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CR 8 CCD Hatz 1 D 81 Z



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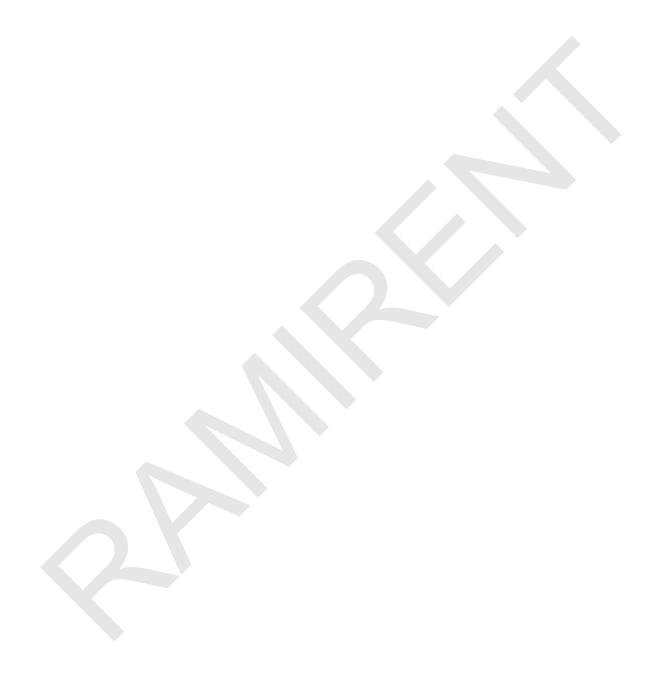


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Introduction

This operating and maintenance manual is designed to facilitate familiarization with your soil compactor, and to enable you to maintain the compactor and use it for its intended purpose. When complying with the instructions in the operating and maintenance manual you help avoid hazards, reduce repair and downtime costs, and increase the reliability and service life of your compactor.

This operating and maintenance manual must always be available at the implementation site of the soil compactor.

If necessary you can obtain additional information from your authorized WEBER dealer, or you can obtain information from one of the contact addresses on the last page.

You can obtain information on the assembled Hatz diesel engine at www.hatz-diesel.com

The valid conformity declaration is enclosed with every machine delivery.

Safety guidelines

General

All safety instructions must be read and complied with, non-compliance results in

- danger to life and limb of the user
- impairments to the machine or other property.

In addition to the operating manual, the accident-prevention regulations in the country where the appliance is used must be complied with.

Intended use

The soil compactor should only be used in technically faultless condition, as intended, in a safety-conscious and hazard-conscious manner, in compliance with the instructions in the operating manual. Malfunctions that impair safety must be eliminated without delay. The CR 8 CCD compactor is designed exclusively for compacting

- sand
- gravel
- crushed rock
- semi-cohesive mixed material
- concrete paving stone.

Any other use of the soil compactor is considered to be improper use for which the owner shall be exclusively responsible. All liability is rejected if damage occurs due to non-compliance with this provision. This risk is borne solely by the user.

Operation

Soil compactors should only be operated by suitable personnel of at least 18 years of age. Personnel must be instructed in how to guide the compactor by the owner or by the owner's assigned personnel.

The machine operator must comply with traffic regulations. If instructions that affect safety are given by third persons, then the operator must be authorized to reject these instructions.

Easily foreseeable misuse

Any use for which the machine is not intended.



Unauthorized persons are forbidden from being in the area of the soil compactor during the compacting process.

Protective equipment

This machine is capable of exceeding the permissible sound level of 80 dB(A). The owner might also face additional dangers when using the machine. Precautionary action must, therefore, be taken.

Protective equipment includes:



Hearing protection



Hard hat



Safety shoes



Protective gloves

Operation

Prior to starting work the owner of the compactor must be familiar with the work environment. The work environment includes obstacles in the work and traffic area, the bearing capacity of the ground, as well as the necessary safeguarding of the construction site in the area adjacent to public traffic; and it includes compliance with traffic regulations.

The soil compactor should only be operated when the protective fixtures are mounted.

The protective fixtures must all be in functional condition.

At least once per shift the compactor must be checked for apparent defects. If there are apparent defects then operation of the compactor must be stopped immediately and the responsible person must be informed. Prior to restarting, compactor malfunctions that have occurred must be corrected.

