

Complete diet mixers

Feeder VM – vertical auger mixers with 1, 2 or 3 augers



High-tech production of complete diet mixers

JF-STOLL is now Europe's leading specialist in the manufacturing of grassland machinery and complete diet mixers.

The range of complete diet mixers is specially developed for the challenges that future milk producers are facing. The machines are designed, developed and manufactured at JF-STOLL's factory in Denmark.

Through the whole manufacturing process large tools are used to fix the parts during welding in order to ensure consistency and high quality. The choice of high-strength steel gives a feeder which is exceptionally hard-wearing. This ensures highest quality and makes the JF-STOLL Feeders the best diet mixers on the market.

The range of diet feeders consists of eight "basic families".

The range can be seen in the table below.



High precision and high level of quality characterize the manufacturing of diet mixers at JF-STOLL which is based on large tools.

VM										
Volume	Number of dairy cows per load (8000 kg ECM/ cow/year)	1 auger			2 augers				3 augers	
		Doors		Cross conveyor	Doors		Cross conveyor		Doors	
		Compact	Normal	Normal	Compact	Compact	Normal	Normal	Normal	Normal
		VM-1 S	VM-1	VM-1 B	VM-2 SB	VM-2 S	VM-2	VM-2 B	VM-3 B	VM-3
6,5 m ³	35-45	VM 6.5-1 S								
8 m ³	45-55	VM 8-1 S								
10 m ³	55-70	VM 10-1 S	VM 10-1	VM 10-1 B						
12 m ³	67-85		VM 12-1	VM 12-1 B						
14 m ³	80-100		VM 14-1	VM 14-1 B	VM 14-2 SB	VM 14-2 S				
16 m ³	93-120				VM 16-2 SB	VM 16-2 S				
18 m ³	105-135				VM 18-2 SB	VM 18-2 S				
20 m ³	115-150				VM 20-2 SB	VM 20-2 S				
22 m ³	125-165						VM 22-2	VM 22-2 B		
27 m ³	155-195						VM 27-2	VM 27-2 B		
30 m ³	175-220						VM 30-2	VM 30-2 B		
32 m ³	190-240								VM 32-3 B	VM 32-3
38 m ³	220-280								VM 38-3 B	VM 38-3
45 m ³	260-350								VM 45-3 B	VM 45-3
Optional equipment										
Elevator, 75 cm		A	A	-	-	A	A	-	-	A
Elevator, 160 cm		-	A	-	-	A	A	-	-	A
Elevator, 220 cm		-	B	B	-	A + B	A + B	B	B	A + B
Elevator, 90/160 cm, for cross conveyor		-	-	A	A	-	-	A	A	-
Corner doors		B*)	-	-	B	B	-	-	-	-
A = Mounting on the side B = Mounting at the rear										

*The VM 6,5-1 S can not be delivered with rear mounted corner doors.



Feeder VM 45-3

The complete diet Feeder range



Feeder VM-1 S

VM 6.5-1 S
VM 8-1 S
VM 10-1 S



Feeder VM-1

VM 10-1
VM 12-1
VM 14-1



Feeder VM-1 B

VM 10-1 B
VM 12-1 B
VM 14-1 B



Feeder VM-2 SB

VM 14-2 SB
VM 16-2 SB
VM 18-2 SB
VM 20-2 SB



Feeder VM-2 S

VM 14-2 S
VM 16-2 S
VM 18-2 S
VM 20-2 S



Feeder VM-2

VM 22-2
VM 27-2
VM 30-2



Feeder VM-2 B

VM 22-2 B
VM 27-2 B
VM 30-2 B



Feeder VM-3 / VM-3 B

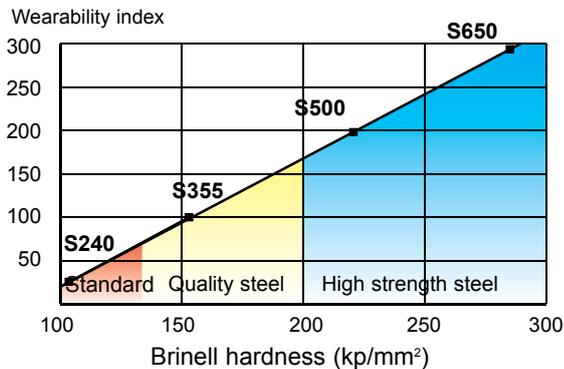
VM 32-3 / VM 32-3 B
VM 38-3 / VM 38-3 B
VM 45-3 / VM 45-3 B

The most hard-wearing diet mixers on the market

The JF-STOLL Feeder VM is the only complete diet mixer on the market made of high-strength steel

The steel which is used for complete diet mixers is divided into 3 groups:

- 1) Standard steel (st.37/S240) ■
- 2) Quality steel (st.52/S355) ■
- 3) High strength steel (S650) ■



JF-STOLL is the first producer of complete diet mixers who has taken the step and introduced high strength steel S500/650 in the production of diet mixers. The use of high strength steel is especially important in connection with the auger windings and the first 50 cm of the tub walls, which are the parts that are exposed to the hardest wear.

Built to work harder and last longer

Test of high strength steel

To document the strength of high strength steel a comprehensive test program has been carried out.

Below is the result of two test items, steel quality S355 (ST 52) and S650, respectively, which were exposed to the exact same test course.

Steel quality	Weight before test	Weight after 10 hours	Weight loss after 10 hours
S355, 6 mm Quality steel	388 gram	323 gram	65 gram
S650, 6 mm High strength steel	375 gram	353 gram	22 gram

The measurements stated are an average of all the test items from the series of tests.



Steel before the test



Quality steel (S355) after the test



High strength steel (S650) after the test

Test result

A weight loss which is 3 times higher gives a factor 1:3. This means that 6 mm S650 = 17 mm S355. In order to obtain the same wear resistance as the JF-STOLL Feeder has with 6 mm steel quality S650, it is necessary to use a 17 mm plate for the tub walls when using steel quality S355 (ST 52)!

