

Ihr Spezialist für Futter- Aufbereitungs- Systeme

🇬🇧 Product Catalog

70
2024



Milling &
Mixing Systems



Grain Systems



Straw Systems



Storage Systems



Mixer Wagon



Pelletizing

www.himel.de

1954

As a trained agricultural machinery mechanic, Mathias Hirlinger develops the first cutting blower in his parents' garage with Swabian ingenuity and craftsmanship.

The foundation stone for today's HIMEL Maschinen GmbH & Co. KG is laid. Manual production gets underway. Word spreads among the farmers that HIMEL builds agricultural machinery that makes the hard day-to-day work easier.

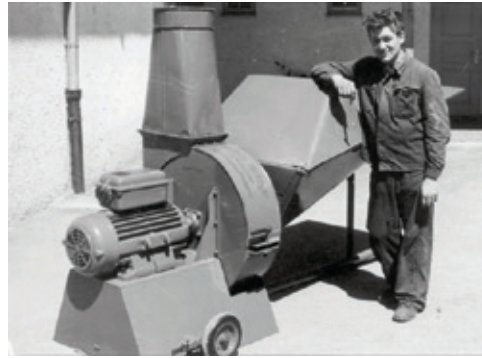


The master craftsman's certificate makes it official: Mathias Hirlinger is now the company founder and entrepreneur.

The HIMEL grain blower is created. Mathias Hirlinger has developed a machine that is a world first. The farm wagons and manure spreaders designed by the Swabian inventor are the predecessor models of the HIMEL feed mixer wagons, which three decades later begin their triumphal march across several continents.

Production in Melchingen is running at full speed. New production halls are constantly being built and more employees are hired. One of the first patents is the HIMEL LBG blower series with direct drive. This development by Mathias Hirlinger is yet another consistent step in the right direction.

A production facility covering over 3300 square metres is inaugurated in Hechingen. This is where the large metering devices for hay and silage and the hay distributors are manufactured. HIMEL grain blowers are now a „top seller“ in the product range.



1976

Further outstanding developments are added: grist mills and screw conveyors. Today's product line is thus already characterised by the globally successful HIMEL grain systems.

1977

Just one year later, the HIMEL straw mill and the promising HIMEL feed mixer are launched on the market, forming the basis for the future product line of HIMEL grinding and mixing systems.

Things continue to move upwards, quite literally: with the hay lift, the silo lift and the round bale lift. With every new development, HIMEL focuses precisely on the needs of farmers and livestock owners. One of the latest inventions is the grain crusher.

80's

In the mid-1980s, Werner Hirlinger, the eldest son, takes over from his father.

The future junior boss systematically begins to restructure the sales organisation and expand the product lines.

The first HIMEL European patent is a success: the hay blower!

Customised work: the new series of HIMEL grain storage technology ideally complements the existing HIMEL grain systems. A few days after the fall of the Berlin Wall, HIMEL establishes its first contacts with Eastern countries. Werner Hirlinger and his brother Michael Hirlinger do pioneering work.

Michael Hirlinger has been a member of the management team for over ten years and now sup-



ports the family business in its PR work with his innovative media agency RealWeb in Hechingen.

New HIMEL sales structures will soon be established in the new countries as well as in the Czech Republic, Slovakia, the Baltic states, Slovenia, Hungary and Russia.

90's

The successors

At the end of the 1990s, the youngest brother, Martin Hirlinger, takes over responsibility for the indoor resort of the family business.

Werner Hirlinger becomes Managing Director of the family business HIMEL.

HIMEL Innovation

The wheel has already been invented - but there is still a lot to do! Initially in its inventor's workshop and later in the company's design department, HIMEL produces pioneering new developments. Many of these designs are awarded patents in several countries and are highly recognised by selected test commissions. World firsts are launched in the production facilities.

With HIMEL machines, the farmer makes more profit, secures his jobs and can operate ecologically and energy-efficiently in the interests of sustainability.





2004

The anniversary year

50 years of HIMEL machines. To mark the anniversary, the Minister President of Baden-Württemberg, Erwin Teufel, honours the company's innovative achievements. He places Mathias Hirlinger in the great tradition of inventors and thinkers in the state. A short time later, he is awarded the „Golden Master Craftsman's Certificate“. In the same year, the company acquires a stake in one of the largest manufacturers of cleaning machines and grain systems, Petkus Technologie GmbH in Eisenach-Wutha (www.petkus.de).



2008

HIMEL is getting bigger

Takeover of the HIMEL Weltzin branch in Burov (northern Germany). A team of experienced specialists develops and produces everything for barn technology and hall construction here. The HIMEL all-round service is available for construction projects: from architectural planning to turnkey



barn handover. We receive a major order for the construction of barn equipment for the European experimental farm and Federal Research Institute for Animal Health „Friedrich-Loeffler-Institut“ on the island of Riems. Everything made of stainless steel for the high-security wing. A challenge for our specialists.

2010

New ideas

The development of a fully automatic straw pellet system is started. HIMEL builds another mainstay „Renewable energies from straw“: straw pellets as fuel or for bedding.

2012

Proof of quality

Certificates such as the ISO certification DIN 9001, the welding certificate DIN 18800, GOST certificates and ongoing TÜV inspections are part of our standard. Characterised by its proximity to nature and agriculture, HIMEL has now been awarded the DIN 14001 certificate for its quality and environmental management.

Several large HIMEL grinding and mixing plants with hourly capacities of over 10 tonnes and enormous grain storage facilities are delivered and built.

2013

HIMEL Worldwide

Ghana (Africa) receives the first HIMEL feed mixers with silo systems. HIMEL Maschinen, the specialist for feed processing systems, is now present in almost all European countries and on several continents.

2015

HIMEL expands

HIMEL production is modernised. New production machines with sheet metal storage are purchased and the lighting is converted to LED. In the middle of the year, the ground-breaking ceremony for the new 1200m² exhibition and storage hall takes place and the courtyard and surrounding area are redesigned.

2020

Industry 4.0

Pellet presses and straw mills are installed in mobile containers and produce pellets for energy generation fully automatically. HIMEL products are exhibited for the first time in new markets such as Uzbekistan (Asia) and Tunisia (North Africa)! New production processes with welding robots, filters and heat recovery are used.





Head office

HIMEL Maschinen
Tel.: +49 7126 9299 0
Fax: +49 7126 9299 1
E-Mail: info@himel.de



Sales

Josef Hirlinger
Tel.: +49 7126 9299 28
Fax: +49 7126 9299 1
E-Mail: jh@himel.de



Sales

Thomas Schotte
Tel.: +49 7126 9299 43
Fax: +49 7126 9299 1
E-Mail: ts@himel.de



Customer service

Werner Bayer
Tel.: +49 7126 9299 58
Fax: +49 7126 9299 1
E-Mail: wb@himel.de



Sales, Export



Olena Kuzmyk
Tel.: +49 7126 9299 36
Fax: +49 7126 9299 1
E-Mail: ok@himel.de



Sales, Export



Claudiu Negrea
Tel.: +49 7126 9299 23
Fax: +49 7126 9299 1
email: cn@himel.de



Sales, Export



Mohamed Chennana
Tel.: +49 7126 9299 42
Fax: +49 7126 9299 1
E-Mail: mc@himel.de



Sales, Export



Michael Hirlinger
Tel.: +49 7126 9299 29
Fax: +49 7126 9299 1
E-Mail: mhi@himel.de



Sales, Export



Alisher Hamraev
Tel.: +49 173 1698368
Fax: +49 7126 9299 1
E-Mail: ok@himel.de



Marketing



Marius Viesel
Tel.: +49 7126 9299 39
Fax: +49 7126 9299 1
E-Mail: mv@himel.de



Accounting



Artur Wetzels-Wojtysiak
Tel.: +49 7126 9299 60
Fax: +49 7126 9299 21
E-Mail: aw@himel.de



www.himel.de



www.facebook.com/himel.maschinen



www.instagram.com/himelmaschinen



info@himel.de

Plant Engineering

Grinding & Mixing Systems

Feed mixers	8
Compact mixer	10
Horizontal mixer	12
Dosing screws	12
Blower mills	14
Grinding mills	16
Grain crushers	18
Weighing computer	20
Pellet mill VP	22
Gross bagging scales	23

Grain Systems

Grain blower	24
Screw conveyors	26
Trough augers	28
Screw conveyor with hopper	29
Pre-cleaner unloading station	30
Overloading augers	31
Chain elevators	32
Bucket elevators	33
Trough chain conveyors	34
Gutters	36
Spiral conveyors	37
Tubular chain conveyors	37
Cleaner	38
Pipe parts Ø150 & special pipe parts	40

6 Storage Systems

Round silos for indoor installation	44
Rectangular storage silos	45
UV material silos	46
Modular silos	48

Outdoor Silos

GRP mixed feed silos	51
Aeration systems	52
TLR aeration blowers	54
Aeration ducts	55
Dryers	56

Feed Mixer Wagons

Milling & feed mixer wagons HX & H	60
Feed mixer wagons V & VV	62
Self-propelled mixer wagons SFV	64

Straw Systems

Straw mill	66
Stationary bale dissolver	68
Mobile bale dissolver RSM	70

Pelletising

Pelleting system proposal	74
---------------------------	----

HIMEL International

75



Zertifikate DIN EN ISO 9001 und 14001

Plant Engineering

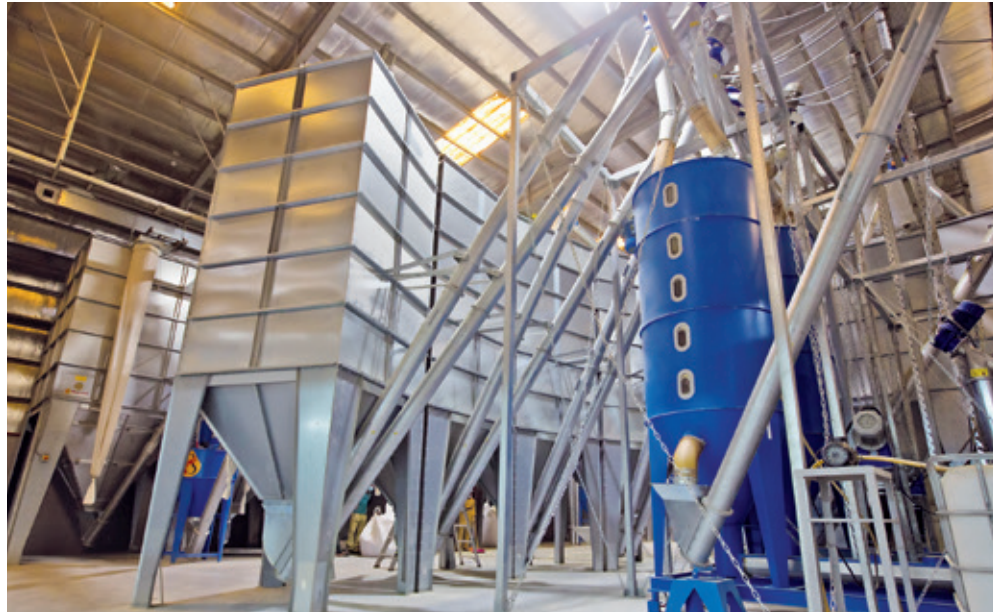
HIMEL supplies the technical requirements for the optimum yield of your farm from a single source. From the grain crusher and grist mill to the high-performance compact mixer through to system solutions.

Enormous performance with convincing economy, high operational reliability, extremely stable design and the expansion options with useful accessories make the large machines from HIMEL the partner of choice for decades to come.

The matching HIMEL weighing computer turns the HIMEL feed mixer into a fully autonomous feed preparation centre.

A complete range from a single source - from individual feed mixers to complete feed preparation systems.

You can rely on HIMEL - it is not for nothing that we are one of the leading suppliers in Europe with well over 1,000 feed mixing systems in Portugal, France, Holland, Luxembourg, Sweden, Iceland, Germany, Switzerland, Austria, the Czech Republic, Slovakia, Hungary, Croatia, Serbia, Albania, Greece, Romania, Lithuania, Latvia, Estonia, Russia, Ukraine, Kazakhstan and Saudi Arabia.





Research has proven it

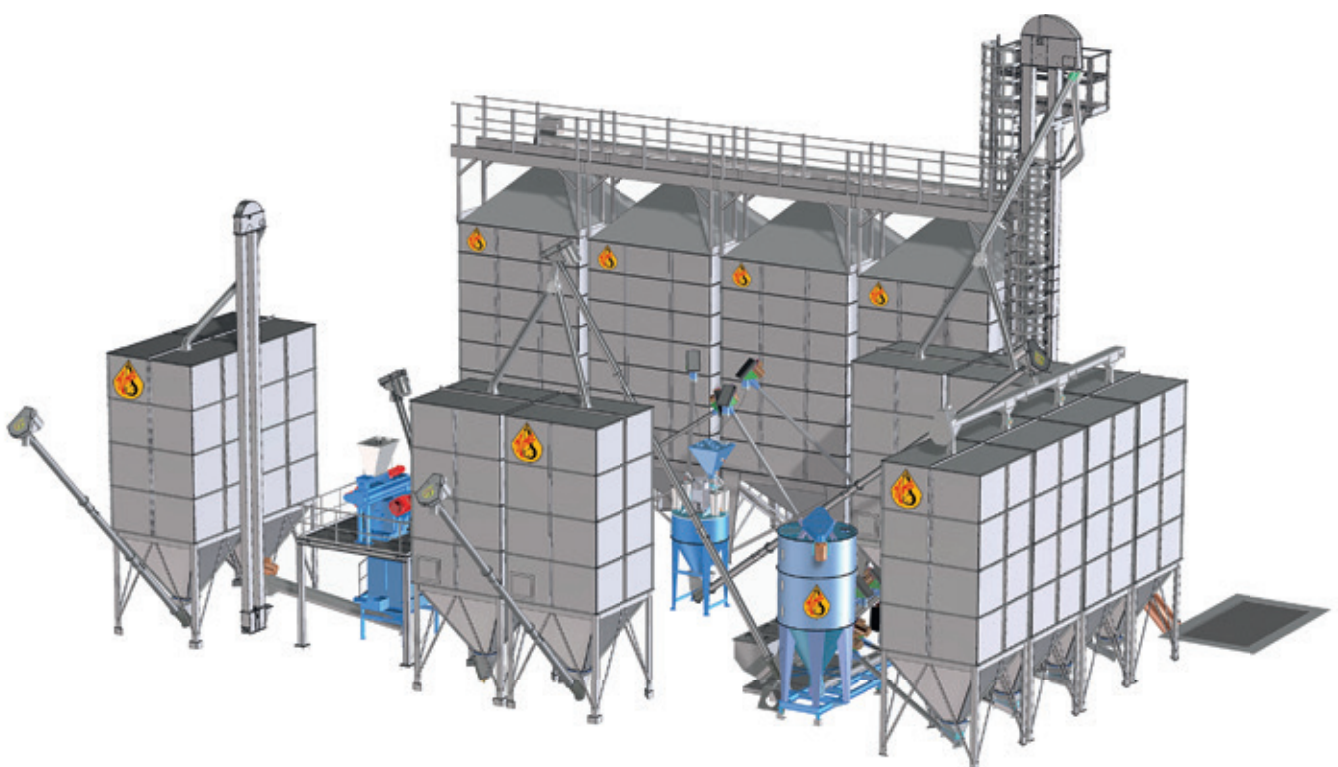
Concentrated feed with a high grain content leads to better performance and lower-risk fattening cycles with lower feeding costs.

The reason for cereals

Grain mixtures are rich in valuable nutrients, tasty and above all easily digestible for your animals.

Another very important plus in favour of the farm's own grain mix: you know exactly what you are feeding and thus ensure the quality of your products from the outset. Especially as grain is only subject to minor fluctuations in ingredients and quality.

Of course, the grain must be properly prepared for sensitive animal stomachs and fed in the correct nutritional dosage.



Fully automatic grinding & mixing system with pelletising and bagging, capacity approx. 2 to/h

Feed Mixer

...mix large masses just as effectively as the small ration for daily feeding due to their oversized auger in the riser pipe with its throwing and agitating blades.

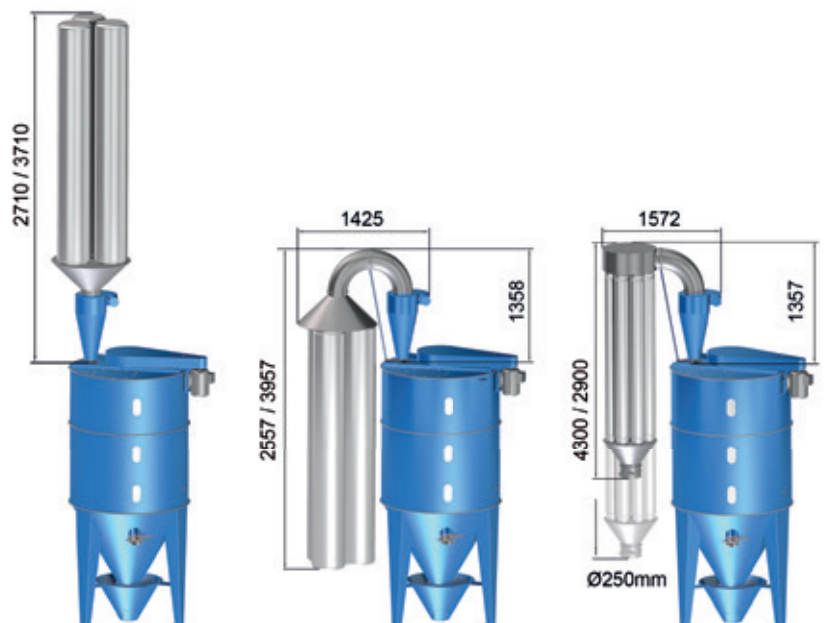
- The heart of every HIMEL feed mixer is the extremely effective forced mixing system system (mixing auger in a sheet steel cylinder) with a mixing accuracy of 1:100000
- The mix slides evenly downwards and is repeatedly conveyed upwards and spread by the encased auger
- The mixing time is 3-15 minutes, depending on the mixer size
- Dosing out takes approx. 10 minutes (depending on the dispenser)
- The filling time depends on the filling units or the crusher and grinder
- Full signalling contact, inspection hatches and viewing window increase operational safety
- Additional components such as minerals are added via the standard mixing hopper or (with electronic control) are automatically dosed into the mixing container made of sheet steel
- The clean separation of the HIMEL filter bags prevents annoying dust waste
- HIMEL feed mixers are manufactured in five versions with a capacity of 800 to 3000 kg and motor outputs of up to 7.5 kW
- The mix can be removed particularly easily via the one-handed emptying with gate valve (Ø150mm)
- Timer, automatic switch-off and night switching devices save you time and maximise your independence



HIMEL Feed Mixer FM 180



HIMEL feed mixer with blower mill



Dimensional sketch of air separator

Feed mixer

Order no.	Article description	excl. VAT	incl. VAT
0000001	Feed mixer FM 60 800 kg, approx. 1500 l, 2.2 kW drive	5.823,00	6.929,37
0000002	Feed mixer FM120 1400 kg, approx. 2350 l, 4.0 kW drive	6.616,00	7.873,04
0000003	Feed mixer FM180 1800 kg, approx. 3170 litres, 5.5 kW drive	7.550,00	8.984,50
0000004	Feed mixer FM250 2500 kg, approx. 4000 litres, 5.5 kW drive	9.917,00	11.801,23
0001940	Feed mixer FM300 3000 kg, approx. 4820 litres, 7.5 kW drive	12.478,00	14.848,82
0003556	Feed mixer FMK500 5000 kg, approx. 8000 litres, 7.5 kW drive	15.200,00	18.088,00

Accessories

Order no.	Article description	excl. VAT	incl. VAT
1100048	Mixing hopper at ground level with extended auger	588,00	699,72
0001621	Outlet Ø150mm offset by 120°, additional	648,00	771,12
1100049	Split version FM 60 - 300	558,00	664,02
1100454	Soya oil feed, hose connection 3/4"	98,00	116,62
1400011	Movable hose piece Ø150mm l=0.4m f.B.	48,00	57,12
1400037	Movable hose piece Ø3" l=0.4m f.B.	26,00	30,94
1400013	Movable hose piece Ø120mm l=0.4m f.B.	33,00	39,27
1100707	Bracket suitable for height-adjustable level indicator	97,00	115,43

Air separator

Order no.	Article description	excl. VAT	incl. VAT
1100496	Flour cyclone Ø3" for GMS 101 - 201	578,00	687,82
1100046	Flour cyclone Ø120mm for GMS251 - 501	578,00	687,82
1100534	Holder for flour cyclone (support)	261,00	310,59
1100165	Air separator with 3 filters upwards Filter area = 11.6m²	452,00	537,88
1100166	Air separator with 3 filters downwards Filter area = 11.6m²	731,00	869,89
1100047	Air separator with 9 filters downwards Filter area = 9.9m²	1.475,00	1.755,25
1100167	Air separator with 9 filters downwards Filter area = 14.9m²	1.598,00	1.901,62
1100463	Air separator with one additional filter	124,00	147,56

Soya oil pump

Order no.	Article description	excl. VAT	incl. VAT
0001588	Soya oil pump 400V 0.75 kW	533,00	634,27
3001253	PVC delivery hose 3/4" running metre	10,00	11,90



HIMEL soya oil pump

Dimensions in m	FM60	FM120	FM180	FM250	FM300	FM500
Height in mm	2400	2900	3400	3900	4400	3900



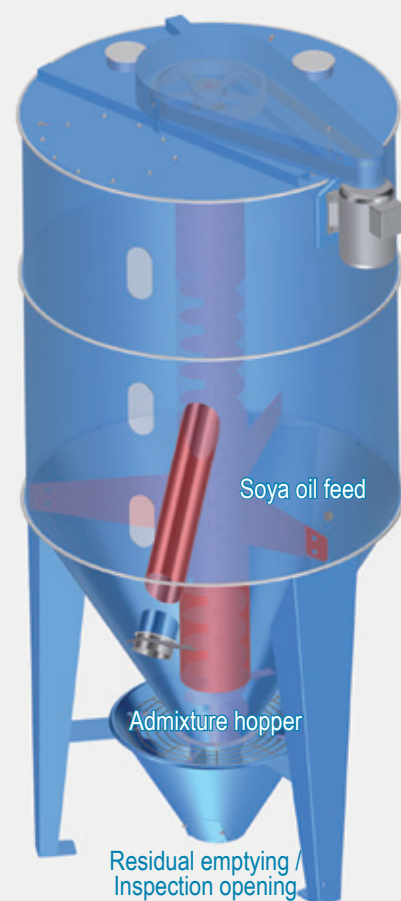
Dimensional sketch FM60 - FM500

Basic equipment

- High mixing accuracy thanks to forced mixing system with central pipe and vertical auger
- Fast mixing (approx. 3-15 min)
- High hourly output
- Smooth running thanks to 1500 min-1 electric motor and V-belt drive with safety guard
- Screw speed approx. 320 min-1
- Fill level check via large viewing window
- Easy emptying via outlet Ø150mm with shut-off valve
- Convenient addition of components via large mixing funnel
- Weighing technology can be easily installed
- Robust mixing hopper with large mixing screw, agitator blade and ejector
- Without soya oil feed pipe
- Without motor protection switch Inspection hatch in the cover
- 1 inlet Ø150mm f.B.
- Modular system, can be upgraded to a fully automatic grinding & mixing system

Accessories

- HIMEL soya oil pump for connection to any feed mixer. Self-priming with 0.75 kW electric motor, suction filter and non-return valve, it delivers up to 30 litres/min and ensures extremely fine dosing.
- Flour cyclone with outlet Ø150mm f.B.
- Air separator Ø250mm with 3 or 9 filter bags.



Compact Mixers

...are also worthwhile for small and medium-sized stocks. The smallest mixtures can be prepared and weighed via the admixture hopper.

- Forced mixing system with powerful electric motor
- The favourable purchase price and low operating costs make the use of this HIMEL compact mixer worthwhile
- And because it rolls through any barn door and into any space on four wheels, it can be used almost anywhere. (FM series)
- Timer and circuit breaker save the farmer valuable working time, mixing is done on the side
- HIMEL compact mixers are available with a capacity of 560 kg to 3000 kg and a motor power of up to 7.5 kW
- Together with the HIMEL grain crusher or a HIMEL grist mill, you have a powerful and economical grinding and mixing system at your disposal
- On request, a HIMEL weighing computer with three or four load cells determines the dosage down to the gram. This turns the HIMEL compact mixer into a fully automatic grinding and mixing system.



HIMEL FM851 feed mixer with SC grind mill



HIMEL grinding-mixing plant, feed mixer FMK 180 with SC mill



HIMEL FMK with grind mill and grain crusher

Compact mixer

Order no.	Article description	excl. VAT	incl. VAT
0000033	Compact mixer FM 550 560 kg 2.2 kW drive and switch	5.863,00	6.976,97
0000026	Compact mixer FM 851 850 kg 2.2 kW drive and switch	6.435,00	7.657,65
0000035	Compact mixer FM1050 1050 kg 3.0 kW drive and switch	7.309,00	8.697,71

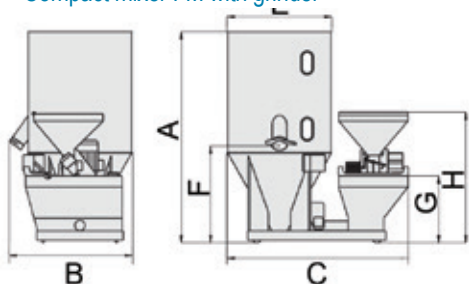
Compact mixer complete with grinder

Order no.	Article description	excl. VAT	incl. VAT
	Compact mixer FM 550 560 kg and 2.2 kW drive with Grind mill SC 75 5.5 kW and round perforated sieve	9.092,00	10.819,48
	Compact mixer FM 851 850 kg and 2.2 kW drive with Grind mill SC 100 7.5 kW and round perforated sieve	9.838,00	11.707,22
	Compact mixer FM 1050 1050 kg and 3.0 kW drive with Grind mill SC 100 7.5 kW and round perforated sieve	10.710,00	12.744,90
0000010	Compact mixer FMK 120 1400 kg approx. 2350 l 4.0 kW drive with Grind mill SC 100, 7.5 kW and round perforated sieve	13.859,00	16.492,21
0000016	Compact mixer FMK 180 1800 kg approx. 3170 litres 5.5 kW drive with Grind mill SC 100, 7.5 kW and round perforated sieve	15.105,00	17.974,95
0000064	Compact mixer FMK 250 2500 kg approx. 4000 l 5.5 kW drive with Grind mill SC 100, 7.5 kW and round perforated sieve	17.770,00	21.146,30
0000070	Compact mixer FMK 300 3000 kg approx. 4820 litres 7.5 kW drive with Grind mill SC 150, 11.0 kW and round perforated sieve	21.638,00	25.749,22

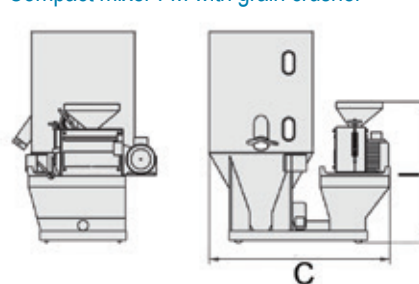
Grind mill

Order no.	Article description	excl. VAT	incl. VAT
0000097	Grind mill SC 75G 5.5 kW drive	3.158,00	3.758,02
0000098	Grind mill SC100G 7.5 kW drive	3.331,00	3.963,89
0000099	Grind mill SC150G 11.0 kW drive	4.320,00	5.140,80
1100009	Round hole sieve SC/HS 75-150; GMS 101-201 2.0 mm	70,00	83,30
1100011	Round perforated screen SC/HS 75-150; GMS 101-201 3.0mm	70,00	83,30
1100013	Round hole sieve SC/HS 75-150; GMS 101-201 4.0mm	70,00	83,30
1100014	Round hole sieve SC/HS 75-150; GMS 101-201 5.0mm	70,00	83,30
1100015	Round hole sieve SC/HS 75-150; GMS 101-201 6.0mm	70,00	83,30
1100024	Wire sieve SC/HS 75-150; GMS 101-201 2.5mm	151,00	179,69
1100025	Wire sieve SC/HS 75-150; GMS 101-201 3.3mm	151,00	179,69
1100027	Wire sieve SC/HS 75-150; GMS 101-201 3.8mm	151,00	179,69
1100026	Wire sieve SC/HS 75-150; GMS 101-201 4.4mm	151,00	179,69
0000092	Automatic limit stop without inlet interlock	331,00	393,89
1100681	Electromagnetic feed interlock for SC/HS grinder	602,00	716,38

Compact mixer FM with grinder



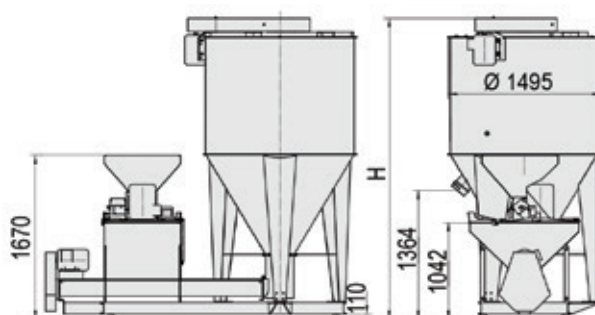
Compact mixer FM with grain crusher



Dimensions in m	A	B	C	E	F	G	H	I
FM 550	1,90	1,34	1,97	1,16	1,05	0,7	1,41	1,52
FM 851	2,30	1,34	1,97	1,16	1,05	0,7	1,41	1,52
FM 1050	2,60	1,34	1,97	1,16	1,05	0,7	1,41	1,52

Compact mixer FMK

Height in mm	H
FMK 120	3125
FMK 180	3625
FMK 250	4125
FMK 300	4625



Compact mixer FMK

Basic equipment FM

FM550 - FM1050

- Compact feed mixer with large mixing hopper (forced mixing)
- Drive via electric motor 1500min-1
- Outlet Ø150mm with shut-off valve
- Central pipe with vertical auger and cross auger
- Stable mixing hopper with large filling opening opening
- Chassis with 4 rollers
- Prepared for the installation of mills or grain crushers
- Can be upgraded for fully automatic weighing
- With motor protection switch and plug-in device, timer and horn

Basic equipment FMK

- Compact HIMEL feed mixer for high outputs and a capacity of up to 5000 kg (HIMEL forced mixing system with central pipe)
- Robust frame
- Prepared for weighing system with 4 precision load cells
- Complete with side feeder auger and side drive screw conveyor and side drive
- With all the advantages of the HIMEL feed mixers
- FM60-300 series
- For the installation of various mills, grain crushers, hoppers, inlets, component augers
- component augers or filter systems
- Can be upgraded to a fully automatic grinding & mixing plant
- Without switch
- With mixing hopper

Structure for SC, HS grinder or GQ grain crusher, see basic equipment for individual appliance.

