risks, and take preventative steps to avoid accidents and minimise risk. Possible hazards include, but are not limited to, moving parts, thrown objects, weight of chipper and components, and the operating environment.

Below is a list of hazards and actions required to prevent injury.

 Hazard	Risk	Corrective action
 Dust	Injury or irritation of the eyes Respiratory irritation	Wear safety glasses Process freshly cut materials and/or wear a dust mask
 Exhaust Fumes	Respiratory irritation	Place the chipper in a manner that the operator is not exposed to direct exhaust fumes
 Hot Exhaust	Heat burns	Keep bare hands and other body parts a safe distance away from hot exhaust
 Fire	Heat burns	Clear any build-up of chipping debris around the engine and exhaust regularly
 Belt Drive	Skin pinching and/or abrasions	Ensure that the belt guard is in place, and keep away from the belt
 Cutting rotor and knives	Pinching, crushing, cutting, severing	Keep your face and body out of the inlet chute <ul style="list-style-type: none">✗ Do not extend hands/arms past the rubber flap✓ Use a stick to push materials into the inlet chute✗ Do NOT push the stick beyond the rubber flap
 Sound	Damage to hearing	Always wear hearing protection when operating the machinery
 Discharge material	Eye injury, minor cuts	Always wear safety glasses when operating the machinery <ul style="list-style-type: none">✗ Do NOT put body parts in front of outlet chute✗ Do NOT put the machinery in a place where the outlet chute is directed on a hard surface
 Feeding material	Cuts and scrapes	Wear safety gloves Wear tight fitting long sleeves and pants to cover bare skin

when operating the machinery

⚠ Weight of the chipper	Straining, crushing	Place the machinery on firm level ground
⚠ Petrol, oil, grease	Poisoning, skin irritation, harmful vapours	Take care when handling petrol, oil and grease Wash skin if contaminated with petrol, oil or grease ❌ Do NOT refuel the chipper in enclosed areas

Operation

The chipper is self-feeding and has a large inlet opening. It can process:

- Prunings, stalks, vines, leaves, roots and vegetable matter, paper and cardboard
- Freshly cut material is better to process than dry material
- Maximum capacity is 60 mm diameter branches

It is helpful (but not required) to keep a wooden stick handy, approx. 50 mm diameter x 600 mm long for:

- Pushing in short, brushy and very leafy materials
- Keeping the inlet chute clear



Safe setup procedure

Before you start:

- ✅ Ensure the chipper is positioned in an open area and on firm level ground.
- ✅ Ensure that the outlet chute is discharged onto soft ground (e.g. grass) or an enclosed container
 - ❌ **Do NOT** allow the outlet chute to discharge chip onto hard surfaces (such as a paved or gravel surface)
 - ⇒ Ejected material can rebound and cause injury
- ✅ Keep children, pets and spectators clear of the work area at all times
 - ❌ **Do NOT** operate the chipper where there is a hazard to onlookers
 - ❌ **Do NOT** allow any person under the age of 18 to operate the chipper
- ✅ Check:
 - ✅ That all screws, nuts, bolts, and other fasteners are properly secured
 - ✅ That fuel and engine oil levels are above the minimum levels
 - ✅ That the fuel cap is secured and there is no fuel leaking from the tank
 - ✅ That all chipper components are in place and in good condition
 - ⇒ If any parts are worn or damaged, contact Hansa for replacements
 - ✅ That the inlet chute and housing are clear of any leftover material
 - ✅ That all labels are in good condition and easily legible
 - ⇒ Replace damaged or unreadable labels
 - ⇒ View photos of labels in the 'Decals' section
- ✅ Refuelling:
 - ⚠ Take extra care in handling fuels
 - ⇒ They are flammable and vapors are explosive
 - ⚠ Use only an approved fuel container
 - ✅ Always replace and securely tighten fuel cap after refuelling
 - ✅ Allow engine to cool down before refuelling
 - ✅ If you need to drain the fuel, ensure this is done outside
 - ❌ **Do NOT** smoke when using or refuelling the chipper
 - ❌ Never remove fuel cap or add fuel with the engine running
 - ❌ Never refuel the chipper indoors
 - ❌ Never store the chipper or fuel container inside where there is an open flame, such as a water heater
 - ❌ If fuel is spilled, do not attempt to start the engine. Wipe up the spilled fuel and move the chipper away from the area of spillage before starting

Safe operating procedure



DO:

- ✔ **Wear safety equipment:** Safety glasses, hearing protection and protective gloves must be worn at all times. - ensure that the gloves fit tightly.
- ✔ Tie long hair up
 - ⇒ Long hair could be pulled into the chipper
- ✔ Wear clothes that sit tightly
 - ⚠ Avoid scarves and any items that can get caught in the chipper
- ✔ Keep your face and body away from the inlet chute
- ✔ Stand clear of the discharge zone, even when no material is being fed into the machine
- ✔ Ensure the exhaust is pointing away from the working area and downwind from the operator and onlookers
- ✔ Keep proper balance and footing at all times and stand at the same level as the chipper
 - ✘ **Do NOT** overreach
 - ✘ **Do NOT** run near the machine
- ✔ Feed only freshly cut material into the chipper
 - ✘ **Do NOT** feed in materials covered in gravel, stones and dirt as this can rebound, injure the operator and damage the machinery
- ✔ Prune to a size that suits the chipper's capabilities
- ✔ Pre-cut side branches
 - ⇒ Branches will 'self-feed' more efficiently
- ✔ Keep the engine clean of debris and other accumulations
 - ⚠ This prevents damage to the engine or possible fire
- ✔ Feed limbs and branches through butt end first, leaving the foliage on
 - ⇒ This helps guide the limb down the inlet chute
 - ⇒ It reduces spinning and the occurrence of ejection of small pieces back up the inlet chute
- ✔ Hold larger branches back and feed the chipper with care until you are familiar with its capacity
 - ⇒ The engine will slow down or stall if the branch is too large
- ✔ Feed longer pieces together with short stubby pieces
- ✔ Feed soft materials intermittently with branches
 - ⇒ The wood chips tend to clean out any soft residue left in the chipper
 - ⇒ The chipper can clog up with soft, wet or fibrous materials
- ✔ Keep the outlet free of blockage
 - ⇒ If a blockage occurs, turn the engine off, disconnect the spark plug wire and wait for rotor to stop spinning. Open the outlet chute and remove material until the outlet chute is clear
- ✔ As the discharge material piles up
 - ⇒ Move the chipper to direct the outlet chute away from the pile, or move the processed material to avoid blocking
- ✔ Turn off the engine whenever you leave the work area



DO NOT:

