

1 Information about the documentation	
1.1 About this documentation	
<ul style="list-style-type: none"> Read this documentation before initial operation or use. This is a prerequisite for safe, trouble-free handling and use of the product. Observe the safety instructions and warnings in this documentation and on the product. Always keep the operating instructions with the product and make sure that the operating instructions are with the product when it is given to other persons. 	
1.2 Explanation of signs used	
1.2.1 Warnings	
Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used in combination with a symbol:	
 DANGER Draws attention to imminent danger that will lead to serious personal injury or fatality.	
 WARNING Draws attention to a potentially dangerous situation that could lead to serious personal injury or fatality.	
 CAUTION Draws attention to a potentially dangerous situation that could lead to slight personal injury or damage to the equipment or other property.	
1.2.2 Mandatory signs	
The following mandatory signs are used:	
 Wear ear protection, eye protection, respiratory protection and a hard hat.	
 Wear protective gloves.	
 Wear safety shoes.	
1.2.3 Symbols	
The following symbols are used:	
 Read the operating instructions before use.	
 Instructions for use and other useful information	
 Warning	
 Rotation direction arrow on the guard	
 Engine stop position	
 Engine run position	
 Primer bulb	
 Fuel nozzle jet adjusting screw	
 Idle jet adjusting screw	
 Fuel mixture	
 Fuel tank cap turning direction (to open)	

 Choke (only on DSH 700 or DSH 900)	
 Half throttle (only on DSH 700 or DSH 900)	
1.2.4 Illustrations	
The illustrations in these operating instructions are intended to convey a basic understanding and may differ from the actual version of the product:	
 These numbers refer to the illustrations at the beginning of the operating instructions.	
 The numbering in the illustrations reflects the order of the work steps in the illustration and may differ from the numbering of work steps in the text.	
 Item reference numbers are used in the overview illustration. In the product overview section, the numbers shown in the legend relate to these item reference numbers.	
 Points to which particular attention must be paid in the illustrations	
1.3 Adhesive labels on the machine	
Warning signs	
 Warning: Flying sparks present a fire risk.	
 Warning: Risk of kickback.	
 Warning: Don't inhale toxic vapors or exhaust fumes.	
 Warning: Maximum arbor speed	
 Warning: Hot surface	
Prohibition signs	
 Don't use toothed cutting discs.	
 Don't use damaged cutting discs.	
 Smoking and naked flames prohibited.	

1.4 Product information	
DSH products are designed for professional use and may be operated, serviced and maintained only by trained, authorized personnel. This personnel must be informed of any particular hazards that may be encountered. The product and its auxiliary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed.	
Make a note of the designation and serial number printed on the identification plate in the following table.	

HILTI

DSH700

- Always quote this information when you contact a Hilti representative or Hilti Service regarding questions about the product.

Product information	
Abrasive disc cut-off saw	DSH 700 DSH 900
Generation	G1
Serial no.:	

Abrasive disc cut-off saw	
DSH 700-X DSH 900-X	
Generation	G2
Serial no.:	

2 Safety

2.1 Safety instructions

In addition to the safety rules listed in the individual sections of these operating instructions, the following rules must be strictly observed at all times:

2.1.1 Personal safety

- Use the right protective gear for the job. Do not use the machine for purposes for which it was not intended. Use the correct protective gear for the specific faultless condition.
- Never hammer with or modify the machine in any way.
- The product may be used only by persons who are familiar with it, who have been trained on how to use it safely and who understand the resulting hazards. The product is not intended for use by children.
- Stay at a safe distance when you are using and use common sense when working with the product. Do not use the product while you are tired, under the influence of drugs, alcohol or medication. A moment of inattention while operating the product may result in serious personal injury.
- The user and any other persons in the vicinity must wear ANSI Z87.1 approved protective glasses, a hard hat, eye protection, protective gloves, protective footwear and breathing protection while the machine is in use.
- Always hold the machine with both hands on the grips provided. Keep the grips dry, clean and free from oil and grease.
- Never use the machine without the guard hood. Adjust the guard to the correct position. The guard must be securely attached and positioned for maximum safety, so that the smallest possible part of the cutting disc is exposed to the operator. Take steps to ensure that any sparks created while the product is in use do not project towards the operator's hands and fingers. Take care to prevent the operator from broken disc fragments, sparks and contact with the disc and unsecured flying sparks.
- Before using the product, or if an obstacle is contacted while the product is in use, check the guard immediately for possible damage. Damaged or broken guards must be replaced immediately.
- Avoid wearing loose clothing parts – never tie your shirt!
- Keep proper footing and balance at all times. This will allow you to control the product better, even in unexpected situations, for example, in the event of unexpected kickback or rotational forces. Avoid unusual body positions.
- Do not wear clothes, jewelry or long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- If the product or the cutting disc has been dropped or has fallen, check the product and the cutting disc for damage. Change the cutting disc if necessary.
- Never clean the product before adjusting the guard or changing the cutting disc.
- Wear protective gloves when changing the cutting disc. Touching the cutting disc presents a risk of injury (cuts or burns).
- Make sure you have a fire-extinguishing agent available as the probability of flying sparks while working with abrasive discs increases the risk of fire.
- Use of reducing sleeves is not permitted.
- Use of the wet cutting method is preferable in order to reduce the amount of dust produced when cutting mineral materials and asphalt.
- Avoid skin contact with the resulting slurry created when using the wet cutting method.
- Dust from material such as paint containing lead, some wood species, minerals and metals may be harmful. Contact with or inhalation of this dust may cause allergic reactions and/or respiratory diseases.