Basic equipment for SC Grinder

- Prepared for mounting on compact mixer, inclined or horizontal mixer
- Mills with load-dependent control automatically adjust to different flow characteristics of the grain crops and ensure 100% utilisation of the appliances
- Direct drive via electric motor 3000min-1, 400V
- Large feed hopper with approx. 80 litres
- Chopping knife can be used 4 times
- With motor protection switch
- With lifting cylinder for easy sieve change

SC grinder	75	100	150
kg/h	700	750	800
from - to	1100	500	2000
Capacity with grain 14% moisture and 4 mm sieve.			

Horizontal Mixers

...are ideal for particularly gentle mixing. The compact design with stable feet and the easy-to-handle structure speak for themselves.

- The counter-rotating mixing spirals ensure effective mixing, resulting in very short mixing times of approx. 4 min / batch
- The output ranges from 1.5 tonnes/h to 10 tonnes/h and the emptying time is around 5 minutes
- The dosing of liquids is very simple
- The HOM ensures the mixing of CCM maize, wet grain, pellets or mixing with an oil or fat content of up to approx. 10%
- The large mixing auger is driven by a powerful electric geared motor
- Prepared for the attachment of a HIMEL grist mill or a grain crusher with weighing technology, as well as for connection to other HIMEL conveying units

Dosing Augers

...are used for conveying mineral feed components to the mixing plant. All parts in contact with the product are made of stainless steel.

The low speed of the HIMEL dosing auger makes it ideal for adding precise quantities to the mixing ration.

The standard starter auger in the inlet area prevents the auger from blocking with poorly flowing products.



Horizontal mixer with geared motor



HIMEL horizontal mixer completely in stainless steel with HIMEL dosing screw



Horizontal mixer

Horizontal mixer

Order no.	Article description	excl. VAT	incl. VAT
0002088	Horizontal mixer HOM 3 300 kg approx. 607 l 2.2kW drive	7.965,00	9.478,35
0002090	Horizontal mixer HOM 5 500 kg approx. 1056 l 4,0kW drive	10.836,00	12.894,84
0002092	Horizontal mixer HOM10 1000 kg approx. 2080 litres 9.2kW drive	23.322,00	27.753,18
0002278	Horizontal mixer HOM20 2000 kg approx. 4000 l 18,5kW drive	32.725,00	38.942,75
0002093	1 set of extension feet (l=500mm)	738,00	878,22
0002395	Pneumatic slide valve with solenoid valve	2.231,00	2.654,89
	Inlet hopper for HOM mixer	224,00	266,56
	Door safety switch	178,00	211,82

Dosing auger

Order no.	Article description	excl. VAT	incl. VAT
0001007	Dosing auger Ø102 1.0m 0.75kW 400V	2.556,00	3.041,64
0001008	Dosing auger Ø102 2.0m 0.75kW 400V	2.712,00	3.227,28
0001009	Dosing auger Ø102 3.0m 0.75kW 400V	3.134,00	3.729,46
0001010	Dosing auger Ø102 4.0m 1,5kW 400V	4.007,00	4.768,33
0001011	Dosing auger Ø102 5.0m 1,5kW 400V	4.430,00	5.271,70
0001012	Dosing auger Ø102 6.0m 1.5kW 400V	4.852,00	5.773,88
0001001	Support foot for Dosing auger Ø102	189,00	224,91
0001002	Stainless steel inlet funnel 45° for Dosing auger Ø102, incl. cover	1.176,00	1.399,44
1200867	Stainless steel inlet funnel round Ø450mm for Dosing auger Ø102	561,00	667,59
1200865	Transition FS102 to screw hopper	214,00	254,66
0001109	Tear bar, insert for hopper	287,00	341,53

Basic equipment

- High mixing accuracy thanks to counterflow mixer
- Compact design with stable feet
- Driven by gear motor
- Lid can be easily unscrewed
- Prepared for the installation of HIMEL SC mills or grain crushers
- On request 2 additional openings Ø150mm for the installation of hoppers or dosing units
- Outlet slide approx. 200 x 400mm for mounting the HIMEL screw conveyor
- Control via motor protection switch or HIMEL control cabinet
- Prepared for the attachment of 4 load cells
- Short mixing times (approx. 4 min per batch)
- High number of batches per hour (approx. 5-7 mixtures per hour)
- Emptying time approx. 5 min
- Mixing accuracy 1 : 100,000
- Simple dosing of liquids, e.g. Fat up to 10%
- Also available in stainless steel on request
- More powerful motors for mineral mixtures on request.

Dosing Augers

- Direct drive via worm gear motor
 - Standard speed 28/min-1 or 70/min-1 on request
 - Outlet Ø150 f.B Inlet opening 100x250mm
 - Starter screw (reduced initial winding)
 - Capacity at 0°= 0.44 m³/h
 - Capacity at 45°= 0.33 m³/h
 - Without inlet hopper
 - Without holding foot
- Other capacities/speeds on request

Inlet hopper:

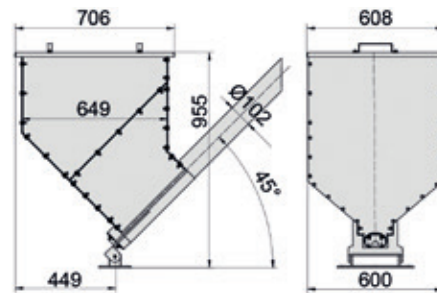
- Inlet hopper with 45° incline
- In V2A stainless steel
- Volume approx. 188 litres

Inlet funnel round:

- Ø450mm
- In V2A stainless steel
- For direct filling, e.g. via BigBag

Transition to auger hopper

- Transition for screw conveyor inlet parts
- Various gradients possible
- Inlet parts see chapter Screw conveyors



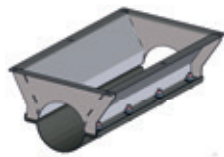
Dosing screw with 45° feed hopper



Feed hopper



Tear bar

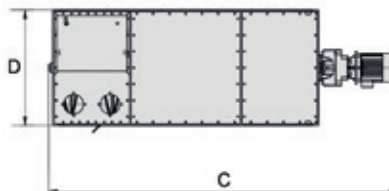
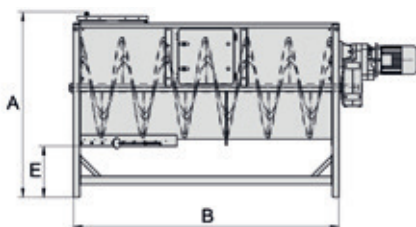
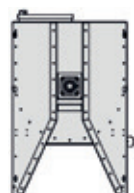


Hopper transition



Inlet hopper round

		HOM 3	HOM 5	HOM 10	HOM 20
Output	to/h	1,50	2,50	5,00	8,00
A Total height	approx. m	1,43	1,43	1,79	2,30
B Total length	approx. m	1,99	2,70	2,54	2,90
C Length without motor	approx. m	1,40	2,04	2,26	2,74
D Total width	approx. m	0,88	0,88	1,35	1,55
E Outlet height	approx. m	0,39	0,39	0,41	0,41
Width w. mill	approx. m	0,98	0,98	1,32	1,55
Height w. mill	approx. m	1,70	1,70	2,67	3,20
Own weight	approx. kg	280	400	650	900



Starter screw

Blower Mills

Animals prefer crushed grain. Vitamins, fats and vegetable proteins can be best utilised by the animals in this way.

HIMEL blower mills guarantee uniform grinding with motor outputs of 7.5 - 37 kW. The feed rate regulation ensures 100% motor utilisation without the risk of overloading and automatically adjusts to different types of grain.

- The GMS blower mill series conveys ground grain meal up to 60 metres in a gentle air stream. Ground material is sucked in from a long distance via manually operated or motorised suction valves, a suction feeder with hopper or via a movable suction feeder.
- The HIMEL GMS is particularly suitable for use in mixing plants and computercontrolled grinding & mixing systems, but also for stand-alone operation.
- The HIMEL blower mill conveys mixes up to a quantity of 3000kg/h via a pipe into every HIMEL feed mixer



Blower mill GMS



3D CAD construction drawing GMS



Suction valve with motor



Suction feeder with funnel



Movable suction feeder

Blower mill

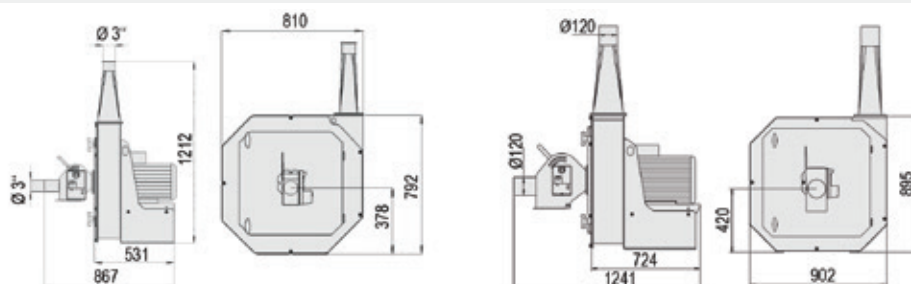
Order no.	Article description	excl. VAT	incl. VAT
0000117	Blower mill GMS 101 7.5kW	4.364,00	5.193,16
0000118	Blower mill GMS 151 11,0kW	4.507,00	5.363,33
0000119	Blower mill GMS 201 15,0kW	4.890,00	5.819,10
4500039	Star-delta switch 7.5kW with ammeter	442,00	525,98
4500040	Star-delta switch 11.0 - 15.0kW with ammeter	488,00	580,72
0000175	Switch attachment	54,00	64,26
0000092	Automatic limit switch without inlet interlock	331,00	393,89
1100491	Suction feeder Ø3" with funnel 300x300 mm	315,00	374,85
1100492	Movable suction feeder Ø3" l=1.0m	263,00	312,97
1100493	Movable suction feeder Ø3" l=2.0m	315,00	374,85
1100494	Motorised suction valve Ø3" 1x45° l=0.34m 220 V	504,00	599,76
1100495	Manually operated suction valve Ø3" 1x45° l=0.34m	321,00	381,99
1100009	Round perforated sieve SC/HS 75-150; GMS 101-201 2.0mm	70,00	83,30
1100011	Round hole sieve SC/HS 75-150; GMS 101-201 3.0mm	70,00	83,30
1100013	Round hole sieve SC/HS 75-150; GMS 101-201 4.0mm	70,00	83,30
1100014	Round hole sieve SC/HS 75-150; GMS 101-201 5.0mm	70,00	83,30
1100015	Round hole sieve SC/HS 75-150; GMS 101-201 6.0mm	70,00	83,30
1100024	Wire sieve SC/HS 75-150; GMS 101-201 2.5mm	151,00	179,69
1100025	Wire sieve SC/HS 75-150; GMS 101-201 3.3mm	151,00	179,69
1100272	Wire sieve SC/HS 75-150; GMS 101-201 3.8mm	151,00	179,69
1100026	Wire sieve SC/HS 75-150; GMS 101-201 4.4mm	151,00	179,69
2000057	Knife HS/SK/SC/GMS hardened	10,00	11,90
0000120	Blower mill GMS 251 18,5kW	7.863,00	9.356,97
0000121	Blower mill GMS 301 22,0kW	9.104,00	10.833,76
0000122	Blower mill GMS 401 30,0kW	10.700,00	12.733,00
0000123	Blower mill GMS 501 37,0kW	12.434,00	14.796,46
1100057	Suction feeder Ø120mm with hopper 300x300mm	432,00	514,08
1100135	Movable suction feeder Ø120mm l=2,0m	476,00	566,44
1100133	Motorised suction valve Ø120mm 1x45° l=0.6m 230 V	585,00	696,15
1100134	Manually operated suction valve Ø120mm 1x45° l=0.6m	437,00	520,03
1100017	Round hole sieve SC/HS 250-400; GMS 251-501 2.0mm	124,00	147,56
1100019	Round hole sieve SC/HS 250-400; GMS 251-501 3.0mm	124,00	147,56
1100021	Round hole sieve SC/HS 250-400; GMS 251-501 4.0mm	124,00	147,56
1100022	Round hole sieve SC/HS 250-400; GMS 251-501 5.0mm	124,00	147,56
1100023	Round hole sieve SC/HS 250-400; GMS 251-501 6.0mm	124,00	147,56
2000841	Industry - Mill beaters per piece	23,00	27,37

Pipe parts

Order no.	Article description	excl. VAT	incl. VAT
3001978	Pipe Ø3" per running metre, s=2.0 mm	21,00	24,99
3001963	Bend Ø3" 90° r=205 mm s=3.2 mm	40,00	47,60
1400036	Connecting sleeve 3" with clamping straps	14,00	16,66
3001966	Spiral hose Ø3" per metre PUR reinforced	45,00	53,55
3001238	Clamping straps Ø3" (extra)	1,00	1,19
3002404	Pipe clamp 3" for wall mounting galvanised	40,00	47,60
3000118	Pipe Ø120 mm per running metre, s=1 mm	13,00	15,47
3000122	Bend Ø120 mm 90° s=2 mm r=350 mm	31,00	36,89
3000402	Spiral hose Ø120 mm per running metre PUR reinforced	45,00	53,55
1400004	Connecting sleeve Ø120 mm with tensioning straps	21,00	24,99

Technical data GMS	101	151	201	251	301	401	501
Motor power (kW)	7,5	11,0	15,0	18,5	22,0	30,0	37,0
Performance from (kg)	450	650	800	1400	1900	2200	2500
to (kg)	750	1100	1500	2000	2500	3000	3600
Recommended filter area (m²)	6,0	8,0	10,0	12,0	14,0	15,0	16,0

The performance values depend on the moisture and size of the material to be ground, the sieve insert and the suction and pressure length



Basic equipment

- Direct drive via electric motor 3000min-1, 400V for maximum performance
- Sturdy sheet steel housing with front door for easy screen change
- Intake connection Ø3" (Ø120mm) with stepless power loose power regulation (slide valve)
- Foreign object separator with magnet
- Prepared for mounting a load-dependent inlet flow regulation for automatic slide adjustment and overload protection
- Fan blade made of Hardox steel up to 60m Conveying distance
- Screwed outlet connection Ø3"/ Ø120mm
- Impact blade can be used 4 times With safety circuit
- Without motor protection switch and without sieve

Motorised suction valve:

- Hinged box 1x 45° with plug-in axle and 230V servomotor (open/close switchover)
- Can be used optionally (left or right branch)

Manually operated suction valve:

- Like motorised suction valve, with manual control instead of servomotor

Suction feed device with funnel:

- Suction device for silos with hopper substructure. With air regulation flap and foreign matter separator

Additional wear insert from GMS 251

- 5mm thick wear insert as standard
- Hardox impact knife as standard
- Hardox fan plates as standard
- Up to 10 times the service life

Please specify suction and discharge width when ordering

For conveying distances of up to 60m different blades can be used.

- Pipe parts Ø3" (88.9mm) for GMS101-201
- Pipe parts Ø120mm for GMS251-501
- Galvanised pipe parts without connecting sleeve
- Pipes are supplied in lengths of up to 6 metres
- 90° bends can be cut to the corresponding radius as required

Explanation of symbols for pipe parts
l = length, r = radius, s = material thickness
PUR = polyurethane

Grind Mills

Animals prefer crushed grain. Vitamins, fats and vegetable proteins can be best digested by the animals in this way. HIMEL grind mills guarantee smooth grinding with motor outputs of 5.5 - 55 kW. The feed quantity regulation guarantees one hundred per cent motor utilisation without the risk of overloading and automatically adjusts to different types of grain.

- The HS series is ideal for mill construction where high outputs of up to 10 tonnes/h are required
- The SC series is ideal for combination with the HIMEL compact mixer
- The SK series box mill with large 560 litre hopper



HS 250 - 750 with auger discharge box



Grind mill in compact design



Grind mill with box SK 75 - 100



Schrotmühle

Knife industry



Knife



Wire sieve



Round hole sieve

High-performance grind mill

Order no.	Article description	excl. VAT	incl. VAT
0000113	High-performance Grind mill HS 75 5.5kW	4.024,00	4.788,56
0000114	High-performance Grind mill HS 100 7.5kW	4.452,00	5.297,88
0000115	High-performance Grind mill HS 150 11.0kW	5.372,00	6.392,68
0000108	High-performance Grind mill HS 250 18.5kW	9.576,00	11.395,44
0000109	High-performance Grind mill HS 300 22.0kW	10.068,00	11.980,92
0000110	High-performance Grind mill HS 400 30.0kW	11.160,00	13.280,40
0000111	High-performance Grind mill HS 500 37.0kW	12.343,00	14.688,17
0001939	High-performance Grind mill HS 750 55.0kW	15.681,00	18.660,39
1100526	Feed hopper for HS Grind mill	452,00	537,88
1100681	Electromagnetic feed interlock for SC/HS Grind mill	602,00	716,38
0000094	Grind mill SK75G 5.5kW drive (400 - 700kg/h)	4.007,00	4.768,33
0000095	Grind mill SK100G 7.5kW drive (600 - 1100kg/h)	4.183,00	4.977,77
0003425	Wet corn mill 150 V2A, 11.0kW with stainless steel hopper base	7.270,90	8.652,37

Accessories

Order no.	Article description	excl. VAT	incl. VAT
1100009	Round hole sieve SC/SK/HS 75-150; GMS 101-201 2.0mm	70,00	83,30
1100011	Round hole sieve SC/SK/HS 75-150; GMS 101-201 3.0mm	70,00	83,30
1100013	Round hole sieve SC/SK/HS 75-150; GMS 101-201 4.0mm	70,00	83,30
1100014	Round hole sieve SC/SK/HS 75-150; GMS 101-201 5.0mm	70,00	83,30
1100015	Round hole sieve SC/SK/HS 75-150; GMS 101-201 6.0mm	70,00	83,30
1100024	Wire sieve SC/SK/HS 75-150; GMS 101-201 2.5mm	151,00	179,69
1100025	Wire sieve SC/SK/HS 75-150; GMS 101-201 3.3mm	151,00	179,69
1100272	Wire sieve SC/SK/HS 75-150; GMS 101-201 3.8mm	151,00	179,69
1100026	Wire sieve SC/SK/HS 75-150; GMS 101-201 4.4mm	151,00	179,69
1100017	Round hole sieve SC/HS 250-400; GMS 251-501 2.0mm	124,00	147,56
1100019	Round hole sieve SC/HS 250-400; GMS 251-501 3.0mm	124,00	147,56
1100021	Round hole sieve SC/HS 250-400; GMS 251-501 4.0mm	124,00	147,56
1100022	Round hole sieve SC/HS 250-400; GMS 251-501 5.0mm	124,00	147,56
1100023	Round hole sieve SC/HS 250-400; GMS 251-501 6.0mm	124,00	147,56
1100674	Round hole sieve HS500-750 3.0mm	239,00	284,41
1100675	Round hole sieve HS500-750 4.0mm	239,00	284,41
1100642	Round hole sieve HS500-750 5.0mm	239,00	284,41
1100655	Round hole sieve HS500-750 6.0mm	239,00	284,41
1100720	Round hole sieve HS500-750 8.0mm	239,00	284,41
1100764	Round hole sieve HS500-750 10.0mm, reinforced sieve thickness 5mm	239,00	284,41
1100765	Round hole sieve HS500-750 12.0mm, reinforced sieve thickness 5mm	239,00	284,41
2000057	Impact knives HS/SK/SC/GMS hardened	10,00	11,90
2000841	Industrial impact knives made of highly wear-resistant steel	23,00	27,37
	Extension feet for wet corn mill	744,00	885,36

Basic equipment

- HS grinder mounted on a stable hopper with opening for easy sieve change
- Direct drive via electric motor 3000min-1, (400V) for maximum performance
- Prepared for installation of a load-dependent feed rate control with automatic slide adjustment and overload protection
- HS grinder 75 - 150 with load-dependent control by servomotor/rotary field magnet as standard
- Grinders with load-dependent control automatically adjust to different flow properties of the grain crops and ensure 100% utilisation of the devices
- Foreign matter separator with magnet
- Cleaning flap for foreign body separator
- Outlet Ø350mm
- HS grinder, without auger discharge box, without sieve, without inlet hopper, without switch and without safety cut-out
- 4-fold reversible cutting knives
- HS grinder 75 - 150 with tilting device, with feed hopper
- HS grinder 200 - 750 without tilting device, without feed hopper
- HS250-HS750 prepared for the attachment of a load-dependent inlet volume control with automatic slide adjustment and overload protection
- SK box-type grinder with motor protection switch, load-dependent regulation, 560 litre storage container, 2 air filters, lifting cylinder for easy sieve change, 80 litre feed hopper, without sieve

Recommendation:

Flour transport with 150F screw conveyor for smooth operation

Round perforated sieve HS75-150 Ø525mm h=110mm

Round perforated sieve HS250-400 Ø525mm h=145mm

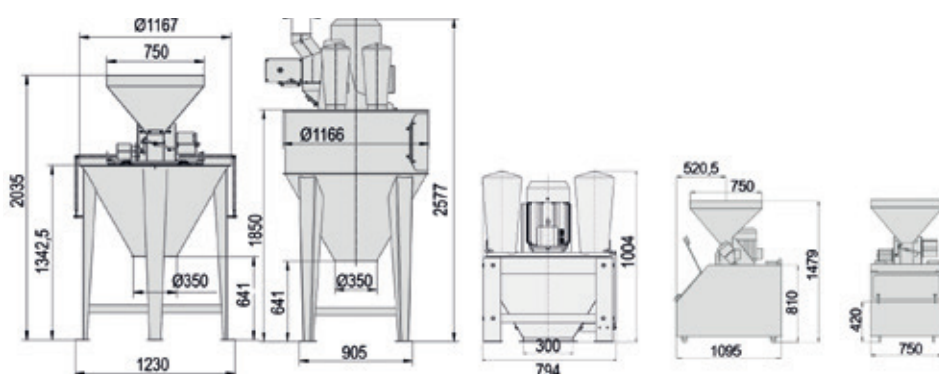
Round perforated sieve HS500-750 Ø600mm h=200mm

Wet Corn Mill

- Direct drive via 11.0kW electric motor, 3000min-1, 400V
- Large inlet Ø150
- Industrial knives made from Hardox
- With motor protection switch
- With lifting cylinder for easy sieve change
- Large ventilation
- Stainless steel discharge funnel
- Safety circuit

Technical data HS	75	100	150	250	300	400	500	750
Motor power (kW)	5,5	7,5	11,0	18,5	22,0	30,0	37,0	55,0
Performance from (kg)	750	900	1000	1100	2000	2500	2800	4000
to (kg)	1500	2000	2400	2800	3200	4000	4500	6000

The performance values depend on the moisture and size of the material to be ground and the sieve insert.



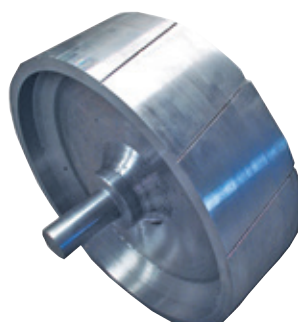
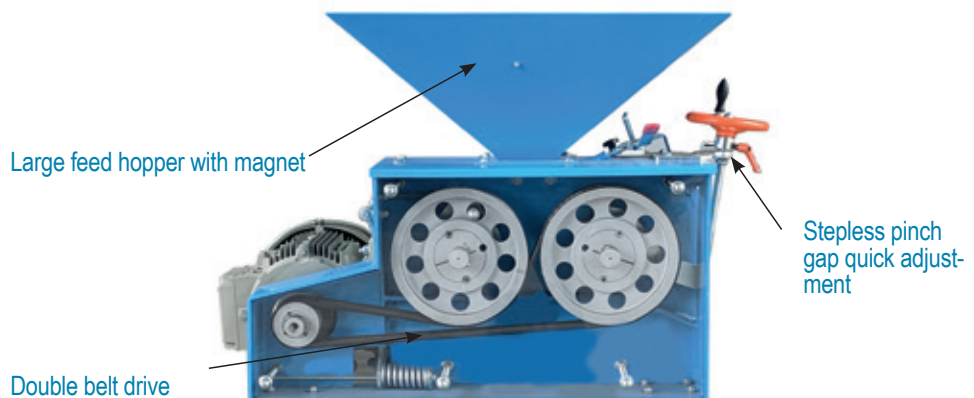
Grain Crushers

...transform hard grain into easily digestible crushed material with a large surface area, which provides smooth and efficient use of the bowel. This allows you to significantly increase the milk and meat yield of your farm.