Always maintain adequate clearance to the edges of pits and embankments. Do not drive at ninety degrees to slopes to prevent the compactor from tipping over. After work has been concluded secure the compactor in accordance with statutory regulations, particularly in the area of public traffic surfaces.

Operation under difficult conditions



Never inhale the exhaust gas; it contains carbon monoxide, a colorless and odorless gas that is extremely hazardous, which if inhaled even briefly can cause unconsciousness and death.

Never operate the engine in enclosed areas or in areas that are poorly ventilated (tunnels, caves, etc.) Exercise particular caution when operating the engine in the vicinity of people and livestock.

Maintenance and repair work

Only use **original Weber spare parts** to ensure reliable and safe operation for maintenance or repair work.

Hydraulic hose lines must be checked at regular intervals in accordance with standard engineering practice, or they must be replaced at appropriate intervals, even if no signs of safety-relevant defects are present.

Adjusting tasks, maintenance tasks, and inspection tasks must be executed on schedule as specified in this operating and maintenance manual. These activities should only be executed by instructed personnel.

For repair, maintenance, or inspection work the engine of the compactor must be safeguarded against unintentional starting.

All pressurized lines, particularly hydraulic lines and lines of the injection system of the drive motor must be depressurized before performing maintenance or repair tasks.

For maintenance and repair tasks the compactor must be parked on a level and stable substrate and must be secured from rolling off or tipping over.

Heavy components and subassemblies must be secured on hoisting machines with adequate bearing capacity when they are replaced. Ensure that no hazard exists related to the raised components or subassemblies.

Do not position yourself or work under suspended loads.



If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.

Inspection

Compactors must be inspected in accordance with appropriate implementation conditions and operating conditions, as needed; however an inspection to ensure operationally safe status must be performed by an expert at least once a year. The results of the inspection must be recorded in writing and must be stored at least until the next inspection.

Cleaning work

Prior to cleaning the compactor with a high-pressure cleaner, protect all accessible energized switches, cable connections, etc. against water penetration by masking them off.

Cleaning tasks should only be executed in areas that are suitable and have been approved for this purpose (oil separator amongst others).

Disposal

All operating fluids and auxiliary materials must be disposed of in an environmentally-compatible manner in accordance with country-specific regulations.

Important information for operating and maintenance personnel is marked by pictograms.



Warning against irritants or materials hazardous to health



Warning against a hazardous place



Warning against a suspended load



Wear ear protection



General regulation



Environmental protection



Hard hat

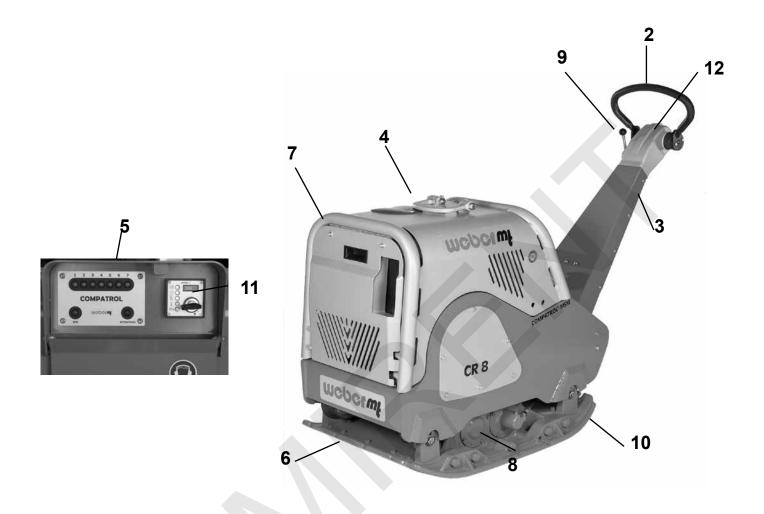


Safety shoes



Protective gloves

Graphic presentation



Overall view CR 8 CCD

- 1 Engine (no image)
- 2 Drive lever
- 3 Manual guidance rod
- 4 Lifting ring
- 5 COMPATROL®
- 6 Base plate
- 7 Protective frame
- 8 Exciter

- 9 Gas lever
- 10 Attachment plates
- 11 Ignition module
- 12 Hearing protection (sticker)



Device description

The CR 8 CCD compactor is used for road building and landscaping compaction tasks.

