

МАГАЗИН МАЙСТОРА®
ПРОФЕСИОНАЛНИ РЕШЕНИЯ

GB

Operator's manual

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

ES

Manual de instrucciones

Lea detenidamente el manual de instrucciones y asegúrese de entender su contenido antes de utilizar la máquina.

DE

Bedienungsanweisung

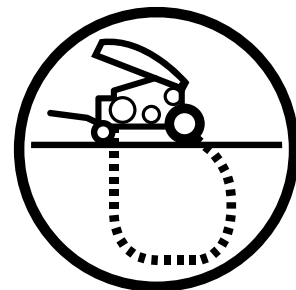
Lesen Sie die Bedienungsanweisung sorgfältig durch und machen Sie sich mit dem Inhalt vertraut, bevor Sie das Gerät benutzen.

FR

Manuel d'utilisation

Lire attentivement et bien assimiler le manuel d'utilisation avant d'utiliser la machine.

CS 2512



GB ES DE FR

KEY TO SYMBOLS

Symbols on the machine:

WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.

Please read the operator's manual carefully and make sure you understand the instructions before using the machine.

Always wear:

- Approved protective helmet
- Approved hearing protection
- Protective goggles or a visor
- Breathing mask

This product is in accordance with applicable EC directives.

Other symbols/decals on the machine refer to special certification requirements for certain markets.



Explanation of warning levels

The warnings are graded in three levels.

WARNING!



WARNING! Used if there is a risk of serious injury or death for the operator or damage to the surroundings if the instructions in the manual are not followed.

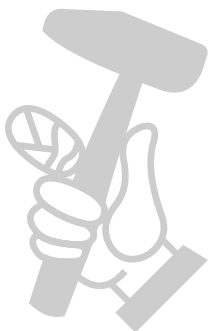
CAUTION!



CAUTION! Used if there is a risk of injury to the operator or damage to the surroundings if the instructions in the manual are not followed.

NOTICE!

NOTICE! Used if there is a risk of damage to materials or the machine if the instructions in the manual are not followed.



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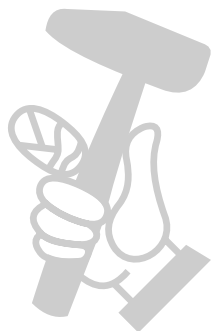
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PRESENTATION

Dear Customer,

Thank you for choosing a Husqvarna product!

It is our wish that you will be satisfied with your product and that it will be your companion for a long time. A purchase of one of our products gives you access to professional help with repairs and services. If the retailer who sells your machine is not one of our authorised dealers, ask him for the address of your nearest service workshop.

This operator's manual is a valuable document. Make sure it is always at hand at the work place. By following its content (using, service, maintenance etc) the life span and the second-hand value of the machine can be extended. If you will sell this machine, make sure that the buyer will get the operator's manual.

More than 300 years of innovation

Husqvarna AB is a Swedish company based on a tradition that dates back to 1689, when the Swedish King Charles XI ordered the construction of a factory for production of muskets. At that time, the foundation was already laid for the engineering skills behind the development of some of the world's leading products in areas such as hunting weapons, bicycles, motorcycles, domestic appliances, sewing machines and outdoor products.

Husqvarna is the global leader in outdoor power products for forestry, park maintenance and lawn and garden care, as well as cutting equipment and diamond tools for the construction and stone industries.

User responsibility

It is the owner's/employer's responsibility that the operator has sufficient knowledge about how to use the machine safely. Supervisors and operators must have read and understood the Operator's Manual. They must be aware of:

- The machine's safety instructions.
- The machine's range of applications and limitations.
- How the machine is to be used and maintained.

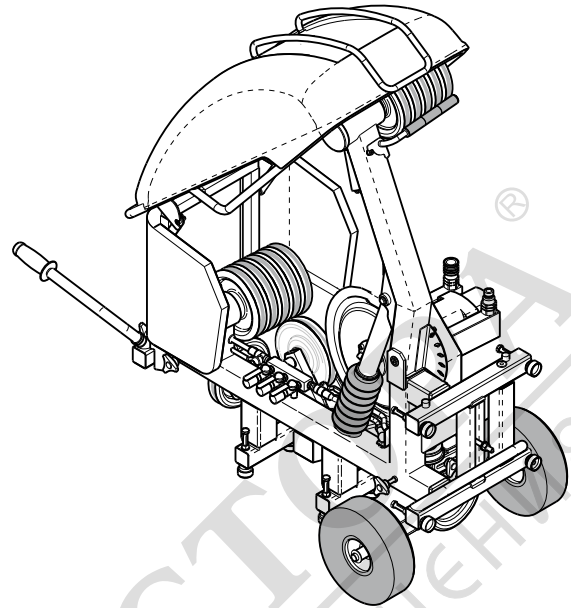
National legislation could regulate the use of this machine. Find out what legislation is applicable in the place where you work before you start using the machine.

The manufacturer's reservation

All information and all data in the Operator's Manual were applicable at the time the Operator's Manual was sent to print.

Husqvarna AB has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

CS 2512



Husqvarna CS 2512 is designed for use together with the hydraulic unit PP 455 E or Husqvarna RC 455. Husqvarna CS 2512 is a powerful and easy to use wire saw with a capacity for really large work, yet at the same time sufficiently compact and mobile for small work. It can be used in many different ways, both on the ground and fitted to the wall.