- With electric motors from 3.0 to 15 kW, HIMEL grain crushers process up to 3600 kg of crushed material per hour. They consume significantly less energy (max. energy saving 50%) than conventional grain mills
- Extremely simple operation thanks to the infinitely variable volume control for optimum performance adjustment and handwheel adjustment for coarse or fine crushed material
- Hardened cast iron rollers process hard crushed material with the synchronised drive to produce high-capacity chucks
- Large bearings and magnetic separators guarantee a long service life and very smooth operation
- Various automatic start and stop functions or a weighing computer round off the programme programme
- When feeding crushed grain, the feed quantity is reduced by up to 25% with the same feeding result compared to uncrushed grain. This results in significantly lower feeding costs and no need to buy in expensive feed
- The grain husk is broken up and is therefore easier to digest
- Crushed feed can be prepared fresh and therefore does not lose any of the vitamins and nutrients contained in the grain
- Stimulation of saliva production to support the limited gastric juices; this improves the animal's well-being
- Crushed grain retains its loose structure in the rumen, i.e. no lumps form
- The important crude fibre components are not destroyed and can be absorbed by the animal
- Digestion is much slower and therefore more homogenous
- Grain crushed material is coarsely flaked, the rumen microbes work in a more targeted manner and this results in a lower pH value fluctuation
- The breathing openings of the animals do not become dusty and sticky. The animal eats better!
- Young animals can start to be fed earlier
- Better development of the stomach



Grain crusher GQ 55 Twin 2x5,5KW



Hardened crush roller smooth



Hardened fluted crimping roller

Grain crusher

Order no.	Article description	excl. VAT	incl. VAT
0001883	Grain crusher GQ 24 4.0kW with base frame and switch	5.412,00	6.440,28
0001884	Grain crusher GQ 25 5.5kW with base frame and switch	5.809,00	6.912,71
0001885	Grain crusher GQ 26 7.5kW with base frame and switch	6.239,00	7.424,41
0002491	Grain crusher GQ 55 Twin 2x5,5kW with switch	10.730,00	12.768,70
0000020	Grain crusher GQ 75 Twin 2x7,5kW with switch	12.073,00	14.366,87

Accessories

Order no.	Article description	excl. VAT	incl. VAT
2200203	Outlet flange 300 x 300mm for spiral connection	146,00	173,74
2201797	Adapter plate series GQ 24-25	64,00	76,16
3001895	Transition 400x150mm to outlet Ø150mm f.B.	139,00	165,41
1100002	Wall mount bracket GQ 24-25	224,00	266,56
	Base frame (reduced price)	-207,00	-246,33
	Motor protection switch (reduced price)	-361,00	-429,59
0000092	Automatic limit switch without interlock	331,00	393,89
1100680	Base frame for grain crusher series Twin	753,00	896,07
1100695	Adapter plate GQ Twin to hopper 410x440mm	280,00	333,20

Basic equipment

GQ 24 - 75:

- Grain crusher with electric motor drive via double V-belts for maximum performance
- Hardened special crushing rollers for a long service life
- Flaky crushed material due to synchronised drive
- Stepless quick spindle adjustment of the crushing gap for different types of grain grain types and extremely simple operation
- Infinitely variable volume control for optimum capacity utilisation
- Strong magnet for foreign body separation (Ø50mm)
- Sturdy shafts and bearings, smooth running for highest demands
- Large roller diameter for maximum performance, even with peas, maize and beans
- GQ24-26 prepared for mounting on compact mixer
- With motor protection switch and ampere-meter
- GQ24-26 with base frame
- GQ55-75 without base frame

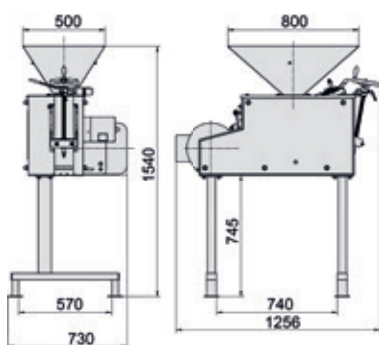
Roller diameter and width: Ø312mm / 110mm

All grain crushers can be integrated into fully automatic feed mixing systems.

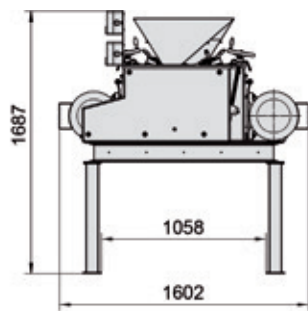
Technical data GQ

	24	25	26	55	75
Motor power (kW)	4,0	5,5	7,5	11,0	15,0
Power from (kg)	650	800	900	1800	2000
to (kg)	1600	2000	2200	3200	3600

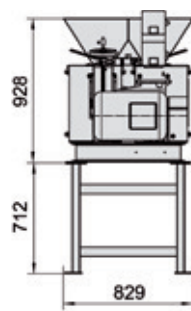
The productivity values depend on the moisture and size of the material to be squeezed as well as the setting of the squeezing gap.



GQ 24 - 26



GQ 55 and 75 Twin



GQ 24S



Weighing computers WDC

... or weighing electronics are the most most trustworthy feed masters an entrepreneur could wish for. Once programmed, they mix up to 40 mixtures of up to 30 components completely independently.

- HIMEL weighing computers guarantee the best performance feed with the most economical use of feed and energy
- HIMEL weighing computers issue precise commands in fractions of a second
- All work processes are documented and monitored by the computer in real time
- Freely programmable
- With real-time clock for automatic start (night-time power supply) and power failure-proof data memory (rechargeable battery) Automatic overrun correction
- Spare component control
- Programmable in % or kg
- Customised weighing and process control control for HIMEL grinding & mixing systems. On request with visualisation via a screen.
- Consumption and price balancing, control
- Extensive operating and statistics function
- Weekly work programme Steel housing
- With control unit 16 relays for 16 motors (expandable to 48 relays)



Control of a milling & mixing plant with HIMEL weighing computer

Weighing indicators

HIMEL weighing indicators and precision load cells for accurate and reliable weight measurements in any application:

The HIMEL WA100 weighing indicator offers simple operation with total and partial weight display and is prepared for the connection of 1 to 4 precision load cells.

For additional scope, we recommend our WA300, which is equipped with 2 additional relays for dosing in and 1 relay for dosing out. Or our WA400 with even more power, including 2 more relays for dosing, 1 relay for dosing out and 1 relay for mixer control.

Our precision load cells are specially designed to provide accurate measurement results. With long cables, they offer enough flexibility. Thanks to the high-quality chrome-nickel steel, they are rust-proof and splash-proof to IP56. The simple installation enables quick commissioning so that you can get started immediately.



Weighing computer WDC 25



Weighing computer WDC 64



HIMEL weighing indicator with precision load cell

Weighing computer

Order no.	Article description	excl. VAT	incl. VAT
4500906	Weighing computer WDC 25 with control unit 16 relays	3.996,00	4.755,24
0924044	Weighing computer WDC 64 Fab Master with 32 relays	7.815,00	9.299,85
9245045	Weighing computer WDC 64 Fab Master with 16 relays	7.007,00	8.338,33
	Weighing computer WDC 64 Slave 16 relays	5.987,00	7.124,53
	HIMEL PC Windows for WDC incl screen	4.023,00	4.787,37
	Visualisation WDC 64 customer-specific	On request	

Accessories weighing computer

Order no.	Article description	excl. VAT	incl. VAT
4500776	Control unit 16 relays for 16 motors (upgrade 16-32)	1.517,00	1.805,23
4500777	Input card for WDC 25 for external signal processing	212,00	252,28
4500808	Pre-cabling pluggable from computer to control cabinet	268,00	318,92
4500896	PC connection, incl. cable and disc (without instruction)	231,00	274,89
4501023	Additional indicator (display) for WDC25, PD-5 LED	886,00	1.054,34

Weighing displays

Order no.	Article description	excl. VAT	incl. VAT
4501275	Weighing indicator WA100 Multifunctional scale (without relay)	1.051,00	1.250,69
4501282	Weighing indicator WA300 with 3 relays for dosing in and out	1.627,00	1.936,13
4501283	Weighing indicator WA400 with 4 relays for dosing in and out	1.735,00	2.064,65

Weighing cells

Order no.	Article description	excl. VAT	incl. VAT
4500811	Precision load cell 1.0 to	577,00	686,63
4500877	Precision load cell 3.6 tonnes	944,00	1.123,36
4500920	Rubber buffer for weighing load cell 0.6 - 1.0 to	27,00	32,13
4501680	Connection box for load cells to extend the cables	369,00	439,11
1100783	Weighing cell holder for 1.0 to weighing cell	50,00	59,50

Basic equipment

Weighing computer WDC25

- Up to 40 mixtures of up to up to 30 components
- With PC and printer interface
- Clear plain text display Plain text programming
- Free PLC-supported discharge programming
- Connection of the 16 relays, e.g. for mixer, grinder or crusher, alarm output, oil pumps, vibrators or other motors
- Prepared connection of further control units with 16 relays for 16 motors

Weighing computer WDC64

- 4-row digital LED display
- WDC64 master with 32 relays and manual switch with LEDs.
- WDC64 slave with 16 relays only in conjunction with WDC 64 master
- Customised weighing and process control for control for HIMEL grinding & mixing systems. On request with visualisation via a screen.
- PC connection via USB, incl. software
- Programming, operating and statistical functions via Windows PC or tablet

WA 100 weighing indicator

- Easy-to-operate weighing indicator with display (100 g resolution)
- Measuring range 0 - 9999.9 kg
- Total and partial weight display
- Prepared for the connection of 1 - 4 precision load cells
- Suitable for 0.6 to - 3.6 to load cells
- 230 V mains adapter included

- **WA 300 weighing indicator** with 2 additional relays for dosing in and 1 relay for dosing out
- **Weighing indicator WA 400** with 2 additional relays for dosing in, 1 relay for dosing out and 1 relay for mixer control

Precision load cell

- The load cells are equipped with an 8 m cable and integrated measuring amplifier from 0 - 10 V
- The weighing cable can be easily extended or shortened
- Immediately ready for operation!
- High-quality chrome-nickel steel (stainless)
- Splash-proof IP56
- Simple installation



Visualisation of a milling & mixing plant

Basic equipment

1) Dosing auger

- Dosing auger with progressive thread
- Drive via geared motor
- Completely made of stainless steel

2) Conditioner

- Homogeneous mixing of the components
- Ensures a continuous supply of material into the pelletising press
- Addition of additives, such as steam or water
- Completely made of stainless steel

3) Motor

- Motor size depends on the desired hourly output and material
- 30 - 370kW

4) Pelletising press

- Output depends on product and dies
- With one die and 2 rollers as standard
- See table for die size

5) Die

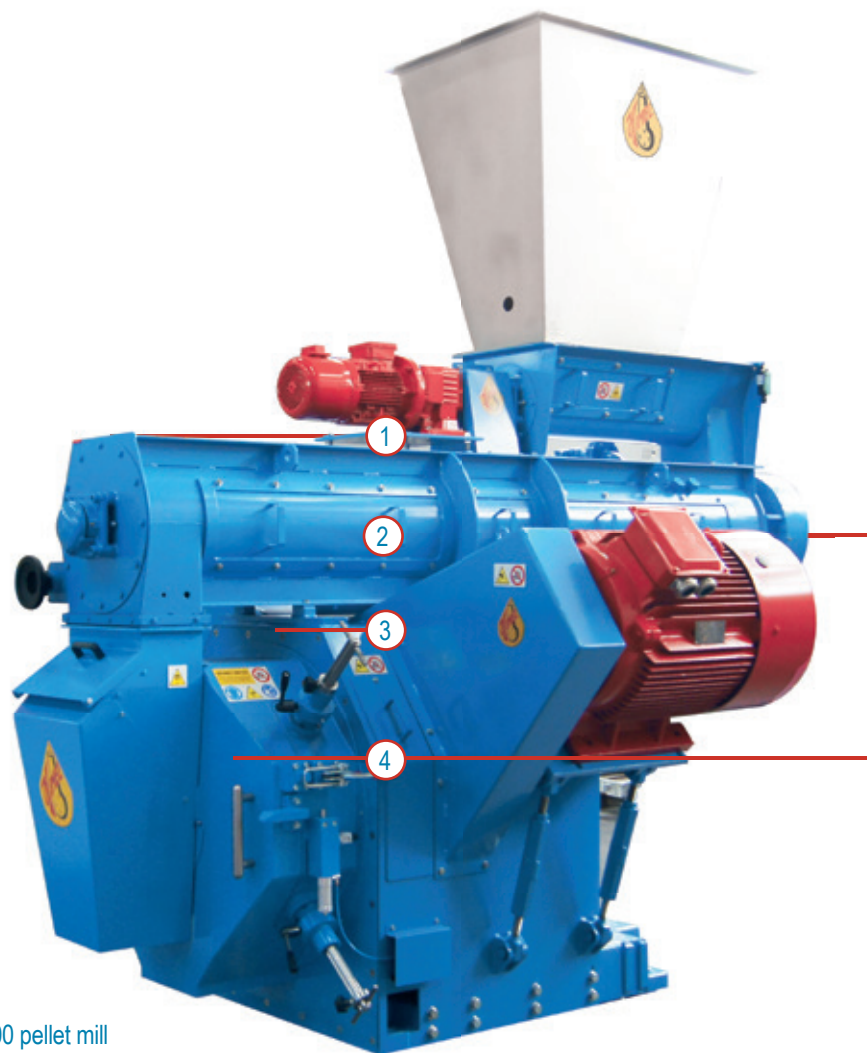
- Made from high-quality, wear-resistant special steel
- Customised for the desired pellet diameter

6) Vertical cooler with vibrating screen

- Minimal space requirement
- Very good cooling performance

7) Crumbler

- For precise and uniform shredding of the pellets
- Easily adjustable roller spacing (0-3mm)
- Solid, heavy-duty construction



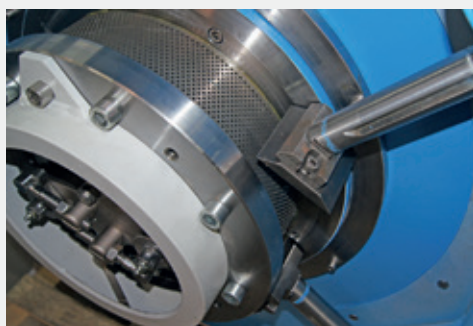
VP 500 pellet mill



Vertical cooler



VP 300 pellet mill



Die with roller with open press

Type	Capacity (approx. to/h)		Engine (kW)	Inside Ø Mould (mm)	Working width Mould (mm)	Weight (approx. kg)	Dimensions LxBxH (in cm)
	Poultry feed	Cattle feed					
VP 300	2,5	1,5	30 - 45	304	78	1.874	145 x 144 x 170
VP 400	8	6	75 - 110	419	108 / 138	2.700 - 5.800	181 x 269 x 210
VP 500	12	9	132 - 160	520	138 / 170	3.300 - 5.800	214 x 247 x 247
VP 600	18	12	160 - 220	630	197 / 240	6.100 - 7.400	215 x 328 x 270
VP 800	22	18	250 - 280	800	222 / 250	9.750 - 11.040	180 x 365 x 338
VP1000	45	30	370	1000	300	21.550	336 x 440 x 260

Gross bagging scale

Order no.	Article description	excl. VAT	incl. VAT
0924902	Gross bagging scale 1.5kW with roller conveyor and control cabinet	21.662,00	25.777,78
0925290	Gross bagging scale 3.0kW with roller conveyor and control cabinet	16.335,00	19.438,65
0921280	Portable bag closing machine	850,00	1.011,50



Basic equipment

Bagging weigher with dosing for grain, seed, pellets, compound feed. Free-flowing, small-grain, approx. 0.5-0.9kg/dm³

- Maximum load: 50kg
- Weighing range: 15-25kg (digit increment of the display: 0.02kg)
- Accuracy according to OIML R61
- Bag dimensions (LxW): 500-900mm x 500-700mm
- Bag type: bags made of plastic or paper
- Capacity: max. 100-120 bags/h of 25kg each
- Mains connection: 230V, 50-60Hz
- Scale base frame with weighing frame on strain gauge weighing cells, incl. force transmitters
- Support with standard filler neck Ø300mm with hand bag clamp
- Transition to Dosing auger with filter cloth
- Weighing cells wired to the terminal box, measuring cable to the weighing terminal
- Version in mild steel
- Parts in contact with the product in stainless steel 1.4301
- Lateral holder for the weighing terminal

Dosing control bagging scale:

- Terminal in stainless steel housing IP65 with bracket for wall mounting or table installation
- 5" colour display for weight display, operation and calibration
- Membrane keypad with numeric keys and soft keys
- Connection for an analogue strain gauge scale
- Serial interfaces (optional RS232, RS485)
- Calibratable control unit for bag filling
- Calibratable resolution
- Data stored in a fail-safe manner
- Tare control
- Trend-controlled optimisation of dosing and tolerance control
- Variety memory for 9 varieties (setpoint value, fine, coarse and downstream flow)
- Inputs for start/stop signal

Switch cabinet

- Control cable to the control cabinet for digital control signals
- Control cabinet with frequency inverter with connection cable to the scale
- Indicator light bag ready
- 230V socket for manual sewing machine

Non-driven roller conveyor

- Plastic roller Ø50mm pitch 62.5mm
- 1500x300x300



HIMEL grain blower

... with their extremely high performance are specially designed for the gentle transport of large quantities of grain and pulses. Highest conveying capacity thanks to direct drive, robust design, low-cost system construction and low operating costs - all this in a nutshell:

KM-Z with hopper are the powerhouses of the Z series with rotary valve and are used wherever maximum conveying capacity is required. A consistently practical design allows a wide range of possible applications. Mounted on the side, the rotary valve with its low, rotating inlet hopper fits under any tipper.

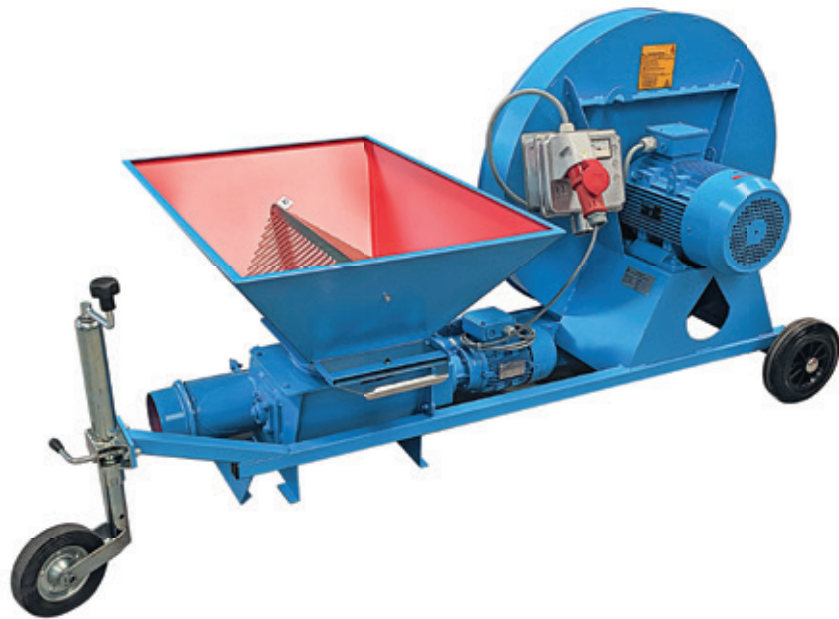
KM-SD suction pressure blowers are true all-rounders, combining two devices in one. They empty and fill lorries, silos, flat stores and containers without physical effort and without additional units.

The powerful but gentle air flow guarantees high hourly outputs when conveying grain, pulses and seeds.

It ensures thorough emptying of residues, even with seed grain. It can be easily converted to a pressurised blower with double the output in just a few simple steps using a conversion kit.



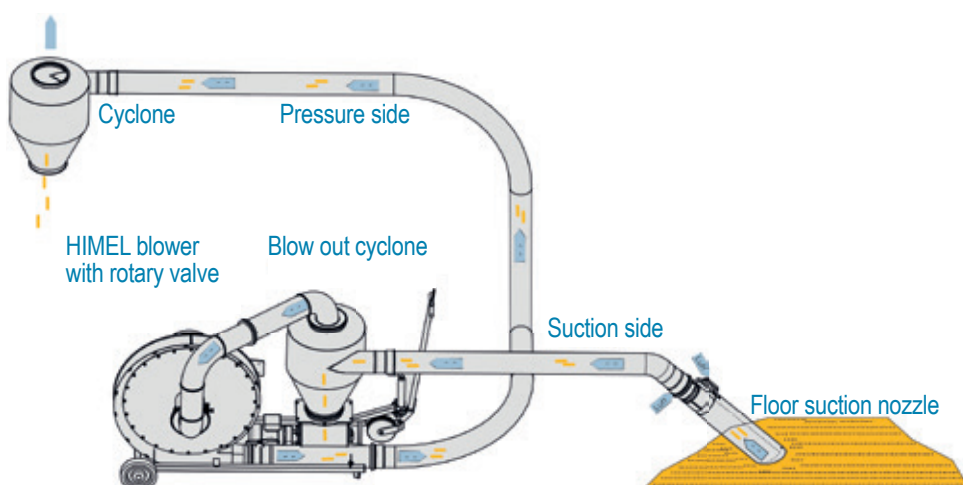
KM-Z grain blower with hopper



KM-SD grain blower with suction and pressure device

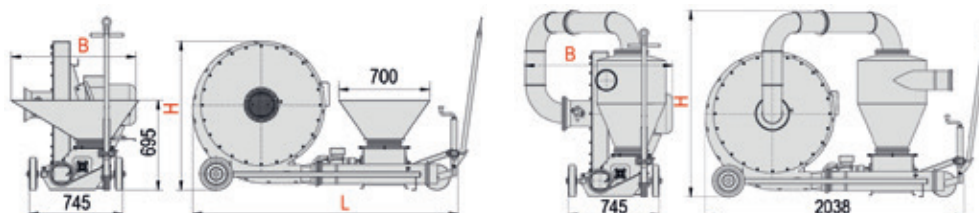
Grain blower

Order no.	Article description	excl. VAT	incl. VAT
0003106	Grain blower KM 56Z 11,0kW	5.892,00	7.011,48
0000153	Grain blower KM 67Z 15,0kW	6.132,00	7.297,08
0002269	Grain blower KM 68Z 18,5kW	6.566,00	7.813,54
0003109	Grain blower KM 56SD 11,0kW for suction & pressure operation	6.283,00	7.476,77
0003105	Grain blower KM 67SD 15,0kW for suction & pressure operation	6.555,00	7.800,45
0002270	Grain blower KM 68SD 18,5kW for suction & pressure operation	6.989,00	8.316,91
1200245	Pressure to suction conversion kit KM56	904,00	1.075,76
1200246	Pressure to suction conversion kit KM67, KM68	936,00	1.113,84
1200038	Conversion kit suction pressure to pressure KM56	513,00	610,47
1200263	Conversion kit suction pressure to pressure KM67, KM68	513,00	610,47
1200153	Bottom suction nozzle Ø150mm flat bearing suction	299,00	355,81
1200036	Suction nozzle Ø150mm l=2.0m KMSD Sump suction	269,00	320,11
0000212	Suction hose Ø150mm l=2.5m reinforced plastic	242,00	287,98



Functionality of a HIMEL grain blower in suction & pressure mode

	KMZ		KMSD		Dimensions in mm		
Max. Capacity in kg per hour	10 m Pipeline		25 m Pipeline				
Type	2 Pipe bends	3 Pipe bends	2 Pipe bends	3 Pipe bends	ca. L	B	H
KM 56 Z	17.000	14.500	13.500	12.000	2200	980	1040
KM 67 Z	19.000	16.000	15.000	14.000	2200	980	1145
KM 68 Z	21.000	18.000	17.000	16.000	2200	980	1145
KM 56 SD	7.000	6.000	5.000	4.000	2200	1110	1465
KM 67 SD	10.000	8.000	7.000	6.000	2200	1164	1465
KM 68 SD	12.000	10.500	9.000	7.000	2200	1164	1465



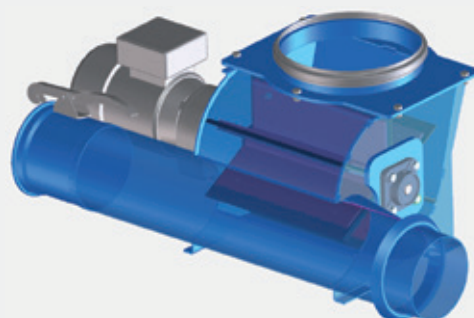
The performances were determined with dry wheat (moisture approx. 14%) at a bulk density of 750kg/m³, using original HIMEL Guma pipes and a blow-out cyclone. Deviations of up to 30% may occur when using movable pipe parts (pressure side). If a suction hose is used, a large loss of performance must be expected.

Basic equipment

- Grain blower with hopper or suction & pressure device:
- Powerful direct drive with electric motor 3000 min-1 400V
 - Simple operation via 4-stage switch with ammeter and plug-in device for optimum power setting
 - Flow controller for easy turbine start-up and overload protection
 - Sturdy modular design with frame, chassis and drawbar with lifting wheel
 - Turbine and rotary valve can be separated. This makes it easier to manoeuvre the trailer
 - Rotary valve with geared motor 0.55kW/ 60min-1 for double the performance compared to injector rotary valves
 - Large feed hopper (Z series) 700x980mm (rotatable) for convenient feeding
 - Prepared for the installation of a pre-cleaner
 - Guma pipe connection Ø150mm
 - Fully assembled and ready to plug in
 - Without suction hose, without suction nozzle

Your advantages - your success:

- Great time savings thanks to top performance
- Compact design
- Powerful, mobile and thorough
- Experience in blower construction since 1954
- Fully assembled, ready to plug in



3D CAD construction drawing

Screw conveyors

... transport at all gradients
Grain, meal, flour, animal feed and feed pellets. The speed can be reduced to convey floury goods.

All screw conveyors consist of maintenance-free drive stations and can be extended up to 12.5 m with galvanised extension parts.

We can also supply screw conveyors in stainless steel on request.

The motor is fitted at the top of the HIMEL screw conveyors as standard.

- Low energy consumption
- Low dust generation
- Galvanised conveyor tube

Fertiliser augers on request

Screw conveyors with hopper

are equipped with a large hopper and volume control as standard.

They can be used on a mobile basis thanks to a chassis or height-adjustable running gear.

The powerful drive stations are attached to the large feed hopper at the bottom of the screw conveyor with hopper.

- Lengths from 2.5m - 12.5m
- 280 l hopper capacity
- Hopper height approx. 56 cm

Capacity up to 150 tonnes/h on request



Screw conveyor Ø152 with removal basket Ø260 ready to plug in



HIMEL screw conveyor Ø102 with hopper and chassis with 2 wheels



Screw conveyor with 45° inlet and outlet



Inlet 45° Ø150 f.B.



Inlet 0° Ø150 f.B.



