



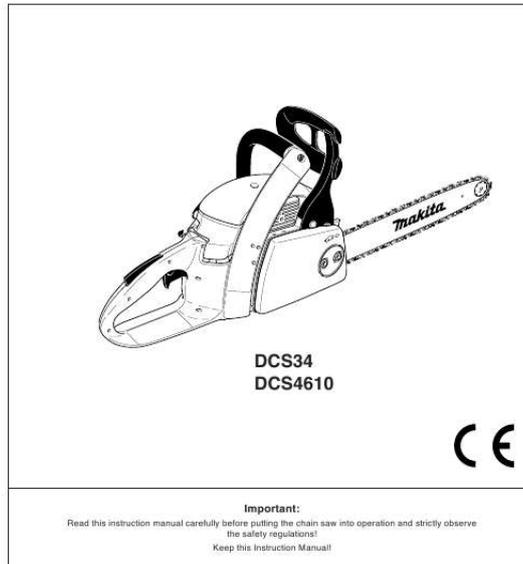
# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for MAKITA DCS4610. You'll find the answers to all your questions on the MAKITA DCS4610 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual MAKITA DCS4610**  
**User guide MAKITA DCS4610**  
**Operating instructions MAKITA DCS4610**  
**Instructions for use MAKITA DCS4610**  
**Instruction manual MAKITA DCS4610**



**Instruction Manual**



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*Manual abstract:*

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... 7 The automatic chain lubrication and maintenance-free electronic ignition ensure trouble-free operation, while the hand-saving anti-vibration system and ergonomic grips and controls make work easier, safer, and less tiring for the user. The PS-34, chain saws are equipped with the latest safety features and meet all international standards. These features include: Hand guards on both handles, grip throttle lever lock, chain catch, safety saw chain, and chain brake. The chain brake can be actuated manually, and is also inertia-actuated automatically in case of kickback. The following industrial property rights apply: DE 9769. In order to ensure the proper functioning and performance of your new chain saw, and to safeguard your own personal safety, it is imperative that you read this instruction manual thoroughly before operation. Be especially careful to observe all safety precautions! Failure to do so can result in serious injury to the operator and/or bystanders! Packing The MAKITA chain saw will be delivered in a protective cardboard box to prevent transport damage.

Cardboard is a basic raw material and is consequently reuseable or suitable for recycling (waste paper recycling). Delivery inventory 2 3 4 5 1 1. 2. 3. 4. 5. 6. Chain saw Guide bar Saw chain Chain protection cover Assembly tool Instruction manual (not shown) In case one of the parts listed should not be included in the delivery inventory, please consult your sales agent. Symbols You will note the following symbols on the chain saw and when studying this instruction manual: Read the instruction manual and follow all warnings and safety instructions! Particular care and caution! Stop engine! Start the engine Forbidden! Caution, kickback! Wear protective helmet, eye and ear protection! Chain brake Wear protective gloves! Fuel and oil mixture No smoking! Chain oil fill/oil pump No open fire! First aid Combination Start/Stop (I/O) switch, choke Recycling Direction of chain travel Sign CE 3 SAFETY PRECAUTIONS Intended use Power chain saws This power chain saw may be used only for sawing wood out of doors. It is intended for the following uses depending on its class: Protective gloves (6) made of thick leather are part of the prescribed equipment and must always be worn during operation of the chain saw. Unauthorised users: Professional and mid-class: Use on small, medium and large trees: felling, limb removal, cutting to length, thinning. Hobbyklasse: Occasional use on small trees, fruit-tree care, felling, limb removal, cutting to length. Persons who are not familiar with the Instruction Manual, children, young people, and persons under the influence of drugs, alcohol or medication must not use this saw. General precautions To ensure correct operation the user has to read this instruction manual to make himself familiar with the characteristics of the chain saw. Users insufficiently informed will endanger themselves as well as others due to improper handling.

