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# Using the Von-Arx FR200 Floor Plane

1. Wear your protective equipment including ear defenders and goggles.
2. Always grip the floor plane correctly with two hands while working.
3. Take care not to damage any finished floor surfaces by operating the cutters while moving to your work area and positioning the floor plane.
4. Make sure the machine is running at full speed and then lower the height adjustment lever carefully until the cutters are in contact with the surface.
5. If you are texturing (grooving) the concrete surface with tungsten carbide tipped flails separated by spacers, work backwards pulling the machine along. This will help to keep the groovers in straight lines.
6. While working, keep a lookout for any obstructions in your path. Stop the floor plane and clear them out of the way.
7. You must stop the engine if you need to change the cutters, wire brushes, or to make any adjustments.
8. Watch out for signs that vibration from the work may be affecting your hands. If your fingers start to tingle or feel numb, take a short break from work. Exercise your fingers to encourage blood circulation.
9. To help prevent vibration affecting your hands, operate the planer for shorter periods. Keep your hands warm – wearing gloves may help do this.
10. Stop the engine if leaving the machine unattended.
11. If your equipment does not work properly do not attempt to repair it. Contact the hire company.

Keep this leaflet safe as it may be required for reference at a future date

# Von-Arx FR200 Floor Plane

The rules and procedures in force where people are at work may require the person responsible for this equipment to carry out a specific risk assessment.

It is important to read all of this leaflet BEFORE you use the Von-Arx FR200 Floor Plane

1. Plan your work and think ahead to make sure you will always be working safely.
2. Petrol is highly flammable. Take care not to cause a fire or explosion.
3. This floor plane is designed to clean, texture, and reduce levels of concrete and asphalt. It can also be used for removing rust from metal sheets.
4. The action of this floor plane can cause injury or damage if the machine is not used in a careful and controlled way.
5. If you have not used a floor plane before, familiarise yourself with the machine on some straightforward work before you start on the main task.
6. You must have at least the following items of personal protective equipment: impact resistant goggles; EN166 – B or BS2092 grade 1; dust mask – a minimum of EN149 FFP3(s) protection; ear muffs or plugs giving protection for levels up to 98 dB(A); safety boots to EN345 or BS1870/4972; gloves.
7. This machine must not be used by minors, or by anyone under the influence of drugs or alcohol.
8. This floor plane is designed for operation by an able bodied adult. Anyone with either temporary or permanent disability must seek expert advice before using it.



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**STARTING THE ENGINE WHEN COLD**

1. Check fuel level and top up if required.
2. Your engine may have a low oil warning system that will prevent the engine starting if the oil level is too low, or if the oil level before you try to start the engine.
3. Open the fuel valve and close the choke lever. These are located near the handle on the starter cord.
4. Turn the engine switch to ON and open the choke lever, by moving it left a little. Make sure that you hold the machine firmly so it will not move when you pull the starter.
5. Pull the starter handle slowly until you can feel that the starter has engaged with the engine, then pull it quickly and strongly. Don't pull it too far, or it may break.
7. Guide the cord back into place so that it recoils correctly.
8. As the engine warms up, open the choke lever and adjust the throttle to the required speed.

**STARTING THE ENGINE WHEN HOT**

1. Start as for cold except that the choke lever should be left open.

**STOPPING THE ENGINE**

1. Close the throttle lever by moving it to the right.
2. Turn the engine switch to OFF.
3. Close the fuel valve.

6. Wipe any fuel off the machine. Dispose of fuel soaked cloth carefully.
7. If you spill any fuel on the ground, wipe it up or cover it with soil.
8. If you spill any fuel on your clothes, change them straight away.
9. Put all fuel caps back on properly, and move your fuel can to a safe, cool place.

**FLAILS AND BRUSHES**

1. There are a variety of flails and brushes for use with this machine. Do not use attachments made for other machines. Use only those supplied or recommended by the hire company.
2. Some flails are square to hammer the surface, others are octagonal or star shaped to scrape the surface. Flails are also supplied with tungsten carbide tips to stay sharper, cut longer and deeper.
3. Fine or coarse wire brushes can be applied depending upon the application. Plastic brushes, both fine and coarse are also available for jobs that are more delicate. Ask the hire company.

**REFUELLING**

1. No smoking.
2. Stop the engine and let it cool down.
3. If possible move the machine away from your work area.
4. Clean the filler cap and the area around it to prevent dirt falling into the fuel tank. Use a funnel and clean petrol when refuelling. Do not spill any fuel on yourself or the machine.



## Before Starting Work...

Useful Reference Points • [www.hae.org.uk/businessguard](http://www.hae.org.uk/businessguard)

**FLOOR PLANE**

1. Check your machine, engine, and all protective equipment.
2. Make sure you use the correct type of flails in the drum, or correct wire brushes as recommended for the machine and the hire company.
3. Switch off the engine and let it cool a little before change the flails or brushes. Take care, these may also be hot.
4. Your machine has an attachment on the right side of the handlebar for either vacuum extraction or for a water hose connection. If the hire company have supplied vacuum extraction, use it, otherwise keep concrete and asphalt surfaces damp.
5. Do NOT use both vacuum extraction and water on the floor surface.
6. Dampen the floor by either attaching a water hose to the handlebar attachment and adjusting the water flow, or by using a watering can or similar method.
7. Vibration from using this floor plane can be hazardous. Warm your hands up before you start work, and wear gloves to keep your hands warm while you are working.



**WORK AREA**

1. Do not use this equipment where there is a danger of explosion. It will ignite fumes from petrol, or gas cylinders.
2. Using this equipment indoors or in confined spaces could cause fatal carbon monoxide poisoning. Never use it in domestic premises and only use it in other indoor situations if its suitability and the ventilation required has been fully assessed. Mechanical extraction ventilation will almost always be required. Make sure that the area is clear and safe and that no-one is near to you or could distract you.
3. Protect other people from the noise, debris and dust. Warn others to keep away, but barriers around your work area. Keep the surface damp if working on concrete floors unless you are using vacuum dust extraction.
4. The floor plane may damage pipes or cables laid just beneath the surface.
5. The following items of personal protective equipment (ppe) are the minimum that should be worn whenever you use this type of equipment. Particular jobs or environments may require a higher level of protection.
6. This equipment is likely to cause noise levels up to 98 dB(A) – wear appropriate ear muffs or plugs giving hearing protection for this level as a minimum.
7. You must wear impact resistant goggles (EN166 – B or BS2092 grade 1) when you are working with this floor plane.
8. You must wear safety boots (EN345 or BS1870/4972).
9. Be careful to prevent concrete dust and

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