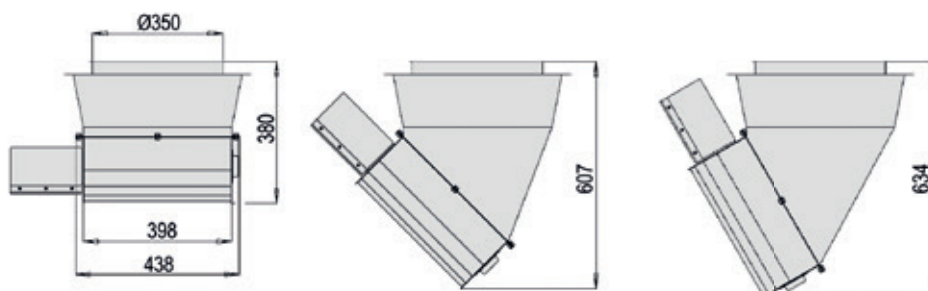
Auger head 45°

Screw conveyor Ø152 complete

Order no.	Article description	excl. VAT	incl. VAT
0000280	Screw conveyor Ø152 l=2.5 m 3.0 kW ready to plug in	1.399,00	1.664,81
0000281	Screw conveyor Ø152 l=3.5 m 3.0 kW ready to plug in	1.461,00	1.738,59
0000282	Screw conveyor Ø152 l=4.5 m 3.0 kW ready to plug in	1.564,00	1.861,16
0000283	Screw conveyor Ø152 l=5.5 m 3.0 kW ready to plug in	1.591,00	1.893,29
0000284	Screw conveyor Ø152 l=6.5 m 3.0 kW ready to plug in	1.646,00	1.958,74
0000285	Screw conveyor Ø152 l=7.5 m 4.0 kW ready to plug in	1.825,00	2.171,75
0000286	Screw conveyor Ø152 l=8.5 m 4.0 kW ready to plug in	1.928,00	2.294,32
0000287	Screw conveyor Ø152 l=9.5 m 4.0 kW ready to plug in	1.955,00	2.326,45
0000288	Screw conveyor Ø152 l=10.5 m 5.5 kW ready to plug in	2.090,00	2.487,10
0000289	Screw conveyor Ø152 l=11.5 m 5.5 kW ready to plug in	2.208,00	2.627,52
0000290	Screw conveyor Ø152 l=12.5 m 5.5 kW ready to plug in	2.411,00	2.869,09

Screw conveyor Ø152

Order no.	Article description	excl. VAT	incl. VAT
0000269	Screw conveyor Ø152 l=2.5 m 3.0 kW without inlet	776,00	923,44
0000270	Screw conveyor Ø152 l=3.5 m 3.0 kW without inlet	838,00	997,22
0000271	Screw conveyor Ø152 l=4.5 m 3.0 kW without inlet	941,00	1.119,79
0000272	Screw conveyor Ø152 l=5.5 m 3.0 kW without inlet	968,00	1.151,92
0000273	Screw conveyor Ø152 l=6.5 m 3.0 kW without inlet	1.023,00	1.217,37
0000274	Screw conveyor Ø152 l=7.5 m 4.0 kW without inlet	1.202,00	1.430,38
0000275	Screw conveyor Ø152 l=8.5 m 4.0 kW without inlet	1.304,00	1.551,76
0000276	Screw conveyor Ø152 l=9.5 m 4.0 kW without inlet	1.332,00	1.585,08
0000277	Screw conveyor Ø152 l=10.5 m 5.5 kW without inlet	1.301,00	1.548,19
0000278	Screw conveyor Ø152 l=11.5 m 5.5 kW without inlet	1.419,00	1.688,61
0000279	Screw conveyor Ø152 l=12.5 m 5.5 kW without inlet	1.622,00	1.930,18
0000240	Pre-assembly	54,00	64,26
1200088	Discharge basket Ø260mm Ø152 with inlet regulation	231,00	274,89
1200090	Inlet 0° Ø150mm f.B. Ø152	131,00	155,89
1200089	Inlet 45° Ø150mm f.B. Ø152	122,00	145,18
1200330	Inlet 0°/45° Ø150mm for flour transport	327,00	389,13
1200657	Storage inlet trough FS152 retrofit kit	37,00	44,03
1200045	Inlet hopper 0° Ø350mm Ø152 for removal from UV material silos	377,00	448,63
1200046	Inlet hopper 45° Ø350mm Ø152 for removal from UV material silos	418,00	497,42
1200047	Inlet hopper 60° Ø350mm Ø152 for removal from UV material silos	418,00	497,42
1200633	FS incision for installation in GRP mixed feed silo	18,00	21,42
1200091	Surcharge for auger head 45° for conveying angle 46 - 90°	27,00	32,13
1200094	Intermediate outlet Ø150mm f.B. Ø152 (without slider)	109,00	129,71
2202059	Rain cover	55,00	65,45
1200095	Auger extension l=1.0m without connecting sleeve	47,00	55,93
1200096	Auger extension l=2.0m without connecting sleeve	104,00	123,76
1200097	Auger extension l=3.0m without connecting sleeve	166,00	197,54
1200101	Auger extension l=4.0m without connecting sleeve	268,00	318,92
1200102	Auger extension l=5.0m without connecting sleeve	296,00	352,24
1200098	Connecting sleeve with bolt Ø152	19,00	22,61
0002281	Division of the auger into different lengths	19,00	22,61
	Cable extension between switch and motor per m	9,00	10,71
2800052	Transport packaging /m auger	11,00	13,09



Inlet funnel Ø350mm 0° - 45° - 60°

Basic equipment

Screw conveyor Ø152 complete:

- Powerful drive station with electric motor 1500min-1 400V and V-belt drive completely assembled. (Pre-assembly drive station)
- Galvanised conveyor pipes Ø152mm with connections separately
- Outlet Ø150mm and suspension bracket
- With silo discharge basket with inlet regulation
- With motor protection switch, plug-in device and switch attachment
- From 5.5 kW drive with star-delta switch
- Partly assembled

Screw conveyor Ø152:

- Powerful drive station with electric motor 1500min-1 400V and V-belt drive
- Galvanised conveyor pipes Ø152mm
- Outlet Ø150mm and suspension bracket
- Screw speed approx. 604min-1
- Without switch, without assembly and without inlet.

Recommended for silo unloading:

- Extraction pipe Ø300mm

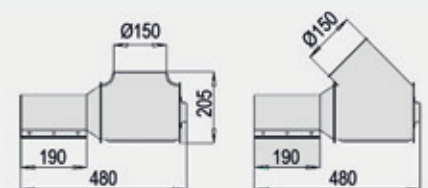
Important:

The inlet part must be ordered at the same time.

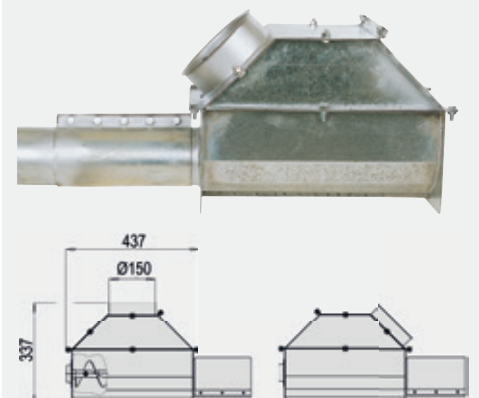
Not suitable for large sugar or wood chips!

Switch see chapter electrical parts

Conveying angle 0° 30° 45° 60° 90°
 Conveying capacity to/h 40 30 25 20 6
 Capacity with grain 780kg/m³ and 14% moisture



Inlet 0°/45° Ø150 f.B.



Inlet 0°/45° Ø150 for flour transport.

HIMEL Trough Augers

are equipped with an outlet at the drive station and intermediate bearing as standard. Inclines of 15° are no problem. HIMEL trough augers are supplied with galvanised covers and, on request, with a reversing switch for clockwise and anti-clockwise rotation of the auger.

Basic equipment

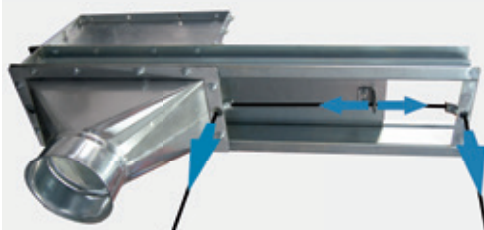
Trough auger Ø152 galvanised:

- Powerful drive station with electric motor 1500 min-1 400V and V-belt drive
- Galvanised trough Ø152mm in sturdy design with galvanised cover with galvanised cover
- Sturdy feet (also suitable as a suspension bracket)
- Outlet Ø150mm on the drive
- Intermediate and end bearings (with special bearing)
- Intermediate outlet without slider (surcharge)
- Without switch, without inlet
- Pre-assembled
- Maximum delivery length 30.0 m
- Low energy consumption
- Low dust generation
- Screw speed approx. 422 min-1
- Output at 0° max. 22 tonnes/h *

* For grain 780kg/m³ and 14% moisture

Trough auger Ø152

Order no.	Article description	excl. VAT	incl. VAT
0000409	Trough auger Ø152 3.0m 1.5kW	1.349,00	1.605,31
0000410	Trough auger Ø152 4,0m 1,5kW	1.662,00	1.977,78
0000411	Trough auger Ø152 5,0m 1,5kW	1.759,00	2.093,21
0000412	Trough auger Ø152 6,0m 3,0kW	1.943,00	2.312,17
0000413	Trough auger Ø152 7,0m 3,0kW	2.257,00	2.685,83
0000414	Trough auger Ø152 8,0m 3,0kW	2.353,00	2.800,07
0000415	Trough auger Ø152 9,0m 3,0kW	2.424,00	2.884,56
0000416	Trough auger Ø152 10,0m 3,0kW	2.738,00	3.258,22
0000417	Trough auger Ø152 11,0m 3,0kW	2.834,00	3.372,46
0000418	Trough auger Ø152 12,0m 3,0kW	2.905,00	3.456,95
0000419	Trough auger Ø152 13,0m 3,0kW	3.218,00	3.829,42
0000420	Trough auger Ø152 14,0m 4,0kW	3.423,00	4.073,37
0000421	Trough auger Ø152 15,0m 4,0kW	3.493,00	4.156,67
0000422	Trough auger Ø152 16,0m 4,0kW	3.807,00	4.530,33
0000423	Trough auger Ø152 17,0m 4,0kW	3.903,00	4.644,57
0000424	Trough auger Ø152 18,0m 4,0kW	3.974,00	4.729,06
0000425	Trough auger Ø152 19,0m 4,0kW	4.287,00	5.101,53
0000426	Trough auger Ø152 20,0m 4,0kW	4.384,00	5.216,96
4500389	Reversing switch (only in conjunction with MSS)	147,00	174,93
1200227	Extension trough Ø152 1.0m with bearing	314,00	373,66
1200228	Extension trough Ø152 2.0m with bearing	410,00	487,90
1200229	Extension trough Ø152 3.0m with bearing	481,00	572,39
3001918	Intermediate storage	93,00	110,67
1200602	Rain roof	79,00	94,01
1200775	End outlet trough auger Ø152, 45° front side	153,00	182,07
1400024	Inlet funnel 700x700mm - Ø150mm f.B.	274,00	326,06
1200048	Inlet spout Ø150mm for trough auger Ø152	60,00	71,40
0000441	Intermediate outlet Ø150mm for trough auger Ø152	56,00	66,64
3002304	Intermediate outlet Ø150mm remote-controlled with slider and outlet Ø150mm	245,00	291,55
2204233	Rain cover for remote-controlled intermediate outlet TS 152	58,00	69,02
3000133	Gate valve Ø150mm f.B.	58,00	69,02
3000134	Shut-off damper Ø150mm f.B. l=0.15m remote-controlled	142,00	168,98
3002081	Quick-release ring Ø150mm f.B.	15,00	17,85
2202480	Mounting bracket for trough auger Ø152mm	35,00	41,65



Intermediate inlet can be remote controlled



Trough screw Ø152

Screw conveyor with hopper

Order no.	Article description	excl. VAT	incl. VAT
0000356	Screw conveyor Ø152 with hopper l= 2.5m 3.0kw ready to plug in	1.822,00	2.168,18
0000357	Screw conveyor Ø152 with hopper l= 3,5m 3,0kw ready to plug in	1.884,00	2.241,96
0000358	Screw conveyor Ø152 with hopper l= 4,5m 3,0kw ready to plug in	1.986,00	2.363,34
0000359	Screw conveyor Ø152 with hopper l= 5,5m 3,0kw ready to plug in	2.014,00	2.396,66
0000360	Screw conveyor Ø152 with hopper l= 6,5m 3,0kw ready to plug in	2.068,00	2.460,92
0000361	Screw conveyor Ø152 with hopper l= 7,5m 4,0kw ready to plug in	2.248,00	2.675,12
0000362	Screw conveyor Ø152 with hopper l= 8,5m 4,0kw ready to plug in	2.350,00	2.796,50
0000363	Screw conveyor Ø152 with hopper l= 9,5m 4,0kw ready to plug in	2.377,00	2.828,63
0000364	Screw conveyor Ø152 with hopper l=10,5m 5,5kw ready to plug in	2.450,00	2.915,50
0000365	Screw conveyor Ø152 with hopper l=11,5m 5,5kw ready to plug in	2.461,00	2.928,59
0000366	Screw conveyor Ø152 with hopper l=12.5m 5.5kw ready to plug in	2.563,00	3.049,97

Accessories for screw conveyor with hopper

Order no.	Article description	excl. VAT	incl. VAT
1200092	Chassis with 2 wheels Ø152 (unmounted) max. 6m	255,00	303,45
1200093	Height-adjustable chassis Ø152 (unassembled) max. 9m	887,00	1.055,53
1200678	Height-adjustable chassis Ø152 (unmounted) max. 10 / 12m	1.258,00	1.497,02
1200487	Swivelling wheels with 4 castors	144,00	171,36
1200095	Auger extension l=1.0m without connecting sleeve	47,00	55,93
1200096	Auger extension l=2.0m without connecting sleeve	104,00	123,76
1200097	Auger extension l=3.0m without connecting sleeve	166,00	197,54
1200101	Auger extension l=4.0m without connecting sleeve	268,00	318,92
1200102	Auger extension l=5.0m without connecting sleeve	296,00	352,24
1200098	Connecting sleeve with bolt Ø152	19,00	22,61
	Motor protection switch (reduced price)!		
2800052	Transport packaging /m auger	11,00	13,09

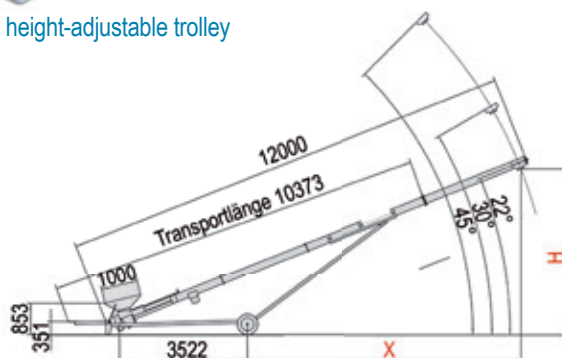
Screw conveyor Ø200 - Ø250 with Hopper

Order no.	Article description	excl. VAT	incl. VAT
0002610	Screw conveyor Ø200 with hopper l=12.0m 7.5kW without switch	6.917,00	8.231,23
0000185	Switch for GK200 with plug-in device 32A	595,00	708,05
0002698	Screw conveyor Ø250 with hopper l=12.0m 11.0kW without switch	7.768,00	9.243,92
0000196	Switch for GK250 with plug-in device 32A	227,00	270,13



Screw conveyor Ø200 with hopper with height-adjustable trolley

Angle	H in m	X in m
22°	4,5	7,56
30°	6,1	6,81
45°	8,6	4,94



Basic equipment

Screw conveyor Ø152 with hopper

- Powerful drive station with electric motor 1500min-1 400V and V-belt drive, completely mounted on transport length.
- Galvanised conveyor pipes Ø152mm with separate connections
- Outlet Ø150mm with suspension eyelet
- Large galvanised feed hopper with bearings
- With motor protection switch with plug-in device and switch attachment. From 5.5 kW drive with star-delta switch
- Ready to plug in - quickly ready for operation
- Dosing via infinitely variable quantity regulation
- Screw speed approx. 617min⁻¹
- Partly assembled

Not suitable for large sugar or wood chips!

Conveying angle in °	0	30	45	60	90
Conveying capacity in to/h	40	30	25	20	11
Capacity with grain 780kg/m ³ and 14% moisture					

Screw conveyor Ø200 with hopper:

- Galvanised folding auger conveyor with safety switch in the joint
- Sturdy galvanised chassis with pneumatic tyres for road traffic (6 km/h)
- Height adjustment via cable winch
- Inlet hopper approx. 2.0 m x 1.0 m with protective grille Slider in the hopper for volume regulation
- With intermediate bearing for smooth running
- Outlet Ø200 f.B.
- Without motor protection switch
- Unassembled
- Higher performance possible through speed change possible

Ø250 screw conveyor with hopper:

Same equipment but with outlet Ø250mm f.B.

Please note:

- Pre-assembly requires an increased freight rate.
- Additional weights must be attached when conveying at an incline of less than 22°!

Power at delivery angle	Speed
Type 0° 45°	
Ø200 50 to/h 38 to/h	450 min-1
Ø250 80 to/h 60 to/h	365 min-1
Capacity with grain 780kg/m ³ and 14% moisture	

Recommendation:

For poorly flowing pulses or grain treated with propionic acid, more powerful motors must be used!

Basic equipment

Mobile pre-cleaner unloading station
Screw conveyor with hopper with attached high-performance pre-cleaner with a capacity of up to 25 tonnes/h.

- Powerful drive station with electric motor 1500min-1 400V and V-belt drive
- Low energy consumption with high performance
- Galvanised conveyor pipes with intermediate bearing for smooth running and outlet Ø150mm
- Reinforced chassis and stable brackets for V25 pre-cleaner and cyclone separator
- Turbine blower (pre-cleaner) with electric motor 3.0 kW, 3000 min-1 400 V
- Power regulation on the outlet nozzle Ø150mm f.B.
- With pipe sections, transition pieces and clamps for screw conveyor with hopper
- With attached motor protection switch separately for pre-cleaner and screw conveyor with hopper
- Fully assembled
- Without cyclone separator (surcharge)
- Without swivelling wheels (surcharge)

Pipe cleaner :

- The HIMEL pipe cleaner Ø152 cleans dirt and dust from the grain via the sieve pipe with Ø3mm perforation.
- Increases the feed quality
- Reduces wear and tear in downstream equipment (mills or crushers)
- Can be retrofitted to Ø152 augers at any time
- Not suitable for rapeseed, 2 mm sieves required

For retrofitting, the cut-outs on the cut-outs on the screw must be cut on site
 be cut on site



Screw conveyor with hopper and pipe cleaner



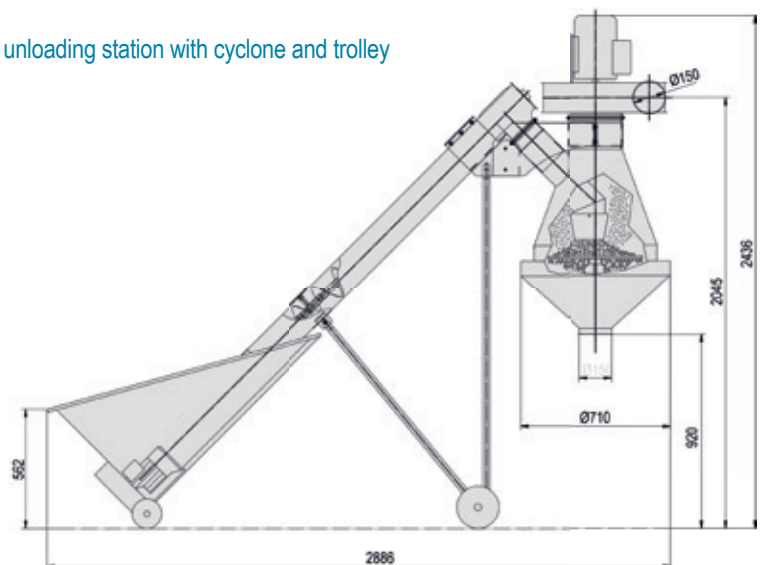
Swivelling wheels for unloading station

Mobile pre-cleaner unloading station

Order no.	Article description	excl. VAT	incl. VAT
1200355	Screw conveyor Ø152 with hopper l=2.5m 3.0kW + V25 3.0kW	4.611,00	5.487,09
0002183	Cyclone for V 25 f.B.	507,00	603,33
3001833	Lashing strap	3,00	3,57
1200466	Swivelling wheels (for unloading station with 2 wheels)	318,00	378,42
0003107	Pipe cleaner Ø152 for mobile unloading station with 2mm sieve	686,00	816,34
0001035	Pipe cleaner Ø152 for mobile unloading station with 3mm sieve	570,00	678,30
3000252	Filter hose ø410mm l=3.0m with tensioning straps for ø0-400mm	43,00	51,17

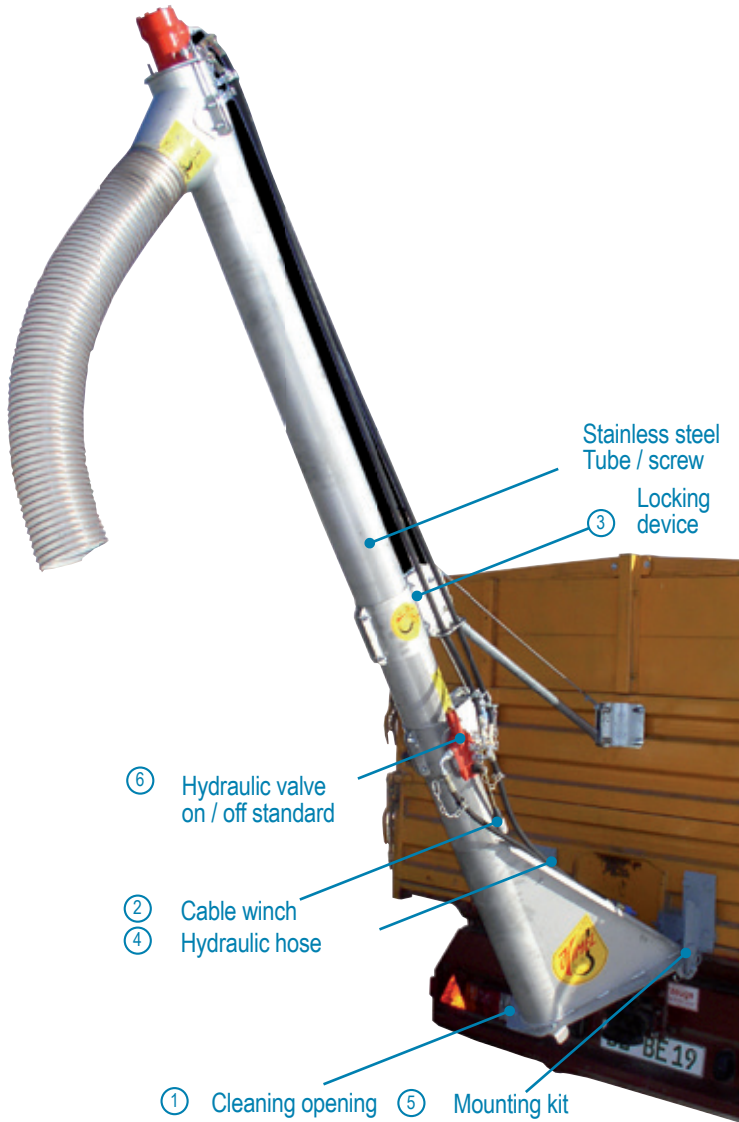


HIMEL pre-cleaner unloading station with cyclone and trolley

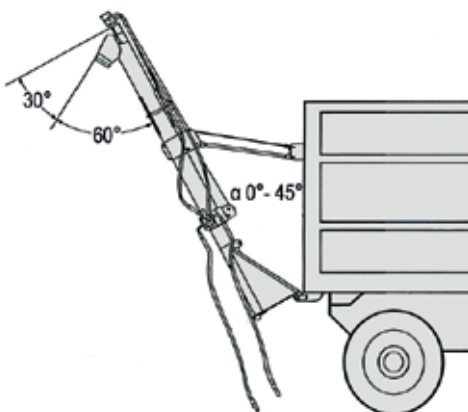


Overloading Auger

Order no.	Article description	excl. VAT	incl. VAT
0002849	Overloading auger Ø150mm l=3.5m made of V2A	2.598,00	3.091,62
0002459	Overloading auger Ø150mm l=4,0m foldable made of V2A	4.092,00	4.869,48
0002460	Overloading auger Ø200mm l=3.0m made of V2A	4.064,00	4.836,16
0002461	Overloading auger Ø200mm l=4.0m foldable made of V2A	5.296,00	6.302,24
0002372	Additional attachment kit for tipper	140,00	166,60
3002607	Spiral hose Ø160mm per m PUR (no suction hose)	26,00	30,94
3000396	Hose clamp Ø150mm (b=12mm)	1,00	1,19



Overloading auger Ø150



Overloading auger	Ø150	Ø200
Power (m³/h)	8-30	13-40
Motor	OMP50	OMP80
Displacement (cm³)	50	50
Q min (l/min)	15	20
Q max (l/min)	40	60
Min. Pressure (bar)	30	30
Max. Pressure (bar)	80	80

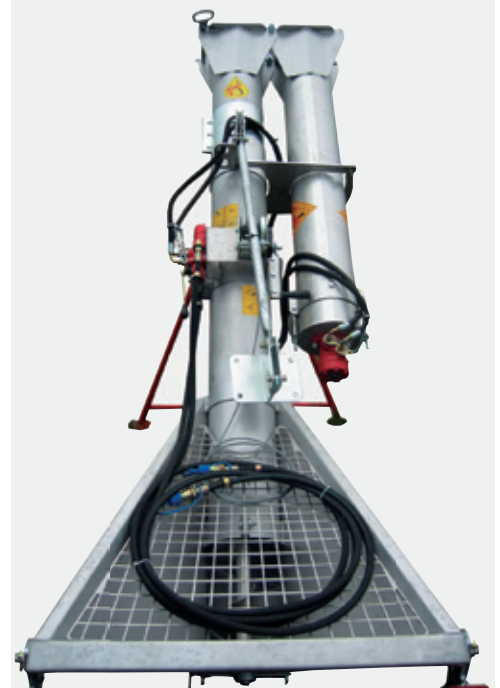
Basic equipment

Overloading augers made of stainless steel V2A

- Overloading auger with hydraulic drive in stainless steel for attachment to a trailer
- Ready-to-mount design with sturdy auger tube in stainless steel
- Reinforced auger conveyor in stainless steel
- (1) Cleaning opening for residual emptying
- (2) Cable winch for easy height adjustment
- (3) Rigid locking device for road travel
- (4) With 4m hydraulic hose for tractor tractor connections and stopcock
- Minimum tractor hydraulic output 18 litres per minute max. 40 litres per minute
- Extremely simple installation via the quick coupling bracket
- (5) Attachment kit for tipper for convenient attachment of the auger
- Ready to attach, immediately ready for operation
- (6) With hydraulic valve and lever for switching the auger on and off

Overloading auger l=4.0m with auger tube 3+1m and hinge

Available in other lengths and capacities on request!



Folding overloading auger Ø200

Chain elevators K30

are used where space is tight and high continuous capacities are required with low power requirements in vertical conveying. (Inclined conveying up to 65° is also possible).

- The elevator head with powerful geared motor can also drive lateral feeder augers
- Longer side augers are driven by an additional drive station
- The quantity is regulated via a dosing roof
- For longer feeder screws, we recommend regulating the flow rate using a frequency converter
- The low inlet height of the feeder troughs and the standard dosing roofs ensure simple and trouble-free operation
- The material to be conveyed is guided up to a height of 18 metres in a narrow conveyor shaft by means of a rubber carrier on a steel roller chain
- Extension chutes are also available in lengths of 0.25 m and 0.50 m so that you can make optimum use of the available height and reach and fill even the last corner

Feeder conveyors

are screw conveyors that transport the grain in the gutter to the HIMEL chain elevator. The flow of grain can be controlled via the dosing roof. To ensure that this device is not impaired when the grain is tipped in, it runs under the protection of a higher roof.

- Single or double-sided feed to the chain elevator
- chain elevator possible
- Plastic shells for quiet and low-wear operation of the screw conveyors
- Capacity feeder conveyor trough Ø135mm with dosing roof
one-sided: 15-18 to/h
Both sides: 20-25 tonnes/h

* For grain 780kg/m³ and 14% moisture



HIMEL chain elevator and pre-cleaner



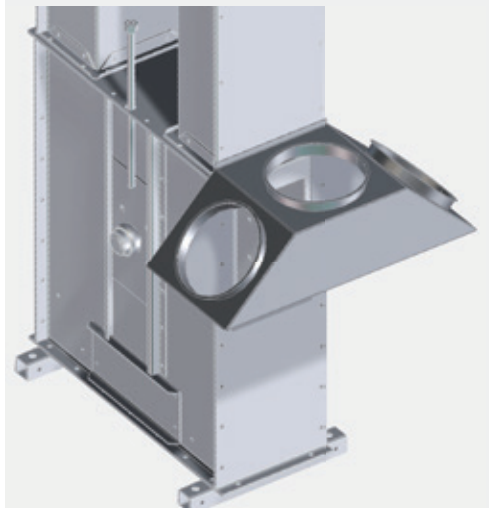
Chain elevator K30, drive motor mounted on the right and feeder drive mounted on the left!