It is recommended to lend the chain saw only to people who are experienced in working with chain saws. Always hand over the instruction manual. During operation of the chain saw safety shoes or safety boots (7) fitted with anti-slip sole, steel toe caps and protection for the leg must always be worn. Safety shoes equipped with a protective layer provide protection against cuts and ensure a secure footing. - First users should ask the dealer for basic instructions to become familiarized with the characteristics of engine powered sawing or even attend a recognized course of instruction. - Children and young persons aged under 8 years must not be allowed to operate the chain saw. Persons over the age of 6 years may, however, use the chain saw for the purpose of being trained as long as they are under the supervision of a qualified trainer. Use chain saws always with the utmost care and attention. Operate the chain saw only if you are in good physical condition. If you are tired, your attention will be reduced. Be especially careful at the end of a working day. Perform all work calmly and carefully. The user has to accept liability for others. Never use the chain saw after having consumed alcohol, drugs or medication. - A fire extinguisher must be available in the immediate vicinity when working in easily inflammable vegetation or when it has not trained for a long time (danger of fire).

Protective equipment In order to avoid head, eye, hand or foot injuries as well as to protect your hearing the following protective equipment must be used during operation of the chain saw: 1 3 - - The kind of clothing should be appropriate, i. e. it should be tight-fitting but not be a hindrance. Do not wear jewellery or clothing which could become entangled with bushes or shrubs. If you have long hair, always wear a hairnet! It is necessary to wear a protective helmet whenever working with the chain saw. The protective helmet ( ) is to be checked in regular intervals for damage and is to be replaced after 5 years at the latest. Use only approved protective helmets. The face shield ( ) of the protective helmet (or the goggles) protects against sawdust and wood chips. During operation of the chain saw always wear a goggle or a face shield to prevent eye injuries. 2 3 - - Wear adequate noise protection equipment (ear muffs (3), ear plugs, etc.

). Octave brand analysis upon request. The safety jacket (4) is provided with special signal-coloured shoulder straps and is comfortable and easy to care for. 4 7 5 4 The protective brace and bib overall (5) is made of a nylon fabric with layers and protects against cuts. We strongly recommend its use. 6 4 Fuels / Refuelling - - Stop the engine before refuelling the chain saw. Do not smoke or work near open fires (5). Let the engine cool down before refuelling. Fuels can contain substances similar to solvents. Eyes and skin should not come in contact with mineral oil products. Always wear protective gloves when refuelling. Frequently clean and change protective clothes. Do not breathe in fuel vapors.



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Bio-degradable oil is stable only for a limited period of time. It should be used within years from the date of manufacture (printed on the container).  
E 3 If you are not planning to use the saw again for an extended period of time, empty the oil tank and put in a small amount of regular engine oil (SAE 30), and then run the saw for a time. This is necessary to flush out all remaining bio-degradable oil from the oil tank, oil-feed system, chain and guide bar, as many such oils tend to leave sticky residues over time, which can cause damage. Important note on bio-degradable chain oils: to the oil pump or other parts. The next time you use the saw, fill the tank with BIOTOP chain oil again. In case of damage caused by using waste oil or inappropriate chain oil the product guarantee will be null and void. Your salesman will inform you about the use of chain oil. NEVER USE WASTE OIL. Waste oil is very dangerous for the environment. Waste oil residues in waste oil result in a high degree of wear and tear at the oil pump and the sawing device. In case of damage caused by using waste oil or inappropriate chain oil the product guarantee will be null and void. Your salesman will inform you about the use of chain oil. Waste oil contains high amounts of carcinogenic substances.

**AVOID SKIN AND EYE CONTACT** Mineral oil products degrease your skin. Various skin diseases may result. In addition, allergic reactions are known to occur. Eyes can be irritated by contact with oil. If oil comes into your eyes, immediately wash them with clear water. If your eyes are still irritated, see a doctor immediately! A Refuelling **FOLLOW THE SAFETY PRECAUTIONS!** The engine must be switched off! Be careful and cautious when handling fuels. Thoroughly clean the area around the caps, to prevent dirt from getting into the fuel or oil tank. Unscrew the cap and fill the tank with fuel (fuel/oil mixture) or chain oil as the case may be. Fill up to the bottom edge of the filler neck. Be careful not to spill fuel or chain oil! Tightly screw on the cap.

Clean screw cap and tank after refuelling. chain oil fuel/oil mixture B 4 During operation there must always be sufficient chain oil in the chain-oil tank to provide good chain lubrication. One filling is sufficient for about one half-hour of continuous operation. While working make sure there is enough chain oil in the tank. If necessary, add oil.