The well thought-out design of the CS 2512, where the drive wheel is placed on the machine's output side means that the wire is always under tension even when the feed force is low. Combined with the adjustable pressure valve this gives exact control of cutting and unbeatable performance.

The machine can be rigged both vertically and horizontally and many cuts can be made directly without external idler wheels.

Complete saw equipment consists of:

- One saw
- 1 x accessory box
- 1 x 18 mm wrench
- 1 x pressure reduction block
- 1 x extra wear rubber for the magazine wheel
- 1 x cleaning brush

PRESENTATION

Accessories

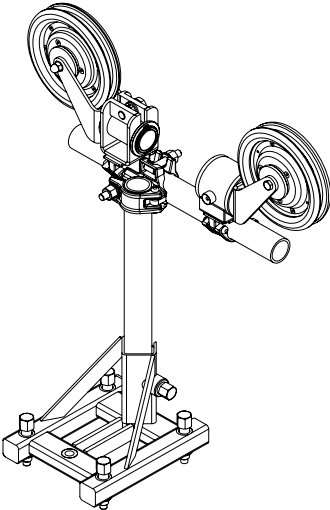
Water spear

Connected to the water connections on the saw and used to guide cooling water into the cut to cool the wire and to bind the concrete dust.



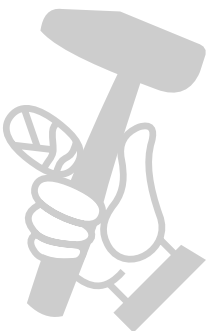
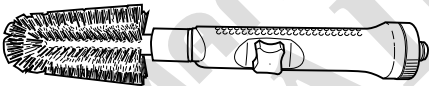
Idler wheels

Husqvarna idler wheels are designed to smoothly guide the wire as efficiently as possible. By using idler wheels the number of sharp corners to cut around can be reduced, which means that more of the cutting capacity is used for material removal.

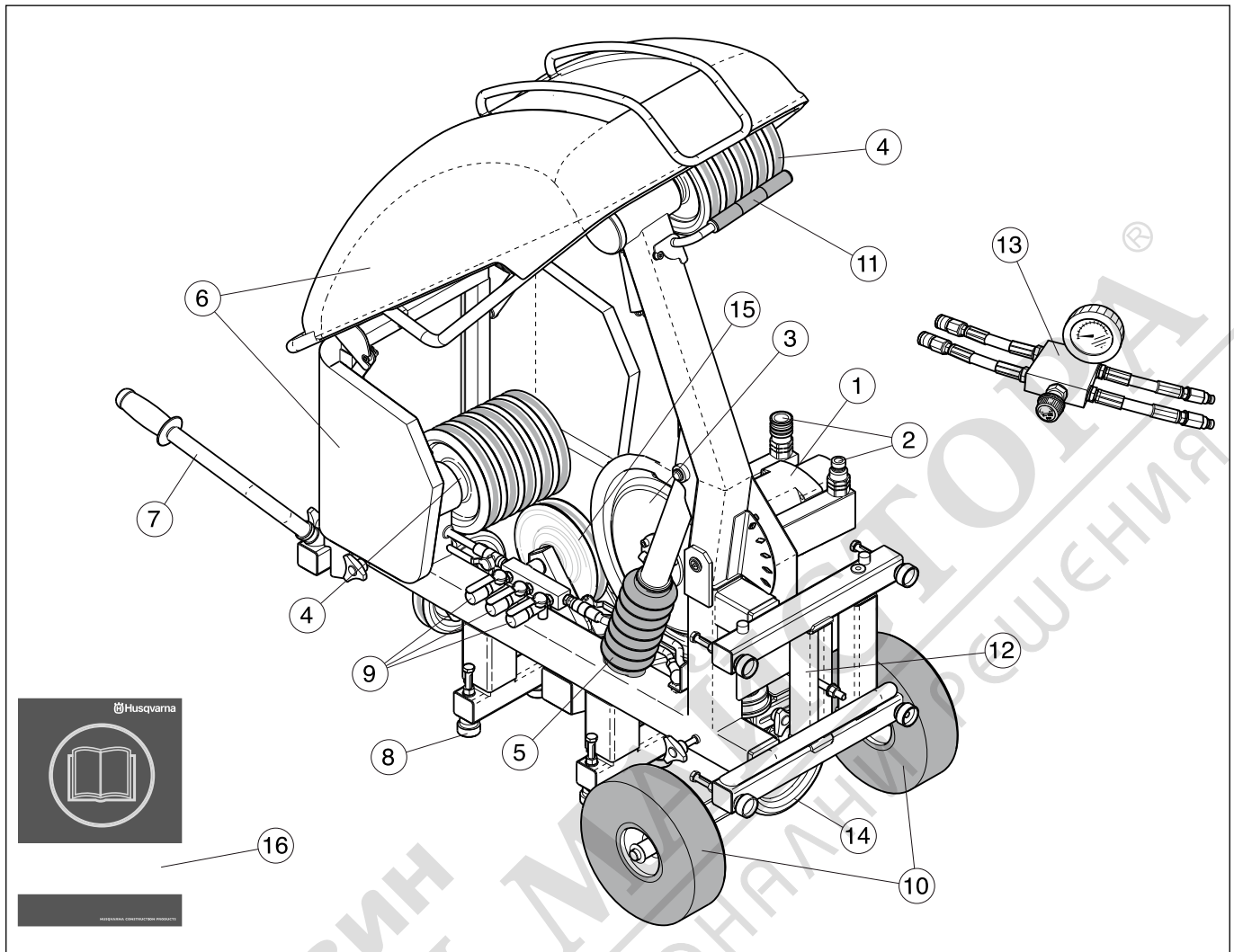


Cleaning brush

Can be connected to the water hose and then used to clean the machine after use.