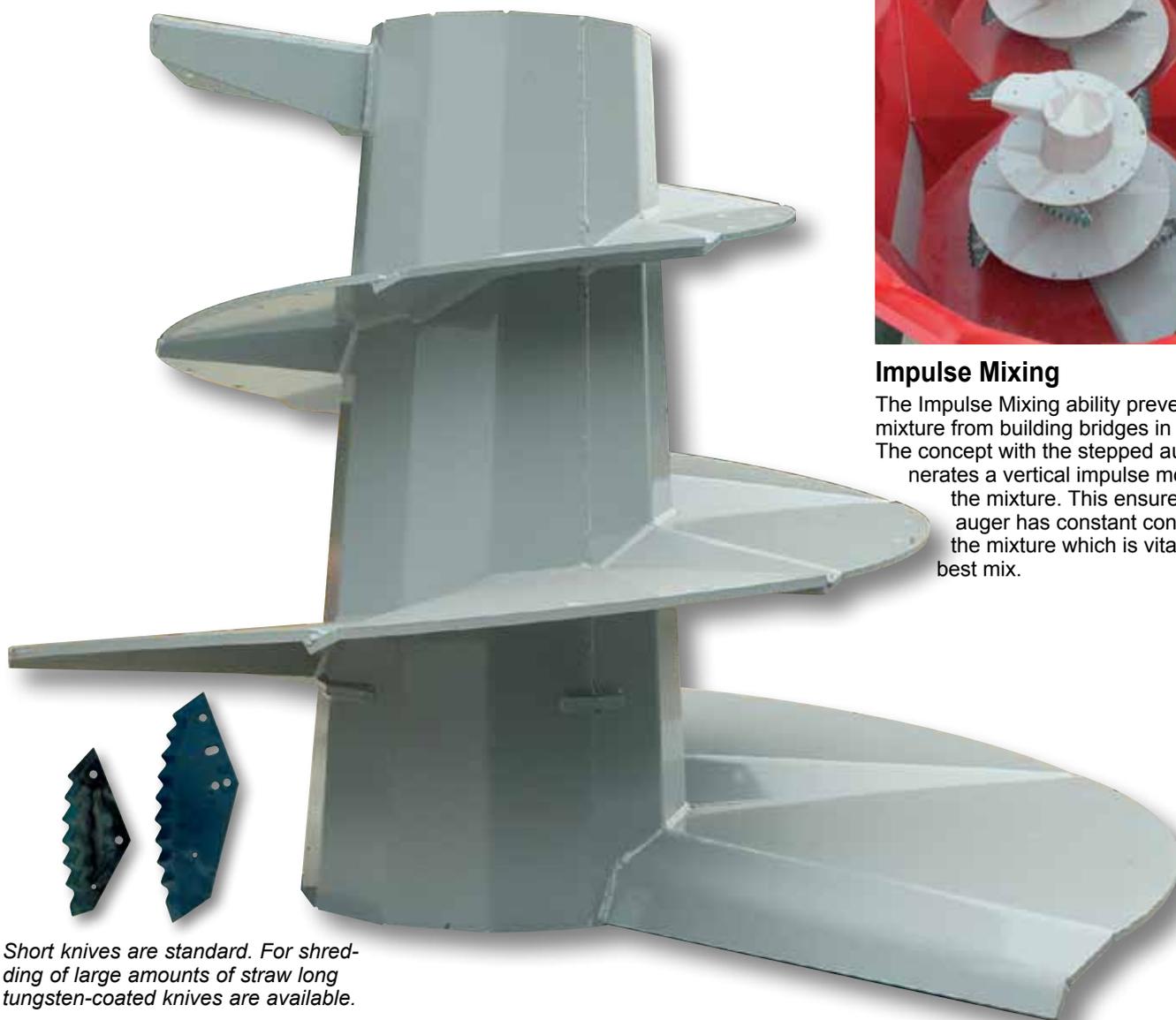
The advantage of high strength steel S500/650

- Significantly less wear on tub and auger!
- Less own weight allows for increased net weight!
- Less power requirement for pulling of Feeder! (important when the silage is transported from the clamp silo).
- Less wear on tyres and surface. VM 18-2 S has a lower own weight of up to 1.9 tons compared with diet mixers made of traditional quality steel, at the same time the durability is considerably longer!

Conclusion

JF-STOLL uses a steel quality which is nearly three times more hard-wearing than steel S335 (st. 52) at the same thickness. The tub walls on Feeders of up to 20 m³ are made of 6 mm high strength steel. On bigger machines, the first 65 cm of the tub walls are made of 8 mm high strength steel.

The unique mixing auger with Impulse Mixing



Short knives are standard. For shredding of large amounts of straw long tungsten-coated knives are available.



Impulse Mixing

The Impulse Mixing ability prevents the mixture from building bridges in the tub. The concept with the stepped augers generates a vertical impulse movement in the mixture. This ensures that the auger has constant contact with the mixture which is vital for the best mix.



Minimum maintenance

Strong auger bearing consisting of 2 large conical roller bearings. The lower roller bearing in oil bath, the upper greased for life. Thereby the bearings are always well greased – even at low oil level.

This is why the mixing auger is unique!

Quick mixing and feeding

- Because of the high auger speed.

Gentle mixing

- Because of the many auger windings.

Effective shredding

- Because the auger can be fitted with many knives.

Good hygiene

- Because the high auger speed allows complete emptying of the augers.
- Because there are no edges, bolts or corners where the feed can accumulate.

Low power consumption

- Because of the conical construction of the tub.
- Because the auger construction ensures that only one auger winding is drawn through the feed above the bottom plate.

Quick and regular feeding

- Because of the high auger speed.

High wear resistance = long life

- Because all auger windings are made of high strength steel S500.

Wireless weighing system - maximum overview

All VM Feeders are equipped with the wireless weighing system Feed Manager.

With Feed Manager the weighing display is not fixed on the Feeder but can be placed where it is most comfortable for the operator. The main terminal with the weighing display is typically placed in the loader so that the operator always has access to all weight information during loading.

Time-saving

- Using this system, the feeder can be loaded from all sides and even over the rear, because the weight information is in the loader tractor/handler.
- When moving away from the feeder, to get concentrate or any other ingredient, the information concerning what is in the feeder is always at hand. This means that the operator can collect exactly what he needs to complete the loading. This saves time.

Operator Comfort

- It is not necessary to leave the tractor to turn the weighing display.
- All functions can be operated directly on the terminals.

Minimum loss of feed

- Due to the Feed Manager, the amount of travelling between feed storage area and feeder can be reduced, thereby reducing the possibility of spilling feed on route.

Feed Manager helps with the feeding out too

Feed Manager assists with unloading as well. Feed Manager can be programmed to alert the operator both visually and by sound as the feed is distributed to the animals. This can be done at different weight intervals, chosen by the operator.

- Feed mixture divided into intervals: Divided into intervals of for example 500 kg.
- Divided into percentage: Divided into for example 25%-intervals whereby the mixture is divided into 4 equal portions.
- Divided into groups: Divided into up to 5 portions of various sizes.