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among operators or bystanders. Material containing asbestos may be worked on only by specialists. To reduce the amount of dust produced when cutting, we recommend use of the wet cutting method. Ensure that the workplace is well ventilated. The use of a dust mask of filter class P2 is recommended. Follow national requirements for the materials you want to cut with.

Impress the blood circulation in your fingers by relaxing your hands and exercising your finger cutting back and forth. Excessive vibration of the tool during work can lead to disorders of the blood vessels and nervous system in the fingers, hands and wrists.

Consult the responsible structural engineer, architect or person in charge of the building project before starting work. Check that the building is in good condition and that there are no obstacles that might affect the stability of the structure. especially when steel reinforcing bars or load-bearing components are cut through.

Apply appropriate safety measures at the respective sites of the workplace in work that involves breaking through. Places of storage must be dry and cool and inique other persons.

Never leave the product running while unattended. Switch the engine off and wait until the cutting disc has completely stopped rotating before placing the product on the ground or before transporting it.

If the product is operated without an external water pump, it is essential that the pump cover is fitted.

Switch the machine off after use.

Look after the product carefully. Check to ensure that no parts are broken or damaged in such a way that they cannot be repaired correctly. If parts are damaged, have the parts replaced before use of the product.

To prevent personal injury, use only genuine Hilti accessories and accessory tools.

Have the product repaired only by qualified, skilled personnel, using only genuine Hilti spare parts. The safety of the product can thus be maintained.

Observe the national health and safety requirements.

2.12 Safety at the workplace

Ensure that the workplace is well lit.

Don't work in cramped rooms. Carbon monoxide, unburned hydrocarbons and benzene in the exhaust gas may be dangerous.

Keep the workplace tidy. Objects which could cause injury should be removed from the working area. Unfinished areas at the workplace could also be accidents.

Hot exhaust gases, cutting sparks or sparks generated by the cutting operation may cause fire or explosion. Gasoline, carbon monoxide, propane or similar gases which are lighter than air and therefore do not ignite flammable (gasoline, dry grass, etc.) substances.

Below filling the water pump, check to ensure that the maximum permitted water supply pressure of 6 bar is not exceeded.

Fit the transport lock only after the saw has been mounted on the saw trolley. This will help to prevent the trolley falling over.

Do not stand the product and the saw trolley on inclined surfaces. Always check to ensure that the product and the saw trolley are standing securely.

2.13 Liquids (gasoline and oil) and vapors

Allow the product to cool before refueling.

Never smoke while refueling.

Don't refuel the product at the workplace area. When refueling, take care to avoid fuel spillage. Use a suitable container.

Avoid inhaling gasoline vapors and exhaust fumes. Take care to ensure adequate ventilation.

Don't use the gasoline or other flammable liquids for cleaning.

2.14 Cutting work using cutting discs

Use only cutting discs with a rated maximum permissible speed that's at least as high as the highest spindle speed.

Check that the outside diameter and the thickness of the cutting disc comply with the capacity rating of the product.