PRESENTATION



What is what on the wire saw?

- | | |
|------------------------------|-----------------------------|
| 1 Hydraulic motor | 9 Water connector |
| 2 Hydraulic hose connections | 10 Rubber wheels |
| 3 Drive wheel | 11 Wire boom |
| 4 Wire magazine | 12 Anchor beam |
| 5 Magazine cylinder | 13 Pressure reduction block |
| 6 Guard | 14 Swivel wheels |
| 7 Carrying handle | 15 Guide wheels |
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OPERATING

Protective equipment

General

Do not use the machine unless you are able to call for help in the event of an accident.

Personal protective equipment

You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your dealer for help in choosing the right equipment.



WARNING! The use of products such as cutters, grinders, drills, that sand or form material can generate dust and vapours which may contain hazardous chemicals. Check the nature of the material you intend to process and use an appropriate breathing mask.

Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection. Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.

There is always a risk of crush injuries when working with products containing moving parts. Wear protective gloves to avoid body injuries. Be careful as clothing, long hair, and jewellery can get caught in moving parts.

Always wear:

- Approved protective helmet
- Hearing protection
- Protective goggles or a visor
- Breathing mask
- Heavy-duty, firm grip gloves.
- Tight-fitting, heavy-duty and comfortable clothing that permits full freedom of movement.
- Boots with steel toe-caps and non-slip sole.

Other protective equipment



IMPORTANT! Sparks may appear and start a fire when you work with the machine. Always keep fire fighting equipment handy.

- Fire Extinguisher
- Always have a first aid kit nearby.

General safety precautions

This section describes basic safety directions for using the machine. This information is never a substitute for professional skills and experience.

- Please read the operator's manual carefully and make sure you understand the instructions before using the machine.
- Keep in mind that it is you, the operator that is responsible for not exposing people or their property to accidents or hazards.
- The machine must be kept clean. Signs and stickers must be fully legible.

Always use common sense

It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense.

If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent or an experienced user. Do not attempt any task that you feel unsure of!



WARNING! The machine can be a dangerous tool if used incorrectly or carelessly, which can cause serious or fatal injury to the operator or others.

Never allow children or other persons not trained in the use of the machine to use or service it.

Never allow anyone else to use the machine without first ensuring that they have understood the contents of the operator's manual.

Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgement or your co-ordination.



WARNING! Unauthorized modifications and/or accessories may lead to serious injury or death to the user or others. Under no circumstances may the design of the machine be modified without the permission of the manufacturer.

Do not modify this product or use it if it appears to have been modified by others.

Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance.

Always use genuine accessories.

OPERATING

Work area safety



WARNING! The safety distance to all moving parts is a minimum of 1,5 m. You are responsible to ensure that animals and onlookers are not within the working area.

- Observe your surroundings to ensure that nothing can affect your control of the machine.
- Ensure that no one/nothing can come into contact with the cutting equipment or be hit by parts if the wire breaks.
- Secure the working area with appropriate guards if there is danger of parts being thrown from the work piece. Secure and cordon off the area and make sure that no one can be injured or material damaged.
- Make sure that no pipes or electrical cables are routed in the working area or in the material to be cut.
- Check that electrical cables within the working area are not live.
- Ensure that the working area is sufficiently illuminated to create a safe working environment.
- Do not use the machine in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and can lead to dangerous conditions, e.g. slippery surfaces.

Basic working techniques

- This machine is designed for and intended for sawing concrete, brick and different stone materials. All other use is improper.
- This machine is only intended for use together with a Husqvarna PP 455E or a unit connected to Husqvarna RC 455. All other use is forbidden.
- The machine is intended for use in industrial applications by experienced operators.
- Do not modify safety equipment. Check regularly that they function as they should. The machine must not be run with defective or disassembled safety equipment.
- Always check that the guard is correctly fitted before starting the machine. Never cut without using the guard.
- Never use worn or damaged wire.
- Only use wire recommended by the manufacturer. See instructions in the section "Technical data".
- Never cut without using the cooling water. A poorly cooled wire can result in the segments overheating, which results in greater wear. In the worst case scenario, segments can come loose from the wire and injure persons close to the saw.
- Check that all couplings, connections and hydraulic hoses are in full working order.
- Keep the hydraulic hoses and couplings free from dirt. Do not misuse hoses.
- Do not use hoses that are distorted, worn or damaged.

