

Repair Handling

Wearing Parts

The warranty/guarantee comprises all production and material faults. Worn out & expendable parts are excluded from the warranty. Wearing & expendable parts are e.g. ball bearings, o-rings, water sealing, balls of the pressure piece, counter bearings, carrier, and filter bags.

Maintenance

To increase the operational safety of your unit, an annual maintenance should be carried out by a specialist. Important wearing parts have to be exchanged by then. Hadewe or our authorized service partners in other countries usually have packages prices for the maintenance of the various kinds of drills. For normal use of the drill, we recommend an annual maintenance. For higher workloads or constant use through multiple operators, we even recommend additional maintenance intervals.

Prevent Errors

Please note the following instructions to avoid faulty operation and to maintain your warranty validit:

Incorrect Operation	Consequential Damage
Use of inappropriate spray liquids	Magnetic valves do not open or close properly; the spray nozzle is clogged.
Change of the white washer was not accomplished in time (every 4 weeks latest)	Water is entering in the handpiece and damages the ball bearings, motor and interior parts.
Long operation (3 minutes) of the unit while the chuck has been opened (knob pushed up)	Overheating and damage to the motor and bearings.
Using wet burs or instruments	Moisture ingresses into the handpiece and will destroy the bearings and/or clamping system.
Using of bent burs or instruments	To work with bent tools can cause strong vibrations of the handpiece. A damage of the bearings, clamping system and motor may occur.
Working without filter bag or with a damaged filter bag	If dusty unfiltered air is sucked into the unit over a longer period of time, then the suction motor can be damaged. An extensive cleaning will be necessary through the repair service.
Shipping the device with a full dust bag.	The dust filter may dissolve and will contaminate the unit. An extensive cleaning will be necessary through the repair service.
Shipping the unit with insufficient packaging.	When shipping the unit, please assure that the unit is wrapped sufficiently. Otherwise, additional damage during transit might be the result. Such damage is also not covered by the warranty.

Which Common Errors Can Be Fixed By Me?

Error	Cause → Corrective Action
Handpiece is noisy or vibrates	Using bent instruments → changing the bur (It can be checked if the shaft of an instrument is bent or not with the hadewe gauge (Art. No. 4990). Maximum allowed speed of the bur has been exceeded, resulting in higher vibration → Pay attention to the recommended speed by the manufacturer
Bur/instrument can hardly be inserted or the knob/ slider from the handpiece is not easy to operate	Using bent instruments → changing the bur (It can be checked if the shaft of an instrument is bent or not with the hadewe gauge (Art. No. 4990). Chuck is clogged → Cleaning of the chuck according to the instructions in the manual (only for handpieces without an automatic clamping system).
Suction is too noisy	Unsuitable surfaces can increase the sound of the unit unnecessarily. → Advice: Use substrates/underground without a resonance body. If necessary, place a sound absorbing mat under the device.
Motor of the handpiece stutters briefly (approx. 1 second) while turning on the unit or changing the direction of rotation	This effect can occur in rare cases, but does not harm the device.

Your help is required!

Often only an exact description of the fault allows for the correction of the defects.


Please use the following document whenever you have to send the unit to hadewe or one of our service points.

Customer

Name: _____
Address: _____
Phone Number: _____
Email Address: _____

Device

Article / Type Number: _____
Name of the Device: _____
Serial Number (SN): _____

Article Number	Name of Device	SN
0583	Hyperios3	0583 12 1344
PRI: 240V, 50Hz, 120W ~		
n = 7000 - 40000 1/min		
PRI: 2x 0,5A träge		
2012  CE 0482		
hadewe - Grambartstr. 10 - 30165 Hannover Germany		

Error description

Permanent Error

Infrequent Error

Control Unit:

- | | | |
|---------------------------------|--------------------------|--------------------------|
| Display of speed faulty | <input type="checkbox"/> | <input type="checkbox"/> |
| Display of suction level faulty | <input type="checkbox"/> | <input type="checkbox"/> |
| Error message on the display | <input type="checkbox"/> | <input type="checkbox"/> |
| Speed is not adjustable | <input type="checkbox"/> | <input type="checkbox"/> |
| Switch is broken | <input type="checkbox"/> | <input type="checkbox"/> |
| Foot switch does not work | <input type="checkbox"/> | <input type="checkbox"/> |

Suction- and Combi- Units:

- | | | |
|--------------------------------------|--------------------------|--------------------------|
| Suction output very low | <input type="checkbox"/> | <input type="checkbox"/> |
| No suction at all | <input type="checkbox"/> | <input type="checkbox"/> |
| Suction output cannot be adjusted | <input type="checkbox"/> | <input type="checkbox"/> |
| Abnormal noises of the suction motor | <input type="checkbox"/> | <input type="checkbox"/> |

Spray and Combi - Units:

- | | | |
|-------------------------------------|--------------------------|--------------------------|
| Sometimes no spray/ no spray at all | <input type="checkbox"/> | <input type="checkbox"/> |
| Dripping spray/ bad spray pattern | <input type="checkbox"/> | <input type="checkbox"/> |
| Compressor is not running | <input type="checkbox"/> | <input type="checkbox"/> |
| Compressor makes abnormal noises | <input type="checkbox"/> | <input type="checkbox"/> |
| Water runs out of the unit | <input type="checkbox"/> | <input type="checkbox"/> |

Handpiece:

- | | | |
|---|--------------------------|--------------------------|
| Intermitting handpiece/ loose connection | <input type="checkbox"/> | <input type="checkbox"/> |
| Handpiece vibrates/ runs not smoothly | <input type="checkbox"/> | <input type="checkbox"/> |
| Handpiece becomes hot | <input type="checkbox"/> | <input type="checkbox"/> |
| Cannot clamp the bur/ instrument | <input type="checkbox"/> | <input type="checkbox"/> |
| Bur/ instrument cannot be inserted easily or not at all | <input type="checkbox"/> | <input type="checkbox"/> |
| Speed varies | <input type="checkbox"/> | <input type="checkbox"/> |
| Liquid runs out of handpiece | <input type="checkbox"/> | <input type="checkbox"/> |
| Unknown noises | <input type="checkbox"/> | <input type="checkbox"/> |

Comments and/or additional description:

Place, Date: _____

Signature: _____