


















Name	Predator 360 Stump Grinder
Recommended Use	Designed for cutting stumps up to 200 mm above ground and 120 mm below ground. Maximum Stump diameter 300 mm. NOT suitable for stumps surrounded by rocks, stones, concrete or other hard material, or where stump is not secured in the ground.

Section 1: Equipment Details	
Manufacturer / Importer	Hansa NZ www.hanzachippers.co.nz
Emergency Contact details	Garry Bull (Upper Hutt Hire) 027 742 6583
Links to safety information	https://www.youtube.com/watch?v=iVOqswbgoLc
Does this equipment require a daily check or inspection and entry in a log book?	No

Section 2: Hazards Identification	
	NEVER REMOVE THE SAFETY GUARDS from the stump grinder. Never operate the stump grinder with the safety guards removed.
	NEVER place hands and feet in the feed anywhere near the grinding disk. RISK of limbs being crushed or severed. If a blockage occurs turn off the engine, remove the sparkplug lead and allow machine to come to a COMPLETE STOP before clearing obstructions.
	DANGER: FLYING DEBRIS. The Operator must stay behind the machine. No persons or animals are permitted within 15 meters of the grinder while in operation. Use shields or other protection to avoid injuring bystanders or property. THE GRINDING HEAD RUNS IMMEDIATELY UPON ENGINE START.
	SINGLE OPERATOR ONLY! This stump grinder is designed for control and operation by one attendant (operator) only, who must always stand directly behind the machine when in use.
	RISK OF TOPPLING! Danger! Do not operate on uneven surface or a slope greater than 11°.
	RISK OF KICKBACK! The machine may kick back when first cutting into the stump. Securely hold the handles (and Dead Man's Handle) while maintaining a good secure footing. Grind from the front of the grinding head and approach the stump from the side.
	Ensure the brake is engaged before disengaging the swivel lock and grinding the stump.

	Exhaust gases are poisonous. DO NOT run the engine indoors or within a confined space. Always ensure there is adequate ventilation.
	Risk of inhalation of particulate dust. Be aware when grinding old dry stumps, as the grinding process may produce dust. Wear breathing protection may be necessary.
	Do not allow persons to operate machinery without full and proper instruction in the use of the machine. Do not allow person under 18 years age to operate the machinery.
	Fuel is highly flammable, especially on hot surfaces. HANDLE WITH CARE! Never refuel while the Engine is running. Never use fuel as a cleaning agent.
	Risk of slipping. Take care when operating in the rain, or where there is a risk of slipping while operating the stump grinder.
	Never leave the engine running when unattended. The grinding disk is always engaged. Shut the machine down even if unattended for a short period.
	Risk of Burns. The equipment, especially the exhaust and grinding head may become very hot. Do not touch!
	Operation of the equipment must not be performed by persons under the influence of alcohol, drugs, medications or any chemical substances capable of impairing the abilities of that person.
	Continuous operation may result in exhaustion or stress to the operator. Take frequent breaks and do not operate if you are feeling tired.

Section 3: Noise and Vibration

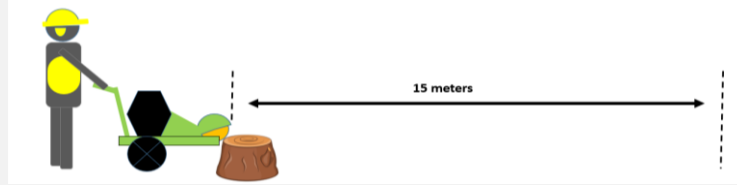
Noise L_{Aeq} at idle (dB)	91.6 dB
Sound Power L_{wa} (dB)	104.4 dB \pm 0.6 dB (at 3600 rpm)
	MUST USE HEARING PROTECTION Ear Muffs or plugs must be compliant with AS/NZS 1270:2002 Acoustics – Hearing Protectors Class 4 or 5.
Vibrations a_w ($m.s^{-2}$)	6.9 m/s/s: According to the HSE Vibration calculator, do not operate the equipment for longer than 60 minutes.

Section 4: Work Zone

4.1 Work Zone Control or Isolation

Does the work zone require control or isolation?

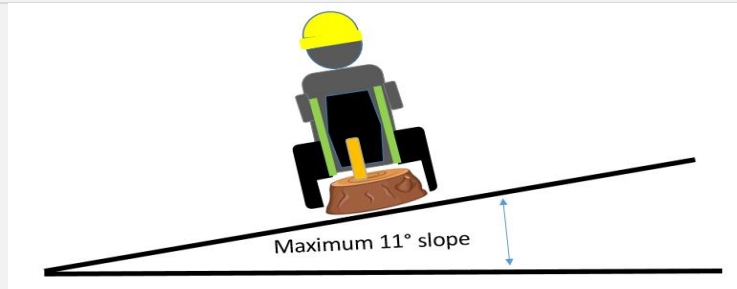
Yes, Isolated area 15 meters from front of machine.



Isolate the work site and ensure no one within 15 meters of the front of the machine. Risk of being hit by debris. Place a guard or large barrier to reduce the risk of debris hitting others or property.



Maximum slope for work:
 Maximum 11° angle. Risk of toppling.