Bucket elevators

All components of the HIMEL product range are harmonised with each other so that they can be combined to form high-performance systems for the highest requirements. But each individual HIMEL device, whether elevator, screw conveyor, pre-cleaner, round silo or rectangular silo, also increases the efficiency of your operation. Let our specialists advise you on the most favourable option for conveying grain, meal, animal feed, pellets and other floury goods.

HIMEL bucket elevators are installed vertically up to a height of 30 metres as central height conveyors. With low power requirements, they achieve capacities of 25 to 120 tonnes per hour, depending on the bucket load. (Up to 250 tonnes/h on request)

- Steel buckets on a sturdy elevator belt in galvanised shafts ensure gentle and low-noise transport
- The elevator foot with various inlet options, cleaning flap and the special elevator head guarantee clean transport
- All elevators can be equipped with infinitely variable inlet regulation, backstop and belt tensioning device
- Distribution at the outlet takes place via downpipes or various horizontal conveyors
- Feeding is coordinated via a HIMEL filling conveyor



Feed hopper

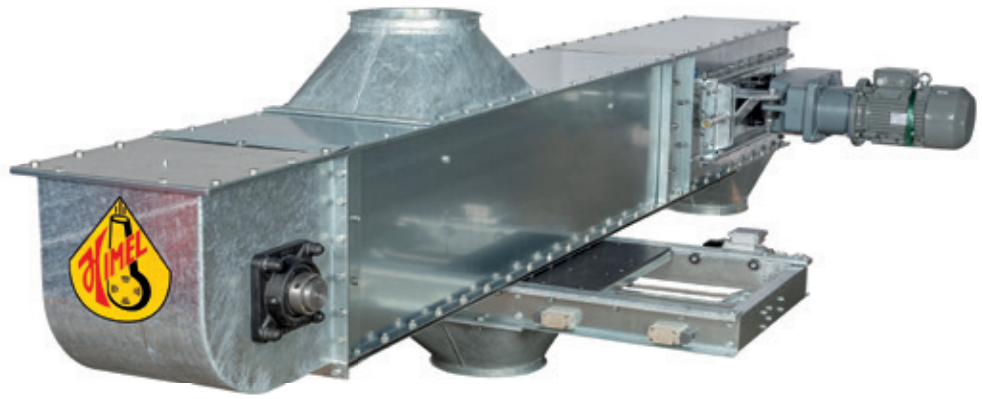
Trough chain conveyors

...transport the conveyed goods horizontally in a closed trough, gently and, if required, by type, up to 50 metres.

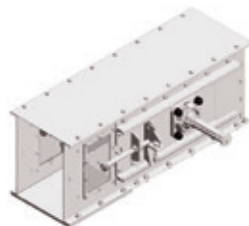
- High conveying capacities up to 120 tonnes/h
- Sturdy steel chains with strong transport carriers pull the conveyed goods to the appropriate outlets
- Trough chain conveyors can be equipped with various drives and several inlets and outlets
- Conveyor bends with 30° can be installed to compensate for height differences
- Gutters are used as feeders for HIMEL bucket elevators in the receiving gutter

Recommendation:

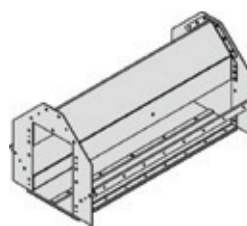
Between diverter station and conveying section, install a 0.5 metre flow restrictor (HSR)!



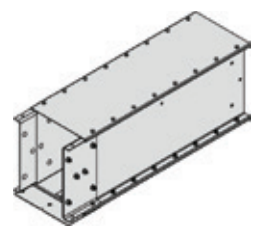
HSR 60



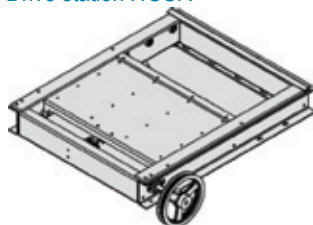
Drive station HGSR



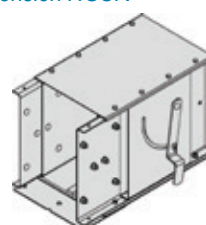
Extension HGSR



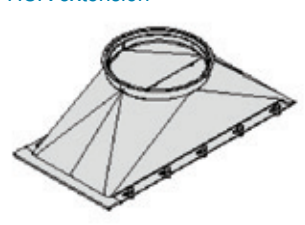
HSR extension



Remote-controlled intermediate outlet



Quantity limiter



Inlet and outlet 200-300mm

Trough chain conveyor HSR40

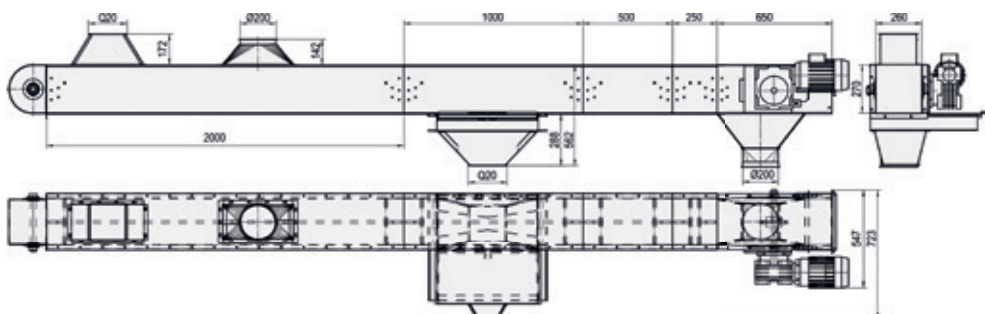
Order no.	Article description	excl. VAT	incl. VAT
0057001	Trough chain conveyor HSR40 2.9m 1.1kW geared motor	3.234,00	3.848,46
0057002	Trough chain conveyor HSR40 3.9m 1.1kW geared motor	3.629,00	4.318,51
0057003	Trough chain conveyor HSR40 4.9m 1,1kW geared motor	4.025,00	4.789,75
0057004	Trough chain conveyor HSR40 5.9m 1.5kW geared motor	4.419,00	5.258,61
0057005	Trough chain conveyor HSR40 6.9m 1.5kW geared motor	4.816,00	5.731,04
0057006	Trough chain conveyor HSR40 7.9m 1.5kW geared motor	5.210,00	6.199,90
0057007	Trough chain conveyor HSR40 8.9m 2.2kW geared motor	5.607,00	6.672,33
0057008	Trough chain conveyor HSR40 9.9m 2.2kW geared motor	6.001,00	7.141,19
0057009	Trough chain conveyor HSR40 10.9m 2.2kW geared motor	6.398,00	7.613,62
0057010	Trough chain conveyor HSR40 11.9m 2.2kW geared motor	6.792,00	8.082,48
0057011	Trough chain conveyor HSR40 12.9m 2.2kW geared motor	7.188,00	8.553,72
0057012	Trough chain conveyor HSR40 13.9m 2.2kW geared motor	7.582,00	9.022,58
0057013	Trough chain conveyor HSR40 14.9m 2.2kW geared motor	7.979,00	9.495,01
0057014	Trough chain conveyor HSR40 15.9m 3.0kW geared motor	8.373,00	9.963,87
0057015	Trough chain conveyor HSR40 16.9m 3.0kW geared motor	8.770,00	10.436,30
0057016	Trough chain conveyor HSR40 17.9m 3.0kW geared motor	9.164,00	10.905,16
0057017	Trough chain conveyor HSR40 18.9m 3.0kW geared motor	9.560,00	11.376,40
0057018	Trough chain conveyor HSR40 19.9m 4.0kW geared motor	9.955,00	11.846,45
0057019	Trough chain conveyor HSR40 24.9m 4.0kW geared motor	11.933,00	14.200,27
0057020	Trough chain conveyor HSR40 29.9m 4,0kW geared motor	13.909,00	16.551,71
0057021	Trough chain conveyor HSR40 34.9m 4.0kW geared motor	15.886,00	18.904,34

HSR40 with arch

Order no.	Article description	excl. VAT	incl. VAT
0057051	Trough chain conveyor HSR40 2.9m 10-30°, 2.2kW geared motor	4.032,00	4.798,08
0057052	Trough chain conveyor HSR40 3.9m 10-30°, 2.2kW geared motor	4.489,00	5.341,91
0057053	Trough chain conveyor HSR40 4.9m 10-30°, 2.2kW geared motor	4.928,00	5.864,32
0057054	Trough chain conveyor HSR40 5.9m 10-30°, 3.0kW geared motor	5.533,00	6.584,27
0057055	Trough chain conveyor HSR40 6.9m 10-30°, 3.0kW geared motor	5.972,00	7.106,68
0057056	Trough chain conveyor HSR40 7.9m 10-30°, 3.0kW geared motor	6.430,00	7.651,70
0057057	Trough chain conveyor HSR40 8.9m 10-30°, 3.0kW geared motor	6.869,00	8.174,11
0057058	Trough chain conveyor HSR40 9.9m 10-30°, 4.0kW geared motor	7.994,00	9.512,86
0057059	Trough chain conveyor HSR40 10.9m 10-30°, 4.0kW geared motor	8.433,00	10.035,27
0057060	Trough chain conveyor HSR40 11.9m 10-30°, 4.0kW geared motor	8.891,00	10.580,29
0057061	Trough chain conveyor HSR40 12.9m 10-30°, 4.0kW geared motor	9.330,00	11.102,70
0057062	Trough chain conveyor HSR40 13.9m 10-30°, 5.5kW geared motor	9.994,00	11.892,86
0057063	Trough chain conveyor HSR40 14.9m 10-30°, 5.5kW geared motor	10.433,00	12.415,27
0057064	Trough chain conveyor HSR40 15.9m 10-30°, 5.5kW geared motor	10.891,00	12.960,29
0057065	Trough chain conveyor HSR40 16.9m 10-30°, 5.5kW geared motor	11.330,00	13.482,70

Zubehör

Order no.	Article description	excl. VAT	incl. VAT
0057022	Extension 2.0m HSR40 with chain for trough chain conveyor	791,00	941,29
0057023	Extension 1.0m HSR40 with chain for trough chain conveyor	394,00	468,86
0057024	Extension 0.5m HSR40 with chain for trough chain conveyor	197,00	234,43
0057025	Scraper for intermediate outlet HSR40	57,00	67,83
0057026	Intermediate outlet HSR40 manually operated Ø200f.B	504,00	599,76
0057027	Intermediate outlet HSR40 remote controlled for rope Ø200f.B	785,00	934,15
0057028	Intermediate outlet HSR40 0,12kW 400V motorised Ø200f.B	1.316,00	1.566,04
0057029	Rain cover for HSR40 intermediate outlet	233,00	277,27
0057030	Rain cover for HSR40 drive geared motor	184,00	218,96
0057031	Inlet spout HSR40 Ø200f.B	113,00	134,47
0057032	End outlet HSR40 Ø200f.B	234,00	278,46
0057033	Stiffening beam for HSR40 up to max. 12m free span	780,00	928,20
0057034	Limit switch for HSR40 bulwark flap	75,00	89,25



HSR 40

Basic equipment

HSR40 trough chain conveyor: Drive station with integrated tensioning station

- Long service life thanks to hot-dip galvanised design
- Reinforced quality, including flap to prevent overfilling
- With gearbox and slip-on motor

Deflection station in round design

- Optimum emptying with low space requirement
- Reinforced, hot-dip galvanised design

Conveyor section

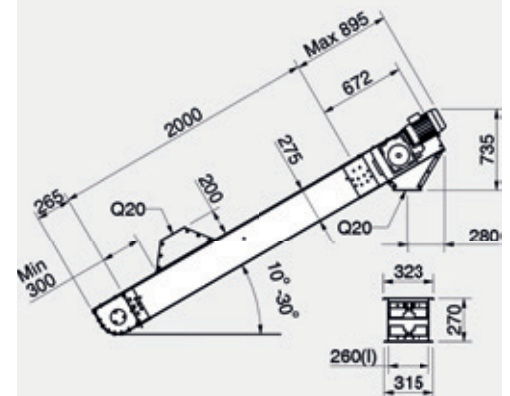
- Sturdy, reinforced conveyor sections
- Special 1.5" drive chain with plastic carrier
- Scraper for residual emptying

Modular system for self-assembly

- Span width 5-6m possible
- Low energy consumption for long conveying distances (up to 50m)
- Without motor protection switch

Trough chain conveyor (10-30°) can be used for inclines up to 30°

Other lengths on request.



Trogkettenförderer HSR40(10-30°)



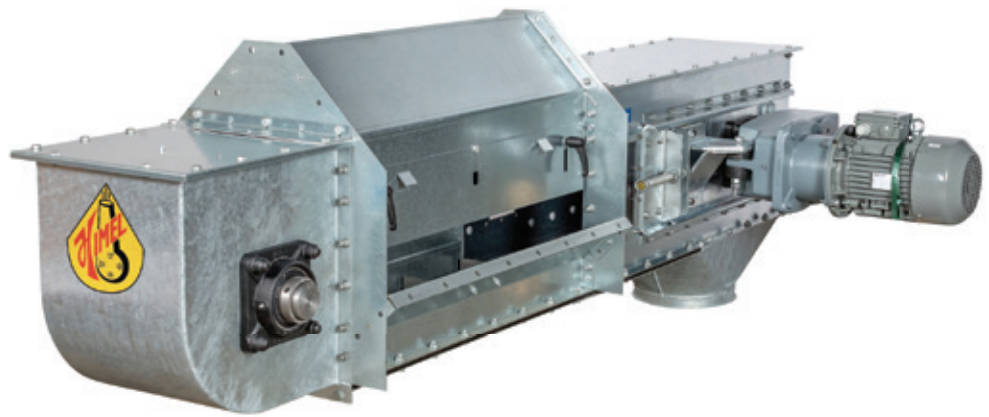
Running rail trough chain conveyor

Bulk mould conveyor

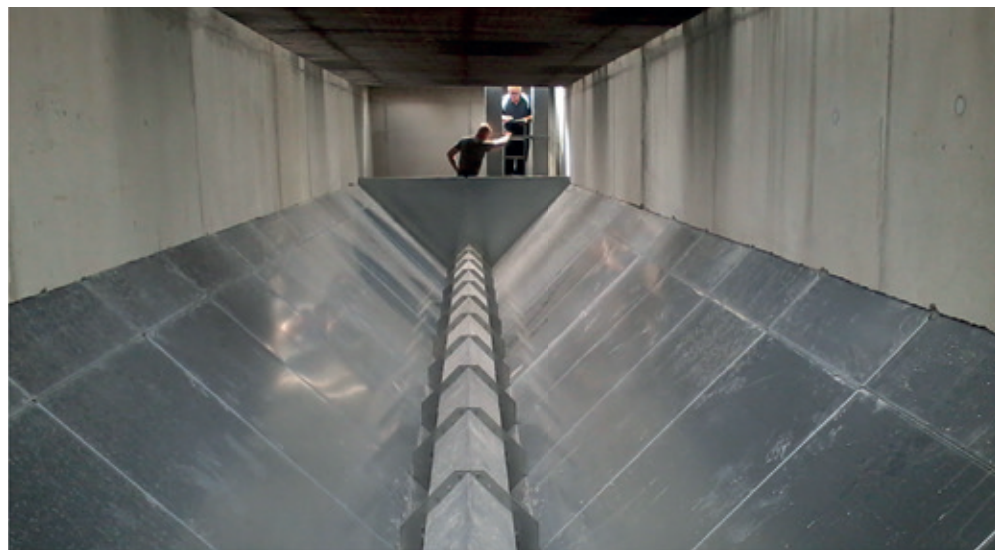
HIMEL Bulk mould conveyor are an economical and reliable solution for the horizontal conveying of large quantities of grain as well as the conveying of seed and ground products.

HIMEL Bulk mould conveyor are an internationally recognised quality product that can be fitted wherever the conveying of grain and ground products is required.

Conveying systems with Bulk mould conveyor can be expanded or modified at any time if requirements change.



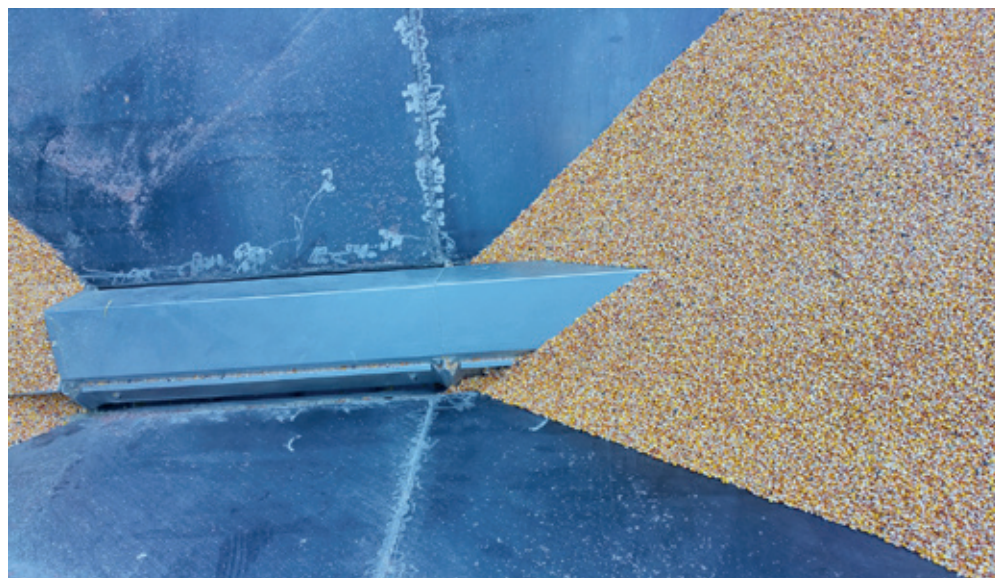
HGSR 60-80



Concreted bulk material reception with bulk mould conveyor



Bulk mould conveyor HGSR





HIMEL spiral conveyor pressure station

Spiral conveyors

Flexible steel spirals and powerful drive stations guarantee fast and gentle transport of your feed from the storage silo to the animal.

- Great time savings and high labour savings thanks to state-of-the-art technology
- Gentle material transport with low dust generation
- Low energy consumption
- Conveying length of up to 50 m with one drive
- Low-wear operation, even around curves
- Thick-walled PE-HD pipes Ø75 - 125mm (polyethylene pipes with high density), according to DIN 8074 with a wall thickness of 6.3mm - 6.9mm depending on the spiral
- Various inlets and outlets, transition pieces, mineral containers, dosing stations, outlet pipe parts and valves enable the connection with the HIMEL storage systems
- With the automatic HIMEL start and stop system or the HIMEL weighing computer, the HIMEL spiral conveyors can be used fully automatically
- Modular system can be expanded into fully automatic systems



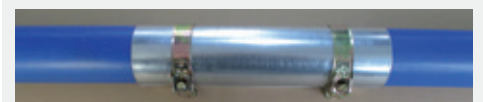
Feed hopper 300 x 300

Drive station tube chain conveyor Ø60

Tube chain conveyor

The conveyed goods are fed into the galvanised conveyor tubes (stainless steel tubes on request) via any number of inlets. A special chain up to 450 metres long with a plastic carrier conveys floury goods and grains to any desired location, even around several corners.

- Drive station and infeed hopper made of stainless steel ensure a long service life
- Safety switch and gear motor
- Several types of feed possible per system
- You save valuable working time and thus increase the efficiency of your business
- Any number of outlets/feeders
- Can be subsequently expanded at any time
- Conveying is gentle and largely segregation-free
- Can be upgraded to a computer-controlled feeding system using useful HIMEL accessories



Connecting sleeve Ø75 with hose clamps

Pre-cleaner V

With the HIMEL pre-cleaner, you can achieve better quality and higher yields by cleaning grain, maize, rapeseed and similar pulses. When using the pre-cleaner with its powerful high-pressure suction fan, you can very effectively separate your valuable pulses from annoying straw particles, dust, chaff and other light foreign bodies.

The pre-cleaner works according to the air separator principle. The cleaning material enters the large cleaning body via a precisely adjustable feed cone (V25). The grain runs downwards. The light particles are sucked upwards and transported to the cyclone via the turbine. Thanks to their compact design, they fit into almost any location. HIMEL pre-cleaners can be integrated into existing systems.

HIMEL advantages at a glance:

- High cleaning performance
- Low power consumption
- Simple installation / commissioning
- Compact installation dimensions

Drum screen cleaners

...are simple and robust screen cleaners in galvanised sheet steel design with one or two cleaning drums. They improve the quality of the harvested crop by cleaning out coarse and/or fine impurities.

HTR63-1 and HTR80-1 with one sieve drum are suitable for cleaning out coarse parts such as thistle heads, straws or maize spindles with a round-hole sieve.

A long-hole sieve is suitable for cleaning small grains or fine impurities such as sand.

Drum screen cleaners HTR63-2 and HTR80-2 with an inner and outer drum are suitable for cleaning out coarse and fine impurities in a single operation. E.g. for cleaning rapeseed before the rapeseed press or cleaning grain before sowing, seed processing).

SM sieve cleaner

The HIMEL sieve cleaners are cleaners for agricultural use. Thanks to their compact design, they fit into almost any location and are designed for continuous operation.

The screeners are primarily used as coarse and pre-cleaners for silo, mill and seed plants, as well as malting plants and compound feed mills.



Pre-cleaner V40



Drum screen cleaner HTR63



Screen cleaner SM





4
Sliding pipe Ø150mm f.B. 2.0 - 3.8 m



9
Straight outlet Ø150mm f.B. with slide valve



14
Hinged box 2 x 45° Ø150mm f.B.



5
Gate valve Ø150mm f.B.



10
Outlet 45° Ø150mm f.b. with slider



15
Hinged door Ø150mm f.B. 2 x 60° motorised



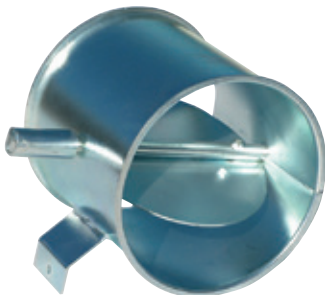
6
Flap Ø150mm f.B. l=0.15 m remote-controlled



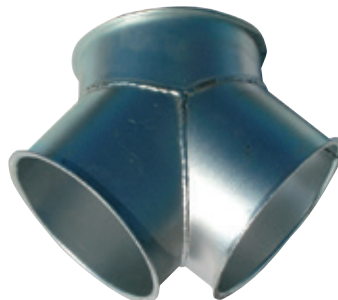
11
Fork piece 1 x 45° Ø150mm f.B.



16
Swivelling head Ø150mm f.B.



7
Flap Ø150mm f.B. l=0.15 m for motorised drive



12
Fork piece 2 x 45° Ø150mm f.B.



17
Rotary manifold 4-way Ø150mm 45° for remote control.



8
Outlet straight Ø150mm f.B. without slider



13
Hinged box 1 x 45° Ø150mm f.B.



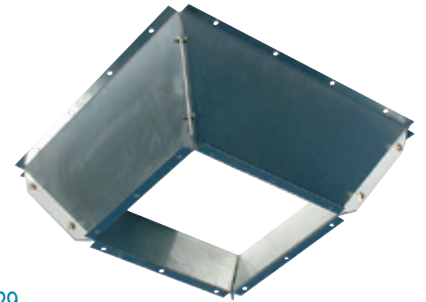
18
Mounting clamp Ø150mm



19
Mounting clip Ø150mm for wall mounting



24
Transition Ø150mm - Ø150mm Guma ring



29
Transition 500 x 500 - 300 x 300mm



20
Clamping ring 2-piece Ø150mm f.B.



25
Transition Ø150mm - Ø150mm Guma clamps



30
Transition 300 x 300mm - Ø150mm f.B. (Cone)



21
Quick-release ring Ø150mm f.B.



26
Transition Ø150mm - 160RW



31
Spiral hose Ø150mm PUR



22
Hose nozzle Ø150mm f.B.



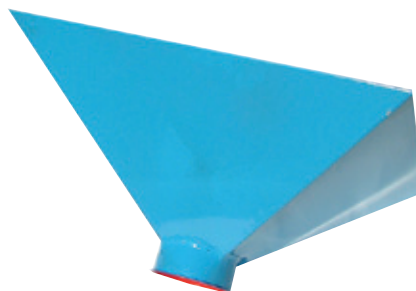
27
Transition Ø150mm - Ø250mm f.B.



32
Cyclone Ø150mm GUMA



23
Hose clamp Ø80 - 350mm (b=12mm)



28
Inlet hopper 700 x 700mm - Ø150mm f.B.



33
Flap Ø150mm f.B. l=0.15m motorised

HIMEL storage systems

You should not leave the correct storage of grain to chance!

HIMEL storage systems give bad weather and pests - whether mould, insects or mice - no chance!

They make optimum use of the space and, thanks to their design and the materials used, maintain the quality of the grain or flour over the long term.

grain or flour over long periods of time.

In order to work even faster and more effectively, HIMEL supplements these systems with powerful screw conveyors, grain blowers, cleaners, redlers and elevators with capacities of up to 250 tonnes per hour.

HIMEL supplies the right solution for every application.

Round silos

are suitable for indoor installation. They are made of galvanised corrugated sheet metal and are the most cost-effective silo type for the gentle storage of grain and pulses.

UV silos

are ideal for the storage of concentrated feed for all types of feeding (capacity from 2 to 26 m³). The breathable fabric guarantees perfect sun protection and air circulation. This keeps the feed valuable and fresh.

Rectangular silos...

utilise the storage space almost completely and are the solution to all space problems. Compared to round silos, they offer up to 35% more space and can be flexibly adapted in terms of room height and layout.

Modular silos

For the storage of grain or other floury goods with 45° or 60° outlet funnel. Can be used as a small component silo or as a large storage silo with capacities from 0.3 m³ to 67m³.



HIMEL round silo with blower mill



HIMEL UV fabric silos with feed mixer and blower mill



HIMEL rectangular silo with screw conveyor with hopper



HIMEL outdoor silos with filling via trough augers

HIMEL outdoor silos

Highest quality and best functionality. HIMEL outdoor silos are available in all standard sizes, so you can always find the ideal solution for your business. The highest quality steel gives our outdoor silos the necessary stability and long service life.

HIMEL supplies outdoor silos as single units or as complete systems. The programme includes all products from the grain gutter to the loading equipment.

- Short assembly times
- Simple construction, the favourable solution
- Silo diameters from Ø1.85 m - Ø30.00 m and silo heights up to 27 m
- Robust construction in system design
- Static calculations according to DIN
- Computer-aided 3D CAD planning



HIMEL modular silos with high-performance mill

GRP silos...

are used for outdoor mixed feed storage. They are completely welded at the hopper transition and lid and are therefore absolutely watertight. Many accessories round off the range.



HIMEL GRP mixed feed silos with augers

HIMEL round silos

are suitable for indoor installation. They are made of galvanised corrugated sheet metal with a high zinc coating and are the most cost-effective silo type from HIMEL for the gentle storage of grain and pulses.