- Check that the hoses are connected correctly to the machine and that the hydraulic couplings lock as intended before pressurising the hydraulic system. The couplings are locked by turning the outer sleeve on the female coupling so that the slot moves away from the ball.
- Check the machine, couplings and hydraulic hoses daily for leakage. A rupture or leak can cause a "hydraulic fluid injection" in the body or result in other serious physical injury.
- Never disconnect the hydraulic hoses without first shutting off and disconnecting the hydraulic unit and ensuring the motors have stopped completely.
- Do not exceed the specified hydraulic fluid flow or pressure for the tool being used. Excessive pressure or flow can result in rupturing.
- Hoses that are marked and approved as electrically non conductive must be used when using hydraulic tools on or in the vicinity of electrical cables. The use of other types of hoses can result in serious physical injury or even death.
- When replacing hoses, hoses marked "non-conducting dielectric" must be used. The hoses must be regularly checked for their electrical conductive insulation in accordance with special instructions.
- Run the hydraulic system until it reaches its operation temperature of 30°C before starting to saw, to reduce return pressure and other wear.
- Always ensure you have a safe and stable working position.
- Clearly mark out all cuts to be made before you start sawing, plan these so they can be carried out without danger to persons or the machine.
- Never leave the machine unsupervised with the motor running.
- Never saw in such a way that you cannot easily reach the emergency stop on the hydraulic unit or the stop button on the remote control. See hydraulic unit manual.
- Make sure that there is always another person close at hand when you use the machines, so that you can call for help if an accident should occur.
- Observe care when lifting. You are handling heavy parts, which implies the risk of pinch injuries or other injuries.

Transport and storage

- Secure the equipment during transportation in order to avoid transport damage and accidents.
- Always switch off the power to the hydraulic unit and disconnect the hoses to the saw unit before moving the equipment.
- Store the equipment in a lockable area so that it is out of reach of children and unauthorized persons.

ASSEMBLY

Assembling/Installing equipment



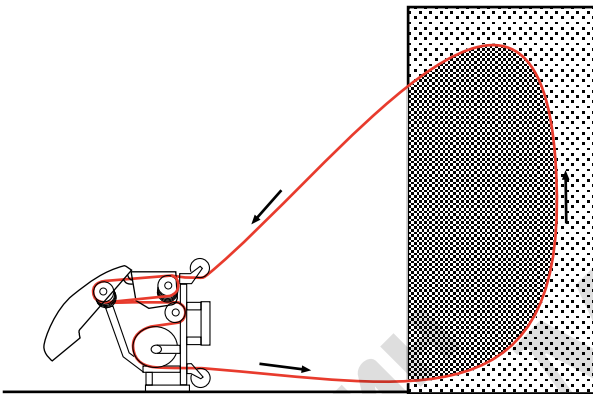
WARNING! Disconnect the hydraulic hoses.



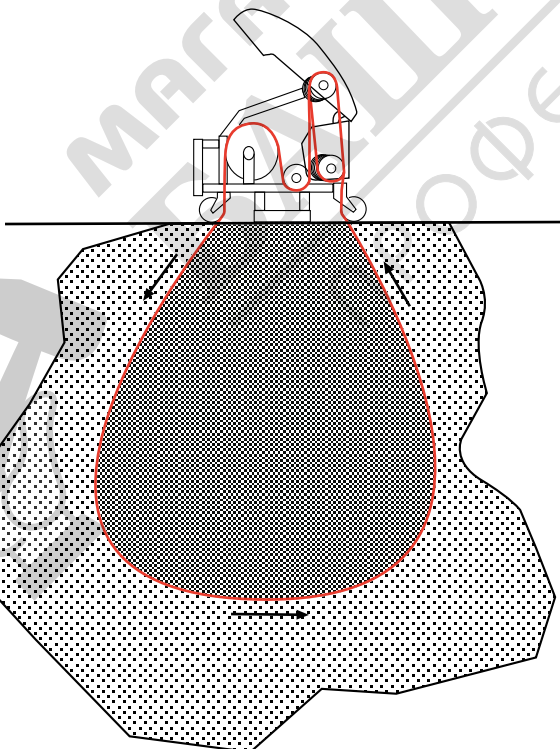
WARNING! Always position the saw so that you can stand without the risk of being hit by a broken wire. Ensure that no unauthorised persons can access the working area while cutting. Being hit by a broken wire can result in death or serious personal injury.

Cutting needs to be planned carefully before assembling the saw so that it can be performed as easily as possible.

Husqvarna CS 2512 can be assembled to make either horizontal or vertical cuts. The saw is assembled standing when you wish to make vertical cuts.



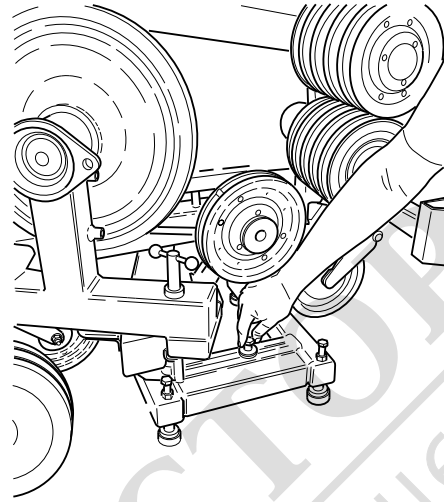
The saw is assembled horizontally when the cut is to be made at floor height and when the cut is made in the floor.