- ✘ Run the chipper in an enclosed area
 - ⚠ Exhaust fumes contain carbon monoxide, which is poisonous, colourless, odourless, and tasteless
- ✘ Operate the chipper wearing loose clothing and untied long hair
- ✘ Stand at a higher level than the base of the chipper when feeding material into it
- ✘ Process old materials such as dried wooden branches
 - ⇒ They get very hard and springy when dried out
 - ⇒ They are more awkward to handle
 - ⇒ The knives dull much quicker
- ✘ Feed short, stubby pieces of wood into the chipper
 - ⇒ They bounce and spin in the inlet chute
 - ✔ Feed short stubby pieces together with longer pieces
- ✘ Feed branches that are too large
 - ⇒ The chipper can easily stall
- ✘ Put soil, sand, grit, stones, glass, pieces of metal or other foreign objects into the chipper

- ⇒ This will damage the sharp edge of the cutting knives and can rebound and injure the operator
- ✗ Put root balls and dead wood into the chipper
 - ⇒ This dulls the knives quickly
- ✗ Overload the chipper
 - ⇒ If the cutting rotor is slowing down, feed the material in slower
- ✗ Allow processed material to build up in the discharge area as this can:
 - ⇒ Prevent proper discharge
 - ⇒ Result in kickback of material through the feed opening
- ✗ Tamper with the engine governor settings on the chipper
 - ⇒ The governor controls the maximum safe operating speed and protects the engine and all moving parts from damage caused by overspeed
- ✗ Operate the chipper with blunt knives
 - ⇒ This causes excessive vibration which may result in damage to the chipper
- ✗ Move or tilt the machine while it is running
- ✗ Touch any guards or stick hands between guards while the machine is on or connected to a power supply
- ✗ Put hands or any other part of the body or clothing:
 - ⇒ Inside the feed chute past the rubber flap
 - ⇒ Inside or near the opening of the discharge chute
 - ⇒ Near any moving part
- ✗ Remove any guards on the chipper unless the engine is turned off and the cutting rotor has come to a complete standstill
- ✗ Leave the chipper on while it is unattended

Starting procedure

Before proceeding, ensure the 'safe setup procedure' has been followed on page 6 of this manual.



4

Choke lever
("off" position)



Once the engine is started and has warmed up (approx. 10 seconds), turn the choke lever to the "off" position (as shown in the picture).

Shutdown procedure

1



Throttle
lever ("min"
position)

Turn the throttle lever to the "min" position.

2



Turn the engine switch to the "off" position.

Petrol



The chipper requires 91 unleaded or E10 petrol to run; check the petrol level before starting.

Processing fibrous material

The C5 can process palm fronds, flax, cabbage tree leaves and other similar fibrous material. The machine's cutting disk is cantilevered (supported on the engine side with two bearings), therefore there is no risk of anything fibrous wrapping around the shaft and working its way into the bearings. The resulting output is not as consistent as that of branch material due to the fibrous nature. When processing fibrous material, take note of the following points:

- ✔ Blades must be sharp to process fibrous material
- ✔ Fibrous material is best introduced to the machine as a bundle
- ✔ Fibrous material should be introduced slowly into the machine. Tease the material in and out while feeding it into the cutting mechanism, ensuring it is not drawn through the machine without being cut properly
- ✘ **Do NOT** extend hands past the rubber flap while doing so
- ✔ Fibrous material is processed more effectively when it is green rather than when dried

Storage

- ✔ Always allow the chipper to cool before storing
- ✔ Store the chipper out of the reach of children
- ✔ Store the chipper where fuel vapor will not reach an open flame or spark
- ✔ Switch the fuel lever to the off position
 - ⇒ For extended storage periods, run the engine dry of fuel
- ✔ Store the chipper out of the rain
 - ⇒ Water can rust the steel body of the chipper

Transportation

The C5 is designed to be moved by one person using both handles at the top of the inlet chute to lean the chipper backwards and transfer its weight onto the wheels. The chipper can then be wheeled to and from the work location.

- ⚠ Take care when moving the C5 up and down stairs or kerbs
 - ⇒ The wheels can be damaged by the shock loading caused by uncontrolled ascent/descent
 - ⇒ The chipper is heavy and the operator can lose control of the machine
- ❌ **Do NOT** move the chipper while it is running



Troubleshooting



What to do if:

- ? The chipper won't start
 - The engine oil level might be too low
 - ⇒ The chipper is fitted with oil alert and will not start if the oil level is too low
 - ✔ Check the oil level and top up if required
 - The chipper is placed on a slope
 - ⇒ The chipper is fitted with oil alert and will not start if the oil is not level
 - ✔ Move the chipper to level ground
- ? Belt drive engagement will not work
 - The inlet chute or housing might be blocked
 - ✔ Turn engine off, disconnect the spark plug wire, ensure rotor has completely stopped, remove debris, restart engine, then attempt to re-engage the belt drive
- ? The chipper slows down and stalls
 - The chipper is clogged up
 - ✔ Turn the engine off, disconnect the spark plug wire, ensure rotor has completely stopped, remove debris, then close and lock the outlet chute
- ? Discharge slows down
 - The chipper is clogged up
 - ✔ Turn the engine off, disconnect the spark plug wire, ensure rotor has completely stopped, remove debris, then close and lock the outlet chute
- ? The chipper is slowing down
 - The chipper can't process the amount of material fed into it
 - ✔ Feed the material in slower
 - ✔ Reduce material volume

- ❓ The chipper will not self-feed
 - ⇒ The knives and/or anvil might be blunt
 - ✔ Inspect and sharpen or replace knives and/or anvil as required. Ensure correct clearances between knives and anvil
- ❓ The material is ejected in long strips
 - The knives and/or anvil might be blunt
 - ✔ Inspect and sharpen or replace knives and/or anvil as required. Ensure correct clearances between knives and anvil
- ❓ The chipper is clogged
 - ✔ Turn the engine off, disconnect the spark plug wire, ensure rotor has completely stopped and remove debris. You may need to disassemble the housing in order to remove the debris. See step 9 of 'Remove the knife for sharpening' on page 15 for more details on this process
- ❓ The chipper starts making unusual noise, the cutting rotor strikes a foreign object, or the chipper starts to vibrate
 - ✔ Turn the engine off, disconnect the spark plug wire, ensure rotor has completely stopped, then inspect for damage
 - ✔ Replace or repair any damaged parts
 - ✔ Check for and tighten any loose parts
 - ❌ **Do NOT** attempt to repair the chipper unless you are competent to do so

Maintenance

Maintain the chipper with care and keep it clean at all times.

To service or inspect the equipment, or to change an accessory, you must:

- ✓ Switch the engine off
- ✓ Allow the chipper to cool before any inspections or adjustments
- ✓ Wait until the cutting rotor and engine are at a complete standstill before opening the cutting rotor housing
- ✓ Disconnect the spark plug wire from the spark plug
- ✓ Switch the fuel lever to the off position

Initially after 2 working hours:

- ✓ Check for any loose nuts and bolts
- ✓ Check belt tension (refer to belt tension section)
 - ⇒ The belt will stretch when it is new
- ✓ Grease the two rotor bearings (refer to "Grease the two rotor bearings" section below).
 - ⇒ One or two pumps are sufficient
 - ⇒ Be careful not to over grease
 - ⇒ The bearings are already greased when the equipment is new
 - ⇒ Use bearing grease or all-purpose grease

Every 20 working hours:

- ✓ Check for any loose nuts and bolts
- ✓ Check belt tension (refer to belt tension section)
- ✓ Grease the two rotor bearing as above, be careful not to over grease
- ✓ Check sharpness of knives
- ✓ Check condition of the belt guard
 - ⇒ A damaged guard must be replaced by an identical or equivalent guard immediately
 - ⇒ It is recommended to contact Hansa for a replacement guard.



