X-ENP

Base material thickness (mm)

<table>
<thead>
<tr>
<th>Base material thickness (mm)</th>
<th>Standard steel</th>
<th>High-strength steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
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<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

X-ENP

Standard steel
S 235, S275
E 36, ST 37,
340-470 N/mm²

High-strength steel
S 355, S275
E 42, ST 52,
490-630 N/mm²
ORIGINAL OPERATING INSTRUCTIONS

DX 76 powder-actuated fastening tool

It is essential that the operating instructions are read before the tool is operated for the first time.

Always keep these operating instructions together with the tool.

Ensure that the operating instructions are with the tool when it is given to other persons.

Contents

1 Safety instructions 1
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NOTE
All Hilti cartridges for powder-actuated tools have been tested successfully in accordance with EN 16264. The tests defined in the EN 16264 standard are system tests carried out by the certification authority using specific combinations of cartridges and tools. The tool designation, the name of the certification authority and the system test number are printed on the cartridge packaging.

Please refer to the packaging example at: www.hilti.com/dx-cartridges

1 Safety instructions

1.1 Basic information concerning safety

In addition to the information relevant to safety given in each of the sections of these operating instructions, the following points must be strictly observed at all times.

1.1.1 Using cartridges

Use only Hilti cartridges or cartridges of equivalent quality.

Use of cartridges of inferior quality in Hilti tools may lead to a build-up of unburned powder, which may explode and cause severe injuries to operators and bystanders. Cartridges must fulfill one of the following minimum requirements:

a) The applicable manufacturer must be able to verify successful testing in accordance with the EU standard EN 16264 or b) The cartridges must bear the CE conformity mark (mandatory in the EU as of July 2013).

NOTE

These numbers refer to the corresponding illustrations. The illustrations can be found on the fold-out cover pages. Keep these pages open while studying the operating instructions.

Parts and operating controls

DX 76 tool

1. MX 76 nail magazine
2. Contact pin
3. Protective cap
4. Cycling grip
5. Cartridge strip guideway
6. Loading status control window
7. Power regulation wheel
8. Power regulation indicator
9. Padded end cap
10. Tool casing
11. Grip pad
12. Trigger
13. Piston guide release lever
14. Sliding sleeve
15. Magazine body
16. Fastener magazine spall guard
17. Fastener stop
18. Ventilation slots
19. X-76-F-15 fastener guide
20. Tool spall guard

Wearing parts

1. Piston
2. Piston stopper
b) Avoid unfavorable body positions. Make sure you work from a safe stance and stay in balance at all times.

c) Never point the tool toward yourself or other persons.

d) Never press the nosepiece of the tool against your hand or against any other part of your body (or other person’s hand or part of their body).

e) Keep other persons, especially children, away from the area in which the work is being carried out.

f) Keep the arms slightly bent while operating the tool (do not straighten the arms).

1.1.3 Use and care of powder-actuated fastening tools

a) Use the right tool for the job. Do not use the tool for purposes for which it was not intended. Use it only as directed and when in faultless condition.

b) Press the tool against the working surface at right angles.

c) Never leave a loaded tool unattended.

d) Always unload the tool (remove cartridges and fasteners) before cleaning, before maintenance, before work breaks and before storing the tool.

e) When not in use, tools must be unloaded and stored in a dry place, locked up or out of reach of children.

f) Check the tool and its accessories for any damage. Guards, safety devices and any slightly worn parts must be checked carefully to ensure that they function faultlessly and as intended. Check that moving parts function correctly without sticking and that no parts are damaged. All parts must be fitted correctly and fulfill all conditions necessary for correct operation of the tool. Damaged guards, safety devices and other parts must be repaired or replaced properly at a Hilti service center unless otherwise indicated in the operating instructions.

g) Pull the trigger only when the tool is fully pressed against the working surface at right angles.

h) Always hold the tool securely and at right angles to the working surface when driving in fasteners. This will help to prevent fasteners being deflected by the working surface.

i) Never redrive a fastener. This may cause the fastener to break and the tool may jam.

j) Never drive fasteners into existing holes unless this is recommended by Hilti.

k) Always observe the application guidelines.

l) Use the spall guard when the application permits.

m) Never pull the magazine or fastener guide back by hand as this could, under certain circumstances, make the tool ready to fire. This could cause a fastener to be driven into a part of the body.

1.1.4 Work area safety

a) Ensure that the workplace is well lit.

b) Operate the tool only in well-ventilated working areas.

c) Do not attempt to drive fasteners into unsuitable materials: Materials that are too hard, e.g. welded steel and cast iron. Materials that are too soft, e.g. wood and drywall panel (gypsum board). Materials that are too brittle, e.g. glass and ceramic tiles. Driving a fastener into these materials may cause the fastener to break, shatter or to be driven right through.

d) Never attempt to drive fasteners into materials such as glass, marble, plastic, bronze, brass, copper, rock, insulation material, hollow brick, ceramic brick, thin sheet metal (< 3 mm), cast iron or cellular concrete.

e) Before driving fasteners, check that no one is present immediately behind or below the working surface.

f) Keep the workplace tidy. Objects which could cause injury should be removed from the working area. Untidiness at the workplace can lead to accidents.

g) Keep the grips dry, clean and free from oil and grease.

h) Wear non-skid shoes.

i) Take the influences of the surrounding area into account. Do not expose the tool to rain or snow and do not use it in damp or wet conditions. Do not use the tool where there is a risk of fire or explosion.

1.1.5 Mechanical safety precautions

a) Select the correct fastener guide and fastener combination for the job on hand. Failure to use the correct combination of these items may result in injury or cause damage to the tool and/or lead to unsatisfactory fastening quality.

b) Use only fasteners of a type approved for use with the tool.