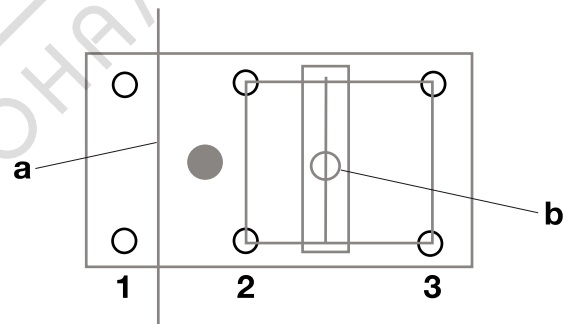
It may be necessary to drill holes to thread the wire through the material to be cut.

Position the saw in an appropriate position in front of the planned cut. When the saw is in position, secure it by screwing down the anchor bolt.

When the saw is anchored to the floor, screw down the adjuster feet so that the saw stands firmly.



Remember that the machine's centre of gravity (the grey circle) is positioned between the first and second pairs of adjuster feet (the adjuster feet pairs are marked 1-3) with a horizontal cut (A). When cutting under the machine, it is important that the saw is anchored well with the anchor bolt (b) as the adjuster feet pairs 2 and 3 must be used. (Adjuster feet pair 1 may rest on the sawn off section.) If the saw is not anchored well it will overturn when the material supporting adjuster feet pair 1 has been cut through.



If necessary, fit idler wheels to assist the cutting process. Using the idler wheels allows the number of sharp corners that the wire must be pulled around can be reduced, which results in less wear to the wire at the same time as cutting is made easier. Using the idler wheels also lets the wire be guided in different directions without the need of moving the saw unit.

Also, use the idler wheels to capture the wire when finishing the cut.

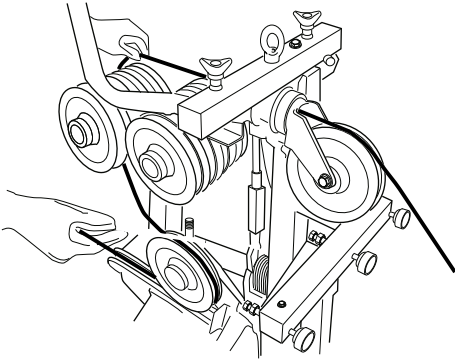
ASSEMBLY

Threading the wire

NOTICE! A used wire must always be run in the same direction, as it was previously run in order to prevent unnecessary wear.

The guard can easily be lifted off to facilitate fitting wire. Now thread the wire as follows:

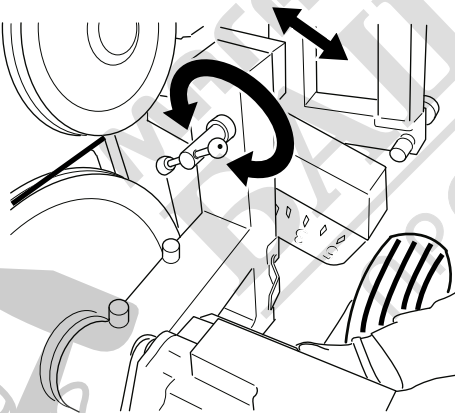
- 1 Make sure the magazine is in the min position.
- 2 Place the wire around the work piece, possibly through the predrilled holes and back to the saw.
- 3 Thread the wire through the hole by the swivel wheel and around a suitable number of wheel sets in the magazine.



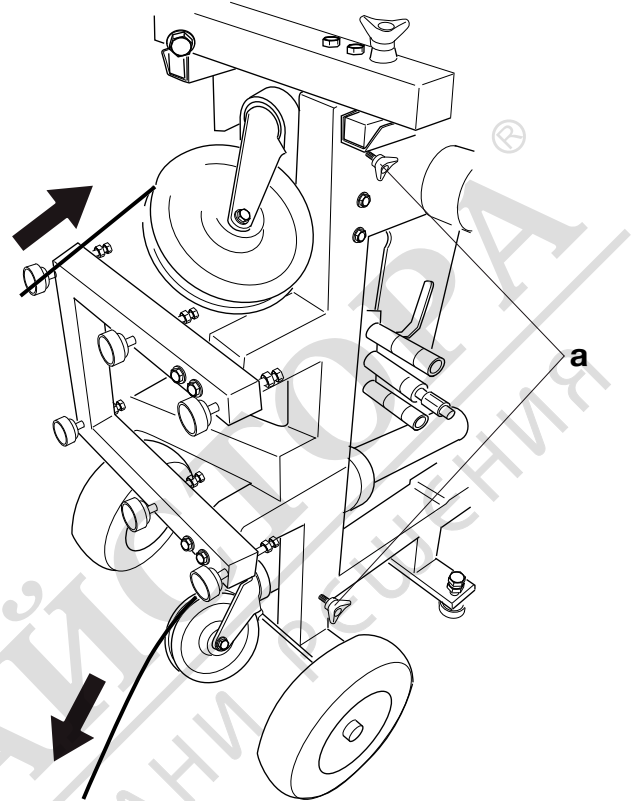
- 4 Adjust the drive wheel unit according to the number of wheel sets used in the magazine:

Loosen the arm by screwing out the knob anticlockwise. Now turn the drive wheel unit so that the arm is aligned with the markings on the saw. Lock the drive wheel unit by turning back the knob.