4.2 Precautions for site

Do you have a FIRST AID KIT?

Do you have a FIRE EXTINGUISHER?

Can you make an EMERGENCY CALL?



Section 5: Personal Protective Equipment (PPE)

Appropriate Personal Protective Equipment (PPE) is required for the operator and persons assisting with loading and unloading.



Wear High Visibility clothing if you are working with other people on the work site. Breathing mask may be required. Tight fitting gloves recommended.

Section 6: Fuel and Lubricants

Fuel	Use 91 unleaded petrol. Store in an approved fuel vessel
Oil	Use SAE 10W-30 Grade oil.

Section 7: How to operate the Stump Grinder

7.1 Safety Features

This Stump Grinder is fitted with a 'Dead Man's Handle'. The Dead Man's Handle must be pushed down when the machine is in operation.

CAUTION: The Stump Grinder cannot be started if this lever is not pushed down.

CAUTION! Once the Dead Man's Handle is released, the motor will shut down but the cutting head will continue to rotate for up to 30 seconds. Never tie or secure the Dead Man's Handle!

7.2 Operation

Position the Stump Grinder adjacent to the stump before starting the motor.

Cold Start:

- Turn on the fuel tap
- Engage the Choke
- Set the on / off switch in the "I" or "On" position
- Set the throttle to its starting position (minimum speed) and push the Dead Mans Lever
- Pull the starting cord. It may take a few pulls to suck fuel into the carburetor.
- Once the engine has started, gradually increase the throttle and disengage the choke. Allow the engine to warm up for about 60 seconds.

Warm Start:

- Turn on the fuel tap
- Set the on / off switch in the "I" or "On" position
- Set the throttle to about 1/3 speed.
- Pull the starting cord. Once the engine has started, gradually increase the throttle to maximum rpm. Allow the engine to warm up for about 60 seconds.



As soon as the engine starts, the Grinding Head will rotate.

Stump Grinding

- Ensure that the brakes are engaged. Disengage the swivel lock.
- Move the grinding head left to right to grind the stump.
- As the stump is ground down, secure the swivel lock, disengage the brake, move the machine forward, reengage the brakes, disengage the swivel lock and continue grinding.
- Grind from the front of the Grinding Head and approach the stump from the side. Never grind from the top of the stump or use the bottom of the Grinding Head.
- To continue grinding, maintain a constant pressure on the stump by regulating the pressure through the handles. Do not let the engine stall.

Careful attention should be paid when grinding at ground level to avoid the grinding head making contact with large stones or solid objects that may be unearthed by the grinding process. When solid objects are identified, the grinding process must be stopped, the motor turned off & the objects removed from the grinding area before restarting.

7.3 Stopping

Emergency Stop:

Release the Dead Man's Handle and turn the start/stop switch to 'off'.

WARNING: The Grinding Head will still continue to rotate, even when the Dead Man's Handle is released.

Normal Stop:

- Reduce the throttle to idle.
- Secure the swivel lock and brakes.
- Release the Dead Man's Handle
- Turn the start/stop switch to "Off".
- Drop the support leg down into place.
- Wait for the Grinding Head to stop.
- Turn the fuel tap off.

7.4 Removal of blockages

It is possible that foreign matter, such as hard soil, clay, stones or pieces of the stump may become trapped between the Grinding Head and the cowling.

- Stop the machine and wait for the Grinding Head to come to a complete stop.
- Immobilise the motor by removing the ignition key or the spark plug cable.
- Carefully rotate the Grinding Head backwards to release any trapped debris.
- Inspect the Grinding Head and ensure there is no damage to any of the cutting teeth. If any teeth are broken, contact Upper Hutt Hire immediately.

Section 8: Transport

- Check that the fuel cap is secured and the fuel tap is in the OFF position.
- Ensure the swivel base is locked and the handles folded down.
- Transport on a trailer or Ute with 200+ kg capacity.
- Lift only at the designated lifting points.
- If loading using a ramp loading or unloading, it is important that the ramp is strong enough to handle the weight of the machine and two persons to push it onto the transport vehicle. A maximum ramp gradient of 20° is strongly recommended.
- After loading, ensure the brake is engaged and the machine is securely fastened.

Section 9: Additional Information

Always use common sense! It is not possible to cover every conceivable situation you can face when using our equipment. Always exercise care and use your common sense. Avoid all situations which you consider to be beyond your capability. If you still feel uncertain about operating procedures after reading these instructions and the owner's manual, you should consult an expert before continuing.

Some wear and tear of the teeth is expected. However contact with hard items such as stones, rocks or concrete may shatter the grinding teeth. Hirers are responsible for the cost of replacement of any broken teeth. It is the Hirers responsibility to contact us if any grinding teeth are broken.

The information contained herein is true and accurate to the best of our knowledge. No warranty or guarantee is expressed or implied regarding the accuracy of information or instructions. Users MUST consult the manufacturer's manual or handbook. While every effort has been made to summarise the important Health and Safety information for the safe use of this equipment, Upper Hutt Hire Ltd shall not be liable in any way for any reliance by any person or entity on the accuracy of information or data contained in this document or its attachments.