C) Never fill the magazine with fasteners unless it is correctly installed onto the tool. The fasteners could be ejected uncontrollably.

d) Never use a worn or damaged piston stopper and do not tamper with or modify the piston.
1.1.6 Thermal safety precautions

a) If the tool has overheated, allow it to cool down. Do not exceed the recommended fastener driving rate.
b) Always wear gloves if the tool has to be dismantled for cleaning or maintenance before it has been allowed to cool down.
c) The tool must be allowed to cool down if the plastic cartridge strip begins to melt.

1.1.7 Danger of explosion

a) Use only cartridges of a type approved for use with the tool.

b) Remove the cartridge strip from the tool carefully.
c) Do not attempt to forcibly remove cartridges from the magazine strip or tool.
d) Unused cartridges must be stored in a dry, high place, locked up or out of reach of children.

1.1.8 Personal protective equipment

The user and any other persons in the vicinity must wear suitable eye protection, a hard hat and ear protection while the tool is in use or when remedying a problem with the tool.

2 General information

2.1 Safety notices and their meaning

DANGER
Draws attention to imminent danger that will lead to serious bodily injury or fatality.

WARNING
Draws attention to a potentially dangerous situation that could lead to serious personal injury or fatality.

CAUTION
Draws attention to a potentially dangerous situation that could lead to slight personal injury or damage to the equipment or other property.

NOTE
Draws attention to an instruction or other useful information.

2.2 Explanation of the pictograms and other information

Warning signs

Obligation signs

Warning: explosive substances

Warning: hot surface

Wear eye protection

Wear a hard hat

Wear ear protection

Wear protective gloves

Read the operating instructions before use.

Location of identification data on the tool

The type designation and serial number can be found on the type identification plate on the tool. Make a note of this data in your operating instructions and always refer to it when making an enquiry to your Hilti representative or service department.

Type:

Generation: 01

Serial no.: 
3 Description

3.1 Use of the product as directed
The tool is intended for use in the construction industry and associated trades for driving fasteners into steel. The tool is for hand-held use only. Modification of the tool is not permissible. 
To avoid the risk of injury use only genuine Hilti fasteners, cartridges, accessories and spare parts or those of equivalent quality. 
Observe the information printed in the operating instructions concerning operation, care and maintenance. The tool and its ancillary equipment may present hazards when used incorrectly by untrained personnel or when used not as directed. The tool may be operated, serviced and repaired only by trained personnel. This personnel must be informed of any special hazards that may be encountered. As with all powder-actuated fastening tools, the tool, magazine, cartridges and fasteners form a technical unit. This means that trouble-free fastening with this system can be assured only if the Hilti fasteners and cartridges specially manufactured for it, or products of equivalent quality, are used. The fastening and application recommendations given by Hilti apply only when these conditions are observed. The tool features a 5-way safety system for the safety of the user and all bystanders.

3.2 Piston principle with piston brake
The energy from the propellant charge is transferred to a piston, the accelerated mass of which drives the nail into the base material. Due to use of this piston principle, the tool is classified as a “low velocity tool”. Approximately 95% of kinetic energy is taken up by the piston when the tool is fired. As the piston is always stopped by the tool as it reaches the end of its travel, excess energy is absorbed by the tool. Accordingly, when the tool is used correctly, dangerous through-shots (i.e. with a nail muzzle velocity of over 100 m/s) are virtually impossible.

3.3 Drop-firing safety device
The drop-firing safety device is the result of coupling the firing mechanism with the cocking movement. This prevents the tool from firing when dropped onto a hard surface, no matter at which angle the impact occurs.

3.4 Trigger safety device
The trigger safety device prevents the tool firing when only the trigger is pulled. The tool must be pressed against a firm surface before a fastener can be released.

3.5 Contact pressure safety device
The tool can be fired only when pressed fully against a firm surface with a force of at least 50 N.

3.6 Unintentional firing safety device
The tool is also equipped with an unintentional firing safety device. This prevents the tool from firing if the trigger is first pulled and the tool then pressed against the work surface. The tool can be fired only when it is first pressed correctly against the work surface and the trigger subsequently pulled.

3.7 DX 76 tool: applications and suitable fasteners

| Fastening profile metal sheet to steel, steel thickness 6 mm up to solid steel |
|-------------------|-------------------|-------------------|
| Items required    | Ordering designation | Comments          |
| Fasteners         | X-ENP-19 L15 MX    | 10 fasteners per magazine strip |
| Fastener magazine | MX 76              |                     |
| Piston set        | X-76-F-ENP         |                     |

<table>
<thead>
<tr>
<th>Items required</th>
<th>Ordering designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td>X-ENP-19 L15</td>
<td>Single fastener</td>
</tr>
<tr>
<td>Single fastener guide</td>
<td>X-76-F-15</td>
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**Fastening profile metal sheet to steel, steel thickness 3 to 6 mm**

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<th>Comments</th>
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<tbody>
<tr>
<td>Fasteners</td>
<td>ENP2K-20 L15 MX</td>
<td>10 fasteners per magazine strip</td>
</tr>
<tr>
<td>Fastener magazine</td>
<td>MX 76</td>
<td></td>
</tr>
<tr>
<td>Platon</td>
<td>X-76-P-ENP2K</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Items required</th>
<th>Ordering designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td>ENP2K-20 L15</td>
<td></td>
</tr>
<tr>
<td>Single fastener guide</td>
<td>X-76-F-15-P</td>
<td></td>
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</tbody>
</table>

**Fastening shear connectors**

<table>
<thead>
<tr>
<th>Items required</th>
<th>Ordering designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td>X-ENP-21 HVB</td>
<td>2 fasteners per shear connector</td>
</tr>
<tr>
<td>Shear connector</td>
<td>X-HVB 50/ 80/ 95/ 110/ 125/ 140</td>
<td></td>
</tr>
<tr>
<td>Fastener guide</td>
<td>X-76-F-HVB</td>
<td></td>
</tr>
<tr>
<td>Platon</td>
<td>X-76-P-HVB</td>
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</table>