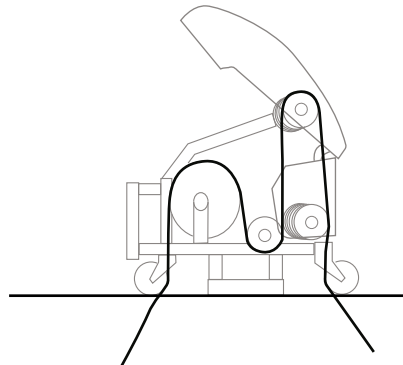
Usually only one wheel set is used in the first stage of cutting.



- 5 Thread the wire around the drive wheel and out through the hole by the second swivel wheel. The swivel wheel can rotate and be locked in the required position by turning the marked (A) knobs.



- 6 Before the joints on the wire are connected, the wire should be twisted 1 to 2 turns per metre wire used. It is important to twist the wire in the same direction as it is spun. This is to give as even wear as possible on the wire's diamond segments.
- 7 Lock the wire with a pin. If there are no end sleeves on the wire, these must be spliced on to the wire. A special pair of wire pliers must be used. If you are unsure about which model you should use, contact your Husqvarna dealer.
- 8 When the wire is routed correctly it should run through the machine as in the figure below:

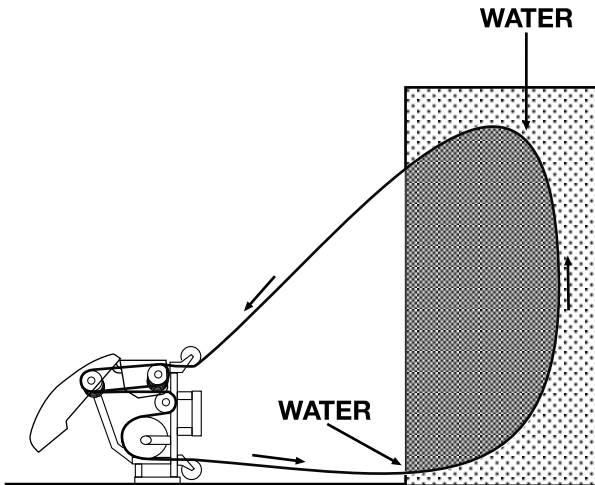


ASSEMBLY

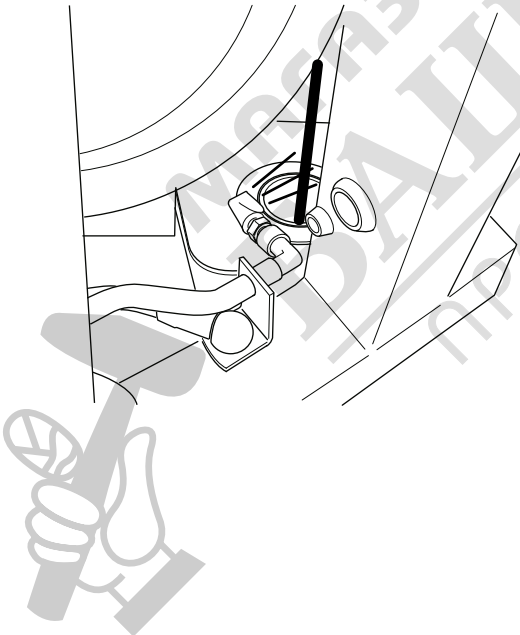
Placement of the cooling water

NOTICE! In order for the water to cool the wire as intended during cutting, it is essential to adjust the position of the cooling water as the material is cut. Remember to always stop the machine when you do this.

Husqvarna CS 2512 is equipped with two outlets for the cooling water. Ideally, Husqvarna water spears can be connected to these. The water spears are then placed where the wire enters the concrete. In this way the wire takes water with it into the cut, which results in the concrete dust binding and that the wire is cooled efficiently.



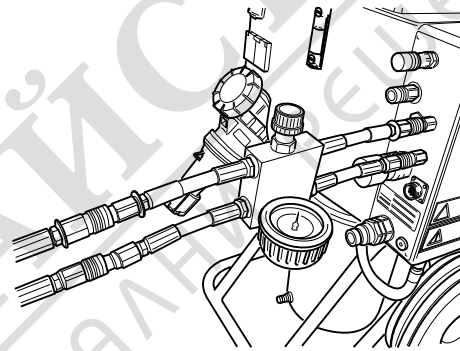
In addition to the cooling water from the water spear, the wire is rinsed by the two swivel wheels on the machine. This is to keep the wire as clean as possible, which means that the saw can work with less friction losses and greater efficiency as the wire becomes cleaner.



Connect the hydraulic unit

When the saw is assembled appropriately, it should be connected to a hydraulic unit. Husqvarna CS 2512 is designed for use with Husqvarna PP 455 or Husqvarna RC 455.

- 1 Check that the hydraulic unit is connected to the power.
- 2 Connect the cooling water to the motor on the hydraulic unit.
- 3 Check that the display on the remote control shows 'CONNECT HOSE BUNDLE". If not follow the instructions in the Operator's manuals for PP 455E or RC 455.
- 4 Fit the pressure reduction block on the hydraulic unit as set out in the instructions on the block.
- 5 Connect the two smaller hydraulic hoses to the pressure reduction block. The hoses in the hose bundle marked with a red disc by the coupling shall be connected to the hose on the pressure reduction block that is also fitted with a disc.