Disconnected spark plug

Grease the two rotor bearings

1



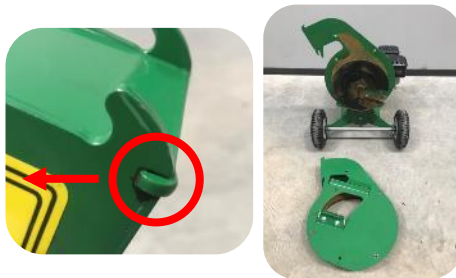
Remove the inlet chute - use two 13 mm spanners to remove the nuts and bolts holding the inlet chute on.

2



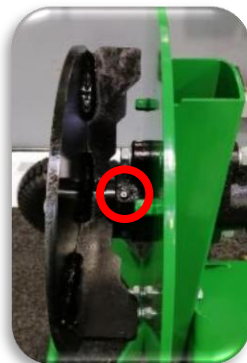
Open the cutting rotor housing by removing the five housing bolts using two 16 mm spanners.

3



Using a nylon hammer (or suitable alternative), gently dislodge the housing from its grooves and remove it.

4

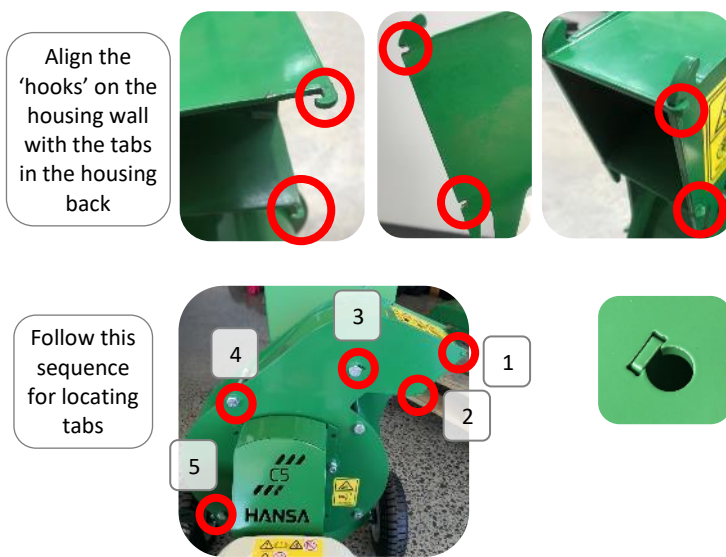


Grease the internal rotor bearing:

- One or two pumps are sufficient
- Be careful not to over grease
- The bearings are already greased when the equipment is new
- Use bearing grease or all-purpose grease

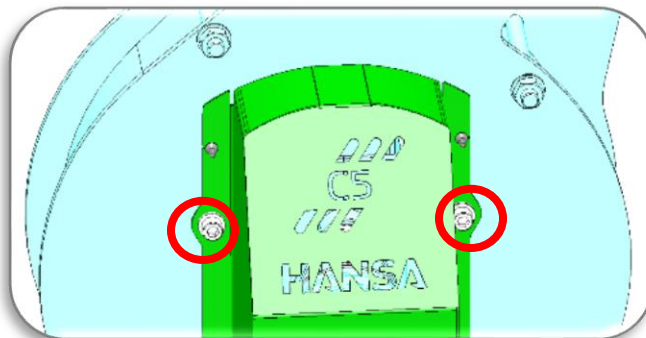
Reassemble the housing by following the numbered sequence shown in the images:

5



1. Insert the front housing plate into the two hooks on the curved housing wall and ensure they are inserted all the way (number 1 & 2).
2. Align the tabs into the cut-outs in the housing plate following the sequential order for number 3, 4 and 5 shown in the image. Once each tab is aligned use a nylon hammer (or other suitable alternative) to tap the back of the housing plate together with the housing.
3. Once the tabs are located and pushed together, reinsert bolts and tighten. Do not attempt to do up the housing bolts until these tabs have been aligned otherwise the machine may be damaged.

6



Using a 6 mm Allen key, undo the two cap screws from the belt guard and then remove the belt guard.

7



Grease the rotor outside bearing:

- One or two pumps are sufficient
- Be careful not to over grease
- The bearings are already greased when the equipment is new
- Use bearing grease or all-purpose grease

8

Reassemble the belt guard by repeating step 6 in reverse with a 6 mm Allen key

Knife re-sharpening and knife replacement

How do I know that the knives need re-sharpening?

- ⇒ Chipper loses its self-feeding action with blunt knives
- ⇒ Material has to be pushed in
- ⇒ Material comes out in long strips



WARNING! Do NOT operate your chipper with blunt knives.

- ⇒ Blunt knives will cause excessive vibration
- ⇒ Blunt knives result in damage to the chipper

How to re-sharpen the knives:

If you don't have a surface grinder or are unsure how to re-sharpen the knives, contact a professional saw doctor or Hansa to arrange re-sharpening.



WARNING! Be careful when working around the sharp knives. Be aware that even though the engine is switched off, the cutting means can still move.

Tools and materials required for re-sharpening (approx. 40 mins):

- 2 x 13 mm spanners
- 2 x 16 mm spanners
- 6 mm hexagonal Allen key
- Nylon hammer (recommended)
- Surface grinder
- Coolant

Remove the knife for sharpening

1



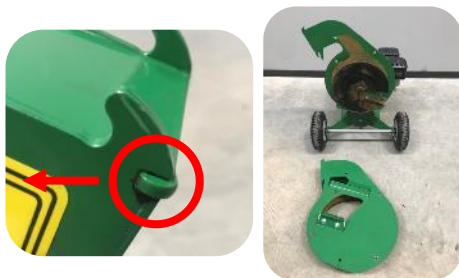
Remove the inlet chute - use two 13 mm spanners to remove the nuts and bolts holding the inlet chute on.

2



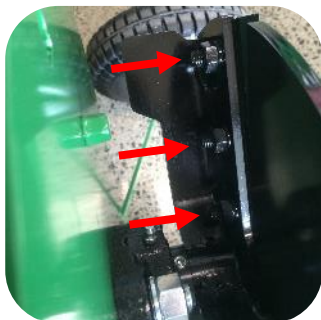
Open the cutting rotor housing by removing the five housing bolts using two 16 mm spanners.

3



Using a nylon hammer (or suitable alternative), gently dislodge the housing from its grooves and remove it.

4



Use a 13 mm spanner to remove the knives from the rotor. There are three nuts you must remove to do so.

⇒ If the bolt head turns, hold it with a 6 mm hexagonal Allen key

Note: Do **NOT** try to loosen the bolt with the hexagonal Allen key.