The engine must be switched off! Lubricating the chain Checking the chain lubrication Never work with the chainsaw without sufficient chain lubrication. Otherwise the service life of the chain and guide bar will be reduced. Before starting work check the oil level in the tank and the oil feed. Check the oil feed rate as described below: Start the chain saw (see „Starting the engine“).

If the lubrication is insufficient, you will see a light oil trace because oil will be flung off the sawing device.

Pay attention to the direction the wind is blowing and avoid unnecessary exposure to the oil spray! Note: After the saw has been turned off it is normal for residual chain oil to drip from the oil feed system, the guide bar and the chain for a time. This does not constitute a defect! Place the saw on a suitable surface. Hold the running chain saw approx. 5 cm above a trunk or the ground (use an appropriate base). C To ensure trouble-free operation of the oil pump the oil guide groove at the crankcase (1) and the oil inlet bore in the guide bar (2) must be cleaned regularly. 1 2 D 5 Starting the engine Start the chain saw only after having assembled it completely and inspected! Engage the chain brake (lock). Move the combination switch (1) up (choke position). Push the throttle (3) in all the way and hold it. The chain should stop immediately. Immediately release the throttle and release the chain brake.

**IMPORTANT:** If the chain does not stop immediately when you test the chain brake, do NOT use the chain saw. Take the chain saw to a MAKITA service center. 7 C Adjusting the carburetor **IMPORTANT:** Carburetor adjustment may be done only by a MAKITA service centre! Setting the idle speed Turn out the idle adjusting screw (9) (counterclockwise): Idle speed drops. Turn in the idle adjusting screw (9) (clockwise): Idle speed goes up. Caution: If after this adjustment the cutting tool still rotates during idle, do NOT work with the unit! Take it to a MAKITA service centre! **SERVICE** Do not undertake adjustments to the adjusting screws (H) and (L) without a tachometer! Improper adjustment can lead to engine damage! The adjusting screws (H) and (L) are factory set almost all the way out (turned counterclockwise). Note: Carburetor adjustment is necessary for optimum engine performance, for safer and more economical operation. In order to comply with new emissions legislation, limits have been placed on the carburetor adjusting screws (H) and (L). This limitation (to about 80 degrees) prevents an excessively rich mixture. On some models the (H) screw is also sealed. This ensures compliance with emissions rules as well as optimum engine performance and economical fuel consumption.

A tachometer is necessary to adjust the adjusting screws (H) and (L), because exceeding the permissible maximum speed leads to overheating and under-lubrication. This can damage the engine! The only user-adjustable setting is the idle adjusting screw (9). If the blade rotates in idle (without the throttle pressed), it is absolutely necessary to correct the idle speed before using the tool! Do not adjust the idle speed until the machine has been completely assembled and checked! Adjust the idle speed only with the engine warm, a clean air filter, and properly installed cutting tool. Use a screwdriver (blade width 4 mm, part No. 944 340 00) to adjust the screw.

9 HL S D 7 **MAINTENANCE** Sharpening the saw chain **CAUTION:** Before doing any work on the guide bar or chain, always switch off the engine and pull the plug cap off the spark plug (see „Replacing the spark plug“). Always wear protective gloves! The chain needs sharpening when: The sawdust produced when sawing damp wood looks like wood flour. The chain penetrates the wood only under great pressure. The cutting edge is visibly damaged. The saw is pulled to the left or right when sawing.

This is caused by uneven sharpening of the chain. Important: Sharpen frequently, but without removing too much metal!

Generally, 2 or 3 strokes of the file will be enough. Have the chain resharpened at a service centre when you have already sharpened it yourself several times. A Proper sharpening: 0.64 mm (.05") 0.64 mm (.05") **CAUTION:** Use only chains and guide bars designed for this saw (see the Extract from the spare-parts list)! All cutters must be of the same length (dimension a). Cutters with different lengths result in rough running of the chain and can cause cracks in the chain. Minimum cutter length is 3 mm (0.

). Do not sharpen the chain when the minimum cutter length has been reached; at this point, the chain must be replaced (see the Extract from the spare-parts list and „Replacing the chain“).



