6 Operation

6.1 Starting the engine

DANGER
Risk of asphyxiation. Carbon monoxide, unburned hydrocarbons and benzene in the exhaust gas may cause asphyxiation.
- ► Don't work in closed rooms, trenches or pits and make sure the area is well ventilated.

WARNING
Risk of burning injury. The exhaust system gets extremely hot when the engine is running. It stays hot for a long time after the engine is switched off.
- ► Wear protective gloves and avoid touching the exhaust system.
- ► Do not lay the product down on flammable material while hot.

WARNING
Risk of injury. A damaged exhaust system will raise the noise level above the permissible limit and thus cause hearing damage.
- ► Never use the product if the exhaust system is damaged, missing or if it has been tampered with.

6.1.1 Starting the engine 7

DSH 700
DSH 900

1. Press the decompression valve (once).
2. Squeeze the primer bulb 2 to 3 times until the primer bulb is completely filled with fuel.
3. Move the start/stop switch to the "start" position.
4. Select one of the following alternatives. This action includes 2 alternatives.
   Alternative 1 / 2
   - ► If the motor is cold, pull the choke lever upwards.
     - ◁ The choke and half throttle are engaged.

   Alternative 2 / 2
   - ► If the motor is hot, pull the choke lever up and then push it back down.
     - ◁ Half throttle is engaged, the choke is not engaged.
5. Check that the cutting disc is free to rotate.
6. Position your right foot over the lower part of the rear grip.
7. Pull the starter handle slowly with your right hand until resistance is felt.
8. Pull the starter handle vigorously.
9. When the motor fires for the first time (after 2 to 5 pulls of the starter), move the choke lever back down to its original position.
10. Pull the starter handle vigorously and repeat this action until the engine starts.
11. Press the throttle trigger briefly as soon as the engine starts.
    - ◁ This disengages the half-throttle position and the engine then runs at idling speed when the throttle is released.

6.1.2 Starting the engine 8

DSH 700-X
DSH 900-X

1. Press the decompression valve (once).
2. When starting the cold engine (only when cold), squeeze the primer bulb 2 to 3 times (until the primer bulb is completely filled with fuel).
3. Press the throttle safety grip and keep it pressed.
4. Press the throttle trigger and keep it pressed.
5. Move the start/stop switch to the "start" position.
6. Release the throttle safety grip and throttle trigger.
   - ◁ This half-throttle position is activated.
7. Check that the cutting disc is free to rotate.
8. Position your right foot over the lower part of the rear grip.
9. Pull the starter handle slowly with your right hand until resistance is felt.
10. Pull the starter handle vigorously.
11. Repeat this action until the engine starts.
12. Press the throttle trigger briefly as soon as the engine starts.
    - ◁ This disengages the half-throttle position and the engine then runs at idling speed when the throttle is released.

6.2 Checks after starting the engine

1. Check that the cutting disc remains stationary when the engine is idling and, after briefly running at full speed, that the disc again comes to a complete standstill.
   - ◁ Readjust (reduce) the idling speed if the cutting disc doesn't stop rotating when the engine is idling. If this is not possible, please bring the product to **Hilti** Service.
2. Check that the start/stop switch is functioning correctly. Move the start/stop switch to the "stop" position.

DSH 700
DSH 900

- ▸ If the engine doesn't stop, push the choke lever upwards. If the engine still doesn't stop, pull the spark plug connector off the spark plug and bring the product to **Hilti** Service.

DSH 700-X
DSH 900-X

- ▸ If the engine doesn't stop, compress the primer bulb. If the engine still doesn't stop, pull the spark plug connector off the spark plug and bring the product to **Hilti** Service.

6.3 Switching the engine off

⚠ **WARNING**
Risk of injury. A rotating cutting disc can break or shatter, possibly resulting in flying fragments.
- ▸ Allow the rotating cutting disc to come to a complete standstill before you lay the saw down.

1. Release the throttle trigger.
2. Move the start/stop switch to the "stop" position.
   - ◁ The engine stops.

6.4 Cutting techniques

In order to work optimally with this product, the following safety instructions must be observed:

- Always hold the product and the saw trolley with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.
- Before beginning the work, or if an obstacle was previously inadvertently contacted, check the cutting disc and guard immediately for possible damage.
- Check that no persons are present in the working area and, in particular, in the direction in which the cut is to be made. Keep other persons approx. 15 m away from your workplace.
- Guide the product smoothly and do not apply lateral pressure to the cutting disc.
- Always bring the cutting disc into contact with the workpiece at right angles. Don't attempt to alter the line of cut by applying lateral pressure or by bending the cutting disc while cutting is in progress.
- Secure the workpiece. Use clamps or a vice to hold the workpiece in position. The workpiece is thus held more securely than by hand and both hands remain free to operate the product.
- Secure the workpiece and the part to be cut off in order to prevent uncontrolled movement.
- ▸ When working with the saw trolley, check before use that the gasoline-powered saw is mounted correctly on the saw trolley.
- ▸ Switch the gasoline-powered saw off immediately at the start/stop switch in the event of the saw trolley throttle cable sticking or if the throttle trigger sticks.
- ▸ Always apply full throttle when cutting.

6.4.1 Avoiding stalling 9

⚠ **CAUTION**
Risk of disc breakage or kickback. Application of excessive pressure causes distortion of the cutting disc. Sticking or stalling of the cutting disc increases the probability of kickback or disc breakage.
- ▸ Avoid applying excessive pressure when cutting and don't allow the cutting disc to stick and stall.
- ▸ Don't attempt to make an excessively deep cut.

1. Cutting through thick workpieces should be accomplished, as far as possible, by making a several cuts. Avoid making excessively deep cuts.
2. Support slabs or large workpieces so that the kerf remains open during and after the cutting operation.

6.4.2 Avoiding kickback 10

1. Always bring the cutting disc into contact with the workpiece from above.
   - ◁ Allow the cutting disc to contact the workpiece only at a point below its rotational axis.
2. Take special care when inserting the cutting disc in an existing kerf.