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- Never use cutting discs that are damaged, run untrue or vibrate.
- Do not use cutting discs that have segments (e.g. diamond, resin, broken or polished segments, damaged arbor holes, bent or distorted steel etc.) or heavy discoscution due to overheating, steel disc worn away between the segments, diamond segments with no lateral overhang, etc.).
- Do not use toothed accessory cutting tools (e.g. toothed saw blades).
- When fitting the cutting disc, always take care to ensure that the disc's specified direction of rotation corresponds to the direction of rotation of the spindle.
- The cutting disc must be fitted correctly and must sit in the arbor of the product exactly. Cutting discs or accessories with arbor holes that do not match the mounting hardware of the product will run out of balance, vibrate excessively and may cause loss of control.
- Always use an undamaged clamping flange of the correct diameter which fits the cutting disc used. The correctly fitting clamping flange supports the cutting disc and thus reduces the possibility of disc breakage.
- 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 the start and end of the cut. Don't try to alter the line of cut by applying lateral pressure or by bending the cutting disc. Metal cutting is prohibited.
- Wear protective gloves when changing the cutting disc as the disc will get hot during use.
- Abrasive cutting discs which are used for wet cutting must be used up the same day as long periods of exposure to moisture have a negative effect on the strength of the disc.
- Observe the expiry date for resin-bonded cutting discs and don't use the discs after this date.

2.1.8 Transport and storage

- Transport the product off before transporting it.
- Remove the cutting disc from the product after use. The cutting disc may suffer damage during transport with sharp edges.
- Handle the cutting disc carefully and store it in accordance with the manufacturer's instructions.
- Always store and transport the product in an upright position, not lying on its side.
- Do not carry the saw tray and the product together. Remove the saw tray before transporting the product.
- Do not lift the product and the saw tray by cone. This is not permissible.
- Store the product in a secure place when not in use. Products which are not in use must be stored in a dry, high place or locked away out of reach of children.
- When laying the product down, make sure that it stands securely.
- After use, allow the product to cool down before packing it away or placing a cover over it.
- Store gasoline and oil in a well-ventilated room in fuel containers that comply with regulations.

3. Description

3.1 Overview of the product

3.1.1 Gasoline-powered cut-off saw

①	Nozzle	⑩	Spark plug connector
②	Water supply	⑪	Decompression valve
③	Forward grip	⑫	Throttle safety grip
④	Water valve	⑬	Start/stop switch (DSH 700 OR DSH 900)
⑤	Starter handle	⑭	Start/stop switch with integrated half-throttle lock (DSH 700-X OR DSH 900-X)
⑥	Fuel tank cap	⑮	Primer bulb
⑦	Crankcase / half-throttle lock (DSH 700 OR DSH 900)	⑯	Water connection
⑧	Throttle trigger	⑰	Grip for guard adjustment
⑨	Front grip	⑱	Blade rotation direction (arrow in front part of the handle)
⑩	Front plate	⑲	Saw arm
⑪	Fuel gauge	⑳	Hole for locking pin for changing cutting discs
⑫	Guide wheels	㉑	Pump cover
⑬	Cutting disc	㉒	Air filter cover
⑭	Clamping screw		
⑮	Clamping flange		

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3.1.2 Saw trolley (accessory) ②

①	Grip	④	Water connection
②	Throttle trigger	⑤	Axial adjustment
③	Clamping adjustment	⑥	Throttle cable
④	Hold-down device	⑦	Machine cradle
⑤	Water tank		

3.2 Intended use

The product described is a gasoline-powered cut-off saw for the wet or dry cutting of asphalt, mineral construction materials or metal using diamond cutting discs or abrasive cutting discs. It can be held and guided by hand or mounted on a saw trolley.

The saw is not suitable for use in environments where there is risk of fire or explosion.

3.3 Recommendations for use

- We recommend:
- Using the half-throttle method is preferable in order to reduce the amount of dust produced when cutting. By using the self-priming water pump (accessory), you can work without need for a water supply pipe.
- The water can be drawn, for example, directly from a container.
- Don't cut right through the workpiece in one pass. Move the saw back and forward several times until you have reached the required depth.
- To avoid damaging the diamond cutting disc when dry cutting, lift the disc out of the cut for approx. 10 seconds every 30 to 60 seconds while the product is still running.
- Resharpen polished diamond segments (the diamonds project from the segment matrix) by cutting with the disc in a very brittle material such as sandstone.
- For concrete floor sawing applications, mount the saw on the trolley accessory.

3.4 Care and cleaning

Diamond cutting discs in accordance with ANSI R7.1 are to be used with the product. Synthetic resin-bonded and fiber-reinforced cutting discs in accordance with ANSI B7.1 (straight, not dish-shaped, type cutting-off wheel) may also be used with this product for working on metals.

The disc mounting instructions and instructions for use issued by the cutting disc manufacturer must be observed.