- 6 Lock the couplings by turning the sleeve on the coupling so that the slot moves away from the ball.
- 7 Fit the two hoses connected on the pressure reduction block to the hoses to the feed cylinder on the saw. The hoses in the hose bundle marked with a red disc by the coupling shall be connected to the hose on the saw that is also fitted with a disc.
- 8 Connect the water hose to the incoming water on the saw.
- 9 Fit the two large hydraulic hoses on the unit first and then to the saw motor connections. Lock the couplings by turning the sleeve on the coupling so that the slot moves away from the ball.

NOTE!

If the couplings jam when assembling, they should be removed completely before being refitted.

Make sure that the couplings on the hoses not in use do not lie directly on the ground.

Always keep the couplings as clean as possible. A clean coupling lasts longer.

STARTING AND STOPPING

Before starting

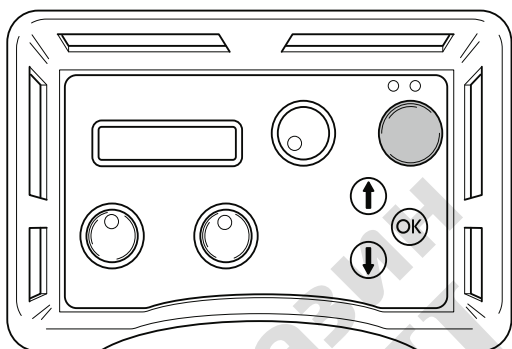
- Enclose the area to be cut so that unauthorised persons can not be injured or disturb the operator.
- Make sure that all hydraulic hoses and connections are intact and correctly connected, and that the water cooling is correctly connected and switched on.

Starting

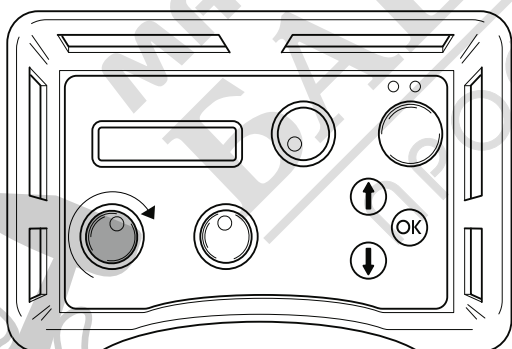
NOTICE! In order for the water to cool the wire as intended during cutting, it is essential to adjust the position of the cooling water as the material is cut. Remember to always stop the machine when you do this.

When all the equipment has been assembled cutting can start. In order for the saw to cut as efficiently as possible it should be started as follows:

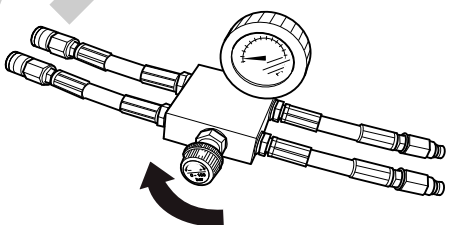
- 1 Close the valve on the pressure reduction block by turning the knob anti-clockwise until it stops and then two turns back.
- 2 Start the electric motor by pressing the remote control's green button once.



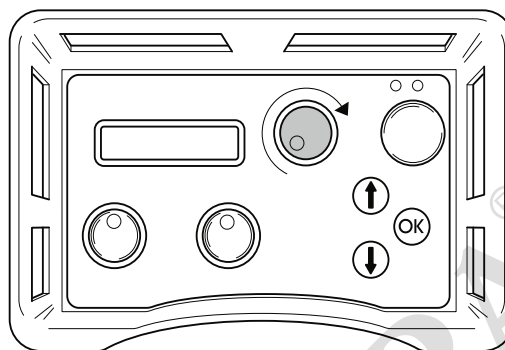
- 3 Set the feeding flow on the unit to max by turning the control on the remote control clockwise.



- 4 Tension the wire by carefully turning the knob on the pressure reduction block clockwise until the wire is tensioned sufficiently. Make sure to always check that the wire is seated correctly in all the wheels on the saw.



- 5 Start the wire drive by turning the control for motor rotation on the remote control clockwise.



- 6 Carefully increase the motor speed by turning the control for motor rotation. A suitable working pressure when cutting usually lies between 100 and 130 bar, but varies depending on how many wheel sets are used in the magazine, how much wire is in use and the hardness of the material to be cut.
- 7 As the material is cut away the working pressure drops, which is shown on the display, and the magazine must then be tensioned. Do this by turning the knob on the pressure reduction block clockwise.
- 8 The output tension on the magazine is shown by an indicator on the machine (shown in the min position). When the magazine cylinder is fully tensioned, the machine must be stopped and the wire must be wound around a new wheel set. Then continue to cut as above.

Stopping

- Lower the speed on the wire and allow the motor to stop completely.
- Turn off the electric motor by pressing the remote control's green button.

Dismantling the saw

- Disconnect the incoming cables from the hydraulic unit.
- Disconnect the hydraulic hoses and the water hose from the saw unit.
- Fold up the magazine arm.

The other steps are done in the reverse order to assembling.

Cleaning

NOTICE! Do not use a high pressure washer to clean the saw.

The saw should be cleaned once cutting is finished. It is important to clean all the saw equipment. It is a good idea to disconnect the water hose from the pivot arm and use this to wash down the saw unit. If necessary, you can also use the supplied cleaning brush or the like to clean the equipment. Do not use a high pressure washer to clean the saw.