**Fastening profile metal sheeting to concrete (DX-Kwik)**

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<th>Ordering designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td>NPH2-42 L15</td>
<td></td>
</tr>
<tr>
<td>Fastener guide</td>
<td>X-76-F-Kwik</td>
<td></td>
</tr>
<tr>
<td>Piston</td>
<td>X-76-P-Kwik</td>
<td></td>
</tr>
<tr>
<td>Stop drill bit</td>
<td>TX-C 5/23</td>
<td>Stop drill bit for predrilling</td>
</tr>
</tbody>
</table>

**Grating fasteners (10mm diameter)**

<table>
<thead>
<tr>
<th>Items required</th>
<th>Ordering designation</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastener guide</td>
<td>X-76-F-10</td>
<td></td>
</tr>
<tr>
<td>Piston</td>
<td>X-76-P-GH</td>
<td></td>
</tr>
<tr>
<td>Ramrod</td>
<td>Ramrod</td>
<td>Used to push the fastener back</td>
</tr>
<tr>
<td>Centering device</td>
<td>Centering device 25</td>
<td>For the X-76-F-10 fastener guide</td>
</tr>
<tr>
<td>Centering device</td>
<td>Centering device 30</td>
<td>For the X-76-F-10 fastener guide</td>
</tr>
</tbody>
</table>

**Fastener (10 mm diameter) for various fastening applications on steel and concrete**

<table>
<thead>
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<th>Items required</th>
<th>Ordering designation</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Fasteners</td>
<td>DS 27-37, DSH 57 P10</td>
<td>Nails for fastening wood battens to concrete and steel (62 mm or longer must be pre-driven)</td>
</tr>
<tr>
<td>Fasteners</td>
<td>EDS 19-27 P10</td>
<td>Nail for fastening wood battens to steel</td>
</tr>
<tr>
<td>Fasteners</td>
<td>EW10-30 P10 X-EW10-27 P10, X-EM10-24 P10</td>
<td>10 mm studs for use on steel</td>
</tr>
<tr>
<td>Fastener guide</td>
<td>X-76-F-10</td>
<td></td>
</tr>
<tr>
<td>Items required</td>
<td>Ordering designation</td>
<td>Comments</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>----------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Piston X-76-P-10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 4 Accessories, consumables

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item number, description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hilti toolbox DX 76 RD, large, with lockable cartridge compartment</td>
<td>DX 76 MX</td>
</tr>
<tr>
<td>Toolbox for magazine tool</td>
<td></td>
</tr>
<tr>
<td>Cleaning set</td>
<td>DX 76 / 860-ENP, Flat brush, 25 mm dia, round brush, 8 mm dia, round brush, pusher rod, cleaning cloth</td>
</tr>
<tr>
<td>Hilti spray</td>
<td></td>
</tr>
<tr>
<td>Piston and piston stopper set</td>
<td>X-76-PS</td>
</tr>
<tr>
<td>Spall guard for magazine and single fastener guides</td>
<td></td>
</tr>
<tr>
<td>DX 76 test gauge</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cartridge type</th>
<th>Ordering designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnum (USA)</td>
<td>6.8/18 M black (purple)</td>
</tr>
<tr>
<td>Extra heavy</td>
<td>6.8/18 M black</td>
</tr>
<tr>
<td>Very heavy</td>
<td>6.8/18 M red</td>
</tr>
<tr>
<td>Heavy</td>
<td>6.8/18 M red</td>
</tr>
<tr>
<td>Light</td>
<td>6.8/18 M red</td>
</tr>
</tbody>
</table>

### 5 Technical data

Right of technical changes reserved.

**NOTE**

*for trouble-free operation.

<table>
<thead>
<tr>
<th>Tool</th>
<th>DX 76 MX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight with magazine</td>
<td>4.35 kg</td>
</tr>
<tr>
<td>Dimensions (L × W × H)</td>
<td>450 mm × 101 mm × 352 mm</td>
</tr>
<tr>
<td>Magazine capacity</td>
<td>10 fasteners</td>
</tr>
<tr>
<td>Contact movement</td>
<td>32 mm</td>
</tr>
<tr>
<td>Contact pressure</td>
<td>190...240 N</td>
</tr>
<tr>
<td>Ambient operating temperature range</td>
<td>-15...+50°C</td>
</tr>
<tr>
<td>Maximum average fastener driving frequency</td>
<td>600/h</td>
</tr>
</tbody>
</table>
6 Before use

NOTE
Read the operating instructions before the tool is operated for the first time.

6.1 Check the tool

Check that no cartridge strip is loaded in the tool. If a cartridge strip is present in the tool, use the cycling grip to cycle the tool several times until the cartridge strip projects from the tool at the cartridge strip exit and it can be pulled out and removed from the tool.

Check all external parts of the tool for damage and check that all controls operate faultlessly. Do not operate the tool when parts are damaged or when the controls do not function correctly. If necessary, have the tool repaired at an authorized Hilti service center.

Check the piston and piston stopper for wear and ensure that the parts have been fitted correctly.

7 Operation

NOTE
When you grip the tool with your other hand, care must be taken to ensure that this hand does not cover any ventilation slots or openings.

WARNING
The material may splinter or fragments of the magazine strip may fly off when the fastener is driven. The user of the tool and all persons in the vicinity must wear eye protection and a hard hat. Splintering material presents a risk of injury to the eyes and body.

CAUTION
The fastener driving action is initiated by ignition of a propellant charge. The user of the tool and other persons in the immediate vicinity must wear ear protectors. Exposure to noise can cause hearing loss.

WARNING
Never make the tool ready to fire by pressing it against a part of the body (e.g. the hand). This could cause a nail or the piston to be driven into a part of the body. Never press the tool against a part of the body.

CAUTION
Never redrive a fastener. This may cause the fastener to break and the tool may jam.

CAUTION
Never drive fasteners into existing holes unless this is recommended by Hilti.

NOTE
For detailed information, please ask your local Hilti representative for a copy of the applicable technical guidelines or national technical regulations.