Discharge of each portion can be viewed on the display and separated with an acoustic signal.

Optional equipment:

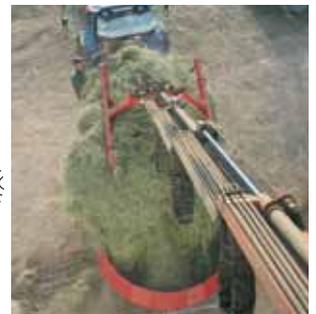
- Mounting arm with sucking disc and two ball-and-socket joints for optimal placing in the cab.
- Battery charger for hand terminal (excl. battery).
- 110/230 V converter for 12 volt.



The JF-STOLL Feeder has wireless display as standard. With the display placed in the loading tractor great flexibility is achieved during loading. This is time-saving, gives an maximum comfort and minimises the feed loss.

Feed Manager consists of several wireless terminals

Feed Manager consists of a main terminal and a hand terminal which receives weight information from the Feeder via a wireless signal. The terminals communicate with each other.



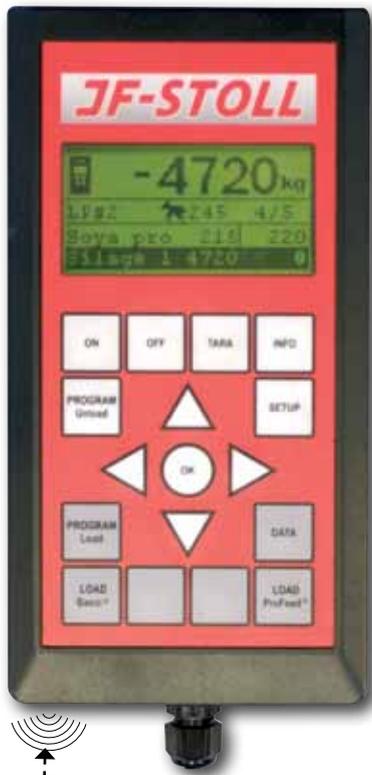
Main terminal

With the main terminal placed in the loading machine the weight, time and date can be read in the display at any time. Unload plans can be programmed, used and/or sent to the hand terminal.

Hand terminal

The hand terminal is typically placed in the tractor driving the Feeder. If it is equipped with a battery it can be brought along anywhere. More hand terminals can be bought and connected to the same Feeder.

Optimize the feeding with ProFeed⁺



ProFeed⁺ gives you a unique overview over what must be loaded according to a pre determined feed plan and then compares what has actually been fed. Operation of the terminals and the enclosed PC programme is so user-friendly that registration of ingredients will be a natural part of the feeding. This allows the farmer to have all the information of feed actually fed, set against a pre determined plan, which can be used to monitor herd performance and be used in the day to day management of the herd.

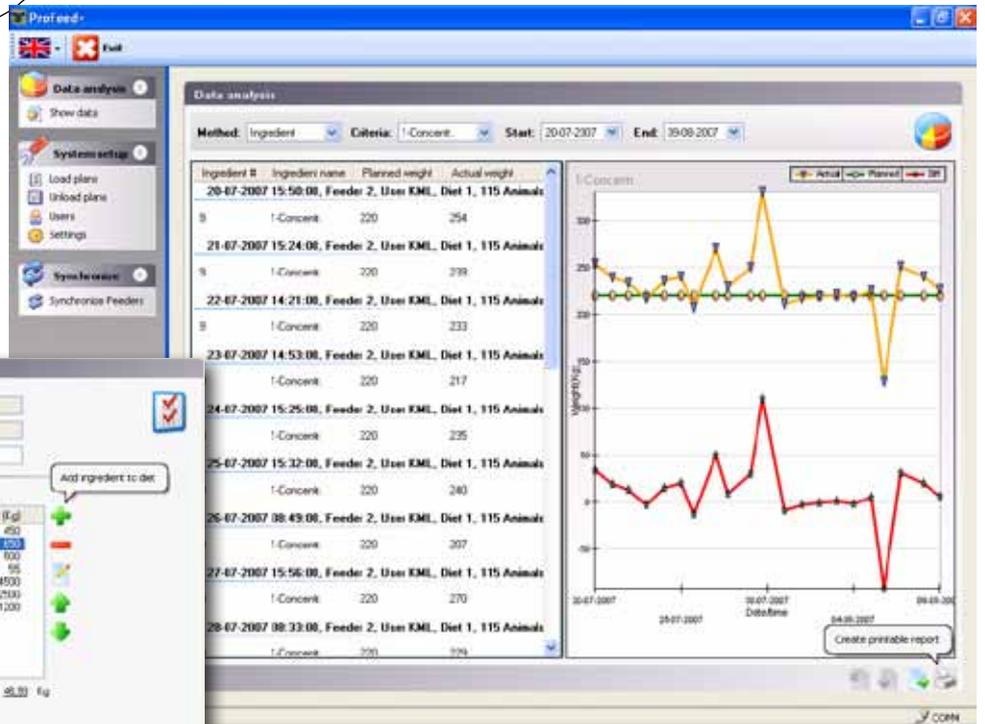
Radio transmitter/receiver with USB-plug for PC.



Wireless transmission of data between main terminal in the loader and the PC in the office.



Feed plans can be easily programmed with the PC. This can also be made directly via the main terminal. For example, the amount of cows can be changed.



Feed Manager - main functions

	Basic (Standard)*	Basic ⁺ (Option)	ProFeed ⁺ (Option)
Display of weight	✓	✓	✓
Wireless displays	✓	✓	✓
Remote control, e.g. the "tara"-function from all displays	✓	✓	✓
Discharge guide – visual and acoustic	✓	✓	✓
Load guide (99 feed plans) - visual and acoustic		✓	✓
Data registration (approx. 7500 mixtures)			✓
Software for processing data etc. on the PC			✓
Wireless data synchronisation between main terminal and PC			✓
Comparison of feed plans/consumption on the PC			✓
Creation and up-date of feed plans from the PC			✓

Basic⁺ means easy handling of the feedstuffs

With Basic⁺ you can type in one or more feed plans on the main terminal which can guide the person who loads the Feeder. An acoustic signal is sent out from the terminal just before Basic⁺ automatically shifts to the next ingredient to be loaded. In addition to the signal the loading can also be followed on the displays. The unique overview that is created during loading of feedstuff reduces loading errors.

*The Basic weighing system can subsequently be upgraded to Basic⁺ or Profeed⁺

Great flexibility – also after you have purchased!