5



Measure the width of the knife and check that it will be at least 35 mm after sharpening.

If the knife will be shorter than 35 mm, then the knife should be replaced. Please contact your nearest Hansa dealer.

Sharpen the knives

6



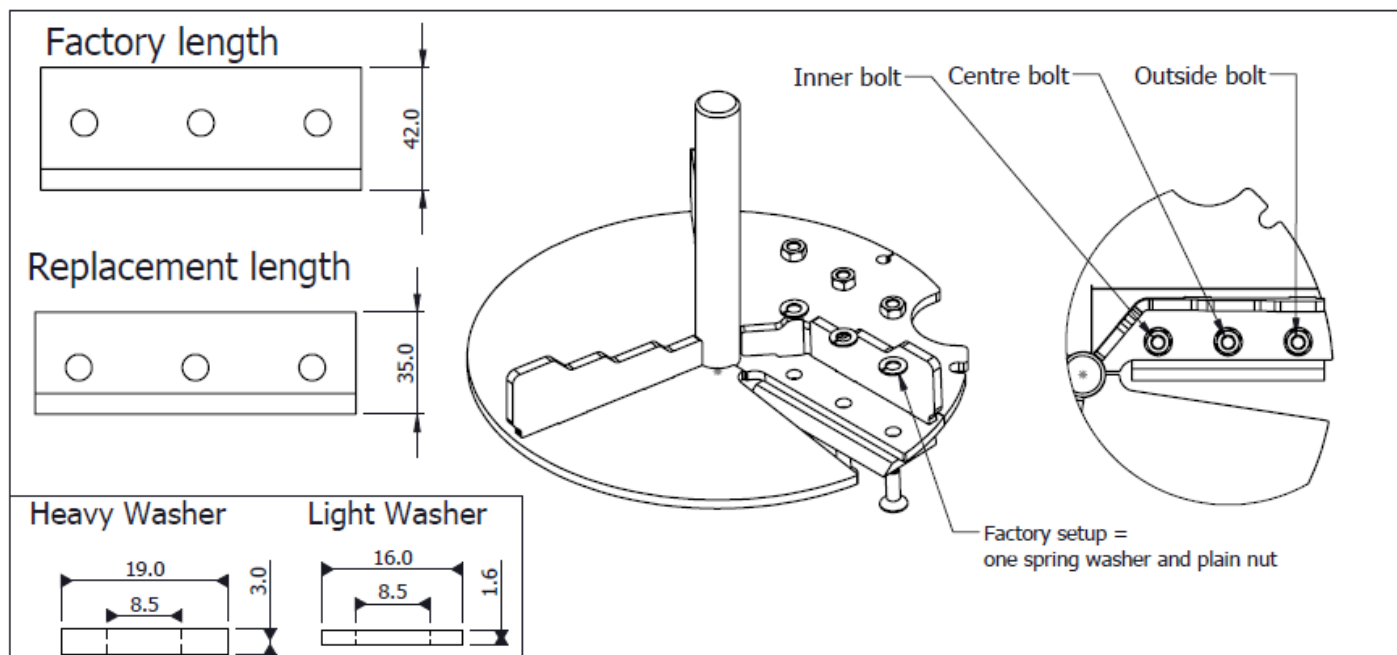
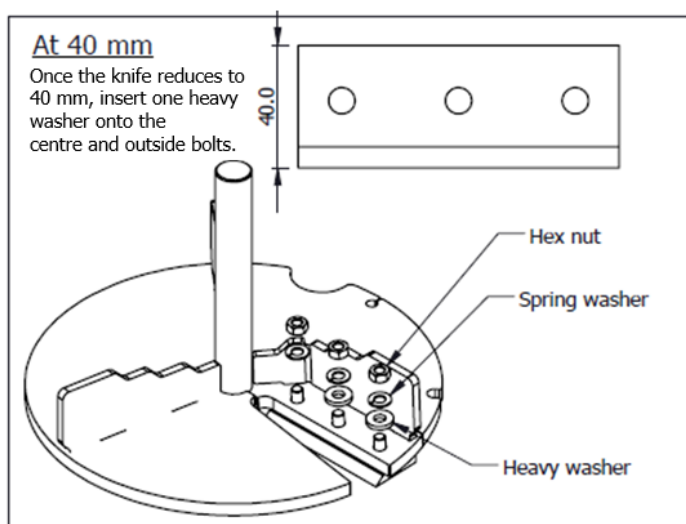
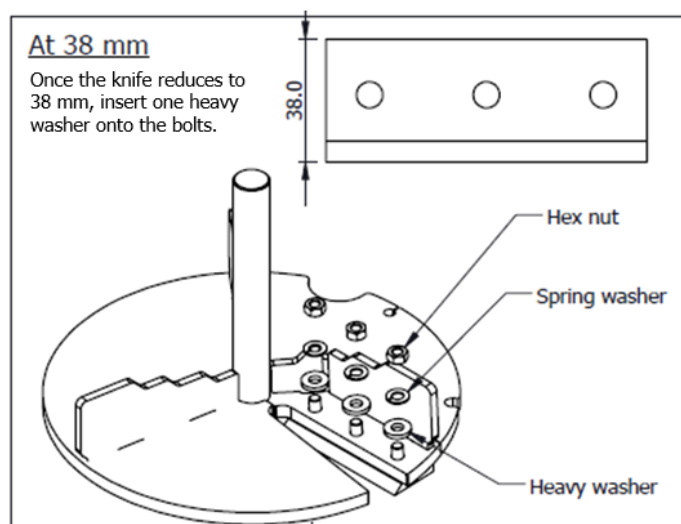
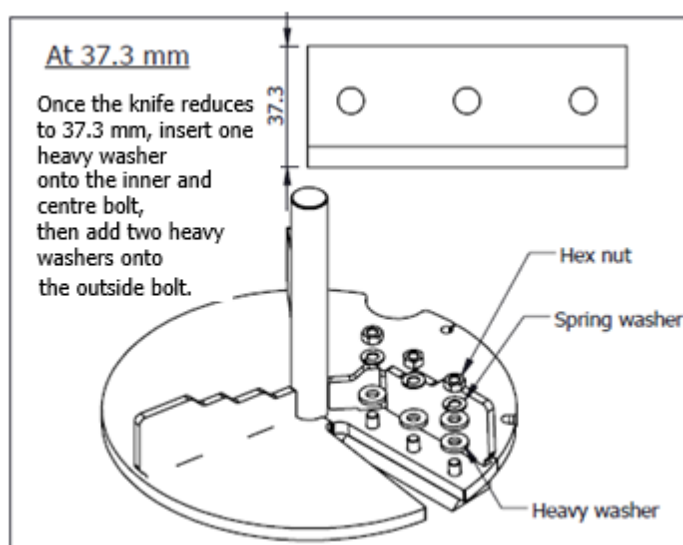
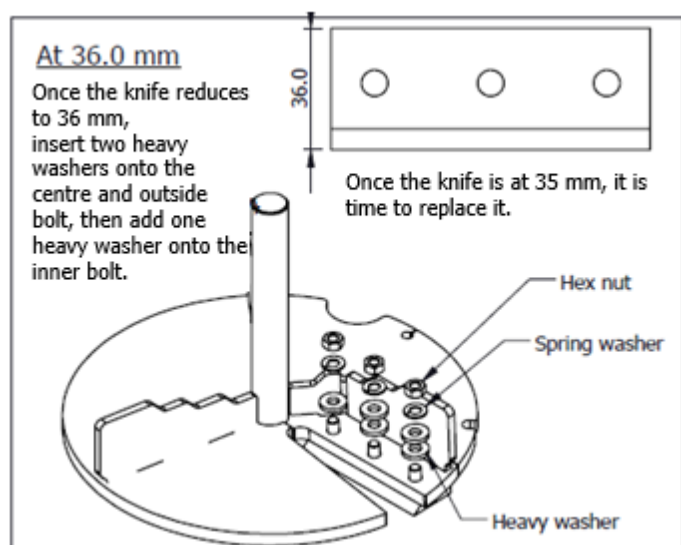
Sharpen the knives on a surface grinder. A cutting angle of 40 ° is critical for the performance of the chipper. Make sure plenty of coolant is used when grinding to avoid softening of the steel knives.