3.5 Items supplied

Gasoline-powered saw, DSH tool set, DSH consumables set (only with the DSH 700-X/900-X), operating instructions.

You can find other system products approved for your product at your local Hilti Center or online at: www.hilti.com

3.6 Consumables and wearing parts

•	Air filter
•	Coil (5 pc)
•	Starter
•	Fuel filter
•	Spark plug
•	Tool set
•	Cylinder set
•	Mounting screw assy.
•	Range (2)
•	Centering ring 20 mm / 1"

4. Technical data

4.1 Gasoline-powered cut-off saw

	DSH 700	DSH 700	DSH 900	DSH 900
39 1/2" / 39 1/2" / 39 1/2"	39 1/4" / 39 1/4" / 39 1/4"	39 1/4" / 39 1/4" / 39 1/4"	40 1/4" / 40 1/4" / 40 1/4"	40 1/4" / 40 1/4" / 40 1/4"
Cubic capacity	4.19 in³ (68.7 cm³)	4.19 in³ (68.7 cm³)	5.5 in³ (87 cm³)	5.5 in³ (87 cm³)
Weight without cutting disc, tank empty	25.6 lb (11.6 kg)	26.0 lb (11.8 kg)	26.5 lb (12.0 kg)	26.8 lb (12.2 kg)
Weight with air car., resin-bonded cutting disc, tank empty	93.9 lb (42.6 kg)	94.4 lb (42.8 kg)	94.8 lb (43.0 kg)	95.2 lb (43.2 kg)
Power rating	4.7 hp (3.5 kW)	4.7 hp (3.5 kW)	5.5 hp (4.3 kW)	5.5 hp (4.3 kW)
Maximum arbor speed	11,100/min	5,100/min	5,100/min	4,700/min
Maximum cutting depth	3.4 in (100 mm)	4.9 in (125 mm)	4.8 in (125 mm)	5.9 in (150 mm)
Tightening torque for fitting the cutting disc	18 lbs (25 Nm)			

4.2 Additional technical data

Engine type	Single-cylinder, air-cooled two-stroke engine
Engine speed	6500 ± 200 rpm
No-load speed	2,500 rpm ... 3,000 rpm
Ignition (type)	Electronically-controlled ignition timing
Electrode gap	0.02 in (0.5 mm)
Spark plug	Manufacturer: NGK, type CMR7A-G
Tightening torque for fitting the spark plug	9 ft-lbs (12 Nm)
DSH 700/900 carburetor	Manufacturer: Walbro, model: WF; type: 955
DSH 700-X/900-X carburetor	Manufacturer: Walbro, model: WF; type: 1152
Fuel mixture	API-TC oil 2% (1:50)
Tank capacity	5.4 in³ (85 cm³)
Cutting disc arbor size / diameter of centering bush	0.8 in (20 mm)
Cutting disc arbor size / diameter of centering bush	1.00 in (25.4 mm)
Minimum flange outside diameter	4.0 in (102 mm)
Max. disc thickness (steel disc thickness)	0.5 in (12.5 mm)
Tightening torque for fitting the cutting disc	18 lbs (25 Nm)

5. Before use

5.1 Fuel

The two-stroke engine runs on a mixture of gasoline and oil. The quality of the fuel mixture decisively influences the running and life expectancy of the engine.

5.2 DANGER

Risk of fire and explosion. Gasoline vapors are highly flammable.

- Never smoke while refueling.
- Don't refuel the product at the area where you are working (move at least 3 meters [10 feet] away from the working area).
- Don't smoke or drink alcohol while the engine is running. Wait until the engine has cooled down.
- Make sure there are no naked flames or sparks that could ignite the gasoline vapors.
- Take care to avoid fuel spillage. If fuel is spilled, clean up the area affected immediately.
- Check to ensure there is no leakage from the fuel tank.

5.3 CAUTION

Risk of injury. The inhalation of gasoline vapors and skin contact with gasoline may be hazardous to the health.

- Avoid direct skin contact with gasoline. Wear protective gloves.
- If your clothing becomes soiled with gasoline, it is essential to change your clothing.
- Ensure that the workplace is well ventilated in order to avoid breathing in gasoline fumes.
- Use a fuel container that complies with the applicable regulations.

5.4 Note

Ketene gasoline does not have the same density (specific weight) as conventional gasoline. To avoid damage when ketene gasoline is used, the engine settings must be readjusted by Hilti Service. Alternatively, the oil content can be increased to 4% (1:25).

5.5 Using two-stroke oil

- Use good-quality, two-stroke oil for air-cooled engines that meets at least the API-TC specification.