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The depth of the cut is determined by the difference in height between the depth limiter (round nose) and the cutting edge. The best results are obtained with a depth-limiter depth of 0.64 mm (.05"). CAUTION: Excessive depth increases the risk of kickback! B min. 3 mm (0.11") All cutters must be sharpened to the same angle, 30°. Different angles result in a roughly, irregularly running chain, increase wear and tear and cause chain beakage.

The 85° front rake of the cutter results from the cut depth of the round file. If the proper file is used in the right manner, the correct front rake will be obtained automatically. C 8 Files and how to work with them Sharpen using a special file holder with a saw chain round file dia. 4.0 mm.

Normal round files are not appropriate for this work. See „Accessories" for the order number. The file should cut only when pushed forwards (arrow). Lift the file when leading it backwards. First sharpen the shortest cutter.

The length of this cutter is then the standard for all other cutters of the chain. Always guide the file horizontally (90° to the guide bar). D

The file holder makes file guidance easier. It is marked for the correct 30° sharpening angle (keep the marks parallel with the chain when filing, see illustration) and limits the cut depth to the correct 4/5 of the file diameter. See „Accessories" for the order number. 4/5 30° E Correct even the smallest excess height (13) with a special flat file. See „Accessories" for the order number. Round off the front of the depth limiter (14). After having sharpened the chain, the height of the depth limiter must be checked by means of a chain gauge. See „Accessories" for the order number.

13 14 F 9 Cleaning the brake band and sprocket interior CAUTION: Before doing any work on the guide bar or chain, always switch off the engine and pull the plug cap off the spark plug (see „Replacing the spark plug"). Always wear protective gloves! CAUTION: Start the chain saw only after having assembled it completely and inspected! 1 2 3 Remove the sprocket guard (4) (See „PUTTING INTO OPERATION" figs. A and B) and clean the sprocket interior with a brush.

Turn the chain tightener screw (5) to the left (counterclockwise) until you feel resistance. Remove the chain (3) and guide bar (2). NOTE: Make sure that no residue or contaminants remain in the oil guide groove (1) and the chain tightener (6). For replacing the guide bar, chain, and sprocket see „PUTTING INTO OPERATION". 6 5 4 NOTE: The chain brake is a very important safety device and like any other component subject to normal wear and tear. SERVICE A Regular inspection and maintenance are important for your own safety and must be done by a MAKITA service center. Cleaning the guide bar, lubricating the sprocket nose CAUTION: Protective gloves must be worn.

Regularly inspect the bearing surfaces of the guide bar for damage, and clean them with a suitable tool. Multi-purpose grease and grease guns are available as accessories. Multi-purpose grease Grease gun (order no. 944 360 000) (order no. 944 350 000) If the saw is used intensively it will be necessary to lubricate the return sprocket bearings regularly (once a week).

To do this, first thoroughly clean the mm hole at the tip of the guide bar, and then press in a small amount of multi-purpose grease. B 0 Replacing the saw chain CAUTION: Use only chains and guide bars designed for this saw (see the Extract from the spare-parts list)! Check the sprocket (7) before mounting a new chain. 7 Remove the sprocket guard (See „PUTTING INTO OPERATION" figs. A-H). CAUTION: Worn out sprockets (8) may damage the new chain and must therefore be replaced.

8 SERVICE C Replacing the suction head The felt filter (9) of the suction head can become clogged. It is recommended to replace the suction head once every three months in order to ensure unimpeded fuel flow to the carburetor. To remove the suction head for replacement, pull it out through the tank filler neck using a piece of wire bent at one end to form a hook. 9 D Cleaning the air filter Remove the filter cover (11) (3 screws (10)). Remove the air filter (12). CAUTION: Cover the intake opening with a cloth to prevent dirt particles from getting into the carburetor. CAUTION: To prevent injury to the eyes, do NOT blow out dirt particles! Do not use fuel to clean the air filter. If the filter is very dirty, clean it in lukewarm water with dishwashing detergent. Let the air filter dry completely. 10 11 If the filter is very dirty, clean it frequently (several times a day), because only a clean air filter provides full engine power.

