Solid manure handling systems for loose housing
DeLaval solid manure scraper DWII
For solid manure and slurry in loose housing barns

A system for demanding conditions
DeLaval manure scraper DWII is ideal for large loose housing barns with open alleys; able to handle slurry and solid manure with long straw in passages up to 6 metres wide.

Cheaper building and better animal health
It is more cost efficient to build a system with open alleys than one with slatted floors and channels under the slats. The barn environment and animal health are also improved as manure is removed from the barn frequently. Compared to slatted floor buildings, the barn is kept cleaner and the amount of dangerous gases are reduced.

Modern techniques
Scraper systems for manure handling have traditionally been chain or wire operated. Like many other modern systems for manure handling, DeLaval solid manure scraper DWII is hydraulically operated.

Improved operation reliability and lower maintenance costs
Hydraulic operation means few moving parts and less risk of breakdowns. Compared to a drive system with chain/wire operation and corner pulleys, the maintenance cost for a hydraulically operated system is considerably less. DeLaval solid manure scraper DWII is the first choice in a modern loose housing barn where performance needs needs to be high.

Use the hydraulic system for transporting manure to the storage
Press the manure direct to the storage place
There are several solutions for transporting manure to the main storage via a cross channel. In many cases it is an advantage to use the hydraulic system, either by running a scraper system that transports slurry to a pump pit from where it is pumped to the main storage, or by having a DeLaval manure press K3000 to press the slurry direct into the main store.

Handle solid manure with straw
DeLaval manure press KP is is a very powerful hydraulically operated press system for handling solid manure with straw in different situations. In many cases the same power pack as for DeLaval solid manure scraper DWII can be used, reducing investment costs considerably. The heavy-duty design and cone shaped press drum is especially suitable for tough conditions.

Safe operation with simple functions
DeLaval solid manure scraper DWII is hydraulically operated, without any corner pulleys or chain/wire drive systems that demand a lot of space and maintenance. The power pack is a low noise power pack connected to a hydraulic cylinder for each alley. One power pack can operate up to 5 units, as well as a scraper system in the cross channel.

The hydraulic cylinder is connected to a drawbar which moves back and forth, moving the scraper in steps. The drawbar is placed in the centre of the alley.

The scraper moves in steps at low speed. As the scraper stops for a few seconds (during the return stroke of the cylinder), the animals are not stressed and they can easily move away or step over it.

DeLaval solid manure scraper DWII
Handles slurry and solid manure with a lot of straw
Hydraulic operation means easier concrete work and an installation without corner pulleys and chain/wire in the manure passage.

Robust design of all components gives extra high capacity, safe operation and a long lifetime.

High capacity means that the scraper can be operated less frequently, resulting in less disturbances of the animals.

‘Floating’ blades follow the bottom of the alley, cleaning it efficiently.

The turning mechanism is in an oil ‘bath’ for safe operation.
Solid manure handling systems for loose housing – high reliability, high quality and few moving parts

**Power pack**
- High performance and low noise level
- Built-in oil filter efficiently cleans the hydraulic oil, helping to extend the lifetime of all components.
- Smooth change over valve means easy operation and gentle turns that do not disturb animals or personnel.
- Adjustable hydraulic pressure makes it possible to optimise each plant to the actual conditions.
- For best operation, oil level and high temperature controls can be added as an option.

**Drive units**
Two types of drive station are available: one for installation on the floor; and one for installation in a recess. In the latter case the drive unit is installed in a recess under the scraper passage, connected to a cross channel or an outlet to a store.

Valid for both types of drive unit installation:
- Hydraulic cylinder specially designed for manure removal in barns.
- The cylinder is both galvanised and powder painted. All other parts are galvanised.
- Hard chromed piston rod made of special steel and stainless steel bushings for the best durability.
- Pushing cylinder for maximum power.

### Data

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<tr>
<th>Type</th>
<th>Drawbar (mm):</th>
<th>C-profile (mm):</th>
<th>Cylinder Ø x length (mm):</th>
<th>Power pack (kW/lpm):</th>
<th>Scraper speed (m/min):</th>
<th>Passage-width (m):</th>
<th>Passage-length (m):</th>
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<tr>
<td>DWII 80</td>
<td>80 x 40</td>
<td>120 x 50 x 3</td>
<td>60 x 1160</td>
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<td>5.5/27</td>
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