Reinstall the knives

7

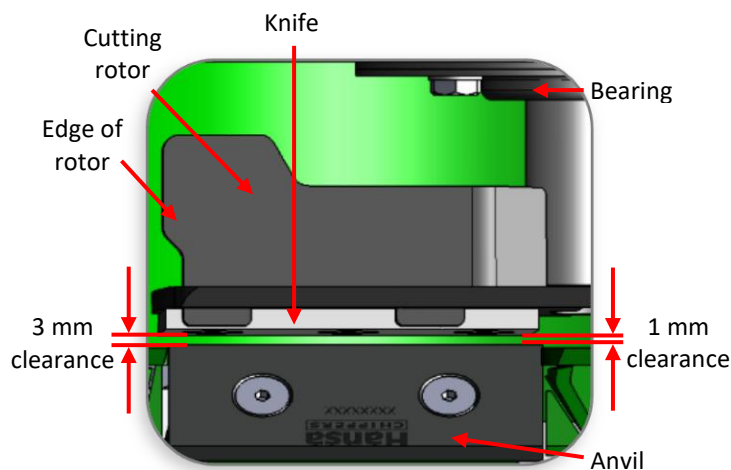
Clean all mounting surfaces and remount the knife in the reverse procedure. Tighten all three nuts as tight as possible by hand using a 13 mm spanner and 6 mm hexagonal Allen key. **Do NOT** tighten the bolts with the hexagonal Allen key.

Note: When blades are sharpened, material is removed from the blades, affecting the distribution of weight in the rotor. The rotor must be balanced appropriately after blade sharpening, as per the method outlined below:



Note: A 20% dimensional deviation for the washers is acceptable. Two light washers (1.6 mm thick, DIN 125 A.) can be used in place of one heavy washer (3 mm thick).

8



Adjust the anvil at this stage as the location of knife edge will change after sharpening or replacement.

Normally the edge will last for over 200 operating hours. When the edge is dull, the anvil should be replaced (contact Hansa for a replacement).

The clearance between the knife and anvil should be approx. 1 mm on the inside closest to the bearing and 3 mm on the outside closest to the edge of the rotor (refer to diagram for more detail).

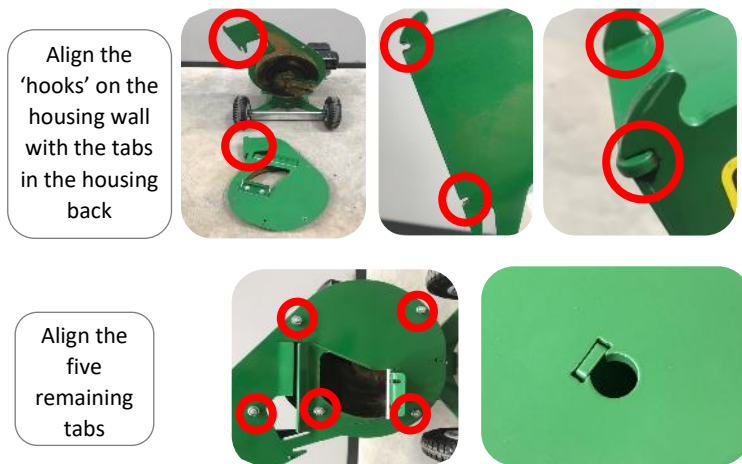
The gap between the knives and the anvil is tapered out slightly to allow for a small amount of movement in the rotor as it bites into the wood.

The anvil position can be adjusted by loosening the anvil mounting bolts. Once adjusted correctly, tighten the anvil mounting nuts using a torque wrench to 22 Nm.

If there is not enough clearance, the knife edge may touch the anvil through deflection when cutting heavy branches and damage the sharp edge. Too much clearance will allow small twigs and fibrous materials to be dragged through without being cut.

Turn the cutting rotor by hand to check that it turns freely.

9



Reassemble the housing and inlet chute by repeating steps 1-3 in reverse.

Note: When reassembling the housing, first align the hooks on the curved wall with the tabs near the outlet on the housing front. Once these are aligned use a nylon hammer (or other suitable alternative) to hammer the back of the housing to locate the remaining four tabs. Do not attempt to do up the housing bolts until these tabs have been aligned.



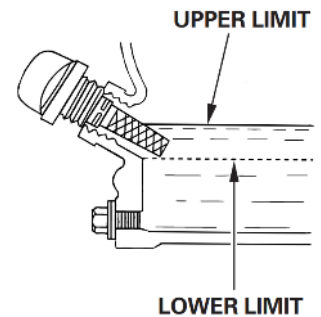
WARNING! Every time the knife clamping bolts are torqued up to 22 Nm and loosened off again, the life of the bolts is reduced. The knife clamping bolts must be replaced at most after every six sharpens. Contact Hansa for replacement bolts (m8x25 countersunk bolts of grade 12.9 or higher). Use only genuine Hansa bolts.

Engine servicing

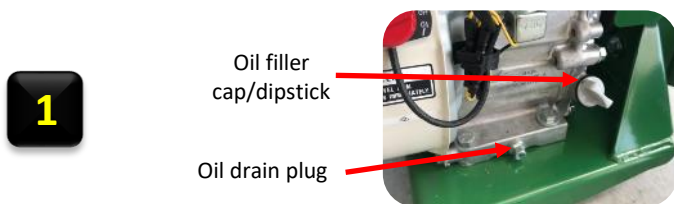
For servicing of the engine, please refer to the Honda engine manual.