7.1 Operation

Fastening guidelines: These guidelines must be observed at all times.

NOTE
For detailed information, please ask your local Hilti representative for a copy of the applicable technical guidelines or national technical regulations.

7.2 Procedure if a cartridge fails to fire

If a cartridge fails to fire or misfires, always proceed as follows:

- Keep the nose of the tool pressed at right angles against the working surface for 30 seconds.
- If the cartridge still fails to fire, lift the tool away from the working surface, taking care to avoid pointing it at yourself or other persons.
- Load the next cartridge on the strip by cycling the tool. Use up the remaining cartridges on the strip and remove the used cartridge strip from the tool. The (partly) used cartridge strip must then be disposed of suitably in order to prevent further use or misuse of any unfired cartridges.

7.2.1 Loading fastener strips in the magazine

Push the fastener strip into the magazine from above until the washer of the final fastener engages in the magazine.

7.2.2 Selecting the cartridge

1. Determine the thickness of the material to be fastened and the grade of the supporting steel.
2. Select a suitable cartridge and power setting according to the cartridge recommendations.

NOTE
For details of recommended cartridges, please refer to the applicable approvals or the Hilti Fastening Technology Manual.
7.2.3 Inserting the cartridge strip
Push the cartridge strip into the cartridge strip guideway on the side of the tool, as far as it will go.

7.2.4 Driving fasteners with the magazine tool
1. Press the tool against the working surface at right angles.
2. Drive the fastener by pulling the trigger.
3. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.2.5 Checking and adjusting fastener driving depth
NOTE
Fastener driving depth can be adjusted by turning the power regulation wheel on the tool (setting 1 = minimum; setting 4 = maximum).

1. Use the test gauge to check nail stand-off.
2. If a fastener is not driven deeply enough, driving power must be increased. Adjust the power regulation wheel to the next higher setting. If a fastener is driven too deeply, driving power must be reduced. Adjust the power regulation wheel to the next lower setting.
3. Drive a fastener.
4. Use the test gauge to check nail stand-off.
5. If the fastener is still not driven deeply enough or, respectively, is driven too deeply, steps 2 to 4 must be repeated until the correct depth is achieved. If necessary, use a cartridge with a higher or lower power rating.

7.3 Unloading the tool
7.3.1 Removing cartridges from the tool
WARNING
Do not attempt to forcibly remove cartridges from the magazine strip or tool.

1. Advance the cartridge strip through the tool by moving the cycling grip until the strip is visible at the exit aperture.
2. Pull the cartridge strip out of the tool at the cartridge strip exit aperture.

7.3.2 Removing fastener strips from the tool
WARNING
Check that no cartridge strip is loaded in the tool. If a cartridge strip is still present in the tool, operate the cycling grip until the strip projects from the tool and then pull the strip out of the cartridge strip exit by hand and remove it from the tool.

CAUTION
The fastener strip will be ejected by spring pressure.

1. Push the fastener strip 5 mm further into the magazine and hold it securely in this position.
2. Push the catch forward with the thumb and hold it in this position.
3. Remove the fastener strip from the magazine.

7.4 Changing the nail magazine or fastener guide (accessory)
7.4.1 Disassembly
WARNING
All cartridges must be removed from the tool. All nails must be removed from the nail magazine or the fastener guide.

CAUTION
After the tool has been in use, the parts to be handled may be very hot. It is essential that gloves are worn if the following maintenance operations have to be carried out before the tool has been allowed to cool down.

1. Check that the tool cycling grip is in its starting position.
2. Unscrew and remove the fastener guide (or fastener magazine).
3. Remove the piston from the piston guide and remove the piston stopper from the nail magazine.

7.4.2 Assembly
1. Insert the piston stopper, the right way round, in the piston guide (or fastener magazine) that is to be fitted to the tool.
2. Check that the tool cycling grip is in its starting position.
3. Insert the correct piston in the piston guide in the tool.
4. Screw the fastener guide (or fastener magazine) onto the piston guide as far as it will go and then turn it back until it engages.
5. Cycle the tool once with the cycling grip.

7.5 Driving fasteners using the single fastener guide (accessory)
WARNING
Check that the spall guard is fitted to the tool.

7.5.1 Inserting the fastener in the single-fastener tool
1. Turn the tool so that the fastener guide is pointing upwards.
2. Insert the fastener in the tool from above.

7.5.2 Selecting the cartridge
1. Determine the thickness of the material to be fastened and the grade of the supporting steel.
2. Select a suitable cartridge and power setting according to the cartridge recommendations.

NOTE
For details of recommended cartridges, please refer to the applicable approvals or the Hilti Fastening Technology Manual.
7.5.3 Inserting the cartridge strip 4
Push the cartridge strip into the cartridge strip guideway on the side of the tool, as far as it will go.

7.5.4 Driving fasteners with the single-fastener tool
1. Press the tool against the working surface at right angles.
2. Drive the fastener by pulling the trigger.
3. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.5.5 Checking and adjusting fastener driving depth 6 7
NOTE
Fastener driving depth can be adjusted by turning the power regulation wheel on the tool (setting 1 = minimum; setting 4 = maximum).

Check nail stand-off and the power setting in accordance with section 7.2.5 “Checking and adjusting fastener driving depth”.

7.6 Fastening shear connectors (accessories required) 13 14

WARNING
Check that the spall guard is fitted to the tool.

7.6.1 Inserting the fastener in the HVB fastener guide
NOTE
These instructions apply to driving the first fastener in the shear connector.
1. Fit the HVB fastener guide in accordance with the instructions in section 7.4 “Changing the nail magazine or fastener guide (accessory)”.
2. Push the slider over until it engages and the number “1” is visible.
3. Turn the tool so that the fastener guide is pointing upwards.
4. Insert the fastener into the tool from above at the marked opening.