The modular concept gives great flexibility

The JF-STOLL Feeder is constructed by means of a modular system which enables you to choose exactly the solution that suits your needs.

If your needs change after you have purchased a JF-STOLL Feeder, due to a new barn, more livestock etc. the mixer can subsequently be modified.

Great advantages

Flexibility is decisive because the structural development within beef and dairy farming is accelerating. Flexibility is ensuring the future of the JF-STOLL Feeder.

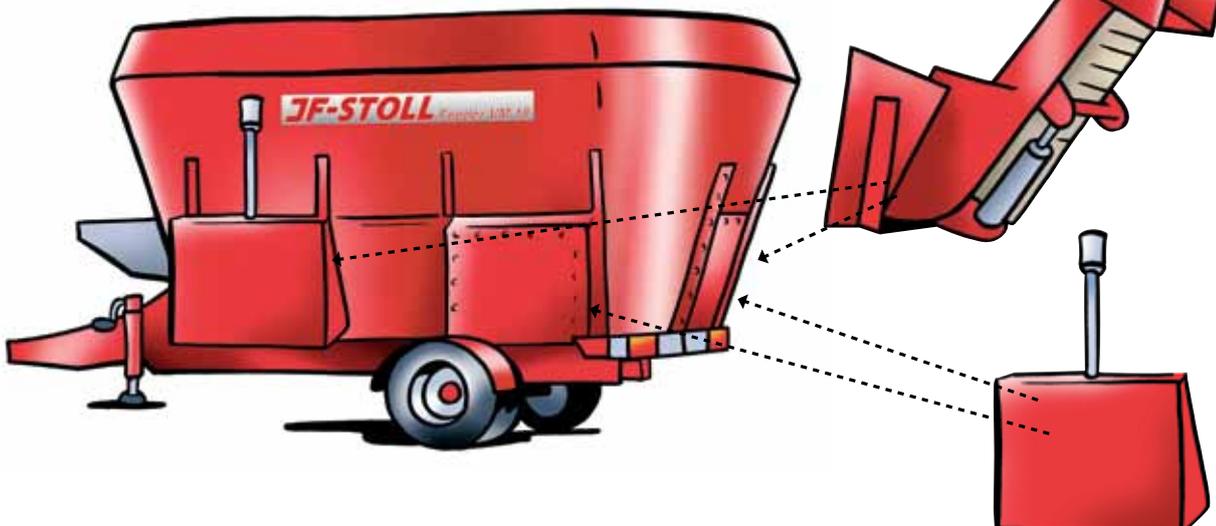
Due to the great flexibility a JF-STOLL Feeder is easy to sell. There are many potential buyers because they can modify the JF-STOLL Feeder to suit their needs.



Bigger herd



Modified feeding



Example of a VM 10-1 which has been fitted with an additional rear door due to the barn arrangements.



VM 8-1 S with rubber guard



VM 6.5-1 S



VM 10-1 S with overrun brake

Discharge variants



Side elevator E08



Discharge door rear



Elevator E22 rear



Discharge doors with rubber/steel guard

VM-1 S

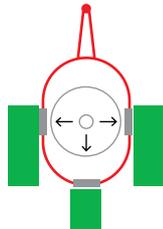
35-70 cows

Narrow versions with 1 auger

Available in following sizes:
6,5 m³, 8 m³ and 10 m³.

Can be equipped with:

- Discharge doors side and rear (1-3 doors)
- Side elevator E08 (75 cm)



Practical and sturdy diet mixer

VM 8-1 S can subsequently be extended by 2 m³ to a VM 10-1 S.

VM-1

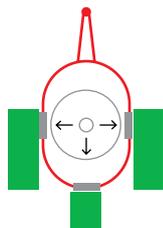
55-100 cows

Low versions with 1 auger

Available in following sizes:
10 m³, 12 m³ and 14 m³.

Can be equipped with:

- Discharge doors side and rear (1-3 doors)
- Side elevator E08 (75 cm)
- Side elevator E16 (160 cm)
- Elevator E22, rear (220 cm)



The strong steel guard opens immediately when operating the door. The large opening gives free passage for the feed.

VM-1 B

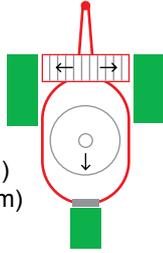
55-100 cows

VM Feeders with 1 auger and cross conveyor

VM-1 B is available in following sizes: 10 m³, 12 m³ and 14 m³.

Can be equipped with:

- Cross conveyor, standard (240 cm)
- Cross conveyor with elevator BE09 (90 cm)
- Cross conveyor with elevator BE16 (160 cm)
- Discharge door rear
- Elevator E22, rear (220 cm)



Efficient discharge of dry mixtures with high content of straw

VM Feeders with cross conveyor are constructed by means of a modular system which enables you to choose between 3 different cross conveyor solutions. The cross conveyor solutions are espe-

cially suitable for feed mixtures with high content of straw. It also handles other mixes just as easily.

Discharge variants



Elevator BE09



Elevator BE16

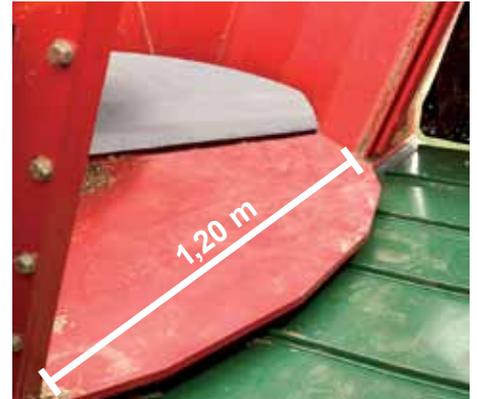


Discharge door rear



Elevator E22 rear

All Feeders with cross conveyor have a wide opening of 120 cm. This gives optimal preconditions for discharge of dry mixtures with high content of straw.



Overrun brake (Germany) with brake lock when reversing.

VM 10-1 B



VM 14-1 B



VM 16-2 S mounted with spring-loaded bogie and pneumatic brakes



VM 14-2 S



VM 18-2 S

Compact wagons with high capacity

These are the characteristics of VM-2 S. The Feeders are very narrow. With 5 openings in the tub the Feeder can be equipped in many different ways with discharge doors, elevators etc. When discharging

with 2 doors on the same side of the tub the driving speed can be increased which protects the tractor clutch.