MAINTENANCE

Maintenance



CAUTION! Inspection and/or maintenance should be carried out with the hydraulic hoses disconnected.

The user must only carry out the maintenance and service work described in this Operator's Manual. More extensive work must be carried out by an authorized service workshop.

In addition to the daily maintenance such as cleaning and lubrication, the machine must be serviced. After 50 hours of cutting, the machine should be serviced at an accredited Husqvarna workshop. The saw should then be serviced after every 100 hours of operation. The service is important so that as the user you have a machine that works as effectively as possible for a long time.

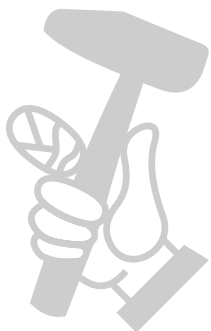
Greasing

In order for the wire to run as friction free as possible, the magazine axles must be filled with grease. Fill with grease after every 5 -10 hours of operation. Use Canadian Petroleum OG2 or similar grease.

Repairs



CAUTION! All types of repairs may only be carried out by authorised repairmen. This is so that the operators are not exposed to great risks.



TECHNICAL DATA

CS 2512

Power on drive wheel (with PP 455), kW	20
Hydraulic oil flow, l/min / gpm	65/17
Max. hydraulic pressure, bar/psi	230/3400
Max recommended hydraulic pressure when cutting, bar/psi	130/1900
Maximal wire length in the magazine (2.4 m/wheel set), m	12
Dimensions, handle folded in and the guard folded down (L x W x H), mm	1150x750x980
Weight, kg/lbs	150/330
Wire speed gear 1, m/s / ft/s	20/66
Wire speed gear 2, m/s / ft/s	25/82
Noise emissions (see note 1)	
Sound power level, measured dB(A)	94
Sound power level, guaranteed L _{WA} dB(A)	95
Sound levels (see note 2)	
Sound pressure level at the operators ear, dB(A)	83

Note 1: Noise emissions in the environment measured as sound power (L_{WA}) in conformity with EN 15027/A1.

Note 2: Noise pressure level according to EN 15027/A1. Reported data for noise pressure level has a typical statistical dispersion (standard deviation) of 1.0 dB(A).

Magazine capacity

	Number of magazine wheel pairs				
	1	2	3	4	5
MIN. length in machine, m	3,4	4,4	5,5	6,5	7,5
Absorbing length, m	2,4	4,8	7,2	9,6	12
MAX. length in machine, m	5,8	9,2	12,7	16,1	19,5

Recommended wires

Husqvarna recommends that the following wires are used:

Husqvarna C710C	Husqvarna C710C is a galvanised wire developed for use when cutting concrete with a great deal of reinforcement. The segments have a great number of diamonds and a smaller diameter (9.5mm) which means the wire cuts very efficiently. The smaller diameter also means that C710C can be used to finish difficult cuts.
Husqvarna C750C	Husqvarna C750C is an all round wire developed for use when cutting reinforced concrete. The wire has been designed for use with saws with an output power between 10 and 25 kW.
Husqvarna C760C	This is the Husqvarna premium wire: long life, high cutting rate and high power resistance characterize this wire. Husqvarna C760C can be used to cut all types of reinforced concrete, even when the work places high demands on the wire, for example when cutting bridges.
Husqvarna C790C	The segment strength on this wire makes Husqvarna C790C the best choice when cutting soft materials such as mortar, and lightly reinforced limestone concrete.
Husqvarna C575J	Husqvarna C575J is a wire with galvanised 15 mm segments.
C1200M	Husqvarna C1200M is a wire developed for use when cutting steel. The wire has been designed for use in extremely demanding situations. The use of the latest sintering technique has given enormous advantages with regard to cutting rates and life span. The wire can be supplied with either joined or loose ends.

For further information about different tools from Husqvarna, contact your Husqvarna dealer.

TECHNICAL DATA

EC-declaration of conformity

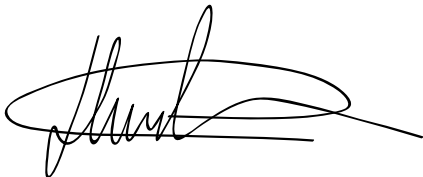
(Applies to Europe only)

Husqvarna AB, SE-433 81 Göteborg, Sweden, tel: +46-31-949000, declares under sole responsibility that the **Husqvarna CS 2512** dating from 2010 serial numbers and onwards (the year is clearly stated on the rating plate, followed by the serial number), complies with the requirements of the COUNCIL'S DIRECTIVE:

- of May 17, 2006 "relating to machinery" **2006/42/EC**

The following standards have been applied: EN ISO 12100:2003, EN 15027/A1:2009, EN 982/A1:2008.

Husqvarna December 29, 2009

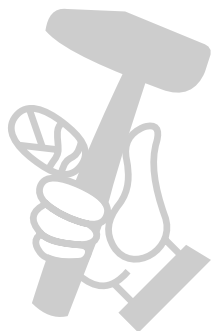


Henric Andersson

Vice President, Head of Power Cutters and Construction Equipment

Husqvarna AB

(Authorized representative for Husqvarna AB and responsible for technical documentation.)



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