Drive

The compactor is propelled by an air-cooled Hatz diesel engine.

Force is transferred to the exciter mechanically via a V-belt.

Operation

Start the Hatz diesel engine via the electrical start device.

After starting, vibration is switched on via the centrifugal clutch attached to the engine. Use the gas lever to vary the engine speed between idle and full throttle.

Forward and reverse is variably controlled via the handle attached to the manual guidance rod.

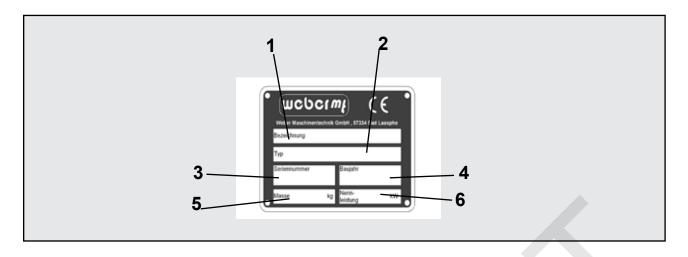
Function of the COMPATROL®

The ground compaction achieved is measured and visually displayed via LEDs on the COMPATROL® electronic combination instrument placed in the dashboard.

Technical data

	CR 8 CCD
Weight	
Operating weight CECE (in kg)	609
Dimensions	
Overall length (in mm)	1830
Width – basic device (in mm)	600
Width with attachment plates (in mm)	700/850
Height with folded manual guidance rod (in mm)	1160
Base plate length (base in mm)	450
Drive	
Engine manufacturer	Hatz
Туре	1D81Z
Performance at operating speed in accordance with ISO 3046-1 (kW)	9.7
Combustion process	4-stroke diesel
Operating speed (1/min)	2800
Operating speed (ground-dependent in m/min)	28
Incline capacity (ground-dependent in %)	30
Area capacity (in m²/h)	1176
Vibration	
System	Two-wave vibrator
Drive concept	mechanical
Frequency (in Hz)	70
Centrifugal force (in kN)	75

	CR 8 CCD
Noise emissions in accordance with 2000/14/EC	
Sound pressure level L _{PA} ascertained in accordance with EN 500, in dB (A)	97
Sound power level L_{WA} ascertained in accordance with EN ISO 3744 109 and EN 500, in dB (A)	
Vibration values	
Root-mean-square acceleration value for hand-arm vibration ascertained in accordance with EN 500 in m/s²	2.5/3.5
In accordance with directive 2006/42/EC, complying with the vibration values is the owner's responsibility.	



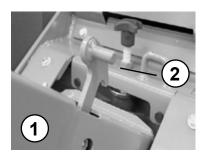
1 Description	2 TYPE
3 Serial number	4 Year of manufacture
5 Weight	6 Rated power kW

Activities prior to starting work Transport



When transporting the soil compactor on a vehicle, secure it with suitable restraints.

Arrest the manual guidance rod (1) with the spring bolt (2).



Fit the crane hook into the lifting ring (1) and lift the machine onto the desired means of transport.



Only use lifting machines with a minimum bearing capacity of 1000 kg.

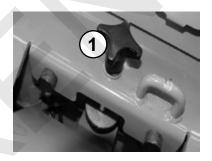


Do not step under suspended loads.



Adjusting the manual guidance rod

Adjust the desired work height of the manual guidance rod with the set screw (1).

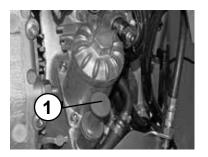


Checking the engine oil level

Open the maintenance cover (1).



Pull the oil dip stick (1) out of the crankcase.



The correct oil level is between the min. and max. marks.



Check the fuel level

Open the cover (1), remove the gas cap (2), check the fill level and, if necessary, top off with clean fuel to the lower edge of the filler neck in accordance with the specification.



For work at the fuel system, have a suitable fireextinguishing agent at the ready.



Fire, naked light, and smoking is forbidden!