VM-2 S

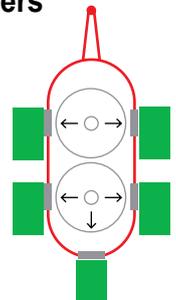
80-150 cows

Narrow and low Feeder with 2 augers

Available in following sizes:
14 m³, 16 m³, 18 m³ and 20 m³.

Can be equipped with:

- Discharge doors side and rear (1-5 doors)
- Side elevator E08 (75 cm)
- Side elevator E16 (160 cm)
- Side elevator E22 (220 cm)
- Elevator E22, rear (220 cm)



Discharge variants



Discharge doors with rubber/steel guard



Discharge door rear



Elevator E22 rear



Side elevator E08



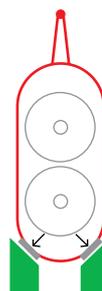
Side elevator E16



Side elevator E22 (only with single axle)

VM-2 S with corner doors

For discharge in very narrow barns VM-2 S is available with 1 or 2 corner doors (total width of 221 cm). Is available in the sizes: 14 m³, 16 m³, 18 m³ and 20 m³.



VM-2 SB

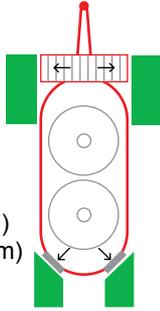
80-150 cows

Narrow and low Feeder with 2 augers and cross conveyor

Available in following sizes: 14 m³, 16 m³, 18 m³ and 20 m³.

Can be equipped with:

- Cross conveyor, standard (224 cm)
- Cross conveyor with elevator BE09 (90 cm)
- Cross conveyor with elevator BE16 (160 cm)
- Cross conveyor with corner doors rear



Discharge variants



Elevator BE09



Elevator BE16



Corner doors

VM-2 SB can be equipped with spring-loaded bogie with hydraulic or pneumatic brakes.



Efficient discharge of dry mixtures with high content of straw

VM Feeders with cross conveyor are constructed by means of a modular system which enables you to choose between 3 different cross conveyor solutions. The cross conveyor solutions are espe-

cially suitable for feed mixtures with high content of straw. It also handles other mixes just as easily.

Cross conveyor with elevator can also discharge to both sides. Continuous adjustment of belt speed is standard.



VM 18-2 SB



VM 14-2 SB



VM 22-2 B

VM 30-2 B



Spring-loaded bogie, fixed or turnable rear axle. VM 22-2 B has 1 axle as standard.

Cross conveyor machine for contractors and large farms

VM-2 B is the versatile Feeder with cross conveyor which handles large mixtures very professionally. Possibility of 3 extra discharge doors makes it very flexible.

The optimal concept for stability and precision weighing

All Feeders have separate chassis and tub. This removes the possibility of tensions in the tub. The vertical drawbar from the tractor to the axle system goes directly through the chassis frame without charging the weighing cells, because the drawbar is not welded directly into the tub. Hereby, weighing cells placed in the drawing eye are avoided. This enables weighing when the tractor is disengaged (use of hitch system during loading). To avoid unnecessary charge on the weighing cells the cross conveyor is always mounted on the chassis frame.

VM-2 B

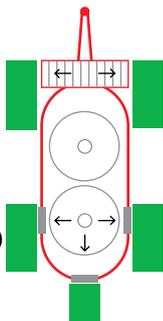
125-220 cows

Compact Feeder with 2 augers and cross conveyor

Available in following sizes: 22 m³, 27 m³ and 30 m³.

Can be equipped with:

- Cross conveyor, standard (240 cm)
- Cross conveyor with elevator BE09 (90 cm)
- Cross conveyor with elevator BE16 (160 cm)
- Discharge door rear
- Elevator E22 rear (220 cm)
- 1 or 2 discharge doors rear



Discharge variants



Elevator BE09



Elevator BE16



Discharge doors with rubber/steel guard



Discharge door rear



Elevator E22 rear



VM 27-2



VM 22-2



VM 30-2

VM-2

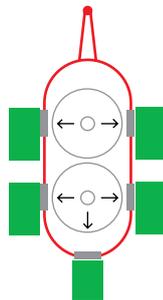
125-220 cows

Large Feeder with 2 augers for large farms and contractors

VM-2 is available in following sizes:
22 m³, 27 m³ and 30 m³.

Can be equipped with:

- Discharge doors side and rear (1-5 doors)
- Side elevator E08 (75 cm)
- Side elevator E16 (160 cm)
- Side elevator E22 (220 cm)
- Elevator E22 rear (220 cm)



VM-2 for large farms

Like the other Feeders from JF-STOLL the VM-2 can be adapted to any need. Among other things, a very high discharge capacity can be obtained with 2 discharge doors at the same side. With a rear mounted elevator the feed can be mixed and loaded into another wagon for feeding at the farm next door.

Spring-loaded bogie, fixed or turnable rear axle.



Discharge variants



Discharge doors with rubber/steel guard



Side elevator E08



Side elevator E16



Side elevator E22



Discharge door rear



Elevator E22 rear



The large elevator E22 (220 cm) has very high lifting and throwing capacity for unloading into e.g. another trailer. The construction of the belt is based on two strong tooth belts.

VM-3 Feeder makes the feeding more efficient with its enormous capacity

The feed for up to 350 cows can be mixed and discharged within 45 minutes with one large mixture. Among the advantages are minimum time consumption (only one filling per feedstuff and minimum

transport), minimum wear on the trailer (very long life), and minimum service. This leaves the tractor and the driver free to work with other jobs the rest of the day, thereby saving money.

VM-3

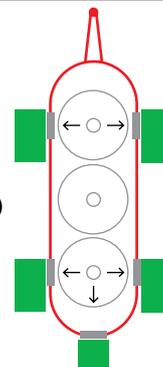
190-350 cows

Feeder with 3 augers and enormous capacity

VM-3 is available in following sizes: 32 m³, 38 m³ and 45 m³.

Can be equipped with:

- Discharge doors side and rear (1-5 doors)
- Side elevator E08 (75 cm)
- Side elevator E16 (160 cm)
- Side elevator E22 (220 cm)
- Elevator E22 rear (220 cm)



VM 45-3 B



Discharge doors with rubber/steel guard



Side elevator E08



Side elevator E16



Side elevator E22



Discharge door rear



Elevator E22 rear

Spring-loaded 3-axle system with turnable 1st and 3rd axle (VM 38-3/45-3)



VM 32-2

VM 45-3

Operational equipment and other additional equipment



Control of hydraulic functions

If the Feeder is equipped with many functions we offer valve block for 2, 3 or 4 functions.