Engine oil

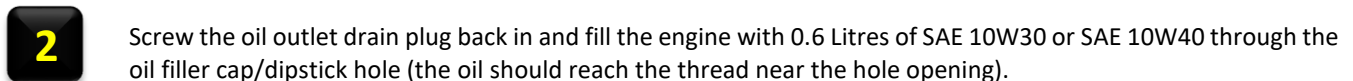
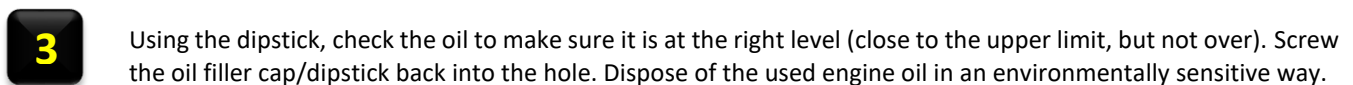
It is recommended you check the oil level every time you use your chipper. To check the oil level, unscrew the oil filler cap/dipstick, clean the dipstick, then insert the dipstick without screwing it into the thread. Fill as necessary, using the diagram as a reference. For optimal performance of your chipper, the engine oil should be completely changed every 100 operating hours, or roughly once every 12 months on average.



If the engine oil needs to be changed, follow these steps:

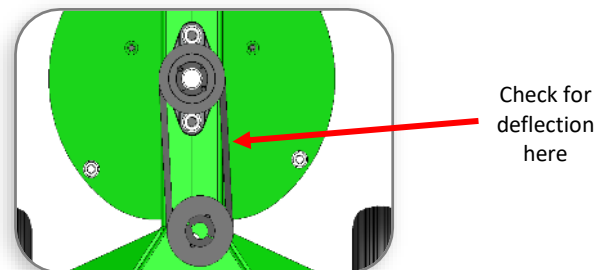


Run the engine for 1-2 minutes in order to warm up the oil. Switch the engine off after the oil is warm. Place a container to the side of the engine. Remove the oil filler cap/dipstick and oil drain plug (using a 10 mm spanner) then let the oil drain into the container. Ensure the machine does not lean more than 30 degrees from vertical while doing so.

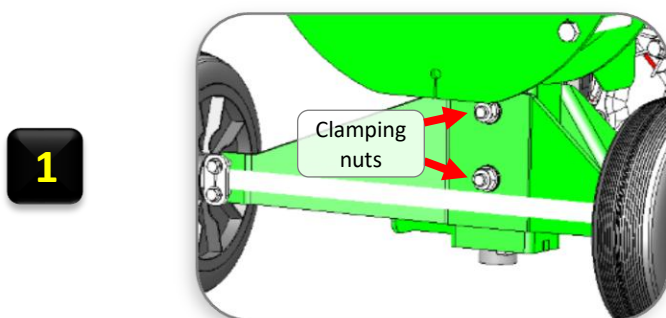


Belt Tension

Correct belt tension is crucial for minimising belt wear and maximising machine efficiency. To check the belt tension, the belt guard must first be removed (see step 1 of 'belt replacement' on page 17). After the belt guard is removed, fully engage the belt. There should be approximately 5 mm deflection in the belt when pressing firmly on the belt. If required, adjust belt tension.

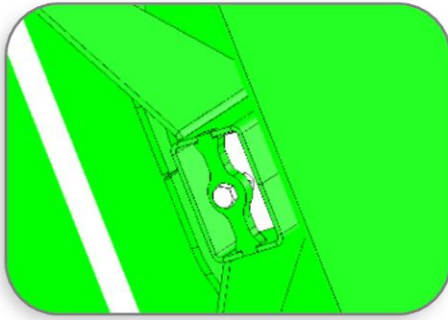


Adjusting belt tension



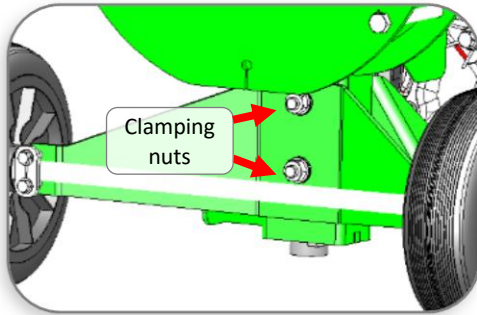
Using two 16 mm spanners, slightly loosen the two clamping nuts near the bottom of the chipper. Do not take the nuts completely off the thread.

2



Using a 13 mm spanner, adjust the bolt at the centre of the machine frame box section underneath the machine until the required belt tension is achieved. The belt should flex by 5 mm when firmly pressing on it.

3



Using two 16 mm spanners, tighten the two clamping nuts back up near the bottom of the chipper. Recheck belt tension.

Belt replacement

If the belts in your chipper look similar to any of the following images or are clearly broken, then they need to be replaced.



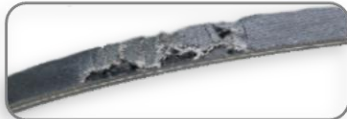
Cracked underside of belt



Split belt cover



Soft, swollen belt



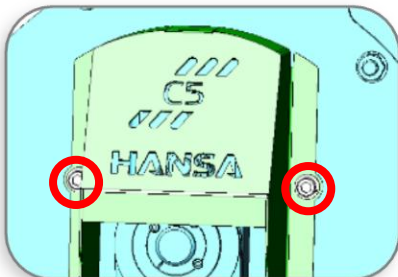
Worn cover on back of belt



Sidewall belt wear

If a belt change is necessary, follow these steps

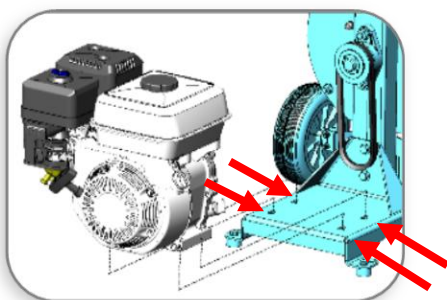
1



Using a 6 mm Allen key, undo the two cap screws from the belt guard and then remove the belt guard.

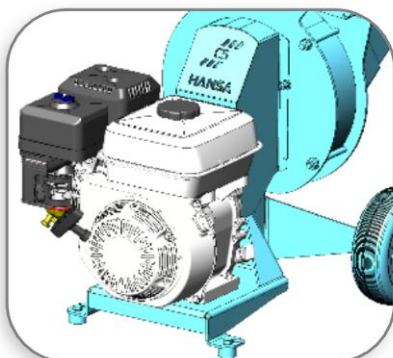
Note: Engine not shown in this view

2



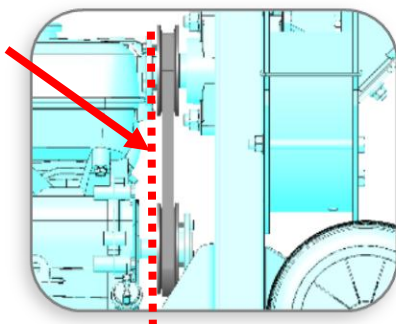
Using two 13 mm spanners, unbolt and remove the engine (4 x M8 nuts). Replace the belt (A21 vee belt).