7.6.2 Inserting the cartridge strip 4
NOTE
For best results when fastening HVB shear connectors, use black cartridges or, in some cases, red cartridges. For details of recommended cartridges, please refer to the applicable approvals or the Hilti Fastening Technology Manual.

Push the cartridge strip into the cartridge strip guideway on the side of the tool, as far as it will go.

7.6.3 Driving fasteners using the HVB fastener guide
1. Fit the shear connector onto the base plate. It is held in place by a magnet.
2. Press the tool against the working surface at right angles.
3. Drive the fastener by pulling the trigger.
4. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.6.4 Checking and adjusting fastener driving depth 6 7
NOTE
Fastener driving depth can be adjusted by turning the power regulation wheel on the tool (setting 1 = minimum; setting 4 = maximum).

Check nail stand-off and the power setting in accordance with section 7.2.5 “Checking and adjusting fastener driving depth”.

7.6.5 Inserting the second fastener in the HVB fastener guide 15
NOTE
These instructions apply to driving the second fastener in the shear connector.
1. Push the slider over until it engages and the number “2” is visible.
2. Turn the tool so that the fastener guide is pointing upwards.
3. Insert the fastener into the tool from above at the marked opening.

7.6.6 Driving fasteners using the HVB fastener guide 14
1. Insert the nose of the tool into the shear connector and press the tool at right angles against the working surface.
2. Drive the fastener by pulling the trigger.
3. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.7 Fastening gratings (accessories required)

WARNING
Check that the spall guard is fitted to the tool.

7.7.1 Inserting the fastener in the grating fastener guide (G5)
1. Fit the grating fastener guide in accordance with the instructions in section 7.4 “Changing the nail magazine or fastener guide (accessory)”.
2. Turn the tool so that the fastener guide is pointing upwards.
3. Insert the fastener into the tool from above.

7.7.2 Inserting the cartridge strip 4
Push the cartridge strip into the cartridge strip guideway on the side of the tool, as far as it will go.
7.7.3 Driving fasteners using the grating fastener guide

1. Press the tool against the working surface at right angles.
2. Drive the fastener by pulling the trigger.
3. If possible, check the depth of penetration by checking fastener stand-off.
4. If using a flange, screw the retaining flange on with torque of 5 to 8 Nm.
5. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.7.4 Checking and adjusting fastener driving depth

NOTE
Fastener driving depth can be adjusted by turning the power regulation wheel on the tool (setting 1 = minimum; setting 4 = maximum).

Check nail stand-off and the power setting in accordance with section 7.2.5 "Checking and adjusting fastener driving depth".

7.8 Using the F10 fastener guide

WARNING
Check that the spall guard is fitted to the tool.

Use the F10 fastener guide in the same way as for fastening gratings (section 7.7).

7.9 Fastening profile metal sheets to concrete (DX-Kwik accessories required)

WARNING
Check that the spall guard is fitted to the tool.

7.9.1 Inserting the fastener in the DX-Kwik fastener guide

1. Fit the DX-Kwik fastener guide in accordance with the instructions in section 7.4 "Changing the nail magazine or fastener guide (accessory)".
2. Turn the tool so that the fastener guide is pointing upwards.
3. Insert the fastener in the tool from above.

7.9.2 Inserting the cartridge strip

NOTE
Use blue cartridges for best results when fastening profile metal sheets to concrete. For details of recommended cartridges, please refer to the applicable approvals or the Hilti Fastening Technology Manual.

Push the cartridge strip, as far as it will go, into the cartridge strip guideway on the side of the tool.

7.9.3 Driving fasteners using the DX-Kwik fastener guide

1. Drill through the profile metal sheet and into the concrete with the step drill bit.
2. Guide the tip of the fastener projecting from the fastener guide into the previously drilled hole and press the tool at right angles against the working surface.
3. Drive the fastener by pulling the trigger.
4. Prepare the tool for driving the next fastener by pushing the cycling grip back toward the rear of the tool and then forward to its original position.

7.9.4 Checking and adjusting fastener driving depth

NOTE
Fastener driving depth can be adjusted by turning the power regulation wheel on the tool (setting 1 = minimum; setting 4 = maximum).

Check nail stand-off and the power setting in accordance with section 7.2.5 "Checking and adjusting fastener driving depth".

8 Care and maintenance

CAUTION
When this type of tool is used under normal operating conditions, dirt and residues build up inside the tool and functionally relevant parts are also subject to wear. Regular inspections and maintenance are thus essential in order to ensure reliable operation. We recommend that the tool is cleaned and the piston and piston stopper are checked and inspected at least daily when the tool is subjected to intensive use, at the latest after driving 3,000 fasteners.

WARNING
All cartridges must be removed from the tool. All nails must be removed from the nail magazine or the fastener guide.

CAUTION
The tool may get hot during use. You could burn your hands. Wear protective gloves when carrying out care and maintenance. Allow the tool to cool down.

8.1 Care of the tool

Clean the outside of the tool at regular intervals with a slightly damp cloth.
8.2 Maintenance

Check all external parts of the tool for damage at regular intervals and check that all controls operate faultlessly. Do not operate the tool if parts are damaged or if the controls do not function faultlessly. If necessary, the tool should be repaired by Hilti Service.

Use the tool only with the recommended cartridges and power settings. Use of the wrong cartridges or use of excessively high power settings may lead to premature failure of parts of the tool.

WARNING All cartridges must be removed from the tool. All nails must be removed from the nail magazine or the fastener guide.

CAUTION After the tool has been in use, the parts to be handled may be very hot. It is essential that gloves are worn if the following maintenance operations have to be carried out before the tool has been allowed to cool down.

NOTE Firing the tool repeatedly without driving a fastener stresses the piston and piston stopper and causes these parts to wear. If the piston shows signs of chipping and/or the synthetic rubber part of the piston stopper is badly worn, then these parts have reached the end of their life.

NOTE The condition of the piston and piston stopper must be checked at regular intervals and at least daily.

NOTE To replace the piston and the piston stopper, only the fastener magazine or fastener guide requires to be unscrewed. It is not necessary to remove the piston guide.