- The sturdy silos for indoor installation can hold up to 300 tonnes and are supplied as a modular system for easy self-assembly with screw material.
- The special corrugation of the metal sheets minimises the load on the walls of the round silos. This design effectively prevents the silo rings from buckling. Useful accessories include supports (standard from a height of 4.20 m), access door, discharge pipe and the hopper substructure
- The basic equipment for ventilation, blower connection with Ø150mm (Ø300mm) silo feed-through and galvanised ventilation ducts with end cover
- Removal takes place via a screw conveyor, a suction & pressure grain blower or via a hopper substructure

Your advantages:

- Simple assembly
- Favourable purchase price
- Sturdy design
- No deposits on the silo wall

Reinforced sheet metal 0.8 mm with large corrugation

Silo height in m	Number of Silo rings
1,80 / 1,68	2
2,68 / 2,52	3
3,56 / 3,36	4
4,44 / 4,20	5
5,32 / 5,04	6
6,21 / 5,88	7
7,11	8*
7,99	9*
8,87	10*

Silo Ø in m	Number of silage trays
1,90	2
2,37 / 2,74	3
3,64	4
4,55, 4,72	5
5,46	6
6,37	7



Round silo with access door, discharge pipe and ventilation connection Ø300mm

Round silos indoor installation

Order no.	Article description	Content/m³	Content/to.	excl. VAT	incl. VAT
0002629	Round silo ø2.74m h=1.80m without supports	11	8	589,00	700,91
0002630	Round silo ø2.74m h=2.68m without supports	16	12	812,00	966,28
0002631	Round silo ø2.74m h=3.56m without supports	21	16	1.076,00	1.280,44
0002632	Round silo ø2.74m h=4.44m with supports	26	20	1.536,00	1.827,84
0002633	Round silo ø2.74m h=5.32m with supports	31	25	1.964,00	2.337,16
0002634	Round silo ø2.74m h=6.21m with supports	37	29	2.228,00	2.651,32
0002636	Round silo ø3.64m h=1.80m without supports	19	15	738,00	878,22
0002637	Round silo ø3.64m h=2.68m without supports	28	22	1.076,00	1.280,44
0002638	Round silo ø3.64m h=3.56m without supports	37	29	1.415,00	1.683,85
0002639	Round silo ø3.64m h=4.44m with supports	46	36	2.028,00	2.413,32
0002640	Round silo ø3.64m h=5.32m with supports	55	43	2.585,00	3.076,15
0002641	Round silo ø3.64m h=6.21m with supports	65	50	2.923,00	3.478,37
0000901	Round silo ø3.64m h=7.11m with supports*	74	58		
0000902	Round silo ø3.64m h=7.99m with supports*	83	65		
0000903	Round silo ø3.64m h=8.87m with supports*	92	72		
0000904	Round silo ø3.64m h=9.75m with supports*	101	79	1.834,00	2.182,46
0002613	Round silo ø4.55m h=1.80m without supports	29	23	887,00	1.055,53
0002614	Round silo ø4.55m h=2.68m without supports	44	34	1.300,00	1.547,00
0002615	Round silo ø4.55m h=3.56m without supports	58	45	1.713,00	2.038,47
0002616	Round silo ø4.55m h=4.44m with supports	72	56	2.520,00	2.998,80
0002617	Round silo ø4.55m h=5.32m with supports	87	68	3.206,00	3.815,14
0002618	Round silo ø4.55m h=6.21m with supports	101	79	3.619,00	4.306,61
0000906	Round silo ø4.55m h=7.11m with supports*	115	90		
0000907	Round silo ø4.55m h=7.99m with supports*	129	101		
0000908	Round silo ø4.55m h=8.87m with supports*	144	112		
0000909	Round silo ø4.55m h=9.75m with supports*	158	123		
0002620	Round silo ø5.46m h=1.80m without supports	42	33	1.076,00	1.280,44
0002621	Round silo ø5.46m h=2.68m without supports	63	49	1.564,00	1.861,16
0002622	Round silo ø5.46m h=3.56m without supports	83	65	2.051,00	2.440,69
0002623	Round silo ø5.46m h=4.44m with supports	104	81	3.012,00	3.584,28
0002624	Round silo ø5.46m h=5.32m with supports	125	97	3.827,00	4.554,13
0002625	Round silo ø5.46m h=6.21m with supports	145	113	4.355,00	5.182,45
0000911	Round silo ø5.46m h=7.11m with supports*	166	129		
0000912	Round silo ø5.46m h=7.99m with supports*	186	145		
0000913	Round silo ø5.46m h=8.87m with supports*	207	161		
0000914	Round silo ø5.46m h=9.75m with supports*	228	178		
0001170	Round silo ø6.37m h=2.68m without supports	85	67	1.828,00	2.175,32
0001171	Round silo ø6.37m h=3.56m without supports	114	89	2.535,00	3.016,65
0001172	Round silo ø6.37m h=4.44m with supports	142	110	3.504,00	4.169,76
0001173	Round silo ø6.37m h=5.32m with supports	170	132	4.488,00	5.340,72
0001174	Round silo ø6.37m h=6.21m with supports	198	154	5.050,00	6.009,50
0000916	Round silo ø6.37m h=7.11m with supports*	226	176		
0000917	Round silo ø6.37m h=7.99m with supports*	254	198		
0000918	Round silo ø6.37m h=8.87m with supports*	282	220		
0000919	Round silo ø6.37m h=9.75m with supports*	310	242		

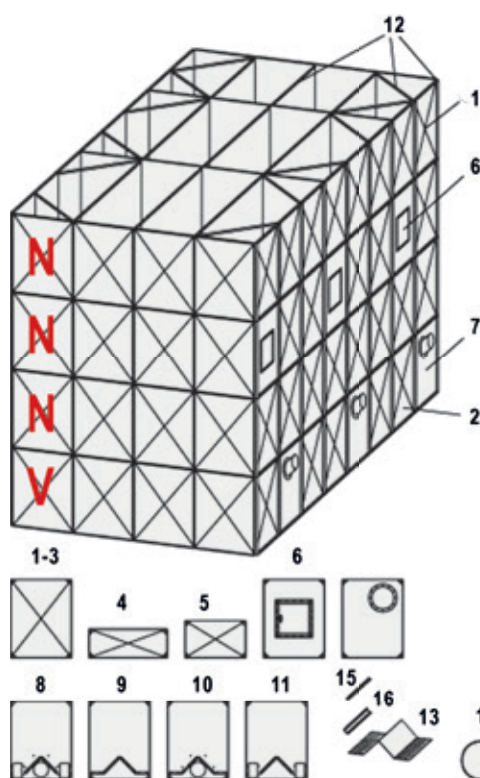
Order no.	Article description	Content/m³	Content/to.	excl. VAT	incl. VAT
0000661	Round silo Ø1.90 m h=2.52 m without supports	7	6	553,00	658,07
0000662	Round silo Ø1.90 m h=3.36 m without supports	9	7	718,00	854,42
0000663	Round silo Ø1.90 m h=4.20 m without supports	12	9	1.042,00	1.239,98
0000664	Round silo Ø1.90 m h=5.04 m with supports	14	11	1.316,00	1.566,04
0000665	Round silo Ø1.90 m h=5.88 m with supports	16	13	1.482,00	1.763,58
0001716	Round silo Ø2.37 m h=2.52 m without supports	11	9	709,00	843,71
0001717	Round silo Ø2.37 m h=3.36 m without supports	15	11	927,00	1.103,13
0001718	Round silo Ø2.37 m h=4.20 m with supports	18	14	1.381,00	1.643,39
0001719	Round silo Ø2.37 m h=5.04 m with supports	22	17	1.762,00	2.096,78
0001720	Round silo Ø2.37 m h=5.88 m with supports	26	20	1.980,00	2.356,20
0000676	Round silo Ø4.73 m h=2.52 m without supports	45	35	1.251,00	1.488,69
0000677	Round silo Ø4.73 m h=3.36 m without supports	59	46	1.651,00	1.964,69
0000678	Round silo Ø4.73 m h=4.20 m with supports	74	58	2.448,00	2.913,12
0000679	Round silo Ø4.73 m h=5.04 m with supports	89	70	3.120,00	3.712,80
0000680	Round silo Ø4.73 m h=5.88 m with supports	104	81	3.520,00	4.188,80

Rectangular Storage Silos

Order no.	Article description	Pos.	excl. VAT	incl. VAT
1300036	Silo plate 1320 x 1030mm (N) normal	1	101,00	120,19
1300037	Silo plate 1320 x 1030mm (V) reinforced	2	132,00	157,08
1300038	Silo plate 1320 x 1030mm (SV) heavily reinforced	3	145,00	172,55
1300039	Silo plate 1320 x 485mm (N) only for silo elevation	4	67,00	79,73
1300040	Silo plate 1030 x 640mm (N) only for silo extension	5	67,00	79,73
1300022	Access door for round and rectangular silos	6	166,00	197,54
1300148	Unloading pipe with frame for rectangular silo	7	271,00	322,49
1300043	Silo plate 1320 x 1030mm with air inlet opening and with 2 outlet slides	8	457,00	543,83
1300044	Silo plate 1320 x 1030mm with connection holes for roof rider	9	193,00	229,67
1300045	Silo plate 1320 x 1030mm with air inlet opening without outlet slide	10	207,00	246,33
1300046	Silo plate 1320 x 1030mm with connection bracket and with 2 outlet slides	11	396,00	471,24
1300047	Connecting parts for 1 silo panel	12	34,00	40,46
1300048	Roof ridge ventilation duct with flow floor 1030 x 1030mm Without substructure	13	200,00	238,00
	Metal substructure for flow floor	On request		
1300050	End strip for silo wall l=1030mm	15	11,00	13,09
1300051	End plate silo partition wall l=1030mm	16	11,00	13,09
1300157	Internal air duct 1030 x 1030mm h=2.64 m walkable with stabilisers and screw material		761,00	905,59
1300151	Access door for air duct		476,00	566,44
1300052	Air duct Ø630mm x 1030mm with 1 connection piece Ø250mm, l=100mm and air slide	17	400,00	476,00
1300053	Air duct Ø630mm x 1030mm with 2 connection pieces Ø250mm, l=2 x 100mm and air slide	18	538,00	640,22
1300054	Air duct Ø630 x 40mm	19	98,00	116,62
1300055	Blower connection Ø500mm for air duct	20	148,00	176,12
0000583	Pipe clamp Ø630mm narrow version		84,00	99,96
1300056	Cover for air duct Ø630mm	21	91,00	108,29
1300126	Flap for underfloor air duct with pull rope l=2.0 m		249,00	296,31
2201848	Drainage slope RS for silo wall		10,00	11,90
	Packaging costs per 30 silo panels		34,00	40,46

Silo series	Sheet	Height	Thickness
1.	N	1,32	0,75mm
2.	N	2,64	0,75mm
3.	N	3,96	0,75mm
4.	V	5,28	1,00mm

Silo series	Sheet	Height	Thickness
5.	V	6,60	1,00mm
6.	SV	7,92	1,00mm
7.	SV	9,24	1,00mm



Ventilation from the front max. 15 tonnes/h

Ventilation from the rear max. 12 tonnes/h

Ventilation opposite from the front max. 15 tonnes/h

Basic equipment

Modular system for self-assembly of rectangular storage silos:

The galvanised silo panels have external dimensions of 1320 x 1030 mm and are assembled on edge or flat edge to form complete silo systems.

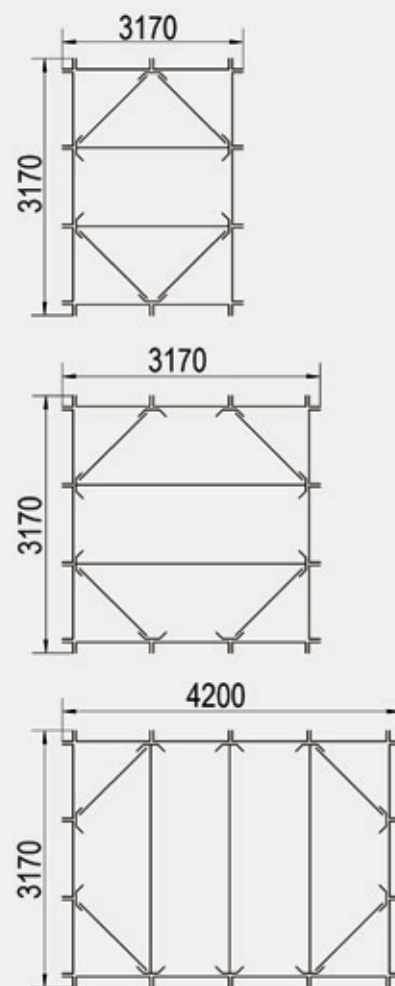
Available in three different versions, normal (N), reinforced (V) and heavily reinforced (SV). These can be built up to a maximum silo height of 9.24 metres.

In order to achieve optimum space utilisation, half-height silo panels 1320 x 485 mm or 1030 x 625 mm can be used for the silo elevation.

A flat rate is charged per silo panel for the required connecting parts (item 12): Diagonal braces, cross braces, connecting rails and screw material.

Modular system for self-assembly of flow floors

HIMEL flow floors are suitable for aeration drying as well as for pneumatic residual emptying of rectangular storage silos. The galvanised components for creating flow floors are only suitable for rectangular storage silos with upright mounted silo panels.



HIMEL UV fabric silos

are ideal for storing concentrated feed for all types of feeding. The breathable silage fabric guarantees perfect air circulation and thus prevents the condensation and mould formation in the silo. This keeps the feed valuable and fresh.

- Ideal for all free-flowing bulk and stored goods
- Clean storage of mealy goods, such as finished feed or compound feed
- Quick and easy assembly of the rack
- With automatic hopper as standard (leak-proof)
- Closed lid with filling and venting spout
- Simple attachment of HIMEL spiral conveyors or HIMEL screw conveyors
- With steel frame on request
- Highest UV resistance
- Durable and stable in value

We design the customised silo solution so that your space is optimally utilised.



Stainless steel outlet slide



UV fabric silos



HIMEL UV fabric silo with additional side outlet

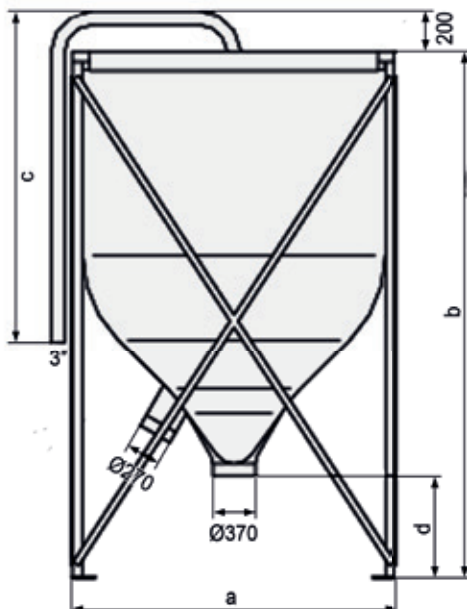


UV Fabric Silo

Order no.	Article description	excl. VAT	incl. VAT
0000732	S20 UV fabric silo 3.2m³ silo bag	653,00	777,07
0000734	G20 UV fabric silo 3.2m³ with galvanised steel frame	1.353,00	1.610,07
1300015	Filling line for silo S20 and G20	285,00	339,15
0000736	S35 UV fabric silo 5.4m³ silo bag	748,00	890,12
0000738	G35 UV fabric silo 5.4m³ with galvanised steel frame	1.630,00	1.939,70
1300016	Filling pipe for silo S35 and G35	302,00	359,38
0000740	S50 UV fabric silo 7.8m³ silo bag	1.042,00	1.239,98
0000742	G50 UV fabric silo 7.8m³ with galvanised steel frame	1.997,00	2.376,43
1300017	Filling pipe for silo S50 and G50	329,00	391,51
0000744	S63 UV fabric silo 9.9m³ silo bag	1.130,00	1.344,70
0000746	G63 UV fabric silo 9.9m³ with galvanised steel frame	2.251,00	2.678,69
1300018	Filling line for silo S63 and G63	337,00	401,03
0000748	S95 UV fabric silo 14.8m³ silo bag	1.421,00	1.690,99
0000750	G95 UV fabric silo 14.8m³ with galvanised steel frame	3.071,00	3.654,49
1300019	Filling line for silo S95 and G95	381,00	453,39
0000752	S124 UV fabric silo 19.9m³ silo bag	1.558,00	1.854,02
0000754	G124 UV fabric silo 19.9m³ with galvanised steel frame	3.257,00	3.875,83
1300020	Filling line for silo S124 and G124	388,00	461,72
0000756	S160 UV fabric silo 26.0m³ silo bag	3.113,00	3.704,47
0000758	G160 UV fabric silo 26.0m³ with galvanised steel frame	6.867,00	8.171,73
1300021	Filling pipe for silo S160 and G160	467,00	555,73

Accessories for UV silo

Order no.	Article description	excl. VAT	incl. VAT
3000231	Outlet slide Ø250mm stainless steel with tensioning strap	175,00	208,25
3000232	Outlet slide Ø350mm stainless steel with tensioning strap	197,00	234,43
3001706	Flat slide gate 300 x 300mm	92,00	109,48
1400009	Transition Ø350mm - 300 x 300mm	101,00	120,19
3001844	Outlet pipe Ø350mm l=0,08m	48,00	57,12
3000308	TW - Coupling type VK-80 3" made of brass	32,00	38,08
3002913	TW - Coupling type VK-100 4" made of brass	124,00	147,56
3003262	TW - Coupling type Storz 100-4" made of aluminium	124,00	147,56
3000165	Flexible transition Ø350mm l=0,5m	119,00	141,61
3002992	Clamping ring 2-piece Ø350mm, with soft seal	25,00	29,75
3000397	Hose clamp Ø250mm (b=12mm)	4,00	4,76
3002024	Hose clamp Ø350mm (b=14mm)	9,00	10,71
3001978	Pipe Ø3" per running metre, s=2.0 mm	21,00	24,99
3001963	Bend Ø3" 90° r=205mm s=3.2mm	40,00	47,60
1400036	Connecting sleeve 3"	14,00	16,66
5040057	Weld-on nipple 3"	24,00	28,56
3002404	Pipe clamp 3" for wall mounting galvanised	40,00	47,60
3001566	Pipe clamp 4" for wall mounting galvanised	27,00	32,13
2900142	Pipe flange for 3" pipe	13,00	15,47
2903661	Pipe flange for 4" pipework	20,00	23,80
0922041	Filling nozzle 4" outside silo	196,00	233,24
1100707	Bracket suitable for height-adjustable level indicator	97,00	115,43



UV fabric silo - content and weight

Silo	m³	to	Weight
20	3,2	2,1	180
35	5,4	3,5	210
50	7,8	5,1	260
63	9,9	6,4	270
95	14,8	9,6	430
124	19,9	12,9	470

UV fabric silo - dimensions

Silo	a	b*	c	d
20	1,61	2,98	1,60	0,70
35	1,92	3,33	1,95	0,70
50	2,20	3,82	2,50	0,90
63	2,20	4,37	3,05	0,90
95	2,53	5,01	3,65	1,00
124	2,53	5,71	4,35	1,00
160	2,99	5,50	4,15	0,80

Bulk density 650kg/m³, dimensions in metres

* = height reduction possible

Basic equipment

With UV-resistant silo walls against sunlight (DBP)

- Breathable UV fabric silos made of high-strength material for the longest service life
- Galvanised steel frame
- Capacity from 2 - 45 m³
- Closed lid with Ø180 mm filling and venting spout
- Leak-proof due to automatic funnel with 60° inclination (stepped outlet)
- Large outlet spout Ø350mm
- Side outlet Ø250mm, additionally for convenient feed removal
- Silos with support frame or rack in modular system for easy self-assembly
- On request with stainless steel slide Ø250mm and Ø350mm
- Resistant to propionic acid

For a wooden support frame (self-build) we recommend the S - type silos with longer hanging loops.

Special sizes on request!

Silos suitable for food storage!

With PVC coating for minerals on request.

Please note when ordering:

Slide or auger discharge



Changing the silo without dismantling the frame



Repair/replaceable silo with quick assembly system on request.

HIMEL modular silo

...for the storage of grain or floury goods with 45° or 60° discharge hopper.
Can be used as a small component silo or as a large storage silo with capacities from 0.3m³ to 67m³.

- Large discharge gates for safe removal
- With viewing window for fill level control on request
- Split slides for larger 60° silos
- Variable discharge heights thanks to extension feet (accessory), for optimum adaptation to HIMEL conveyor units
- Modular system for cost-effective and simple self-assembly

With silo cover on request

Accessories:
HIMEL spiral conveyors,
HIMEL tube chain conveyor

**„Quickly and gently
from the silo to the
animal“**



HIMEL modular silo with filling line and venting filter (special accessory)



Agrar silo 45°

Order no.	Article description	Content/m ³	Content/to	excl. VAT	incl. VAT
0003318	Agrar silo 100/45° h=2.26	1	1	1.551,00	1.845,69
0003319	Agrar silo 100/45° h=3.52	2	2	2.005,00	2.385,95
0003320	Agrar silo 100/45° h=4.78	4	2	2.458,00	2.925,02
0003321	Agrar silo 100/45° h=6.04	5	3	2.911,00	3.464,09
0003322	Agrar silo 125/45° h=2.36	2	1	1.998,00	2.377,62
0003323	Agrar silo 125/45° h=3.62	4	3	2.477,00	2.947,63
0003324	Agrar silo 125/45° h=4.88	6	4	3.022,00	3.596,18
0003325	Agrar silo 125/45° h=6.14	8	5	3.570,00	4.248,30
0003326	Agrar silo 150/45° h=2.52	3	2	1.858,00	2.211,02
0003327	Agrar silo 150/45° h=3.78	6	4	2.248,00	2.675,12
0003328	Agrar silo 150/45° h=5.04	8	5	2.897,00	3.447,43
0003329	Agrar silo 150/45° h=6.30	11	7	3.541,00	4.213,79
0003330	Agrar silo 200/45° h=2.82	6	4	2.555,00	3.040,45
0003331	Agrar silo 200/45° h=4.08	11	7	3.668,00	3.650,92
0003332	Agrar silo 200/45° h=5.34	16	10	3.694,00	4.395,86
0003333	Agrar silo 200/45° h=6.60	20	13	4.300,00	5.117,00
0003334	Agrar silo 250/45° h=2.39	6	4	3.539,00	4.211,41
0003335	Agrar silo 250/45° h=4.28	18	11	4.787,00	5.696,53
0003336	Agrar silo 250/45° h=6.17	29	19	6.357,00	7.564,83
0003337	Agrar silo 300/45° h=2.59	9	6	4.672,00	5.559,68
0003338	Agrar silo 300/45° h=4.48	25	16	6.412,00	7.630,28
0003339	Agrar silo 300/45° h=6.37	41	27	8.727,00	10.385,13

Agrar silo 60°

Order no.	Article description	Content/m ³	Content/to	excl. VAT	incl. VAT
0003340	Agrar silo 100/60° h=2.46	1	1	1.571,00	1.869,49
0003341	Agrar silo 100/60° h=3.72	3	2	2.025,00	2.409,75
0003342	Agrar silo 100/60° h=4.98	4	2	2.477,00	2.947,63
0003343	Agrar silo 100/60° h=6.24	5	3	2.931,00	3.487,89
0003344	Agrar silo 125/60° h=2.66	2	2	2.254,00	2.682,26
0003345	Agrar silo 125/60° h=3.92	4	3	2.481,00	2.952,39
0003346	Agrar silo 125/60° h=5.18	6	4	2.959,00	3.521,21
0003347	Agrar silo 125/60° h=6.44	8	5	3.650,00	4.343,50
0003348	Agrar silo 150/60° h=2.91	4	2	2.104,00	2.503,76
0003349	Agrar silo 150/60° h=4.17	6	4	2.543,00	3.026,17
0003350	Agrar silo 150/60° h=5.43	9	6	2.984,00	3.550,96
0003351	Agrar silo 150/60° h=6.69	11	7	3.690,00	4.391,10
0003352	Agrar silo 200/60° h=3.32	7	5	2.734,00	3.253,46
0003391	Agrar silo 200/60° h=4.58	12	8	3.297,00	3.923,43
0003392	Agrar silo 200/60° h=5.84	17	11	3.861,00	4.594,59
0003393	Agrar silo 200/60° h=7.10	21	14	4.520,00	5.378,80
0003356	Agrar silo 250/60° h=3.82	12	8	4.388,00	5.221,72
0003357	Agrar silo 250/60° h=5.08	19	16	5.011,00	5.963,09
0003358	Agrar silo 250/60° h=6.34	27	18	6.325,00	7.526,75
0003394	Agrar silo 300/60° h=4.22	18	11	5.772,00	6.868,68
0003395	Agrar silo 300/60° h=5.48	28	18	6.912,00	8.225,28
0003396	Agrar silo 300/60° h=6.74	39	25	8.629,00	10.268,51

Basic equipment

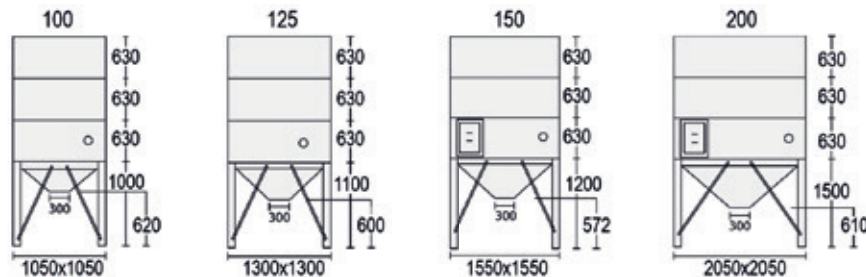
- Up to a maximum bulk density of 780kg/m³
- Outlet 300x300mm with shut-off valve
- Modular system for quick and inexpensive inexpensive self-assembly
- For indoor installation in galvanised sturdy design
- Low freight costs due to complete delivery on a pallet
- Modular silos Agrar are supplied with inspection hatch, inspection glass, manually operated slider and steel cover
- Optimised, simple base construction for quick assembly
- Hopper without partition wall
- Smooth inner silo wall
- Also suitable for pellets and feed pellets

Modular silo agrar rectangular on request!

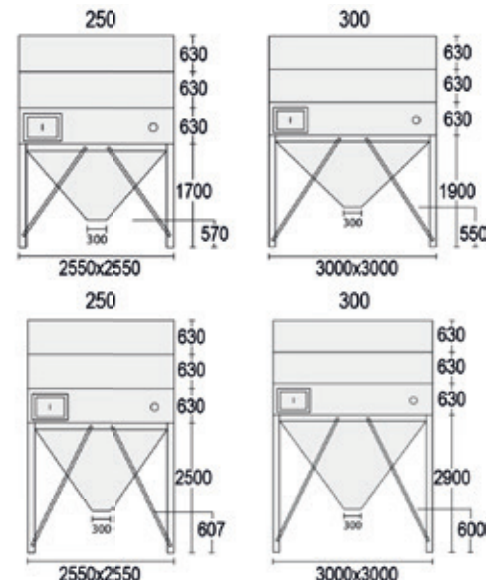
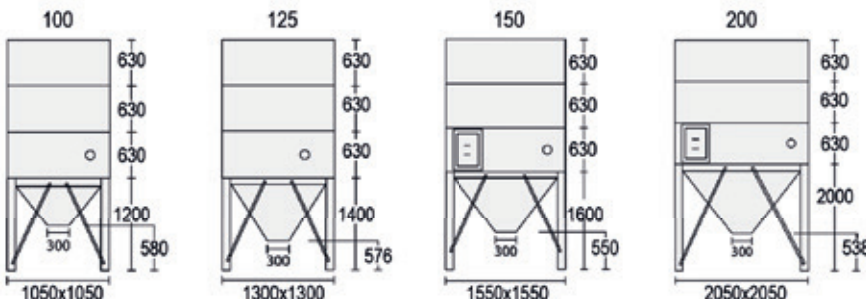


Modular silo agrar

Modular silo Agrar 45°



Modular silo Agrar 60°



HIMEL outdoor silos

combine, as in all HIMEL products, the highest quality and best functionality.

HIMEL outdoor silos are available in all standard sizes to ensure that you always find the ideal solution for your business.

The highest steel quality (galvanised) gives our outdoor silos the necessary stability and long service life. We fulfil the DIN standards required for site approval.

