



MANURE SCRAPER SYSTEM

Odin manure handling systems are designed to provide many solutions and still be easy to work with. Choose Tor, Freja or Balder - they are all cow-friendly and will meet all requirements of the professional farming of today



Your supplier of professional agricultural equipment



Odin Manure Scraper system

Cow friendly

- short cross bars – save space for animal passage
- long oblique wings – wide enough to step on
- rubber blades
- designed with wide and rounded surfaces

Cost efficient

- divided and hinged cross bars gives strong connections and more efficient cleaning which minimize main - tenance and labor
- foldable wings gives flexibility in the manure handling system

Reliable

- creates easier passage over uneven surfaces
- long operational life

Komprimat presses

- Hydraulic press system for solid, semi-solid and slurry manure
- Up to 60 m length

Options

- Cow safety, detection system
- Remote Control operation
- Inductive loop detector as an alternative to mechanical limit switches.
- Anti Freeze protection program

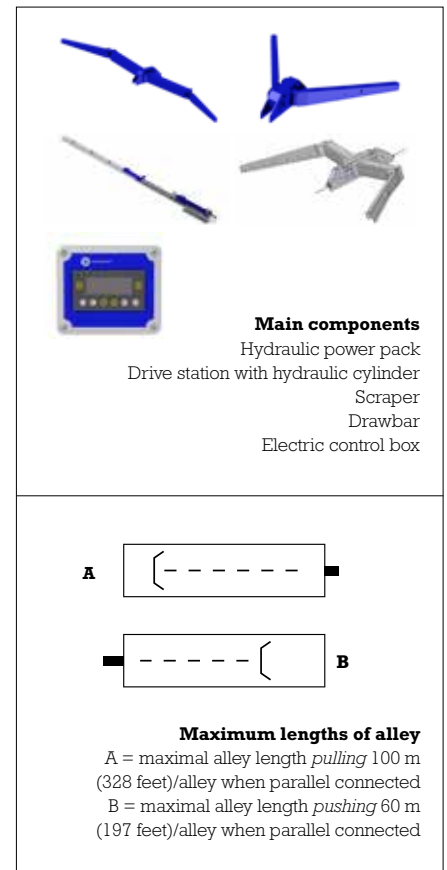
Manure Scraper system

Tor Hydraulik

Tor is a hydraulic driven system for use in loose housing cow barns with open walkways. It works as an alley scraper available in different designs for up to 4.4 m (14.4 ft) broad alleys. Tor hydraulic power pack including drive station can run up to four separated alleys.

For each alley there is a drive station with a hydraulic cylinder installed at one end. The cylinder runs the manure scraper via a center body, which moves in a very slow speed. At the end of the alley the scraper automatically stops and returns to the starting position. When returning, the wings will fold and that will open up a passage for the cows.

No corner wheels, no rope, no wire means safe operation and minimal work and maintenance.



Limits serial connected	
Max cylinders in serial	2
Max length pulling/pushing, 2 cylinders	2 x 100/60 m (328/197 ft)

Technical Specifications	
V-scraper	Standard
1,2-1,6 m (3,9-5,2 ft)	2,0-2,4 m (6,6-7,9 ft)
1,6-2,0 m (5,2-6,6 ft)	2,4-2,8 m (7,9-9,2 ft)
2,0-2,5 m (6,6-8,2 ft)	2,8-3,2 m (9,2-10,5 ft)
-	3,2-3,6 m (10,5-11,8 ft)
-	3,6-4,0 m (11,8-13,1 ft)
-	4,0-4,4 m (13,1-14,4 ft)



Manure Scraper system

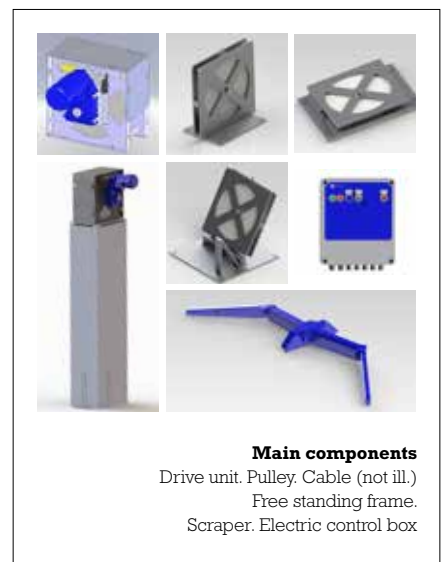
Freja Cable/rope

Freja is a cable/rope scraper for wide alleys without slatted floors. The cable operated scraper can handle liquid as well as semi-solid and solid manure. With a cow friendly design and a high capacity it is a maximum efficient manure handling system.