12 CAUTION: Replace damaged air filters immediately. Pieces of cloth or large dirt particles can destroy the engine! E Replacing the spark plug 1 CAUTION: Do not touch the spark plug or plug cap if the engine is running (high voltage). Switch off the engine before starting any maintenance work. A hot engine can cause burns. Wear protective gloves! 0,5 mm The spark plug must be replaced in case of damage to the insulator, electrode erosion (burn) or if the electrodes are very dirty or oily. Remove the cover (see „Cleaning the air filter"). Pull the plug cap (1) off the spark plug. Use only the combination wrench supplied with the saw to remove the spark plug. Electrode gap The electrode gap must be 0.5 mm.

A 2 3 Checking the ignition spark Press the loosened spark plug (2) with the ignition cable firmly connected against the cylinder using insulated pliers (not near the spark plug opening). Press the combination switch (3) in the „I" position. Pull the starter cable hard. If the function is correct, an ignition spark must be visible near the electrodes. CAUTION: Use only the following spark plugs: · NGK BPMR 7A B Instructions for periodic maintenance To ensure long life, prevent damage and ensure the full functioning of the safety features the following maintenance must be performed regularly.

Guarantee claims can be recognized only if this work is performed regularly and properly. Failure to perform the prescribed maintenance work can lead to accidents! The user of the chain saw must not perform maintenance work which is not described in the instruction manual. All such work must be carried out by a MAKITA service centre. Page General Chain saw Saw chain Chain brake Guide bar Starter cable Saw chain Guide bar Chain lubrication Chain brake Combination switch, Safety locking button, Throttle lever Fuel/oil tank cap Every day Air filter Guide bar Guide bar support Idle speed Fan housing Spark plug Muffler Chain catch Clean exterior, check for damage. In case of damage, have repaired by a qualified service centre immediately Sharpen regularly, replace in good time Have inspected regularly at an authorized service centre Turn over to ensure even wear of bearing surfaces Replace in good time Check for damage.

In case of damage, have repaired by a qualified service centre immediately Inspect for damage and sharpness Check chain tension Check for damage Functional check Functional check Check for tightness Clean Check for damage, clean oil intake bore Clean, in particular the oil guide groove Check (chain must not run) Clean to ensure proper air cooling Check and replace if necessary Check tightness of mounting Check 8-9, 0 Before each start 8-9 5 7 6 21 0 5, 0 7 9 9 Every week Screws and nuts Check their condition and that they are firmly secured.



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Every 3 months Annually Storage Suction head Fuel, oil tanks Chain saw Chain saw Chain, guide bar Fuel, oil tanks Carburetor Replace Clean Check at an authorized service centre Clean exterior, check for damage. In case of damage, have repaired by a qualified service centre immediately Demount, clean and oil slightly Clean the guide groove of the guide bar Empty and clean Run empty 0 Service, spare parts and guarantee  
The maintenance and repair of modern engines as well as all safety devices require qualified technical training and a special workshop equipped with special tools and testing devices. Maintenance and repair We therefore recommend that you consult a MAKITA service centre for all work not described in this instruction manual. @@@@ He will also have the spare part lists to determine the required spare part numbers, and will be constantly informed about the latest improvements and spare part innovations. To find your local distributor, please visit [www.makita-outdoor.com](http://www.makita-outdoor.com) Please bear in mind that if parts other than original MAKITA spare parts are used, this will automatically invalidate the MAKITA product guarantee. Spare parts MAKITA guarantees the highest quality and will therefore reimburse all costs for repair by replacement of damaged parts resulting from material or production faults occurring within the guarantee period after purchase. Please note that in some countries particular guarantee conditions may exist.

If you have any questions, please contact your salesman, who is responsible for the guarantee of the product. Please note that we cannot accept any responsibility for damage caused by: . . . . . Disregard of the instruction manual. Incorrect carburetor adjustment. Normal wear and tear. @@ Use of guide bars and chains which have not been approved. Use of force, improper use, misuse or accidents. Use of guide bar and chain lengths which have not been approved. @@@@ All repairs covered by the guarantee must be performed by a MAKITA service centre. Damages caused by disregarding loose outer bolted connections. Troubleshooting Malfunction Chain does not run Engine does not start or only with difficulty System Chain brake Ignition system Fuel supply Compression system Mechanical malfunction Warm start difficulties Engine starts, but dies immediately Carburetor Fuel supply Observation Engine runs Ignition spark No ignition spark Fuel tank is filled Inside Outside Starter does not engage Fuel tank is filled Ignition spark Fuel tank is filled Cause Chain brake actuated.