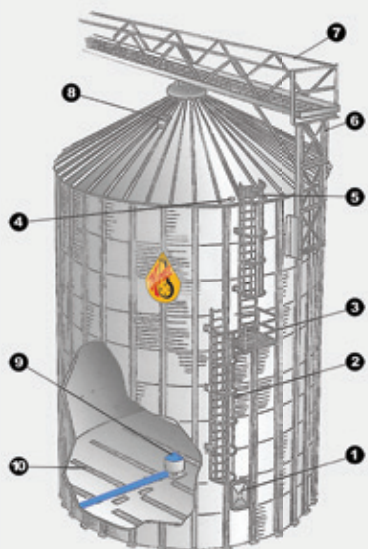
- Short assembly times
- Simple construction, the favourable solution
- Silo diameters from Ø1.85 m - Ø30.00 m and silo heights up to 27 m
- Robust construction in system design
- Static calculations according to DIN
- Computer-aided 3D CAD planning

HIMEL supplies outdoor silos as single units or as complete systems. The programme includes all products from the grain bin to the loading equipment. You decide whether all points should be operated manually or whether you want to control the functions from the HIMEL control cabinet.

Silo Ø in m	Quantity Silo sheets	Silo Ø in m	Quantity Silo sheets
3,64	4	10,00	11
4,55	5	10,91	12
5,46	6	12,73	14
6,37	7	14,55	16
7,28	8	16,37	18
8,19	9	18,19	20
9,10	10	20,00	22

Your concrete offer:

The prices for outdoor silos are approximate prices. We will be happy to provide you with a precise quotation, taking into account snow load, wind load and earthquake zone.



Outdoor silos – galvanised

Order no.	Article description	Cylinder height	Rings	Inh/to	Vol/m³	excl. VAT	incl. VAT
0002851	Round silo Ø3.64m h=5.43m	4	5	39	50	5.753,00	6.846,07
0002852	Round silo Ø3.64m h=6.31m	5	6	46	59	6.152,00	7.320,88
0002853	Round silo Ø3.64m h=7.19m	6	7	53	68	6.735,00	8.014,65
0002854	Round silo Ø3.64m h=8.07m	7	8	60	77	7.231,00	8.604,89
0002855	Round silo Ø3.64m h=8.95m	8	9	67	86	7.759,00	9.233,21
0002856	Round silo Ø3.64m h=9.83m	9	10	74	95	8.248,00	9.815,12
0002857	Round silo Ø3.64m h=10.71m	10	11	82	104	8.833,00	10.511,27
0002858	Round silo Ø3.64m h=11.59m	11	12	89	114	9.315,00	11.084,85
0002859	Round silo Ø3.64m h=12.47m	11	13	96	123	10.123,00	12.046,37
0002860	Round silo Ø3.64m h=13.35m	12	14	103	132	10.573,00	12.581,87
0002861	Extraction pipe Ø300mm					768,00	913,92
0002862	Roof ladder					571,00	679,49
0002863	Y - ventilation connection Ø300mm					340,00	404,60
0003024	Floor anchor set for silo Ø3.64m					100,00	119,00
0002864	Round silo Ø4.55m h=5.69m	4	5	61	79	6.716,00	7.992,04
0002865	Round silo Ø4.55m h=6.57m	5	6	73	93	7.217,00	8.588,23
0002866	Round silo Ø4.55m h=7.45m	6	7	84	107	7.953,00	9.464,07
0002867	Round silo Ø4.55m h=8.33m	7	8	95	122	8.512,00	10.129,28
0002868	Round silo Ø4.55m h=9.21m	8	9	106	136	9.233,00	10.987,27
0002869	Round silo Ø4.55m h=10.09m	9	10	117	150	9.845,00	11.715,55
0002870	Round silo Ø4.55m h=10.97m	10	11	128	164	10.569,00	12.577,11
0002871	Round silo Ø4.55m h=11.85m	11	12	140	179	11.178,00	13.301,82
0002872	Round silo Ø4.55m h=12.73m	11	13	151	193	11.953,00	14.224,07
0002873	Round silo Ø4.55m h=13.61m	12	14	162	207	12.686,00	15.096,34
0002874	Extraction pipe Ø300mm					791,00	941,29
0002875	Roof ladder					486,00	578,34
0002876	Y - ventilation connection Ø300mm					360,00	428,40
0003025	Floor anchor set for silo Ø4.55m					125,00	148,75
0002877	Round silo Ø5.46m h=5.95m	4	5	90	115	7.766,00	9.241,54
0002878	Round silo Ø5.46m h=6.83m	5	6	106	136	8.444,00	10.048,36
0002879	Round silo Ø5.46m h=7.71m	6	7	122	156	9.245,00	11.001,55
0002880	Round silo Ø5.46m h=8.59m	7	8	138	177	9.920,00	11.804,80
0002881	Round silo Ø5.46m h=9.47m	8	9	154	198	10.786,00	12.835,34
0002882	Round silo Ø5.46m h=10.35m	9	10	170	218	11.517,00	13.705,23
0002883	Round silo Ø5.46m h=11.23m	10	11	186	239	12.391,00	14.745,29
0002884	Round silo Ø5.46m h=12.11m	11	12	202	259	13.255,00	15.773,45
0002885	Round silo Ø5.46m h=12.99m	11	13	218	280	14.056,00	16.726,64
0002886	Round silo Ø5.46m h=13.87m	12	14	234	300	14.990,00	17.838,10
0002887	Extraction pipe Ø300mm					817,00	972,23
0002888	Roof ladder					728,00	866,32
0002889	Y - ventilation connection Ø300mm					410,00	487,90
0003026	Floor anchor set for silo Ø5.46m					150,00	178,50
0002890	Round silo Ø6.37m h=6.22m	4	5	125	159	8.875,00	10.561,25
0002891	Round silo Ø6.37m h=7.10m	5	6	146	187	9.661,00	11.496,59
0002892	Round silo Ø6.37m h=7.98m	6	7	168	215	10.600,00	12.614,00
0002893	Round silo Ø6.37m h=8.86m	7	8	190	243	11.389,00	13.552,91
0002894	Round silo Ø6.37m h=9.74m	8	9	212	271	12.401,00	14.757,19
0002895	Round silo Ø6.37m h=10.62m	9	10	234	299	13.252,00	15.769,88
0002896	Round silo Ø6.37m h=11.50m	10	11	256	327	14.274,00	16.986,06
0002897	Round silo Ø6.37m h=12.38m	11	12	278	355	15.278,00	18.180,82
0002898	Round silo Ø6.37m h=13.26m	11	13	300	383	16.207,00	19.286,33
0002899	Round silo Ø6.37m h=14.14m	12	14	322	411	17.458,00	20.775,02
0002900	Extraction pipe Ø300mm					876,00	1.042,44
0002901	Roof ladder					739,00	879,41
0002902	Y-ventilation connection Ø300mm					420,00	499,80
0003027	Floor anchor set for silo Ø6.37m					175,00	208,25
0002903	Round silo Ø7.28m h=9.12m	7	8	250	321	12.911,00	15.364,09
0002904	Round silo Ø7.28m h=10.00m	8	9	280	358	14.061,00	16.732,59
0002905	Round silo Ø7.28m h=10.88m	9	10	308	394	15.080,00	17.945,20
0002906	Round silo Ø7.28m h=11.76m	10	11	337	431	16.333,00	19.436,27
0002907	Round silo Ø7.28m h=12.64m	11	12	365	468	17.526,00	20.855,94
0002908	Round silo Ø7.28m h=13.52m	11	13	394	504	18.797,00	22.368,43
0002909	Round silo Ø7.28m h=14.40m	12	14	422	541	19.975,00	23.770,25
0002910	Round silo Ø7.28m h=15.28m	13	15	451	577	21.415,00	25.483,85
0002911	Round silo Ø7.28m h=16.16m	14	16	480	614	22.756,00	27.079,64
0002912	Extraction pipe Ø300mm					988,00	1.175,72
0002913	Roof ladder					754,00	897,26
0002914	Y - ventilation connection Ø300mm					450,00	535,50
0003028	Floor anchor set for silo Ø7.28m					200,00	238,00

- 1) Access door
- 2) Access ladder
- 3) Rest platform
- 4) Holder Level indicator
- 5) Roof hatch
- 6) Catwalk support
- 7) Walkway
- 8) Temperature measuring hanger bracket
- 9) Sweeping screw
- 10) Ventilation system

GRP mixed feed silos

Order no.	Article description	Content/m³	Content/ to.	excl. VAT	incl. VAT
0087501	GRP mixed feed silo HEM4 smooth-wall hopper with filling and venting pipe 3 feet	4	3	3.142,00	3.738,98
0087502	GRP mixed feed silo HEM6 Smooth-walled hopper with filling and ventilation pipe 3 feet	6	4	3.784,00	4.502,96
0087503	GRP mixed feed silo HEM8 smooth wall hopper with filling and ventilation pipe 3 feet	8	5	4.355,00	5.182,45
0087504	GRP mixed feed silo HEM10 smooth-wall hopper with filling and ventilation pipe 3 feet	10	6	4.617,00	5.494,23
0087505	GRP mixed feed silo HEM12 smooth wall hopper with filling and ventilation pipe 3 feet	12	7	4.974,00	5.919,06
0087506	GRP mixed feed silo HEM15 smooth wall hopper with filling and ventilation pipe 3 feet	15	9	5.688,00	6.768,72
0087507	GRP mixed feed silo HEM18 smooth wall hopper with filling and ventilation pipe 4 feet	18	11	6.593,00	7.845,67
0087508	GRP mixed feed silo HEM20 smooth-wall hopper with filling and ventilation pipe 4 feet	20	12	6.950,00	8.270,50
0087509	GRP mixed feed silo HEM23 smooth wall hopper with filling and ventilation pipe 4 feet	23	14	7.783,00	9.261,77
0087511	GRP mixed feed silo HEM26 smooth-wall hopper with filling and ventilation pipe 4 feet	26	16	8.925,00	10.620,75
0087512	GRP mixed feed silo HEM31 smooth-wall hopper with filling and ventilation pipe 4 feet	31	19	10.308,00	12.266,52
0087017	Ground anchor set up to 15m³ (3 pieces)			36,00	42,84
0087018	Ground anchor set from 18m³ (8 pieces)			57,00	67,83
0087019	Spiral box adapter with hand slide 45° suitable for 75mm spiral			508,00	604,52
0087023	Spiral box adapter with hand slide 45° suitable for 110mm spiral			510,00	606,90
0087020	Screw conveyor attachment kit 152 with seal Chains and connecting clamps			123,00	146,37
0087021	Attachment kit screw conveyor 102 with seal Chains and connecting clamps			123,00	146,37
1300199	Transition GRP silo slide to 300x300mm Suitable for spiral and tube chain feed hoppers			214,00	254,66
0087528	Coloured silo (green, brown, transparent) up to 15m³			160,00	190,40
0087529	Coloured silo (green, brown, transparent) up to 31m³			289,00	343,91
0087522	Cleaning hatch			421,00	500,99
3000308	TW - Coupling type VK-80 3" made of brass			32,00	38,08
1300193	Filling nozzle 3", galvanised with flange ring			183,00	217,77
1300363	Fastening bracket for rubber pipes on GRP silo			68,00	80,92

Radio remote control

Order no.	Article description	excl. VAT	incl. VAT
0002386	4-channel radio remote control for 1 unit up to 4kW	786,00	935,34
0002387	4-channel radio remote control for 2 units up to 4kW	1.037,00	1.234,03
0002388	4-channel radio remote control for 3 units up to 4kW	1.311,00	1.560,09
0002389	4-channel radio remote control for 4 units up to 4kW	1.581,00	1.881,39
0002390	Additional 4-channel hand-held transmitter	119,00	141,61

Freight rates

Order no.	Article description	excl. VAT	incl. VAT
	Freight set for postcodes 7 and 8	381,00	453,39
	Freight set for postcodes 6 and 9	475,00	565,25
	Freight set for postcodes 0 and 3	600,00	714,00
	Freight set for other postcodes	824,00	980,56



Radio remote control



Rain run-off edge

GRP compound feed silos

are used for storing compound feed outdoors. They are completely welded at the hopper. They are completely welded at the hopper transition and lid and are therefore absolutely watertight.

A HIMEL GRP compound feed silo is not made from two half shells as is usually the case, but is manufactured in one piece after removal from the mould.

The decisive difference:

In contrast to conventional GRP silos made from half-shells, GRP mixed feed silos do not deform during transport and are therefore one hundred per cent accurate.

The bend of the filling line is not designed as a segment, but as a round one - this means that the conveyed material enters the silo much more gently. In addition, the pipe cross-section is not narrowed in this way: this enables maximum filling capacity and at the same time prevents chafing edges and any kind of consequential damage.

The horizontal silo system is conically shaped at the top to ensure that the material can flow safely and as quickly as possible.

The silo's load is taken up by a horizontal joint that is reinforced with steel inserts. As a result, the GRP silo body is not subjected to high point loads. Thanks to a special manufacturing process, the discharge hopper is very smooth and resembles a painted surface. The HIMEL smooth-wall hopper therefore enables optimum discharge behaviour.

The horizontal joint is additionally encapsulated with glass fibre after assembly: This alone guarantees absolute silo tightness. The rain drainage edge at the horizontal joint of the silo prevents rainwater rainwater reaches the discharge hopper. This protects the outlet slide or the auger or spiral box from moisture.

The complete transparency of the hopper allows the contents to be checked for optimum fill level and is therefore much easier to inspect than the standard narrow inspection strips.

An inspection hatch is available as an optional accessory.



GRP mixed feed silo green

Grain aeration

Grain is one of our most important food-stuffs and probably the most important component in the production of compound feed. It is cultivated worldwide with a great deal of effort, expertise and foresight, cared for in the field and finally harvested every summer under a wide variety of conditions.

But the harvest is not the end of the story! Grain is a living organism. The combination of HIMEL aeration fans, storage silos, flow floors and aeration channels ensure risk-free storage.

You retain the full nutritional value and germination capacity of the grain.

HIMEL aeration guide request free of charge!



HIMEL grain aeration (minimum aeration)

The aeration of grain with outside air serves to maintain freshness and prolong storage life. You should ensure that the grain is never stored above 18% moisture. The storage height is not decisive, but the distance between the channels (2 metres) and the flat distribution of the grain are, so that the grain is evenly ventilated. It would be an advantage if the grain is cleaned with a pre-cleaner before storage. The annoying straw particles, dust, chaff and light foreign bodies are removed, improving the air permeability and increasing the value of your grain at the same time.

However, the air blown in should be at least 5°C cooler than the temperature of the grain to prevent condensation forming in the upper layers of the grain.

Low outside temperatures ensure faster cooling of the grain, provided the humidity is below 75%. If the grain then has a temperature below 10°C, it can be stored for months and should then only be ventilated for approx. 2 hours every 2 weeks.

Which blower is the right one?

You can determine the right aeration fan for your operation by determining the required air volume and air pressure. The blower should deliver approx. 30m³ of air per hour per cubic metre of grain for small silos and approx. 15m³/h for large silos. The required air pressure is 15mm WS/m bulk height. The channel spacing should be 2m (3m for large silos).

For example:

Silo diameter 3m; height 5m; silo content 35m³
From this follows:

Air pressure= 15 x 5 = 75mm WS

Air volume= 35 x 30 = 1050m³/h.

This means that our smallest aeration blower TLR1 with 1.5kW is sufficient for this silo.

Maximum storage time for untreated feed grain (empirical values)

Humidity	Temperature	Storage time	Humidity	Temperature	Storage time
14%	15° C.	230 Days	14%	20° C.	160 Days
16%	15° C.	75 Days	16%	20° C.	50 Days
18%	15° C.	30 Days	18%	20° C.	20 Days
20%	15° C.	10 Days	20%	20° C.	8 Days



HIMEL ventilation drying

What do you do if the grain needs to be stored above 18%?

Freshly harvested grain cannot be stored for long if you store it at a moisture content above 17-18% (see table). However, you should never store above a height of 4-5 metres!

If a storage silo is simply designed as a quick-drying cell, the grain can be dried to 17-18% within one day or one night with heated air and then cooled by cold ventilation.

Calculation:

1°C air heating = 5% moisture reduction

If the air is heated by 6°C using a heating unit, for example, this results in a reduction in humidity of approx. 25% - 30%. With an actual air humidity of approx. 80%, this means that continuous drying takes place at approx. 50% - 55% air humidity.

The ventilation duct distance of one metre must not be exceeded. This changes the values for selecting the correct HIMEL ventilation fan. You need approx. 70 - 100m³ of air per hour and an air pressure of 40mm WS per metre of bulk height.

For example:

Silo diameter 3.8m, height 4m Silo content 45m³
It follows: Air pressure: 40 x 4 = 160mm WS
and air volume: 45 x 70 = 3150 m³/h.

This means that the HIMEL TLR 2 aeration blower with 2.2kW is sufficient for this silo with a capacity of approx. 34 tonnes. With this air volume, the main aeration time can be completed after approx. 2 weeks. If the whole process is to be completed more quickly, a higher air volume must be used for aeration.

Rule of thumb:

If the air temperature is 5°C lower than the grain temperature, aeration can be carried out without further ado! The relative humidity should not be below 65% and not above 75%!

If you want to achieve a higher air temperature in order to dry faster, you can place a burner in front of the intake side of the aeration fan. Do not heat the air to over ~80°C!

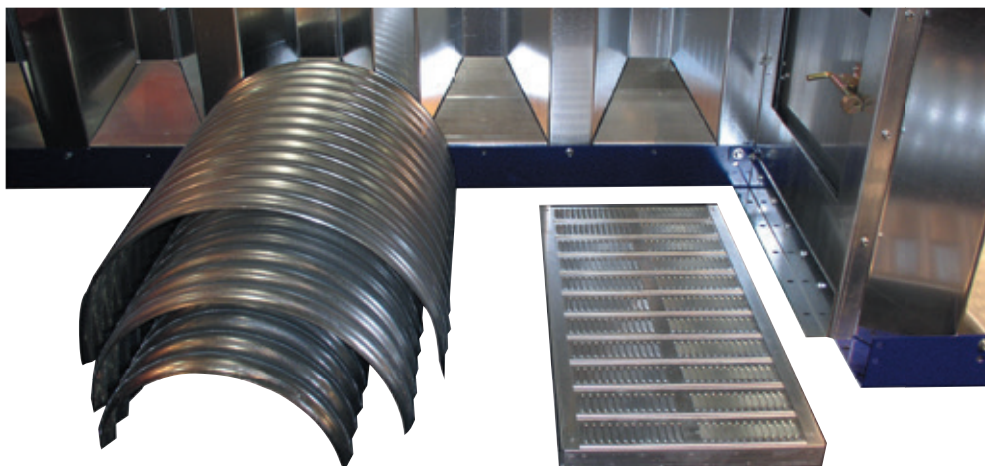
Caution: Do not place a gas flame in front of the fan, as natural gas, propane, butane and methane always burn to carbon dioxide and water! In this case, draw in the air via a pipe and heat the pipe = indirect drying.

Temperature measuring hanger

- Ideal for retrofitting in existing silos
- Low purchase price
- No hidden heat pockets (hot spots)
- Suitable for concrete silos, flat storage halls, round and rectangular silos of all types
- The measuring cable guarantees uniform temperature measurement over a diameter of up to Ø5m
- Additional control for the automatic grain ventilation system, on request
- Can be expanded at any time
- Complete scope of delivery for easy installation

Maximum dumping height

Height	Humidity	Height	Humidity
5,0m	Grain 18%	2,5m	Rapeseed 12%
4,0m	Grain 20%	2,0m	Rapeseed 16%
3,0m	Grain 24%	1,5m	Rapeseed 20%
2,5m	Grain 28%		



Round bend channels

Accessible ventilation grid



Temperature meter HTG

TLR aeration blower

for mobile use where high air pressures are required.

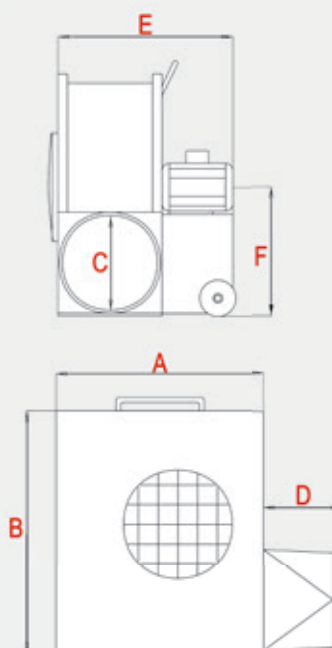
- Sturdy galvanised sheet steel housing with chassis and handle
- For mobile use
- Powerful electric motor direct drive (3000min⁻¹) 400V
- Pressure-stable with high storage silos
- For small to medium-sized storage facilities
- Intake opening with protective grille on the right and galvanised outlet nozzle
- Fast and effective with high pressure
- With motor protection switch
- Switch attachment
- Without ventilation hose
- Versatile, can be used for a wide range of ventilation systems
- With rain cover
- TLR2 - TLR6 with wheels

Ideal for keeping your grain healthy!

The use of a HIMEL aeration fan quickly pays for itself:
18% moist grain, is worth just under 5% less.



Ventilation hose l=1.5m,
Ø170mm with silo feed-through R48



TLR plug-in ventilation fan

Order no.	Article description	excl. VAT	incl. VAT
0002292	TLR2 aeration blower 2.2kW ready to plug in	1.376,00	1.637,44
0002293	TLR4 aeration blower 4.0kW ready to plug in	1.687,00	2.007,53
0002294	TLR5 aeration blower 5.5kW ready to plug in	2.535,00	3.016,65
0002295	TLR6 aeration blower 7.5kW ready to plug in	2.680,00	3.189,20
0002687	TLR7 aeration blower 11.0kW ready to plug in, without wheels	4.317,00	5.137,23
0002688	TLR8 aeration blower 15.0kW ready to plug in, without wheels	4.707,00	5.601,33

Ventilation fan accessories

Order no.	Article description	excl. VAT	incl. VAT
0001846	Ventilation hose Ø170mm 1.5m with two tensioning straps	67,00	79,73
0001847	Ventilation hose Ø320mm 1.5m with two tensioning straps	84,00	99,96
0003186	Ventilation hose Ø320mm 5.0m with two tensioning straps	329,00	391,51
0000604	Ventilation hose Ø320 - 170mm 1.5m with two tensioning straps	98,00	116,62
0000606	Ventilation hose Ø525 - 325mm 1.5m with two tensioning straps	149,00	177,31
3002909	Spiral duct Ø300, 0.25m, for aeration hose 320mm	40,00	47,60
4500496	Thermometer for grain temperature measurement in the silo	93,00	110,67
0001119	Chassis TLR 7 / 8	426,00	506,94

Maße	A	B	C	D	E	F	I	J	K	kg
TLR2	645	760	300	230	550	426	210	89	84	64
TLR4	645	760	300	275	625	448	285	92	86	87
TLR5	735	930	300	275	685	550	285	92	86	129
TLR6	735	930	300	310	765	550	285	97	89	136
TLR7	849	1044	500	350	826	642	400	97	92	203
TLR8	849	1044	500	350	875	642	400	98	92	231

I= ØEinlass J=dB ansaugseitig K=dB motorseitig

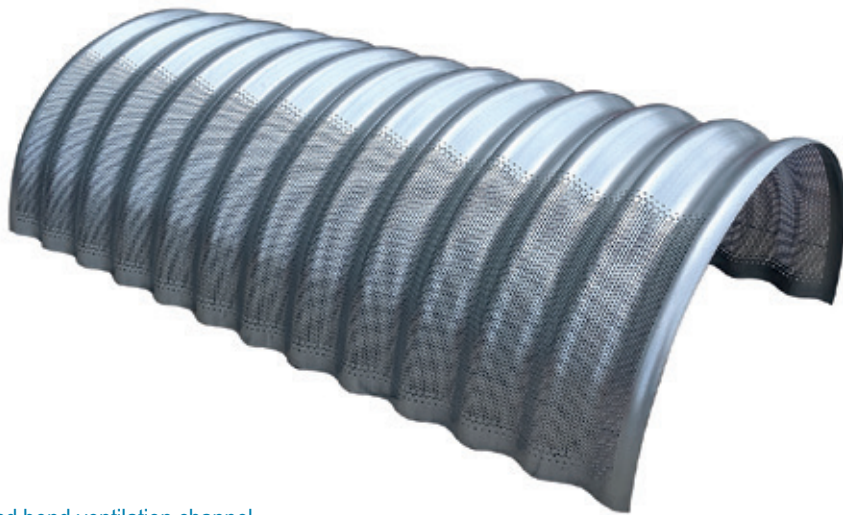


TLR ventilation blower with switch, plug-in device and rain cover

Type	50	100	150	200	250	300	350	mm WS
TLR2	6000	5500	3500					190
TLR4	9500	8500	7500	5500	3000			275
TLR5	11500	11000	10500	9000	7000	2000		310
TLR6	14000	13500	13000	12000	10000	6500		340
TLR7	17500	17000	16000	15000	13000	10500	4000	360
TLR8	19500	19000	18500	17500	16000	14000	8000	365

Ventilation channels

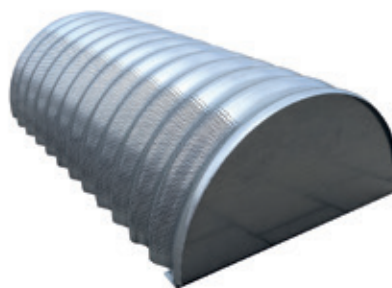
Order no.	Article description	excl. VAT	incl. VAT
0000616	Round bend ventilation channel R48 0.9m r=24cm partially perforated	21,00	24,99
0002499	Rape round bend aeration channel R48 0.9m r=24cm Ø1.5mm	30,00	35,70
1200050	Silage feed-through for R48 with blower connection Ø150mm	68,00	80,92
1200049	Silage channel for R48 with fan connection Ø300mm	151,00	179,69
1200025	Distribution channel Y-shape R48	92,00	109,48
1200027	Distribution channel X-shape R48	125,00	148,75
1200028	Manifold T-shape R48	125,00	148,75
1200029	Distributor channel L-shape R48	125,00	148,75
0000626	R48 steel end channel cover	13,00	15,47
0000627	Round bend ventilation channel R64 0.9m r=32cm partially perforated	45,00	53,55
1200260	Silo channel for R64 with blower connection Ø300mm	254,00	302,26
2900068	Transition plate R64-R48	45,00	53,55
1200026	Distribution channel Y-shape R64	368,00	437,92
1200032	Distribution channel X-shape R64	457,00	543,83
1200033	Manifold T-shape R64	457,00	543,83
1200034	Distributor channel L-shape R64	457,00	543,83
0000635	End channel cover R64	16,00	19,04
1300307	Cover for silo feed-through Ø310mm with wing screw	139,00	165,41
5070040	Perforated plate (2mm perforation, 1.5mm material) Panel 1m x 2m	160,00	190,40



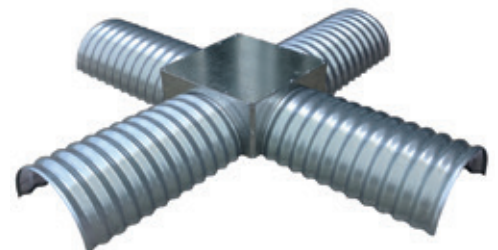
Round bend ventilation channel



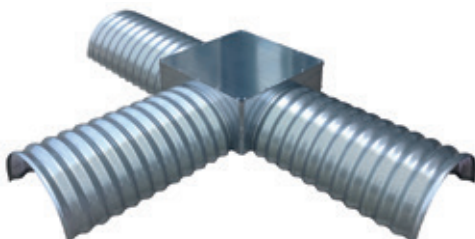
Silo feed-through for R48



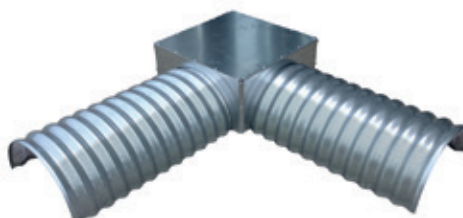
End channel cover R48



X - Distribution channel for R48 in the silo



T - Distribution channel for R48



L - Distribution channel for R48



Y - Distribution channel for R48 in the silo

Ventilation channels

HIMEL ventilation systems give mould no chance!