Check the hydraulic fluid level

Check the hydraulic oil level when the machine is at operating temperature. The correct oil level is reached when the oil is in the middle of the view glass.



Mounting the attachment plates

Tighten the screws of the attachment plates with a torque of 425 Nm.



Installing the protective mat

Fasten the protective mat with holder, screws, spring-lock washers and nuts on the base plate front and rear.



Ensure that the protective mat rests under the base plate.

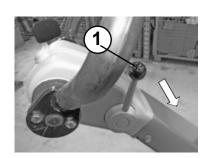


Starting

Open the vandalism flap (1).

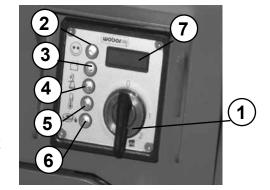


Bring the gas lever (1) into full-throttle position.



Insert the ignition key (1) and turn to position 1. Turn the ignition key (1) to position 2.

Start for a maximum of twenty seconds without interruption. If the engine does not start, repeat starting process after a minute. If the motor does not start after two start processes, seek cause in fault table.



The ignition key must bounce back to pos. 1 and remain in this position during operation. The charge level indicator (3) and the oil pressure indicator (4) must go out immediately after starting.

The indicator lamp (2) lights up, indicating that the engine is in operation.

The operating hours counter (7) will keep counting the operating hours as long as the ignition is switched on.

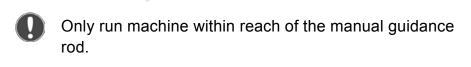
If the ignition key does not bounce back to pos. 1 – turn off the machine immediately – danger of starter damage due to the starter also running during operation.

Once the ignition is switched on, the Compatrol compaction system will perform a function test Compatrol® compaction system will perform a function test. All LEDs (1) light up.



Compacting

Control drive speed and direction of travel with the handle (1).





The green LED (1) will be illuminated as soon as operating frequency has been reached, the green LED indicates that the COMPATROL® compaction measurement system is ready for operation.



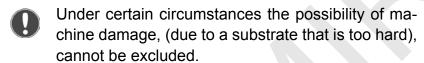
During the compaction work compaction is continuously measured and displayed visually via the yellow LEDs 1-7 (1). Maximum possible compaction is reached as soon as there is no noticeable increase in the illuminated LEDs.



If all LEDs (1) are illuminated then compaction must be stopped immediately.

Maximum compaction is achieved.

It is possible to loosen the material that will be compacted.



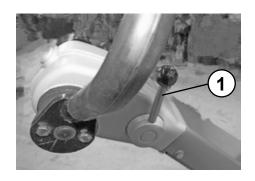


If the red and green LEDs (1/2) are illuminated, then the material cannot be compacted. The substrate should be replaced with material that can be compacted.



Shutting down

Push back gas lever (1) and let engine run idle for a few minutes.



Turn the ignition key (1) from position "1" to position "0". Pull out the ignition key.



Close the vandalism flap (1) and lock with a padlock.

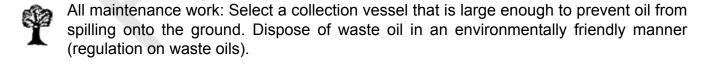
- During breaks even if they are short the machine must be shut down.
- Parked devices that represent an obstacle must be safeguarded against through conspicuous measures.



Maintenance overview

Maintenance interval	Maintenance point	Maintenance activity
	Engine	Changing the engine oil
After the first 25 operating hours		Re-tighten all accessible threaded connections
Every 8 operating hours/daily	Air filter	Clean air filter insert, check for damage, replace if necessary
Every 150 operating hours/every 6 months Battery	Engine	- Changing the engine oil
		- Change the fuel filter
		- Change oil filter
	Battery	- Check acid level, fill up with distilled water if necessary
Every 150 operating hours/every year	Transmission	- Change oil
	Exciter	– Change oil

- The regulations of the engine manufacturer must be complied with in addition to the above maintenance overview!
- Work must be carried out using regulation tools and the operating and maintenance manual must be complied with for all work.



- Dispose of oils, greases, cloths soaked in oil, and replaced parts with oil on them in an environmentally friendly manner.
- If lubricating oils and fuel come into contact with skin, they can cause skin cancer.

 Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.
 - If accessible during maintenance, check the condition and stability of all screws.

Maintenance work

Changing the engine oil

Remove V-belt guard (1) and open the maintenance cover (2).





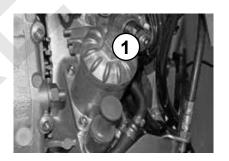
Open the screw cap (1) of the oil filler neck.



Only drain engine oil when at operating temperature.

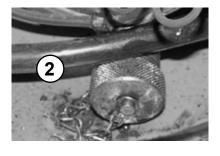


When working in the area of the engine compartment there is a danger of being burnt!



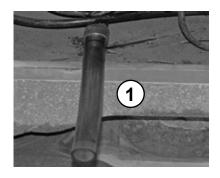
Screw the oil drain pipe (1) onto the engine drain valve (2) and drain off the oil.

After emptying completely, unscrew the oil drain pipe from the drain valve and screw the cover cap back onto the drain valve. Fill with oil in accordance with the specification.





Danger of scalding due to hot oil.



Changing the engine oil filter

Open the maintenance cover (1).

Completely drain the engine oil as previously described. Remove the cover cap (1).

Replace oil filter (2) with a new element.

After replacing the filter element seal the filter enclosure with the cover cap (1).



When working in the area of the engine compartment there is a danger of being burnt!



Danger of scalding due to hot oil.



Pay attention to the "TOP" marking on the oil filter!

Change the fuel filter

Pull the fuel line (2) off the fuel filter (1) on both sides. Replace the filter with a new filter element.



Unscrew the air filter cover (1).



If lubricating oils and fuel come into contact with skin, they can cause skin cancer. Upon contact with the skin, clean affected skin with suitable cleaning agent without delay.

Remove the air filter insert (1) from the air filter enclosure. Clean air filter insert as specified by the engine manufacturer if there is damage or if it is extremely dirty.



Select a collection vessel that is large enough to prevent oil from spilling on the ground. Dispose of waste oil in an environmentally friendly manner (regulation on waste oils).



Wipe up/off oil slick and oil residue and dispose of fuel-soaked cleaning cloths in an environmentally responsible manner.

Checking the battery/acid level

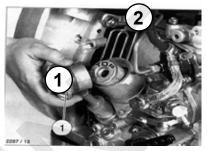


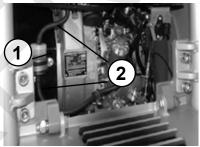
Battery acid is extremely caustic. Protect hands and eyes with suitable protective goggles and gloves.

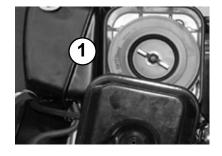
Remove the cover cap (1).

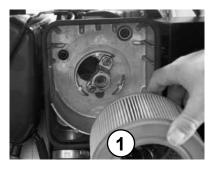
Check acid level. If insufficient, fill to max. mark with distilled water.













Changing the oil in the exciter

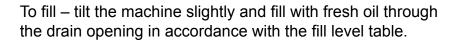
Remove the oil drain screw (1) and drain oil.

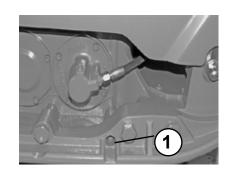


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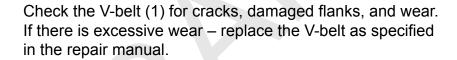
Changing the fuse

Remove the protective cap (1) of the fuse holder. Insert a new fuse with rated value of 20 Amp.

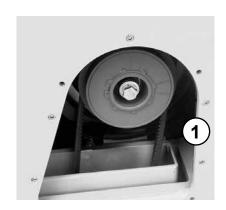


Checking the V-belt

Remove the V-belt guard (1).