5.6 Gearbox

- Use regular or super gasoline with an octane rating of at least 89 RON.

5.7 Note

The alcohol content (e.g. ethanol, methanol or others) of the fuel used must not exceed 10%, otherwise the life expectancy of the engine will be greatly reduced.

5.8 Mixing fuel

5.8.1 Note

The engine will suffer damage if run with fuel mixed in the wrong ratio or with unsuitable oil.

Use a mixing ratio of 1:50. This corresponds to 1 part good-quality two-stroke oil that complies with the API-TC specification and 50 parts gasoline (e.g. 100 ml of oil and 5 liters of gasoline mixed in a suitable container).

- Pour the required quantity of two-stroke oil into the fuel canister.

- Fill the fuel canister.

- Close the fuel canister.

5.8.2 Note

If the quality of the two-stroke oil or the gasoline is unknown, then increase the mixing ratio to 1:25.

5.9 Filling the fuel tank

- Mix the fuel (two-stroke oil / gasoline mixture) by shaking the fuel container.

- Place the product in a steady upright position.

- Open the fuel tank by turning the cap counterclockwise and then removing the cap.

- Fill the tank about three-quarters full.

- Close the fuel tank by fitting the cap and then turning it clockwise.

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5.2 Assembly and adjustment

WARNING

- Risk of injury. Contact with the rotating cutting disc can lead to injury. Hot parts of the machine or a hot cutting disc may cause burning injuries.
- Before fitting or adjusting any parts of the product, make sure that the engine is switched off, that the cutting disc has completely stopped rotating and that the product has cooled down.
 - Wear protective gloves.

5.2.1 Fitting a cutting disc

CAUTION

- Risk of injury and damage. Damaged cutting discs may break.
- Never use cutting discs that are damaged, run untrue or wobble.
 - Don't use synthetic resin-bonded fibre-reinforced cutting discs which have exceeded their use-by date or already softened due to water absorption.

CAUTION

- Risk of injury and damage. Cutting discs or fastening parts that don't fit correctly can suffer irreparable damage or lead to loss of control of the product.
- Use only cutting discs with a rated maximum permissible speed that's at least as high as the maximum speed stated on the product. The cutting discs, flanges and screws used must fit the product.
 - Use only cutting discs with an arbor size (mounting hole diameter) of 20 mm or 25.4 mm (1").

1. Insert the locking pin in the hole in the drive belt cover and turn the cutting disc until the locking pin engages.
2. Release the securing screw by turning the screw counterclockwise with the wrench and then remove the screw.
3. Remove the locking pin.
4. Remove the clamping flange and the cutting disc.
5. Check that the mounting bore of the cutting disc to be fitted corresponds with the centring collar of the cutting disc mounting flange.



- The mounting flange is equipped with a 20 mm diameter centring collar on one side and a 25.4 mm (1") diameter centring collar on the opposite side.

6. Clean the clamping and centring surfaces on the product and on the cutting disc.

7. Place the cutting disc with centring collar on the drive arbor and check that the direction of rotation is correct.
 - The direction-of-rotation arrow on the cutting disc must match the direction of rotation indicated on the product.
8. Place the clamping flange and washer on the drive arbor and tighten the securing screw by turning it clockwise.
9. Insert the locking pin in the locking hole in the drive belt cover and turn the cutting disc until the locking pin engages.

10. Tighten the clamping screw securely (tightening torque: 25 Nm).

11. Remove the locking pin.



- After fitting a new cutting disc allow the product to run at full speed under no load for approx. 1 minute.

5.2.2 Adjusting the guard

DANGER

- Risk of injury. Flying fragments or sparks could cause injury.
- Adjust the guard so that flying particles or fragments of the material removed and flying sparks are directed away from the operator and the product.

- Hold the guard by the grips provided and rotate it to the desired position.

5.2.3 Conversion from normal cutting to flush cutting



- The front section of the saw arm can be converted to allow flush cuts to be made (e.g. as close as possible to edges and walls).

- If you wish to use the product in the flush cutting position, have the product converted by Hilti Service.

5.3 Locking rotary movement of the guide wheels

WARNING

- Risk of injury. The saw could move inadvertently or fall down.

- When working on rocks, scaffolds and/or on slightly sloping ground or surfaces, always take steps to prevent rotation of the guide wheels when the saw is not in use.

1. Release the guide wheel mounting screws and remove the guide wheels.

2. Reverse the guide wheels through 180° and refit the mounting screws.

- The integrated locking function is active.