Electric control with wire

Electric control from the tractor cabin to VM Feeders based on an electric wire between tractor and Feeder (maximum 3 double-acting functions).



JF-STOLL LINK

Wireless electric control from the tractor cabin and possibly loader (maximum 4 double-acting). The hydraulic shearbars, among other things, can be adjusted from the loader.



JF-STOLL LINK Macro

Wireless electric control from the tractor cabin. Up to 6 double-acting functions. Or 5 double-acting and Macro-programming between the hydraulic functions. - Programmed procedures are carried out after one push on the control box, one at start (P1) and another at the end (P2). Discharge doors are opened and closed automatically. JF-STOLL Link Macro can if desired be combined with the small remote control from JF-STOLL Link (external operation of hydraulic shearbars).



2-speed gear box

For use of small tractor the power consumption can be reduced with approx. 30 % for mixers up to 20 m³, and with approx. 40 % for large mixers.



Hydro Step

Hydraulic gear-change of the 2-speed gear box efficiently from the tractor cabin.



Hydraulic jack

Alternative to mechanical spindle.



Foot for hitch

If the Feeder is moved from one loading area to another with the hitch of the tractor we recommend foot for hitch. If the weighing system is to be used without power from the tractor, equipment for use for mounting the battery is available (excl. battery).



Bale retaining ring

When mixing large amounts of feed it may be necessary to mount a bale retaining ring.



Long knives

For shredding large amounts of straw, especially straw bales, large tungsten-coated knives are available.



Hydraulic shearbars

An alternative to the manual control of the adjustable shearbars.

Outline of wheels



Tyre designation	30x11.5-14.5 GSP	400/60x 15.5 14 PR	205/65R 17.5 Twin wheels	235/75R 17.5 Twin wheels	435/50R 19.5 16 PR	245/70R 19.5 Twin wheels
Width (mm)	275	405	494*)	523*)	438	550 *)
Diameter (mm)	750	875	711	797	931	839
Carrying capacity (at km/h)	4000 (25)	3250 (30)	5200 (25) *)	6670 (25) *)	5870 (30)	6400 (25) *)
Max. air pressure (bar)	8	4,7	8,5	8,5	9	8,5
Remoulded tyres	X				X	
VM 6.5-1 S	R 233 cm	O + 12 cm	O - 2 cm	O + 4 cm		
VM 8-1 S	R 250 cm	O + 12 cm	O - 2 cm	O + 4 cm		
VM 10-1 S	R 285 cm	O + 12 cm	O - 2 cm	O + 4 cm		
VM 10-1 /B	R 258 cm	O + 11 cm	O - 2 cm	O + 3 cm	O + 17 cm	
VM 12-1 /B	R 286 cm	O + 11 cm	O - 2 cm	O + 3 cm	O + 17 cm	
VM 14-1 /B			R 316 cm	O + 4 cm	O + 19 cm	
VM 14-2 S/SB	O (Bogie) + 9 cm	O (Bogie) + 14 cm	O - 4 cm	R 257 cm	O + 11 cm	
VM 16-2 S/SB	O (Bogie) + 9 cm	O (Bogie) + 14 cm	O - 4 cm	R 275 cm	O + 11 cm	
VM 18-2 S/SB	O (Bogie) + 9 cm	O (Bogie) + 14 cm	O - 4 cm	R 292 cm	O + 11 cm	
VM 20-2 S/SB	R (Bogie) 315 cm	O (Bogie) + 6 cm	O - 11 cm	O - 9 cm	O + 2 cm	
VM 22-2 /B					R 296 cm O (Bogie)** +10 cm	O - 4 cm
VM 27-2 /B					R (Bogie)** 341 cm	
VM 30-2 /B					R (Bogie)** 361 cm	
VM 32-3 /B					R (Bogie) 308 cm	
VM 38-3 /B					R (Triple)** 343 cm	
VM 45-3 /B					R (Triple)** 363 cm	

R = Reference tyre with indication of total height
O = Option with indication of height change

We reserve the right to change profile as well as tyre measures.
All heights can vary +/- 3 cm due to tyre pressure etc.

* One set of twin wheels (two wheels)

** Side elevator E22 is not available in combination with turnable axle



VM-1 S



VM-1

Feeder with discharge doors	VM 6.5-1 S	VM 8-1 S	VM 10-1 S	VM 10-1	VM 12-1	VM 14-1
Volume	6.5 m ³	8 m ³	10 m ³	10 m ³	12 m ³	14 m ³
Own weight	2500 kg	2650 kg	2800 kg	3380 kg	3550 kg	3650 kg
Effective load ⁴⁾	2600 kg	3200 kg	4000 kg	4000 kg	4800 kg	5600 kg
Number of weighing cells	3	3	3	3	3	3
Number of augers	1	1	1	1	1	1
Auger speed	32 rpm	32 rpm	32 rpm	33 rpm	33 rpm	33 rpm
Number of knives (mounted/max)	5/10	5/10	5/10	7/14	7/14	7/14
Number of shearbars (adjustable)	2	2	2	2	2	2
Tractor min. ¹⁾	35 kW/48 HP	40 kW/54 HP	45 kW/61 HP	50 kW/68 HP	55 kW/75 HP	60 kW/82 HP
Standard wheel (single axle)	30x11.5-14.5	30x11.5-14.5	30x11.5-14.5	30x11.5-14.5	30x11.5-14.5	4 pcs. 205/65R17.5
Track width, outside (G)	1.80 m	1.80 m	1.80 m	1.90 m	1.90 m	2.10 m
Total height (A)	2.33 m	2.50 m	2.85 m	2.58 m	2.86 m	3.16 m
Length (B)	4.25 m	4.61 m	4.61 m	4.88 m	4.88 m	4.88 m
Widths, rubber/steel guard:						
Discharge doors for 1 side (C) ²⁾	2.29 m	2.29 m	2.29 m	2.50/2.57 m	2.50/2.57 m	2.50/2.57 m
Discharge doors for 2 sides (C) ²⁾	2.36 m	2.36 m	2.36 m	2.54/2.68 m	2.54/2.68 m	2.54/2.68 m
Discharge height (F)	0.70 m	0.70 m	0.70 m	0.78 m	0.78 m	0.77 m
With elevator E08						
During transport (C)	2.50 m	2.50 m	2.50 m	2.82 m	2.84 m	2.84 m
35 degrees from floor (D/E)	2.96/1.03 m	2.96/1.03 m	2.96/1.03 m	3.26/1.14 m	3.26/1.14 m	3.26/1.13 m
Completely lowered (D/E)	3.02/0.61 m	3.02/0.61 m	3.02/0.61 m	3.32/0.82 m	3.32/0.82 m	3.32/0.81 m
1 load of feed corresponds to the daily need (8000 kg EMC/cow/year) of number of cows	35-45 dairy cows	45-55 dairy cows	55-70 dairy cows	55-70 dairy cows	67-85 dairy cows	80-100 dairy cows