Operating fluids and fill levels

Assembly	Operating material	Quantity
	Summer Winter	CR 8 CCD
	Quality	
Engine		
Engine oil	SAE 10 W 40	1.9 L
	(-10 ~ +50 °C)	
	API - CD CE-CF-CG	
	or SHPD	
	or CCMC - D4 - D5 - PD2	
	Diesel	10.0 L
	Diesel in accordance with	
	DIN 51601-DK	
Fuel tank	or BS2869-A1/A2	
	or STM D975-1D/2D	
	Fully-synthetic transmission fluid	
	API GL-5/GL-4	
Vibrator	First filling Fuchs Titan SINTOPOID	1.25 L
	LS SAE 75 W-90	
Transmission	Transmission fluid DEXRON II-D-ATF	
	First filling	As necessary
	Fuchs Titan ATF 3000	_
	or equivalent	
Lubricating points	High-pressure grease (saponified with lithium)	As necessary
	in accordance with	
	DIN 51825 - KPF2	
Battery	Distilled water	As necessary

Troubleshooting

Fault	Possible cause	Remedy
Soil compactor does not start	Operating error	Execute start process as prescribed
	Lack of fuel Fuel filter fouled	Check the fuel level Change the fuel filter
	Air filter fouled	Clean / change air filter cartridge
	Battery defective/ discharged; fuse defective	Remove/charge battery; replace fuse
No vibration/no forward motion or insufficient forward motion	Vibrator V-belt defective	Change vibrator V-belt
Unit switches with a delay	Air trapped in the hydraulic transmission system	Bleed the transmission system

Action to be take before long-term storage (longer than a month)

	- Clean thoroughly
Entire soil compactor	Check watertight
	If there are leaks, correct defects
Fuel tank	- Empty fuel and fill with clean fuel up to the lower edge of filler neck
	Check oil level, if necessary fill to upper oil-level mark
Engine	Check air filter, clean, replace if necessary
	Check fuel filter, change if necessary
All bare parts/accelerator/accelerator control cable/fastening bolts	- Oil/grease
	- Remove battery
Starter battery (if there is one)	Check acid level; if it is too low, fill with distilled water up to max. mark of the battery
	Store above freezing in a storage room
	 Attach permanent charger

If the machine is to be stored for longer than six months, then contact the Weber service organization to discuss additional measures.

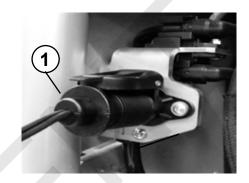
Charging the starter battery in the machine with the permanent charger

Open protective cover (1) of the charging socket.



Insert plug (1) into the charging socket.

Connect the battery charger to the mains.



Comply with the device manufacturer's operating manual for use of the battery charger. The operating manual of the charger is enclosed in the packaging of the battery charger. The battery charger BA 200 can be purchased using order no. 021000603.







Weber Maschinentechnik GmbH

For problems, questions and further information refer to one of the following addresses:			
		1	
in Germany	WEBER Maschinentechnik GmbH Im Boden 5 – 8, 10 57329 Bad Laasphe - Rückershausen	Telefon Telefax	+ 49 (0) 2754 - 398-0 + 49 (0) 2754 - 398101-switchboard + 49 (0) 2754 - 398102- spare parts- directlinie
		E-Mail	g.voelkel@webermt.de
in France	WEBER Technologie SARL 14' rue d' Arsonval 69680 Chassieu	Telefon Telefax	+ 33 (0) 472 -791020 + 33 (0) 472 – 791021
	00000 011400100	E-Mail	france@webermt.com
in Poland	WEBER Maschinentechnik Sp. zo.o. UI. Grodziska 7 05-830 Stara Wies	Telefon Telefax E-Mail	+ 48 (0) 22 - 739 70 - 80 + 48 (0) 22 - 739 70 - 81 + 48 (0) 22 - 739 70 - 82 info@webermt.com.pl
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in USA and Canada	WEBER MT, Inc. 45 Dowd Road Bangor, ME 04401	Telefon Telefax E-Mail	+ 1(207) - 947 - 4990 + 1(207) - 947 - 5452 sales@webermt.us service@webermt.us
in South - America	WEBER Maschinentechnik do Brasil Rua João Werno Erhart, 4691 Bairro Rincão 93310-405 Novo Hamburgo /RS Brasil	Telefon Telefax E-Mail	+ 55 (0) 51- 587 3044 + 55 (0) 51- 587 2271 webermt.@webermt.com.br

- > Vibration plates
 - > Vibrating tampers
 - > Vibration rollers
 - > Joint cutters
 - > Internal vibrators and converters
 - > Rollers



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