Slurry handling systems for loose housing
DeLaval slurry scraper DM
For manure handling in loose housing barns

An animal-friendly system with high capacity

**Lower investment costs**
DeLaval slurry scraper DM is a manure handling system that removes slurry in open alleys. It demands considerably less investment than a manure system with slatted floors and channels under the slats.

**Improve animal health**
Barn environment and animal health are greatly improved if manure is removed frequently. Compared to buildings with slatted floors, DeLaval slurry scraper DM keeps the barn cleaner and reduces the amount of dangerous gases.

**Improve reliability and lower maintenance costs**
Scraper systems for manure handling have traditionally been chain or wire operated. DeLaval slurry scraper DM is hydraulically operated, which means fewer movable parts and considerably less risk of breakdowns. Furthermore, compared to a drive system with chain/wire operation and corner pulleys, the maintenance cost for a hydraulic operated system is considerably less. DeLaval slurry scraper DM is the first choice for a modern loose housing barn: lower building costs, an improved barn environment and reliable operation provide the best conditions for profitability.

**Use the hydraulic system for transporting manure to 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 store, or by having a DeLaval manure press system take the slurry direct into the main store.

**Save costs for pump and pump pit**
DeLaval manure press K3000 is available for different conditions and can transport slurry from the cross channel to the main store, even if it is located above ground. The hydraulically-operated press can transport the liquid manure up to 60 meters and lift it up to 6 meter above the press. In this way, costs for pump pit and pump can be eliminated.

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**Safe operation with simple functions**
DeLaval slurry scraper DM is hydraulically operated, without any corner pulleys or chain/wire drive systems that demand a lot of space and maintenance. The power unit 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 that moves back and forth, moving the scraper in steps. The drawbar is normally placed in a recess in the centre of the alley, but can also be installed on the flat floor in existing alleys.

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.

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**DeLaval slurry scraper DM**
Easily installed in old or new barns.

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.

Designed for maximum safety for the cows as well as for maximum cleaning efficiency.

Quick folding blades minimise manure residues in the turning area.
Slurry 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.

Control system
- Control system with different options for flexibility and individual customisation.
- Manual or fully automatic function.
- Control of up to 6 alleys.
- Automatic return to start position.
- Easy shut-off of one or more alleys.

Drive unit
- 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 is made of special steel.
- Stainless steel bushings for best durability.
- Push or pull cylinder to fit all installations.

Data

<table>
<thead>
<tr>
<th>DeLaval slurry scraper DM</th>
<th>Drawbar (mm): 80 x 40</th>
<th>C-profile (mm): 40 x 80</th>
<th>Cylinder Ø x length: 45/30 x 900</th>
<th>Power pack (kW/lpm): 2.2/12</th>
<th>Scaper speed (m/min): 4.0</th>
<th>Passage width (m): 1.6 - 4.0</th>
<th>Passage length (m): max. 80</th>
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<tbody>
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