VM-1 B



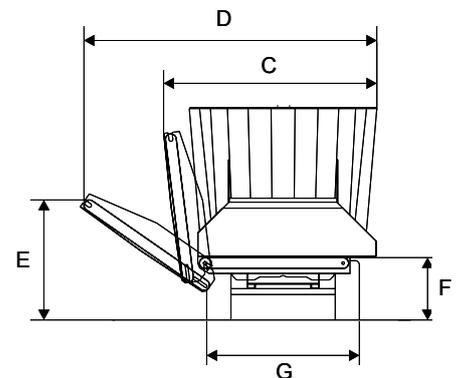
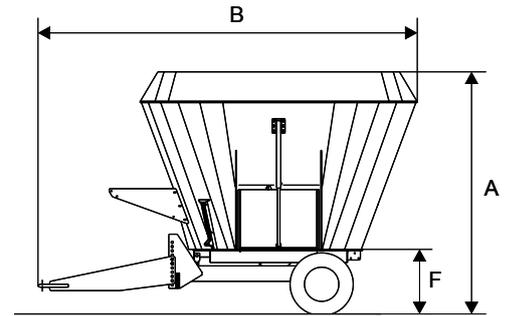
VM-2 SB

Feeder with cross conveyor	VM 10-1 B	VM 12-1 B	VM 14-1 B	VM 14-2 SB	VM 16-2 SB	VM 18-2 SB	VM 20-2 SB
Volume	10 m ³	12 m ³	14 m ³	14 m ³	16 m ³	18 m ³	20 m ³
Own weight	3580 kg	3750 kg	3850 kg	4700 kg	4880 kg	4970 kg	5310 kg
Effective load ⁴⁾	4000 kg	4800 kg	5600 kg	5600 kg	6400 kg	7200 kg	8000 kg
Number of weighing cells	3	3	3	4	4	4	4
Number of augers	1	1	1	2	2	2	2
Auger speed	33 rpm	33 rpm	33 rpm	32 rpm	32 rpm	32 rpm	32 rpm
Number of knives (mounted/max)	7/14	7/14	7/14	10/20	10/20	10/20	10/20
Number of shearbars (adjustable)	2	2	2	2	2	2	2
Tractor min. ¹⁾	50 kW/68 HP	55 kW/75 HP	60 kW/82 HP	60 kW/82 HP	65 kW/88 HP	70 kW/95 HP	74 kW/100 HP
Standard wheel (single axle)	30x11.5-14.5	30x11.5-14.5	4 pcs. 205/65R17.5	4 pcs. 235/75R17.5	4 pcs. 235/75R17.5	4 pcs. 235/75R17.5	30x11.5-14.5 ³⁾
Track width, outside (G)	1.90 m	1.90 m	2.10 m	1.90 m	1.90 m	1.90 m	1.79 m
Total height (A)	2.58 m	2.86 m	3.16 m	2.57 m	2.75 m	2.92 m	3.15 m
Length (B)	5.38 m	5.38 m	5.38 m	6.92 m	6.92 m	6.92 m	6.92 m
Widths and unloading heights:							
With standard cross conveyor (C/F)	2.47/0.72 m	2.47/0.72 m	2.47/0.71 m	2.24/0.78 m	2.24/0.78 m	2.24/0.78 m	2.35/0.86 m
Short elevator BE09 – during transport (C)	2.50 m	2.50 m	2.50 m	2.37 m	2.37 m	2.37 m	2.43 m
35 degrees from floor (D/E)	3.04/0.98 m	3.04/0.98 m	3.04/0.97 m	2.91/1.06 m	2.91/1.06 m	2.91/1.06 m	2.97/1.14 m
Completely lowered (D/E)	3.07/0.85 m	3.07/0.85 m	3.07/0.84 m	2.94/0.93 m	2.94/0.93 m	2.94/0.93 m	3.0/1.01 m
Long elevator BE16 – during transport (C)	2.55 m	2.55 m	2.55 m	2.52 m	2.52 m	2.52 m	2.58 m
35 degrees from floor (D/E)	3.58/1.39 m	3.58/1.39 m	3.58/1.38 m	3.50/1.49 m	3.50/1.49 m	3.50/1.49 m	3.55/1.57 m
Completely lowered (D/E)	3.72/1.15 m	3.72/1.15 m	3.72/1.14 m	3.60/1.24 m	3.60/1.24 m	3.60/1.24 m	3.65/1.32 m
1 load of feed corresponds to the daily need (8000 kg EMC/cow/year) of number of cows	55-70 dairy cows	67-85 dairy cows	80-100 dairy cows	80-100 dairy cows	93-120 dairy cows	105-135 dairy cows	115-150 dairy cows



VM-2 S

Feeder with discharge doors	VM 14-2 S	VM 16-2 S	VM 18-2 S	VM 20-2 S
Volume	14 m ³	16 m ³	18 m ³	20 m ³
Own weight	4450 kg	4630 kg	4720 kg	5060 kg
Effective load ⁴⁾	5600 kg	6400 kg	7200 kg	8000 kg
Number of weighing cells	4	4	4	4
Number of augers	2	2	2	2
Auger speed	32 rpm	32 rpm	32 rpm	32 rpm
Number of knives (mounted/max)	10/20	10/20	10/20	10/20
Number of shearbars (adjustable)	2	2	2	2
Tractor min. ¹⁾	60 kW/82 HP	65 kW/88 HP	70 kW/95 HP	74 kW/100 HP
Standard wheel (single axle)	4 pcs. 235/75R 17.5	4 pcs. 235/75R 17.5	4 pcs. 235/75R 17.5	30x11.5-14.5 ³⁾
Track width, outside (G)	1.90 m	1.90 m	1.90 m	1.79 m
Total height (A)	2.57 m	2.75 m	2.92 m	3.15 m
Length (B)	6.28 m	6.28 m	6.28 m	6.28 m
Widths, rubber/steel guard:				
Discharge doors for 1 side (C) ²⁾	2.29 m	2.29 m	2.29 m	2.35 m
Discharge doors for 2 sides (C) ²⁾	2.36 m	2.36 m	2.36 m	2.36 m
Discharge height (F)	0.87 m	0.87 m	0.87 m	0.95 m
With elevator E08				
During transport (C)	2.50 m	2.50 m	2.50 m	2.57 m
35 degrees from floor (D/E)	2.98/1.12 m	2.98/1.12 m	2.98/1.12 m	3.05/1.20 m
Completely lowered (D/E)	3.02/0.70 m	3.02/0.70 m	3.02/0.70 m	3.09/0.78 m
1 load of feed corresponds to the daily need (8000 kg EMC/cow/year) of number of cows	80-100 dairy cows	93-120 dairy cows	105-135 dairy cows	115-150 dairy cows