1. Unscrew and remove the fastener guide (or fastener magazine).
2. Pull the piston out of the piston guide.
3. Check the piston for damage. If signs of damage are found, the piston AND the piston stopper must be replaced.
4. If the piston has to be replaced, remove the piston stopper from the fastener guide.
5. Insert the new piston stopper, the right way round, in the fastener guide (or fastener magazine) that is to be fitted to the tool.
6. Insert the piston into the piston guide in the tool.
7. Screw the fastener guide (or fastener magazine) onto the piston guide as far as it will go and then turn it back until it engages.
8. Cycle the tool once with the cycling grip.

8.2.1 Checking the piston, changing the piston / piston stopper

WARNING All cartridges must be removed from the tool. All nails must be removed from the nail magazine or the fastener guide.

CAUTION After the tool has been in use, the parts to be handled may be very hot. It is essential that gloves are worn if the following maintenance operations have to be carried out before the tool has been allowed to cool down.

NOTE Firing the tool repeatedly without driving a fastener stresses the piston and piston stopper and causes these parts to wear. If the piston shows signs of chipping and/or the synthetic rubber part of the piston stopper is badly worn, then these parts have reached the end of their life.

NOTE The condition of the piston and piston stopper must be checked at regular intervals and at least daily.

NOTE To replace the piston and the piston stopper, only the fastener magazine or fastener guide requires to be unscrewed. It is not necessary to remove the piston guide.

1. Unscrew and remove the fastener guide (or fastener magazine).
2. Pull the piston out of the piston guide.
3. Check the piston for damage. If signs of damage are found, the piston AND the piston stopper must be replaced.
4. If the piston has to be replaced, remove the piston stopper from the fastener guide.
5. Insert the new piston stopper, the right way round, in the fastener guide (or fastener magazine) that is to be fitted to the tool.
6. Insert the piston into the piston guide in the tool.
7. Screw the fastener guide (or fastener magazine) onto the piston guide as far as it will go and then turn it back until it engages.
8. Cycle the tool once with the cycling grip.

8.2.2 Cleaning the piston guide

WARNING All cartridges must be removed from the tool. All nails must be removed from the nail magazine or the fastener guide.

CAUTION After the tool has been in use, the parts to be handled may be very hot. It is essential that gloves are worn if the following maintenance operations have to be carried out before the tool has been allowed to cool down.

1. Check that the tool cycling grip is in its starting position.
2. Unscrew and remove the nail magazine (or the fastener guide).
3. Remove the piston from the piston guide and remove the piston stopper from the nail magazine (or fastener guide).
4. CAUTION It is essential that the tool is held with the piston guide facing upwards. The piston guide may otherwise fall out. Open the piston guide release lever.
5. Pull the piston guide out of the tool.
6. Clean the seat of the piston guide in the tool.
7. Use the large brushes to clean the inside and outside surfaces of the piston guide.
8. Use the small round brush to clean the bore for the regulating pin and use the tapered brush to clean the cartridge chamber.
9. Spray the slider and the collar of the piston guide with Hilti lubricant spray.
10. Spray the steel parts inside the tool with Hilti lubricant spray.
   NOTE Use of lubricants other than Hilti spray may cause damage to rubber parts.
11. Check that the tool cycling grip is in its starting position.
12. Insert the piston guide into the tool.
13. Apply light pressure to the piston guide.
   NOTE The lever can be closed only when the piston guide is pressed (several mm) into the tool. If the lever still cannot be closed, please refer to the information in section 9 “Troubleshooting”.
14. Close the piston release lever with light pressure applied to the piston guide.
15. Insert the piston into the piston guide.
16. Fit the piston stopper.
17. Screw the fastener guide (or fastener magazine) onto the piston guide as far as it will go and then turn it back until it engages.
18. Lubricate the cartridge transport mechanism by applying Hilti lubricant spray in the gap in the housing behind the cycling grip.
19. Cycle the tool once with the cycling grip.

### 8.3 Checking the tool after care and maintenance

After carrying out care and maintenance and before loading the cartridges, check that all safety devices have been fitted and that they function faultlessly.

### 9 Troubleshooting

**WARNING**

The tool must be unloaded before taking any steps to remedy faults.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridges are not transported.</td>
<td>The cartridge strip is damaged.</td>
<td>Change the cartridge strip. See section: 7.3.1 Removing cartridge strips from the tool</td>
</tr>
<tr>
<td></td>
<td>The tool is damaged.</td>
<td>Contact Hilti.</td>
</tr>
<tr>
<td>Cartridge strip can’t be removed.</td>
<td>The tool is damaged or has overheated as a result of an excessively high fastener driving rate.</td>
<td>Allow the tool to cool and then carefully try again to remove the cartridge strip. Remove the piston guide from the tool. If a cartridge sleeve remains jammed in the cartridge chamber, use the round rod from the cleaning set to remove it. If this is still not possible, contact Hilti. <strong>WARNING</strong> Do not attempt to forcibly remove cartridges from the magazine strip or tool.</td>
</tr>
<tr>
<td>Cartridge doesn’t fire.</td>
<td>The tool is not pressed fully against the working surface.</td>
<td>Press the tool fully against the working surface and pull the trigger.</td>
</tr>
<tr>
<td></td>
<td>The cartridge strip is used up.</td>
<td>Remove the used cartridge strip. Load a new strip.</td>
</tr>
<tr>
<td></td>
<td>The magazine or fastener guide is not screwed on far enough.</td>
<td>Screw the magazine farther onto the tool.</td>
</tr>
<tr>
<td></td>
<td>One of the cartridges is faulty.</td>
<td>Cycle the tool and use up the remaining cartridges.</td>
</tr>
<tr>
<td></td>
<td>The tool is defective or the cartridges are faulty.</td>
<td>Contact Hilti.</td>
</tr>
<tr>
<td></td>
<td>The tool is not cycled.</td>
<td>Cycle the tool. See section: 8.2.2 Cleaning the piston guide</td>
</tr>
</tbody>
</table>