Malfunction in fuel supply system, compression system, mechanical malfunction. Switch on STOP, fault or short-circuit in the wiring, plug cap or spark plug defective. Choke in wrong position, carburetor defective, suction head dirty, fuel line bent or interrupted. Cylinder base packing ring defective, radial shaft packings defective, cylinder or piston rings defective Spark plug does not seal. Spring in starter broken, broken parts inside the engine.

Wrong carburetor adjustment. Wrong idling adjustment, suction head or carburetor dirty. Tank venting defective, fuel line interrupted, cable defective, combination switch defective. Air filter dirty, wrong carburetor adjustment, muffler clogged, exhaust channel in cylinder clogged. Oil tank empty.

Oil guide groove dirty. Insufficient power No chain lubrication 4 Several systems Engine is idling may be involved simultaneously Oil tank/pump No oil on the chain Extract from the spare parts list Use only original MAKITA parts. For repairs and replacement of other parts, see your MAKITA service center. DCS34 DCS4610 Pos. MAKITA-No. Qty. Denomination 3 3 4 5 6 7 8 9 0 44 035 66 58 09 65 44 040 66 58 09 656 95 00 630 95 00 640 036 3 65 93 08 004 94 79 3 963 60 380 965 603 0 036 73 0 00 4 06 Sprocket nose bar 35 cm (4") Saw chain 3/8" for 35 cm Sprocket nose bar 40 cm (6") Saw chain 3/8" for 40 cm Chain protection for 30-35 cm Chain protection for 40 cm Sprocket guard, cpl. Hexagonal nut M8 Universal wrench SW 9/3 Suction head Spark plug Airfilter Fuel-oil tank cap, cpl. 2 1 9 10 8 10 7 6 5 4 Accessories (not delivered with the chain saw) 16 17 18 4 5 16 17 8 9 - 953 00 090 953 004 00 953003090 953003060 953 030 00 944 340 00 980 008 607 980 008 606 980 008 60 980 008 6 949 000 035 1 1 Chain gauge File handle Roundfile, dia. 4.

0mm Flatfile File holder (with 4.0mm dia. roundfile) Carburetor screwdriver Two-stroke engine oil ( 1 ) Two-stroke engine oil (00 ml) BIOTOP chain oil ( 1 ) BIOTOP chain oil (5 l) Combined can (for 5 l fuel, .5 l chain oil) 15 14 19 5 6 EU Conformity Declaration DCS34 DCS4610 Type: 036/037 The undersigned, Tamiro Kishima and Rainer Bergfeld, as authorized by DOLMAR GmbH, declare that the MAKITA machines, EU prototype test certificate No. M6 08 01 24243 082 M6 08 01 24243 082 manufactured by DOLMAR GmbH, Jenfelder Str. 38, 045 Hamburg, Germany, conforms to the basic safety and health requirements of the applicable EU guidelines: EU Machine Directive 98/37/EG, Noise emission 000/4/EG.

EU EMC Directive 89/336/EEG (modified by 91/263/EEG, 92/31/EEG and 93/68/EEG), Starting on 9 Dec. 009, Directive 006/4/EG will come into force, replacing Directive 98/37/EG. This product meets the requirements of the new Directive. The most important standards applied to properly meet the requirements of the above EU Directive were: EN 68-, EN ISO 498, CISPR .

The conformity assessment procedure 000/4/EG was performed per Annex V. The measured sound power level (Lwa) is dB(A). The guaranteed sound power level (Ld) is dB(A). The EU Type-Examination was performed by: TÜV Product Service GmbH, Zertifizierungsstelle, Ridlerstraße 3, D-80339 München.

The technical documentation is on file at DOLMARGmbH, Jenfelder Strasse 38, Department FZ, 22045 Hamburg, Germany.

Hamburg, 0.. 008 For DOLMAR GmbH Tamiro Kishima Managing Director Rainer Bergfeld Managing Director 7 To find your local distributor, please visit [www.makita-outdoor.com](http://www.makita-outdoor.com) Makita Werkzeug GmbH Postfach 70 04 0 D-004 Hamburg Germany Specifications subject to change without notice Form: 995 707

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