3



Replace the engine back in place and ensure the pulleys are in line

4



Fully tighten the four bolts holding the engine to the chassis. Check the pulleys are still in line by placing a straight-edge across the top and bottom front pulley. If they are not in line, loosen the four bolts holding the engine in place and repeat this step

5



Ensure the belts are properly tensioned (follow the 'adjusting belt tension' procedure on page 16). Fasten the pulley guard back into place.

Note: Engine not shown in this view

Bolt torque

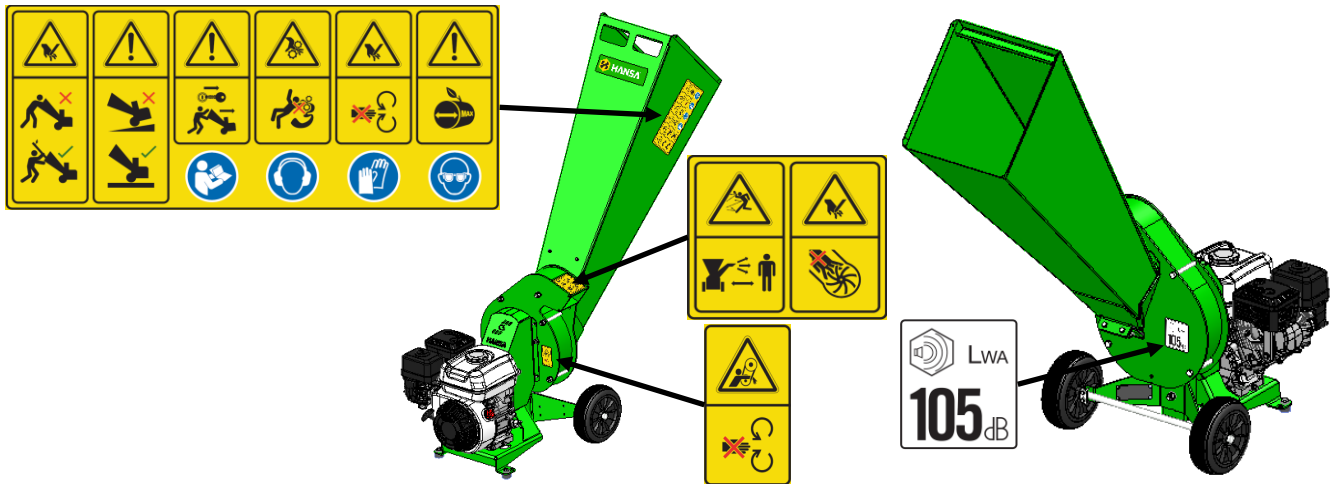
		Relative Strength Bolt Marking			
		4.6		8.8	
		Recommended Tightening Torque		Recommended Tightening Torque	
Bolt size	Spanner size	lb ft	Nm	lb ft	Nm
M8	13 mm	6	8.5	16	22
M10	16 mm	12.5	17	32	44
M12	18 mm	22	30	57	77
M16	24 mm	54	73	140	190
M20	30 mm	105	143	274	372

Specifications

	C5	
General	Length	1245 mm
	Width	560 mm
	Height	1195 mm
	Weight	67 kg
Motor	Make & model	Honda GP200
	Max Power	6.5 HP
Cutting System	Disc speed	3600 RPM
	Disc dimensions	286 x 10 mm
	Shaft diameter	25.4 mm
	Knives	1
Feed System	Chipping capacity	60 mm
	Feed type	Gravity fed, self-feeding
	Inlet chute opening	100 x 130 mm
Discharge System	Discharge height	585 mm
	Outlet chute type	Fixed

Safety Labels

Safety Label Locations



Safety Label Explanations

Instructions manual must be read.	Ear protection must be worn.	Tight and heavy-duty gloves must be worn.	Eye protection must be worn.	Stay clear of outlet chute discharge area. Keep bystanders away.	Keep hands clear of outlet chute.	Keep clear while machine is running.

Use only wooden stick to clear blockage.	Operate only on stable level ground.	Turn machine off before moving.	Do not operate with loose clothing or long hair.	Do not extend hands down inlet chute past rubber flap.	Max 60mm branch capacity.	Noise level.

HANSA global industrial limited warranty

For the purposes of this warranty document, "HANSA" means HANSA Products Limited and any of its international subsidiary companies. Refer to contact details below for further information.

HANSA warrants each new HANSA product free from defects in materials and workmanship under normal use and routine servicing, for the warranty periods and subject to the limitations and exclusions detailed below.

HANSA offers a special extended warranty period ("Extended Warranty") to new HANSA products purchased from an authorised HANSA dealer. The Extended Warranty period is set out below. In order to take advantage of the Extended Warranty you must:

1. Register your HANSA product through the HANSA warranty registration process and identify your HANSA product by its machine serial number. **Registration must be completed with ten (10) days from the date of purchase.** Your warranty registration confirmation email is your identification for warranty service; and
2. Have your registered HANSA product maintained in accordance with the schedule contained in the relevant owner's manual supplied with the product by an authorised HANSA dealer for the applicable territory. In order to ensure the safe operation of your HANSA product, we strongly recommend that you only use an authorised HANSA dealer for servicing. The cost of routine or required maintenance and services is the responsibility of the purchaser. You must keep a record of all service and maintenance history as proof of servicing history. HANSA may request such servicing history when assessing any future warranty claim.

When making a claim for warrantable repairs under the Extended Warranty, your warranty registration must accompany the HANSA product. If the warranty registration is lost or destroyed, proof of purchase documentation clearly recognising the machine serial number shall be accepted for warranty purposes. Where neither is available and HANSA does not have any record of the purchaser's details the warranty period shall be calculated from the appropriate dealer wholesale sale date. Any claim under the applicable Warranty must be made within the relevant warranty period specified below.

The Extended Warranty may be subject to cancellation if the above requirements are not satisfied.

The Extended Warranty is available to domestic (non-commercial) and commercial customers (excluding commercial customers in the business of plant/equipment hire).

All HANSA products that have not complied with the Extended Warranty registration and maintenance requirements are entitled to the "Non-Registered" warranty period set out below.

Any authorised HANSA dealer is further authorised to repair or replace any part which proves defective within the limits of the Extended Warranty or Non-Registered Warranty (the "Warranties") at no charge to the owner, covering parts and labour. Consumable items such as but not limited to oils, grease, blades and belts shall be the responsibility of the owner. All defective parts replaced under the Warranties become the property of HANSA.

You (as owner) are responsible for all shipping and transportation costs (including insurance) to and from an authorised HANSA dealer for the product subject to a warranty claim.