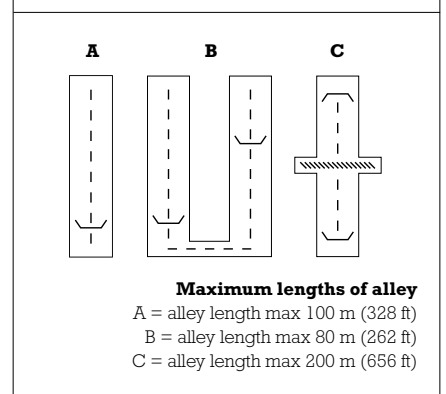
The scraper consists of a central body with connection for cable/rope. The cross bars are backwards slanted with swinging centre flaps. The manure will be scraped in a straight angle in the transport direction.

The scraper is designed to work in alleys with 50 mm (2") slope to the centre. On concrete or rubber mat thickness up to 20 mm (0.8").

The wire of chrome-nickel steel, the drum of stainless steel and the powder-coated blade are all resistant to rust.



Technical Specifications		
V-scraper	Standard	Foldable
1,2-1,6 m (3,9-5,2 ft)	2,0-2,4 m (6,6-7,9 ft)	2,0-2,4 m (6,6-7,9 ft)
1,6-2,0 m (5,2-6,6 ft)	2,4-2,8 m (7,9-9,2 ft)	2,4-2,8 m (7,9-9,2 ft)
2,0-2,5 m (6,6-8,2 ft)	2,8-3,2 m (9,2-10,5 ft)	2,8-3,2 m (9,2-10,5 ft)
-	3,2-3,6 m (10,5-11,8 ft)	3,2-3,6 m (10,5-11,8 ft)
-	3,6-4,0 m (11,8-13,1 ft)	3,6-4,0 m (11,8-13,1 ft)
-	4,0-4,4 m (13,1-14,4 ft)	4,0-4,4 m (13,1-14,4 ft)
-	4,4-4,8 m (14,4-15,7 ft)	4,4-4,8 m (14,4-15,7 ft)
-	4,8-5,2 m (15,7-17,1 ft)	4,8-5,2 m (15,7-17,1 ft)





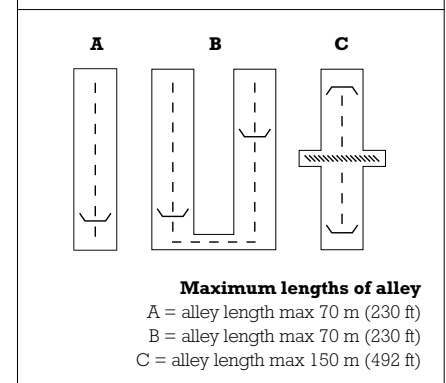
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Balder Chain

Balder is a chain scraper system with many options. It can be modified for alleys of different lengths. The chain technology offers low energy consumption and a strong, durable construction. The chain is running in a floor

groove without disturbing the cows. *Balder* consists of a drive with a low-energy motor and corner wheels. The drive is designed to be placed in different places in the barn.

The system includes scrapers available with rubber or steel blades.



Technical Specifications		
V-scraper	Standard	Foldable
1,2-1,6 m (3,9-5,2 ft)	2,0-2,4 m (6,6-7,9 ft)	2,0-2,4 m (6,6-7,9 ft)
1,6-2,0 m (5,2-6,6 ft)	2,4-2,8 m (7,9-9,2 ft)	2,4-2,8 m (7,9-9,2 ft)
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-	3,2-3,6 m (10,5-11,8 ft)	3,2-3,6 m (10,5-11,8 ft)
-	3,6-4,0 m (11,8-13,1 ft)	3,6-4,0 m (11,8-13,1 ft)
-	4,0-4,4 m (13,1-14,4 ft)	4,0-4,4 m (13,1-14,4 ft)



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