VM-2 B

Feeder with cross conveyor	VM 22-2 B	VM 27-2 B	VM 30-2 B
Volume	22 m ³	27 m ³	30 m ³
Own weight	7100 kg	8200 kg	8500 kg
Effective load ⁴⁾	8800 kg	10800 kg	12000 kg
Number of weighing cells	6	6	6
Number of augers	2	2	2
Auger speed	26 rpm	26 rpm	26 rpm
Number of knives (mounted/max)	14/28	14/28	14/28
Number of shearbars (adjustable)	2	2	2
Tractor min. ¹⁾	90 kW/122 HP	100 kW/135 HP	110 kW/150 HP
Standard wheel	435/50R19.5	435/50R19.5 ³⁾	435/50R19.5 ³⁾
Track width, outside (G)	2.14 m	2.14 m	2.14 m
Total height (A)	2.96 m	3.41 m	3.61 m
Length (B)	7.85 m	7.85 m	7.95 m
Widths and unloading heights:			
With standard cross conveyor (C/F)	2.49/0.96 m	2.49/1.04 m	2.76/1.04 m
Short elevator BE09 – during transport (C)	2.52 m	2.52 m	2.76 m
35 degrees from floor (D/E)	3.05/1.12 m	3.05/1.20 m	3.19/1.20 m
Completely lowered (D/E)	3.08/0.96 m	3.08/1.04 m	3.22/1.04 m
Long elevator BE16 – during transport (C)	2.55 m	2.55 m	2.76 m
35 degrees from floor (D/E)	3.64/1.55 m	3.64/1.63 m	3.78/1.63 m
Completely lowered (D/E)	3.73/1.29 m	3.73/1.37 m	3.87/1.37 m
1 load of feed corresponds to the daily need (8000 kg EMC/cow/year) of number of cows	125-165 dairy cows	155-195 dairy cows	175-220 dairy cows

Feeder designation

- VM = Vertical Mixer.
- 1/2/3 = The number states the number of augers.
- VM-B = Feeder with cross conveyor.
- VM-S = A narrow Feeder.
- VM-SB = A narrow Feeder with cross conveyor.

The heights for all trailer types depend on the tyres – see outline of wheels.
All heights can vary +/- 3 cm due to tyre pressure etc.

¹⁾ When mounting a 2-speed gear box the power consumption can be reduced by 30-40 % depending on the size of the mixer.

²⁾ Open steel door increases the width with 30 cm. Can be avoided by mounting rubber guard.

³⁾ Spring-loaded bogie axle system.

⁴⁾ Payload is stated theoretically with 400 kg/m³.

Maximum carrying capacity: See instruction manual



VM-2

VM-3

Feeder with discharge doors	VM 22-2	VM 27-2	VM 30-2	VM 32-3	VM 38-3	VM 45-3
Volume	22 m ³	27 m ³	30 m ³	32 m ³	38 m ³	45 m ³
Own weight	6800 kg	7900 kg	8100 kg	11000 kg	12500 kg	12900 kg
Effective load ⁴⁾	8800 kg	10800 kg	12000 kg	12800 kg	15200 kg	18000 kg
Number of weighing cells	6	6	6	8	8	8
Number of augers	2	2	2	3	3	3
Auger speed	26 rpm	26 rpm	26 rpm	26 rpm	26 rpm	26 rpm
Number of knives (mounted/max)	14/28	14/28	14/28	21/42	21/42	21/42
Number of shearbars (adjustable)	2	2	2	2	2	2
Tractor min. ¹⁾	90 kW/122 HP	100 kW/135 HP	110 kW/150 HP	100 kW/135 HP	110 kW/150 HP	120 kW/162 HP
Standard wheel	435/50R19.5	435/50R19.5 ³⁾	435/50R19.5 ³⁾	435/50R19.5 ³⁾	445/45R19.5	445/45R19.5
Track width, outside (G)	2.14 m	2.14 m	2.14 m	2.15 m	2.15 m	2.15 m
Total height (A)	2.96 m	3.41 m	3.61 m	3.08 m	3.43 m	3.63 m
Length (B)	7.20 m	7.20 m	7.40 m	9.35 m	9.35 m	9.45 m
Widths, rubber/steel guard:						
Discharge doors for 1 side (C) ²⁾	2.51/2.56 m	2.51/2.56 m	2.76 m	2.51/2.56 m	2.51/2.56 m	2.76 m
Discharge doors for 2 sides (C) ²⁾	2.53/2.64 m	2.53/2.64 m	2.76 m	2.53/2.64 m	2.53/2.64 m	2.76 m
Discharge height (F)	0.90 m	0.98 m	0.98 m	1.01 m	1.01 m	1.01 m
With elevator E08						
During transport (C)	2.77 m	2.77 m	2.91 m	2.77 m	2.77 m	2.91 m
35 degrees from floor (D/E)	3.24/1.18 m	3.24/1.26 m	3.38/1.26 m	3.24/1.29 m	3.24/1.29 m	3.38/1.29 m
Completely lowered (D/E)	3.31/0.80 m	3.31/0.88 m	3.45/0.88 m	3.31/0.91 m	3.31/0.91 m	3.45/0.91 m
1 load of feed corresponds to the daily need (8000 kg EMC/cow/year) of number of cows	125-165 dairy cows	155-195 dairy cows	175-220 dairy cows	190-240 dairy cows	220-280 dairy cows	260-350 dairy cows

¹⁾ When mounting a 2-speed gear box the power consumption can be reduced by 30-40 % depending on the size of the mixer.

²⁾ Open steel door increases the width with 30 cm. Can be avoided by mounting rubber guard.

³⁾ Spring-loaded bogie axle system.

⁴⁾ Payload is stated theoretically with 400 kg/m³. Maximum carrying capacity: See instruction manual.



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