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**Printed: 17.04.2014 | Doc-No: PUB / 5126016 / 000 / 02**
<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastener penetrates too deeply</td>
<td>The fastener missed the steel beam.</td>
<td>Mark the position of the beam. Drive another fastener into the beam.</td>
</tr>
<tr>
<td>(inadequate fastener stand-off).</td>
<td></td>
<td>Check to ensure that the sheet rests tightly against the supporting material.</td>
</tr>
<tr>
<td></td>
<td>The wrong piston has been fitted.</td>
<td>Check that the right piston / fastener combination is used.</td>
</tr>
<tr>
<td></td>
<td>The piston is worn.</td>
<td>Change the piston and piston stopper.</td>
</tr>
<tr>
<td>Fastener doesn't penetrate deep enough</td>
<td>Fastener driven into the rib of the beam.</td>
<td>Drive a second fastener.</td>
</tr>
<tr>
<td>(excessive fastener stand-off).</td>
<td>Fastener driving power is too low.</td>
<td>Increase fastener driving power in accordance with recommendations or, respectively, use a more powerful cartridge.</td>
</tr>
<tr>
<td></td>
<td>Different thickness and/or strength of supporting material.</td>
<td>Increase fastener driving power in accordance with recommendations or, respectively, use a more powerful cartridge.</td>
</tr>
<tr>
<td></td>
<td>The tool needs to be cleaned.</td>
<td>Clean the tool.</td>
</tr>
<tr>
<td></td>
<td>The tool is damaged.</td>
<td>Contact Hilti.</td>
</tr>
<tr>
<td></td>
<td>The wrong piston has been fitted.</td>
<td>Check that the right piston / fastener combination is used.</td>
</tr>
<tr>
<td>Fastener stand-off (head projection)</td>
<td>The tool was pressed against the working surface with a jolt.</td>
<td>Press the tool against the working surface smoothly and avoid jolting.</td>
</tr>
<tr>
<td>varies considerably.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The tool is cycled unevenly, sometimes not fully.</td>
<td>Cycle the tool fully.</td>
</tr>
<tr>
<td></td>
<td>Irregular driving power.</td>
<td>Clean the tool. Replace wearing parts with new parts. Contact Hilti if irregular driving power is still experienced.</td>
</tr>
<tr>
<td>Shear breakage.</td>
<td>The face of the piston is worn or chipped.</td>
<td>Change the piston and piston stopper.</td>
</tr>
<tr>
<td></td>
<td>Fastener driven into the rib of the beam.</td>
<td>Drive a second fastener beside the first one.</td>
</tr>
<tr>
<td></td>
<td>The supporting material is thicker and/or of higher strength.</td>
<td>Check that the recommended type of fastener is used. If the right type of fastener is used, increase driving power in accordance with cartridge recommendations or use a more powerful cartridge.</td>
</tr>
<tr>
<td>The tool remains compressed (doesn't</td>
<td>The piston sticks in the piston stopper.</td>
<td>Change the piston and piston stopper.</td>
</tr>
<tr>
<td>extend when pressure is released)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The tool is badly fouled with dirt and residues.</td>
<td>Clean the piston guide. Check the straightness of the piston.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clean the tool.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>See section: 8.2.2 Cleaning the piston guide</td>
</tr>
<tr>
<td>Fault</td>
<td>Possible cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The tool remains compressed (doesn’t extend when pressure is released).</td>
<td>The cartridge strip has jammed, the tool has overheated.</td>
<td>Please refer to the fault: “Cartridge strip can’t be removed”. Do not exceed the maximum recommended fastener driving rate.</td>
</tr>
<tr>
<td>The tool can’t be fired.</td>
<td>The tool wasn’t cycled correctly, the cycling grip is not in the starting position.</td>
<td>Cycle the tool completely and return the cycling grip to the starting position.</td>
</tr>
<tr>
<td></td>
<td>The trigger is pulled before the tool is pressed fully against the working surface.</td>
<td>Press the tool fully against the working surface and then pull the trigger.</td>
</tr>
<tr>
<td>Fastener transport malfunctions</td>
<td>See section: 7.2.1 Loading fastener strips in the magazine 1. See section: 7.3.2 Removing fastener strips from the tool 2.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The magazine or fastener guide is not screwed on far enough.</td>
<td>Screw the magazine farther onto the tool.</td>
</tr>
<tr>
<td>The tool is badly fouled with dirt and residues.</td>
<td>Clean the piston guide. Check the straightness of the piston. Clean the tool.</td>
<td>See section: B.2.2 Cleaning the piston guide 11, 12, 13</td>
</tr>
<tr>
<td>The trigger is pulled before the tool is pressed fully against the working surface.</td>
<td>Press the tool fully against the working surface and then pull the trigger.</td>
<td></td>
</tr>
<tr>
<td>No fastener is driven.</td>
<td>The tool wasn’t cycled correctly, the cycling grip is not in the starting position.</td>
<td>Cycle the tool completely and return the cycling grip to the starting position.</td>
</tr>
<tr>
<td></td>
<td>No fasteners in the tool.</td>
<td>Load fastener(s) into the tool.</td>
</tr>
<tr>
<td></td>
<td>The magazine fastener transport mechanism is faulty.</td>
<td>Contact Hilti.</td>
</tr>
<tr>
<td>No piston in the tool.</td>
<td>nut.</td>
<td>Fit the piston.</td>
</tr>
<tr>
<td>The piston is broken.</td>
<td>Change the piston and piston stopper.</td>
<td>Contact Hilti.</td>
</tr>
<tr>
<td>The piston doesn’t return to its starting position.</td>
<td>nut.</td>
<td>Change the piston and piston stopper.</td>
</tr>
<tr>
<td>The fastener guide needs to be cleaned.</td>
<td>Use the brushes provided to clean the fastener guide and associated parts. Lubricate with Hilti spray.</td>
<td></td>
</tr>
<tr>
<td>Fasteners are jammed in the fastener guide.</td>
<td>Remove the jammed fasteners. Remove magazine strip plastic scraps from the tool magazine. Avoid shear breakage (see above). Avoid missing the beam (driving the fastener into unsupported sheet metal); mark the position of the beams accurately if necessary.</td>
<td></td>
</tr>
<tr>
<td>The fastener guide can’t be screwed on to the tool fully.</td>
<td>The piston stopper is fitted the wrong way round.</td>
<td>Unscrew the fastener guide. Fit the piston stopper the right way round and then screw on the fastener guide.</td>
</tr>
<tr>
<td></td>
<td>The piston guide needs to be cleaned.</td>
<td>Clean and lubricate the threads.</td>
</tr>
<tr>
<td>The piston can’t be fitted.</td>
<td>The tool, especially the piston guide, needs to be cleaned.</td>
<td>Clean the fastener guide and the tool and refit the piston.</td>
</tr>
<tr>
<td>Fault</td>
<td>Possible cause</td>
<td>Remedy</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The piston can’t be fitted.</td>
<td>The tip of the pusher is projecting into the piston guide, preventing movement of the piston.</td>
<td>Pull the pusher forward until it engages.</td>
</tr>
<tr>
<td>The piston guide can’t be fitted.</td>
<td>The lever is in the closed position.</td>
<td>Open the lever.</td>
</tr>
<tr>
<td>Stiff cycling action.</td>
<td>The tool needs to be cleaned.</td>
<td>Clean the tool. See section: 8.2.2 Cleaning the piston guide</td>
</tr>
</tbody>
</table>