Exclusions

The warranties shall NOT APPLY TO:

- Any damage which results from neglect of periodic maintenance specified by HANSA.
- Any damage which results from repair or maintenance operations by methods other than specified by HANSA.
- Any damage which results from misuse or use beyond the limitations of the intended use specified by HANSA in the operation, maintenance and safety manual, such as overloading, including foreign objects such as stones, pieces of steel, glass etc. being dropped into the running machine or use under abnormal conditions (in HANSA's sole judgement).
- Any damage which results from use of non-genuine parts, lubricant or fluid not approved by HANSA.
- Any damage resulting from modification or installation in other products in a way not approved by HANSA which has any influence on the function and/or performance of the products.
- Any damage which results from operation other than specified in the Owner's Manual either intentionally or by error.
- Fading of painted surfaces, deterioration of plated surfaces, deterioration of rubber and plastics, including rusting due to the passage of time.
- Normal phenomena such as noise, vibration or oil seepage which are considered by HANSA as not affecting the quality, function or performance of the product.
- Any damage due to improper storage or transport.
- Consumable replacement items: Belts, cutting blades, anvil, serviceable bearings.
- Periodical maintenance items such as cleaning, inspection and adjustments.
- Any repair and/or adjustment performed by persons other than an authorised dealer, or damage resulting therefrom.
- Any repair and/or adjustment to correct improper or poor quality work previously performed.

- Incidental expenses incurred in the warranty claim. For example: additional expenses such as those for towing, communications, hotel and meals, incurred due to breakdown of the product at a remote location. Any expense related to personal injury and/or property damage, (exclusive of the product itself). Compensation for loss of time, commercial losses or rental costs of a substitute product during the period of adjustment.
- Any damage which results from unavoidable natural disasters, fire, collision, theft, etc.
- Any normal wear or deterioration, such as that of sliding or rotating parts caused under normal operating conditions. For example: Normal wear pivot points, rod ends and bearings.
- Any damage resulting from exposure of the product to soot and smoke, medicines and chemical agents, sea water, sea breeze, salt or other environmental phenomena.

Limitations

- HANSA reserves the right to modify, alter and improve any product without incurring any obligation to replace any product previously sold with such modification.
- In no event shall HANSA's liability exceed the purchase price of the product.
- Equipment and accessories not of HANSA's manufacture (such as engine, battery and tires) are warranted only to the extent of the original manufacturer's warranty and subject to their allowance to HANSA only if found to be defective by such manufacturer.
- HANSA reserves the right to supply remanufactured parts as it deems appropriate.

HANSA Product Warranty Period

HANSA PRODUCTS	COMMERCIAL		
	DOMESTIC	(EXCLUDING HIRE)	COMMERCIAL (HIRE)
Non-Registered	12 months	12 months	3 months
Extended Warranty	36 months (Conditional)*	36 months (Conditional)*	N/A

Each of the warranty periods stated above commence from the date on which you purchased your HANSA product.

*Conditional Warranty:

This is a HANSA extended warranty period for products that are:

- Purchased from an authorised HANSA Dealer.
- Registered at the time of sale through the Hansa Products website: www.hansaproducts.com/registration
- Serviced by a HANSA Dealer in accordance with the Hansa service schedule using genuine HANSA parts.
- Extended Warranty is limited to 36 months or 1000 hours, whichever occurs first
- Meeting all other warranty requirements.

Warranty periods vary depending on whether the purchaser is: (i) a domestic (i.e. non-commercial) customer; (ii) commercial customer (excluding plant/equipment hire businesses); or (iii) a commercial customer in the business of plant/equipment hire.

General

1. Your rights:
 - a. HANSA will recognise any implied rights and remedies that are available to you at law in the applicable territory and that cannot be excluded by HANSA.
 - b. In New Zealand, Hansa Products Ltd will recognise your statutory rights under the Consumers Guarantee Act 1993 (provided that you are a consumer for the purposes of that Act).
 - c. In Australia, this warranty is given by Hansa Products Pty Ltd. This warranty is provided in addition to other rights and remedies you have under law - our HANSA products come with guarantees that cannot be excluded under the Australian Consumer Laws.
2. If any provision of this warranty document is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of this warranty document and the remainder of the provisions in question will not be affected.
3. The English language version of this warranty document prevails over any translated version/s of its terms.
4. This warranty document is governed by the laws of New Zealand. The parties submit to the exclusive jurisdiction of the New Zealand Courts.

Contact Details

New Zealand:

Hansa Products Limited
PO Box 10323, Te Rapa
Hamilton

Rest of World:

Please refer to www.hansaproducts.com
for a current list of our authorised dealers
and contact details relevant to your territory.

Commissioning checklist and registration



It is the retailers' responsibility to ensure that this product is correctly commissioned for use, and that the purchase is registered with Hansa Product so as to provide the owner with the full benefit of the warranty policy.

Product registration must be completed online:

www.hansaproducts.com/registration

For registration, you will require the product serial number and customer details.

It is the retailers' responsibility to check the following:

Final Assembly	Check all bolts for tightness including knives
Operation	Instruct the owner/operator on operating procedures and techniques
Safety	Instruct owner/operator on safety procedures
Maintenance	Explain the maintenance requirements and the importance of following the maintenance schedule to the owner/operator
Manual	Emphasise the importance of reading and understanding the manual in full before initial operation of the product

Sound output information

The sound output level and the sound pressure level from the Hansa C5 have been measured in accordance with the testing provisions:

Directive 2000/14/EC
EN ISO 3744:2010
ISO 11201:2010
ISO 4871:1996
EN 13683:2003

The guaranteed sound output level which must be stated by the manufacturer in accordance with Directive 2000/14/EC is as follows:

Hansa C5: 105 dB (A) relative to 1pW.

The wood chipper's sound pressure level at the operator's position is measured in accordance with Directive 2000/14/EC is as follows:

Hansa C5: 90 dB(A) relative to 20μPa.

The values stated above are subject to the common uncertainty of the measuring method and the estimated variation in a product series for the type of machine. Detailed information about the measurements and results and estimation of uncertainty are found in a detailed report which can be supplied on request.

As a result of the actual sound levels, the wearing of ear protectors is mandatory when using the wood chipper.

EC Declaration of Conformity

**Manufacturer:**

Hansa Products Ltd
PO Box 10323
Te Rapa
Hamilton 3241
New Zealand

Name of the person authorized to compile the technical file on behalf of the manufacturer:**In the EU:**

Hansa Products Europe GmbH
Vöttinger Str. 2a
85354
Freising
Germany

In the UK:

Hansa Products UK Limited
Enterprise House
38 Tyndall Court, Commerce Road
PE2 6LR, Lynch Wood
Peterborough, United Kingdom

This declaration of conformity is issued under the sole responsibility of the manufacture.

Product designation: Brush chipper

Product description: Integrally powered shredder/chipper

Product model: C5

Serial number: Serial Manufacture

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Machinery Directive; 2006/42/EC

Noise emissions Directive; 2000/14/EC

Electromagnetic Compatibility Directive; 2014/30/EU

Restriction of Hazardous Substances Directive; 2011/65/EU

Waste Electrical and Electronic Equipment Directive 2012/19/EU

Furthermore, it is stated that the following has also been applied where applicable:

ISO 7010:2011

ISO 11684:1995

ISO 13857:2008

EN 13683:2011

EN 50581:2012

Signed for and on behalf of:

Hansa Products Ltd

A handwritten signature in black ink, appearing to read 'M Vogel', is written over a horizontal line.

Martin Vogel, Managing Director

Hamilton, New Zealand
September 24th 2025