3. Check that the guide wheels are securely fastened.

5.4 Mounting the gasoline-powered saw on the saw trolley (accessory)

1. Remove the water tank from the saw trolley.

2. Move the cutting depth adjustment lever into the upper position.

3. Open the hold-down device by releasing the screw knob.

4. Fit the saw into the forward mount with the wheels as shown and swing the grip of the saw under the hold-down device.

5. Secure the saw by tightening the screw knobs.

6. Fit the water tank after filling it.

7. Adjust the grip to a convenient working height.

8. Adjust the guard to the correct position. → page 10

Especially when using the machine in this configuration for the first time, check to ensure that the throttle cable is correctly adjusted. When the throttle trigger is pressed fully, the product must run up to maximum speed. If this is not the case, the throttle cable can be readjusted by way of the cable tensioner.

When the switch is not actuated, the engine must be idling and the cutting disc must not rotate. If this is not the case, switch off by pushing the start/stop switch to the "stop" position and then adjust the throttle cable or have the idling speed adjusted by Hilti Service.

5.5 Fitting the water pump (accessory)

1. Release the three pump cover retaining screws, remove the parts and store the pump cover in a safe place.

Note: The pump cover must be fitted if the product is used without the water pump.

2. Bring the water pump into place while rotating the cutting disc slightly until the teeth on the water pump and inside the clutch housing mesh and the teeth mesh correctly.

- The position is keyed so it is not possible to position the pump incorrectly.

3. Fit the three retaining screws and tighten them securely (tightening torque: 4 Nm).

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4. Connect the pump hose to the hose connector on the saw.
5. Connect the water pump to the water supply or bring the suction hose in a container filled with water.



- Note: The maximum permitted water supply pressure is 6 bar.

5.6 Removing the water pump (accessory)

1. Disconnect the water supply from the water pump.

2. Disconnect the connector between the pump and the product.

3. Release the three fastening screws on the pump and then remove the pump.

4. Fit the pump cover on the product, insert the three retaining screws and tighten the screws securely (tightening torque: 4 Nm).

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 run 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 noise damage. 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

DEH 700

DEH 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. Release the primer bulb and turn the switch to the "start" position.

4. Select one of the following alternatives. This section includes 2 alternatives.

Alternative 1/2

- If the motor is cold, pull the choke lever upwards.

- 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 firmly and hold it 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.

6.1.2 Starting the engine

DEH 700 X

DEH 900 X

1. Press the decompression valve (once).

2. Squeeze the primer bulb until the primer bulb is completely filled with fuel.

3. Press the throttle safety grip and keep it pressed.

4. Press the start/stop switch until it is engaged.

5. Move the start/stop switch to the "idle" position.

6. Release the throttle safety grip and throttle trigger.

- This half-throttle position is activated.

7. Press the decompression valve (once).

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 rotates satisfactorily when the engine is idling and, after briefly running at full speed, that the disc again comes to a complete standstill.

- Repeatedly induce 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.

DEH 700 X

DEH 900 X

- 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.

DEH 700 X

DEH 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.

DEH 700 X

DEH 900 X

- Release the throttle trigger.

1. 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.

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- Before beginning the work, or if an obstacle was previously inadvertently contacted, check the cutting direction and immediately stop the product.
- 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 workplace 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.
- Hold the product firmly with both hands. Both hands must remain free to operate the product. Workplace is thus held more securely than by hand and both hands remain free to operate the product.
- Secure the workplace 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

- CAUTION**
Risk of disc breakage or kickback. Application of excessive pressure causes distortion of the cutting disc. Twisting or shaking 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.
2. 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 kickbacks

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

7 Care and maintenance

7.1 Maintenance

- 7.1.1 Before use**
1. Check that the product is complete, not broken and that it is in faultless condition. Repair it if necessary.
 2. Clean the product as required and clean it if necessary.
 3. Check that all operating controls function correctly. Have them repaired if necessary.
 4. Check that the cutting disc is in faultless condition and replace it if necessary.
 5. Check the tightness of all externally accessible screws and nuts and retighten them if necessary.
- 7.1.2 Every 6 months**
1. Check the tightness of all externally accessible screws and nuts and retighten them if necessary.
 2. Check the fuel filter for dirt or clogging and replace it if necessary.
- 7.1.3 If necessary**
1. Check the tightness of all externally accessible screws and nuts and retighten them if necessary.
 2. Change the air filter if the engine fails to start or if its performance drops noticeably.
 3. Check fuel filter for dirt or clogging and replace it if necessary.