**10 Disposal**

Most of the materials from which Hilti tools or appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, Hilti has already made arrangements for taking back old tools and appliances for recycling. Ask Hilti customer service or your Hilti representative for further information. If you bring the tool to a recycling facility yourself, follow the applicable regional and international directives and regulations.

**11 Manufacturer's warranty - tools**

Hilti warrants that the tool supplied is free of defects in material and workmanship. This warranty is valid so long as the tool is operated and handled correctly, cleaned and serviced properly and in accordance with the Hilti Operating Instructions, and the technical system is maintained. This means that only original Hilti consumables, components and spare parts, or other products of equivalent quality, may be used in the tool.

This warranty provides the free-of-charge repair or replacement of defective parts only over the entire lifespan of the tool. Parts requiring repair or replacement as a result of normal wear and tear are not covered by this warranty.

Additional claims are excluded, unless stringent national rules prohibit such exclusion. In particular, Hilti is not obligated for direct, indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of, the use of, or inability to use the tool for any purpose. Implied warranties of merchantability or fitness for a particular purpose are specifically excluded.

For repair or replacement, send the tool or related parts immediately upon discovery of the defect to the address of the local Hilti marketing organization provided.

This constitutes Hilti’s entire obligation with regard to warranty and supersedes all prior or contemporaneous comments and oral or written agreements concerning warranties.
12 EC declaration of conformity (original)

Designation: Powder-actuated fastening tool
Type: DX 76
Generation: 01
Year of design: 2004

We declare, on our sole responsibility, that this product complies with the following directives and standards: 2006/42/EC, 2011/65/EU.

Hilti Corporation, Feldkircherstrasse 100, FL-9494 Schaan

Norbert Wohlwend Tassilo Deinzer
Head of Quality & Processes Management Head of BU Direct Fastening
BU Direct Fastening BU Direct Fastening
04/2013 04/2013

Technical documentation filed at:
Hilti Entwicklungsgesellschaft mbH
Zulassung Elektrowerkzeuge
Hilistrasse 6
86916 Kaufering
Deutschland

13 Confirmation of CIP testing

The Hilti DX 76 has been system and type tested. As a result, the tool bears the rectangular PTB approval mark showing approval number S 813. Hilti thus guarantees compliance with the approved type. Unacceptable defects or deficiencies, etc. determined during use of the tool must be reported to the person responsible at the approval authority (PTB) and to the Office of the Permanent International Commission (C.I.P.).

14 Health and safety of the operator

14.1 Noise information

<table>
<thead>
<tr>
<th>Powder-actuated fastening tool</th>
<th>DX 76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Series</td>
</tr>
<tr>
<td>Caliber</td>
<td>6.8/18 blue</td>
</tr>
<tr>
<td>Power regulation</td>
<td>4</td>
</tr>
<tr>
<td>Application</td>
<td>Fastening to 8 mm steel (400 MPa) with X-ENP 19 L15MX</td>
</tr>
</tbody>
</table>

Declared measured values of noise characteristics according to 2006/42/EC Machinery Directive in conjunction with DIN EN 15895

| Noise (power) level, \( L_{WA} \) | 114 dB (A) |
| Emission noise-pressure level in the work station, \( L_{PA} \) | 110 dB (A) |
| Peak sound pressure emission level, \( L_{Pc, peak} \) | 139 dB (C) |

\(^1\pm 2\text{ dB (A)}
\(^2\pm 2\text{ dB (A)}
\(^3\pm 2\text{ dB (C)}

Operation and set-up conditions: Set-up and operation of the pin driver in accordance with E DIN EN 15895-1 in the semi-anechoic test room of Müller-BBM GmbH. The ambient conditions in the test room conform to DIN EN ISO 3745.

Testing procedure: Enveloping surface method in anechoic room on reflective surface area in accordance with E DIN EN 15895, DIN EN ISO 3745 and DIN EN ISO 11201.
NOTE The noise emissions measured and the associated measurement uncertainty represent the upper limit for the noise values to be expected during the measurements. Variations in operating conditions may cause deviations from these emission values.

14.2 Vibration
Total vibration in accordance with 2006/42/EC does not exceed 2.5 m/s².

Further information about user health and safety can be found at www.hilti.com/hse.