HIMEL ventilation ducts are suitable for the construction of final storage drying and ventilation systems. The ventilation ducts and the corresponding accessories are designed for any size and shape of grain silos (round silos, rectangular storage silos or storage halls).

All ventilation ducts are galvanised and can withstand loads up to 12 m grain height.

Universal ventilation duct with partial perforation, R48 with 950 cm² and R64 with 1600 cm² duct cross-section

- Maximum air permeability with minimum pressure loss
 - Modular system, customised for large and small storage rooms
 - Fast and effective air distribution with low fill heights
 - Low pressure loss
- Partially perforated, first-class air distribution even with low fill heights

R 48 to 12m duct length, L=0.9m, R=0.24m
R 64 to 35m duct length, L=0.9m, R=0.32m

Special prices for quantity orders

Universal roof shaft dryer can be used for drying seed and grain with a capacity of 5-50 tonnes/hour, e.g. for wheat.

The hot air is generated directly with an oil burner + combustion chamber or gas surface burner. The hot air generator is located inside the hot air duct. The air speed within the drying column can be adjusted using a false air slide valve located in the exhaust air duct.

Conical, roof-shaped air ducts are installed in the drying column. These air ducts are closed on one side but arranged alternately. They can function both as intake and exhaust ducts. The alternating arrangement of the air ducts ensures that air flows through the crop column.

Axial fans in the roof of the exhaust air duct generate the necessary air flow. The axial fan operates in suction mode, This creates a negative pressure in the dryer. The line circuit downstream of the axial fan This prevents dust from being discharged from the material column during the discharge process.

The material zigzags its way through the drying column to the discharge. Air flows around the grains alternately from above and below, ensuring gentle and effective drying. The permissible hot air temperature depends on the type of product and can be adapted to the process.

Basic equipment

Galvanised version

- Drying column with conical, roof-shaped air ducts
- Storage tank with level indicator
- Hot air duct in thermally insulated design
- Exhaust air duct
- Pneumatic discharge device with discharge hopper
- Ascent in galvanised design
- Axial fan with louvre damper
- Sturdy substructure
- Burner incl. combustion chamber
- Compressor incl. compressed air line
- Switch cabinet

Options:

- Insulation of the dryer column
- Aluminium version
- Distribution device in the feed hopper
- Enlarged storage container





MAHL- & MISCHSYSTEME • GETREIDESYSTEME • LAGERSYSTEME • STROHSYSTEME • PELLETIERUNG • MISCHWAGEN



WHY YOU NEED A HIMEL FEED MIXER WAGON...

With the HIMEL feed mixer wagon, you can produce high-quality performance feed yourself in a short space of time.

Every HIMEL mixer wagon brings you considerable savings and a significant increase in the quality of your farm's produce,

BECAUSE

- with the HIMEL feed mixer wagon, just one labourer can remove, mix, transport and portion large quantities of feed in the shortest possible time - with minimal feed losses;
- in the HIMEL feed mixer wagon, larger silage, hay and straw can be added in the HIMEL feed mixer wagon, which together with mineral feed, crushed grain and meal form a homogeneous mixture that is eaten completely by the animals without any leftovers;
- with the use of a HIMEL feed mixer wagon, your animals demonstrably consume and utilise more per unit and day (up to 3 kg);
- and because the HIMEL feed mixer wagon also allows nutrient-rich pulp, stillage or molasses to be thoroughly mixed in and supposed „waste products“ such as fruit pulp, beet leaves, husks, maize stalks etc. to be fed in a nutritionally sensible way;



Milling mixer wagon HX 108





WHY IT HAS TO BE A HIMEL FEED MIXER WAGON!

With a HIMEL feed mixer wagon you optimally utilise all the advantages of a good idea.

HIMEL feed mixers meet the highest demands in terms of performance, service life, reliability and economy,

BECAUSE

- HIMEL feed mixers have design features such as PTO drive, stable hydraulic drive, large gearboxes, additional frame for weighing when lowered (HX series) and, on request, with hydraulic support leg;
- The HIMEL high-performance tiller with over 70 blades cuts quickly and cleanly;
- HIMEL technology combines solid German engineering with modern high-tech;
- HIMEL feed mixer wagons, like all HIMEL specialised equipment for agriculture, are developed by qualified specialists using the latest methods and tested under the toughest practical conditions;
- The HIMEL system design offers cost-effective yet customised solutions for every farm. From the robust feed mixer wagon (two- or three-auger system) to the self-propelled milling mixer wagon with computer-controlled weighing technology.



Feed mixer wagon

Increasingly larger livestock numbers require mechanisation with a HIMEL feed mixer wagon.

The user-friendly and robust HIMEL feed mixer wagon stands for:

- Low power requirement - smooth-running
- Optimum, homogeneous mixtures (TMR)
- No clumping of the feed thanks to the HIMEL agitator blade cutting system Precise mixing (DLG-tested)
- Round or square bales can be mixed in well mixed in in portions, the V & Z series V & Z series also processes whole bales
- High reliability - the HIMEL feed mixer wagons are used successfully on large farms with over 1000 animals

With the HIMEL feed mixer wagon, you can achieve the correct composition of your mixed ration in the shortest possible time:

- Higher ingredients in the milk
- Higher weight gains from the basic feed
- Healthier herds
- No feed selection and empty feed troughs
- Reduced feed costs
- Reduced veterinary costs



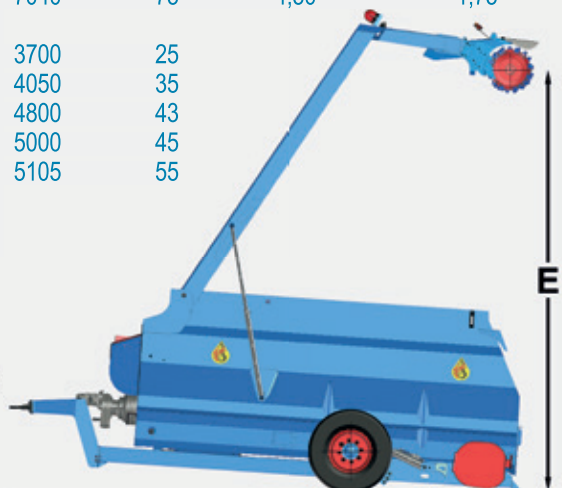
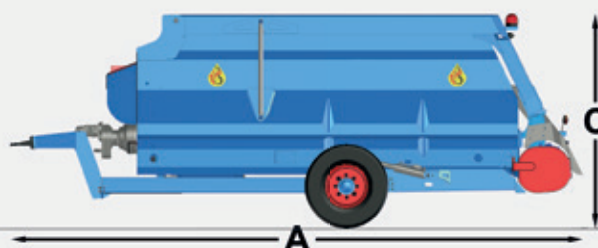
HIMEL Fräsmischwagen HX



H68 feed mixer wagon with rear discharge, weighing computer and flex train control

H and HX feed mixer wagons

Type	Capacity (A) (m³)	Length (m)	(B) Width top (m)	(C) Height (m)	(D) Track width (m)	Weight (kg)	Power (kW)	(E) Milling height (m)	(F) Milling width (m)
HX 68	6,8	6,04	1,67	2,21	1,90	4770	30	3,40	1,55
HX 88	8,8	6,29	2,07	2,29	2,00	5100	37	3,80	1,55
HX108	10,8	6,54	2,07	2,39	2,00	6000	50	4,00	1,75
HX128	12,8	7,28	2,07	2,69	2,15	7020	65	4,50	1,75
HX148	14,8	7,28	2,07	2,80	2,20	7040	75	4,50	1,75
H 68	6,8	5,25	1,67	2,26	1,90	3700	25		
H 88	8,8	5,50	2,07	2,34	2,00	4050	35		
H108	10,8	5,75	2,07	2,44	2,00	4800	43		
H128	12,8	6,40	2,10	2,56	2,20	5000	45		
H148	14,8	6,40	2,10	2,69	2,20	5105	55		



Milling mixer wagon HX with milling machine

Order no.	Article description	excl. VAT	incl. VAT
0000930	Milling mixer wagon HX 68, with 6.8m³	39.500,00	47.005,00
0000931	Milling mixer wagon HX 88, with 8.8m³	43.500,00	51.765,00
0000932	HX 108 milling mixer wagon, with 10.8m³	45.500,00	54.145,00
0000933	HX 128 milling mixer wagon, with 12.8m³	50.800,00	60.452,00

Milling mixer wagon HX with HIMEL safety equipment (1) + (2) + (3)

	HX 68 milling mixer wagon, with 6.8m³	46.025,00	54.769,75
	HX 88 milling mixer wagon, with 8.8m³	50.025,00	59.529,75
	HX 108 milling mixer wagon, with 10.8m³	52.025,00	61.909,75
	HX 128 milling mixer wagon, with 12.8m³	57.325,00	68.216,75

Feed mixer H without tiller

Order no.	Article description	excl. VAT	incl. VAT
0000505	H 68 feed mixer wagon, with 6.8m³	32.000,00	38.080,00
0000506	H 88 feed mixer wagon, with 8.8m³	37.000,00	44.030,00
0000507	H 108 feed mixer wagon, with 10.8m³	39.500,00	47.005,00
0000508	H 128 feed mixer wagon, with 12.8m³	43.750,00	52.062,50

Milling mixer wagon H with safety equipment (1) + (2)

	H 68 feed mixer wagon, with 6.8m³	39.550,00	47.064,50
	H 88 feed mixer wagon, with 8.8m³	40.775,00	48.522,25
	H 108 feed mixer wagon, with 10.8m³	43.275,00	51.497,25
	H 128 feed mixer wagon, with 12.8m³	47.525,00	56.554,75

Accessories (on request)

Order no.	Article description	excl. VAT	incl. VAT
Hydraulics and gearbox			
0002441	Safety cut-off gearbox (EC accident regulation) (3)	2.750,00	3.272,50
Weighing systems			
0003527	Weighing system H/HX with weighing indicator DG400 (1)	2.200,00	2.618,00
0003528	Weighing system H/HX with weighing indicator DG500	2.700,00	3.213,00
Control system			
3003501	Electromagnetic control for 5 controls (surcharge)	2.500,00	2.975,00
3003502	Electromagnetic control for 6 controls (surcharge)	2.800,00	3.332,00
3003503	Electromagnetic control for 7 controls (surcharge)	3.100,00	3.689,00
3003504	Electromagnetic control for 8 controls (surcharge)	3.400,00	4.046,00
0002206	Stick lever control HX, instead of the flex cables (reduced price)	-635,00	-755,65
	Stick lever control H, instead of 2 flex cables (reduced price)	-340,00	-404,60
Brake systems (brake axle standard)			
0001480	Hydraulic brake with spring brake (TÜV approved) (2)	1.575,00	1.874,25
0000498	Air brake with parking brake (single circuit)	2.500,00	2.975,00
0000499	Air brake with parking brake (dual circuit)	2.500,00	2.975,00
0000497	Parking brake	300,00	357,00
Discharge variants			
0001493	Front ejection left instead of right	800,00	952,00
0001494	Front discharge on both sides	3.300,00	3.927,00
0002210	Rubber discharge belt (surcharge)	134,00	159,46
0002023	Rear discharge on both sides (only feed mixer H)	4.950,00	5.890,50
0001385	Extension / shortening of chain conveyor by 100 mm	100,00	119,00
0001491	Discharge conveyor with hydraulic height adjustment	960,00	1.142,40
Other accessories			
0003625	Rear lights and side lights	400,00	476,00
1600126	Working lights fitted	250,00	297,50
1600890	Mudguards on both sides	400,00	476,00
0001596	Hydraulic base Feed mixer wagon without control unit	820,00	975,80
1600665	Suspension Lift axle with gas pressure accumulator	340,00	404,60
3001697	Wide-angle PTO shaft with shear bolt l=1.55 m	675,00	803,25
3001749	PTO shaft with shear bolt l=1.55 m	400,00	476,00
0002578	Mixing trough raised by 100 mm	560,00	666,40
	Tank insert made entirely of 3 mm stainless steel, welded	On request	
0001378	Tank bottom reinforced from 8 to 10mm (for HX68 / HX88)	510,00	606,90
0001809	Tank bottom reinforced from 10 to 12mm (for HX108 / HX128)	510,00	606,90
1600186	TÜV for road approval 8km/h	600,00	714,00
1600059	TÜV for road approval 25km/h	600,00	714,00

Basic equipment Suitable for HX & H

- Very low and clear design
- Own on-board hydraulics with powerful cast hydraulic pump for maximum load
- Reinforced mixing container with additional welded struts
- Mixer trough made of quality steel (St52) with additional cutting bars
- Support foot with hand crank for quick unhooking
- With wheel chocks and safety reflectors
- Smooth operation and low drive power requirement thanks to large planetary gearbox, e.g. 9.5m³ milling mixer wagon = 45kW power requirement (DLG tested)
- Large oil tank with filter
- Hydraulic lines with hose rupture protection
- All HIMEL feed mixers can be operated with biodegradable hydraulic oils can be operated
- Very high volume utilisation due to inward-rotating, upper mixing augers with counter-rotation
- Both upper augers prepared for screwing on knives for long mixing material mixing
- Fast and homogeneous mixing thanks to the HIMEL agitator blade auger with closed supports and self-sharpening special blades
- Chain conveyor ejection at the front right with hydraulic slider and automatic height adjustment
- Simple operation via remote control with flex cables (with electromagnetic remote control on request)
- Optional weighing computer for 24 components and 99 mixtures and PC data transfer (compatible with MS-Excel®)
- Brake axle (TÜV tested)
- On hydraulic brake (8 km/h) or air brake (25 km/h) can be upgraded
- Hitch or drawbar coupling (TÜV tested on request)
- Prepared for TÜV inspection

Basic equipment HX milling mixer wagon

- Lateral milling arms with double-acting lifting cylinders
- With safety rotating light
- High milling performance for grass and maize thanks to free-cutting high-performance tiller
- Tiller with high torque thanks to powerful cast motor with gearbox, left and right rotation
- Cutting width 1.60 m, from HX 108 1.80 m
- Hydraulic automatic lowering system, therefore no jamming of the tiller
- 2 oil pressure gauges
- Hydraulic lines are routed in a protected manner, so front loader filling is also possible
- Vehicle frame can be lowered via axle using hydraulic cylinder
- Stable, separate chassis frame with stainless steel weighing device



Feed mixer wagon VV with special with front chain conveyor



VV18 feed mixer wagon with special front chain conveyor and twin tyres

Feed mixer wagon V



Type	Length (m)	Width (m)	Height (m)	Track width (m)	Weight (kg)	Performance (kW)	Tyres
V7	4,10	2,10	2,43	1,92	3.000	29	30.11R14.5
V9	4,30	2,10	2,73	1,92	3.200	37	30.11R14.5
V11	4,65	2,35	2,85	2,02	3.600	44	400/60R15.5
V12	4,85	2,45	2,88	2,12	4.000	51	400/60R15.5
V13	4,85	2,45	2,88	2,12	4.000	51	400/60R15.5
V15	4,80	2,35	3,05	2,12	4.300	59	400/60R15.5
V18	6,30	2,35	3,12	2,35	6.000	66	445/45R19.5

Feed mixer wagon VV



Type	Length (m)	Width (m)	Height (m)	Track width (m)	Weight (kg)	Performance (kW)	Tyres
VV15	6,30	2,10	2,70	2,05	5.500	59	400/60R15.5
VV18	6,40	2,10	2,90	2,05	6.000	66	435/50R19.5
VV20	6,90	2,10	2,70	2,15	6.400	74	435/50R19.5
VV22	7,00	2,35	2,85	2,15	6.600	81	435/50R19.5
VV24, verstärkt	8,38	2,50	2,87	2,10	8.700	88	435/50R19.5
VV32, verstärkt	8,35	2,50	3,37	2,15	9.200	132	435/50R19.5

Vertical feed mixer wagon

Order no.	Article description	excl. VAT	incl. VAT
0001408	Vertical mixer wagon V7, with 7m³	22.550,00	26.834,50
0001409	Vertical mixer wagon V9, with 9m³	23.650,00	28.143,50
0001410	Vertical mixer wagon V11, with 11m³	26.150,00	31.118,50
0001411	Vertical mixer wagon V13, with 13m³	27.205,00	32.373,95
	Vertical mixer wagon V15, with 15m³	30.000,00	35.700,00
	Vertical mixer wagon V18, with 18m³, reinforced version	on request	

Vertical feed mixer wagon VV

Order no.	Article description	excl. VAT	incl. VAT
0001416	Vertical mixer wagon VV15, with 15m³	38.750,00	46.112,50
0003193	Vertical mixer wagon VV18, with 18m³	43.000,00	51.170,00
0003195	Vertical mixer wagon VV22, with 22m³	45.750,00	54.442,50
	Vertical mixer wagon VV24, with 24m³, reinforced version	48.000,00	57.120,00
0001362	Vertical mixer wagon VV32, with 32m³, reinforced version	on request	

Accessories

Order no.	Article description	excl. VAT	incl. VAT
Hydraulics and gearbox			
0002410	Type V hydraulic control unit (via tractor hydraulics)	890,00	1.059,10
0003086	Own on-board hydraulics with control block and 2 flex cables	2.100,00	2.499,00
0003255	Gearbox switchable 2 stages (18/34min-1) up to 14m³	1.250,00	1.487,50
0003256	Gearbox switchable 2 stages (18/34min-1) from 15m³	2.370,00	2.820,30
0003257	Flex cable for change gearbox	190,00	226,10
0001596	Hydraulic foot Feed mixer wagon without control unit	690,00	821,10
0003089	Hydraulic counter knife	1.850,00	2.201,50
Weighing systems			
0002289	DG500 weighing system instead of DG400 weighing indicator (surcharge)	500,00	595,00
0001595	Swivelling device for weighing indicator	105,00	124,95
Control system			
0003087	Flex cable control per lever (length 3.0m)	245,00	291,55
0002299	Electromagnetic control per element, type V + Z	470,00	559,30
Brake systems (brake axle standard)			
1600095	Lower price: Without brake axle with parking brake	1.310,00	1.558,90
0003090	Hydraulic brake without spring brake type V Surcharge	1.500,00	1.785,00
0003091	Hydraulic brake with spring brake (TÜV) Surcharge	2.020,00	2.403,80
0002437	Single-circuit air brake system with parking brake (spindle)	2.550,00	3.034,50
Ejection variants			
0003092	Ejection via chute additional (front right or rear left)	2.175,00	2.588,25
0002415	Discharge chain conveyor FMW Series V with hydraulic drive	2.660,00	3.165,40
0003093	Discharge conveyor can be moved by approx. 300mm (surcharge)	1.480,00	1.761,20
0003094	Discharge chain conveyor with hydraulic height adjustment (single cylinder)	700,00	833,00
0003095	Discharge conveyor with stainless steel chain and base (surcharge)	1.425,00	1.695,75
0002582	Valve for belt speed adjustment	500,00	595,00
Other accessories			
0003259	Lifting ring total height + 120mm (optional inside)	490,00	583,10
0003260	Rear bumper	215,00	255,85
0002297	Lighting device (rear)	290,00	345,10
0003261	Smaller tyres for lower heights	on request	
3001697	PTO shaft with wide angle and shear bolt coupling l=1.55m	675,00	803,25
3005833	Magnetic separator for vertical mixer wagon	690,00	821,10

Basic equipment

- Robust body with mixing container (completely open at the top)
- Mixer trough made of quality steel S355JO (ST52-3)
- Mixer screw fitted with special knives
- With access ladder
- Axle and drawbar attachment with cradle bars (hitch attachment on request)
- Weighing system with 3 weighing rods and weighing indicator
- Brake axle with parking brake
- Hand-operated counter knives (2 pieces)
- Drive via PTO shaft (540 rpm) and oil supply via tractor hydraulics (without on-board hydraulics)
- Standard gearbox approx. 38 min-1
- Front side outlet with chute (right) or rear left on request
- Hydraulic slide with opening indicator
- Support leg with hand crank
- Tub base 20 mm, side walls 6 mm or 8 mm

Reinforced version

(
up to 24m³ with surcharge, from 24m³ = standard)

- With separate frame
- With 4 stainless steel weighing rods
- With inspection platform and access steps
- With battery on request
- With two-speed gearbox for two auger speeds on request
- DG500 weighing computer for 24 recipes and up to 18 components per recipe on request
- On request with own on-board hydraulics and flex-pull or electromagnetic control system
- Without cardan shaft
- Without swivelling device for weighing display
- Without TÜV approval

Specify drawbar when ordering!
TÜV for road approval on request

DG500 weighing computer



Counter blade



Twin tyres (on request)



Flex tension control



Self-driving Feed Mixer Wagon SFV

The manoeuvrable vertical version.

Direct drive saves power!
POWERSHIFT
3-5 litres of diesel per hour

You will find cutting-edge technology in different variations with our HIMEL self-propelled trailers.

They offer you and your animals clear advantages: The quality of the feed and therefore the productivity of your farm can be effectively increased with natural and gentle feed preparation based mostly on the farm's own components.

The powerful design and modern computer-controlled technology allow you to remove, mix, transport, portion and distribute large quantities of feed in the shortest possible time with just one operator.



Self-propelled SFV15

Split entrance door

Clearly organised driver's cab

Suspended driver's seat

Axle drive with differential lock



Self-drive SFV

Type	Length (m)	Width (m)	Height (m)	Track width (m)	Milling height (m)	Weight (to)
SFV13	7,22	2,35	(2,99) 3,05	2,00	4,30	9,2
SFV16	7,29	2,50	(3,17) 3,25	2,10	4,30	9,8
SFV18	7,53	2,80	3,10	2,05	4,50	10,5

Self-drive SFV

Type	Length (m)	Width (m)	Height (m)	Track width (m)	Milling height (m)	Weight (to)
SFVV14	8,30	2,50	(2,58) 2,85	2,05	4,30	10,8
SFVV16	8,40	2,50	(2,68) 2,90	2,10	4,30	11,0
SFVV18	8,48	2,50	(2,88) 3,00	2,15	4,30	11,8
SFVV22	8,60	2,50	3,00	2,15	4,50	12,2
SFVV26	8,80	2,50	3,00	2,15	4,50	13,3
SFVV30	9,00	2,50	3,20	2,15	4,50	13,6
SFVV32	9,00	2,50	3,40	2,15	4,50	13,9



Self-propelled feed mixer wagon

Order no.	Article description	excl. VAT	incl. VAT
0003262	SFV 13 m³ 175 HP	152.500,00	181.475,00
0003263	SFV 16 m³ 175 hp	156.500,00	186.235,00
0003264	SFV 18 m³ 175 HP	161.000,00	191.590,00
0003265	SFVV 14 m³ 175 HP	165.500,00	196.945,00
0003266	SFVV 16 m³ 175 HP	168.500,00	200.515,00
0003267	SFVV 18 m³ 175 hp	171.000,00	203.490,00
0003268	SFVV 22 m³ 175 hp	177.500,00	211.225,00
0003269	SFVV 26 m³ 175 hp	194.500,00	231.455,00
0003270	SFVV 30 m³ 246 hp	207.150,00	246.508,50
0003271	SFVV 32 m³ 246 hp	212.000,00	252.280,00

Accessories

Order no.	Article description	excl. VAT	incl. VAT
	Drive		
0003272	Traction drive for speed 24 km/h	3.300,00	3.927,00
0003273	Traction drive for speed 40 km/h	12.000,00	14.280,00
0003275	Travel drive for speed 12 km/h and 4 wheel steering	5.500,00	6.545,00
0003276	Traction drive for speed 24 km/h and 4 wheel steering	8.750,00	10.412,50
0003277	Travel drive for speed 40 km/h and 4 wheel steering	17.700,00	21.063,00
0003278	All-wheel drive for speed 12 km/h	10.750,00	12.792,50
0003279	All-wheel drive for speed 24 km/h	13.000,00	15.470,00
0003280	All-wheel drive for speed 40 km/h	27.500,00	32.725,00
0003281	Diesel engine NEF/Iveco 258 HP instead of 175 HP	10.500,00	12.495,00

Hydraulics

0003274	Hydraulic differential lock	1.740,00	2.065,84
0003286	Electric traction drive (control of the traction drive)	1.970,00	2.340,73
0003287	Engine water heating	1.100,00	1.309,00
0003288	Hydraulic oil heating	1.500,00	1.785,00
0003289	Hydraulic locking of the milling arm	1.315,00	1.564,85

Weighing systems

0003299	Large display for weighing indicator (additional) mounted on the side	616,00	733,04
4501757	Data transfer to PC via cloud	760,00	904,40

Ejection variants

0003092	Additional discharge via chute (front right or rear left)	2.175,00	2.588,25
0003091	Discharge chain conveyor mounted at the rear	4.550,00	5.414,50
0003093	Discharge conveyor can be moved by approx. 300 mm (surcharge)	1.480,00	1.761,20
0003095	Discharge conveyor with stainless steel chain and base (surcharge)	1.425,00	1.695,75
0002582	Valve for belt speed adjustment	500,00	595,00
0002318	Counter blade with automatic adjustment (programmable)	850,00	1.011,50

Other accessories

0002313	Air conditioning	4.800,00	5.712,00
0002144	Heated rear view mirror (piece)	350,00	416,50
0003292	Component opening on the milling channel	250,00	297,50
0003293	Manually operated central lubrication system	2.500,00	2.975,00
0003294	Component hopper with auger	1.375,00	1.636,25
0003295	Additional ejector blade on the mixing auger	210,00	254,66
0003296	Reversible fan for engine oil	300,00	357,00
1600126	Working light attached	200,00	241,57
3005833	Magnetic separator	690,00	819,91
0003297	Total height of lifting ring + 120 mm (standard internal)	490,00	583,10
0003300	Radio with loudspeaker installed in special cab housing	1.100,00	1.309,00
0003301	Video camera 2 pieces with colour monitor installed	2.000,00	2.380,00
0002581	Additional video camera (up to 3) fitted	310,00	368,90
	360° camera system	2.888,00	3.436,72
	Stainless steel panelling	on request	
	TÜV individual approval 20 km/h with light and camera	on request	
	TÜV for road approval with light and camera	on request	

Basic equipment

Vertical feed mixer wagon series SFV/SFVV

- High-performance cutter (2.00 m) for grass, maize silage, hay and straw bales. With wide 700 mm milling channel
- Rubber conveyor belt to the mixing hopper with separate hydraulic motor
- Hydraulic milling channel discharge flap
- Main drive diesel engine NEF (Iveco)
- Direct drive to the mixer for economical fuel consumption „POWERSHIFT“ and the correct mixing speed
- Stepless travelling speed 0-12 km/h, 24 or 40 km/h on request
- Type SFV with front-wheel drive and hydraulic suspension, rear power steering
- Type SFVV with rear-wheel drive and mechanical limited slip differential, front power steering and hydraulic suspension. On request with automatic limited slip differential
- Separate chassis frame with separate mixing container
- With access steps and control platform
- With hydraulic parking brake
- Reinforced mixing container with 20 mm thick base and 8 mm thick side walls made of quality steel (St52)
- Cutting blade made from specially hardened steel
- Hydraulic counter knives (2 pieces)
- Weighing system with 4 stainless steel weighing rods
- DG500 weighing computer. Up to 48 components and 24 recipes can be stored.
- With PC data transfer on request
- Front left ejection via chain conveyor (stainless steel version on request)
- Hydraulic pusher with opening indicator
- Equipped with Linde hydraulic pumps

On request:

- Automatic control of the counter knives for perfect and fast mixing
- Additional magnets on the mixing auger
- Motor water heating

Special sizes and dimensions on request!



Feed additive

Short straw enhances feed that is low in crude fibre. Ground straw can easily be used as a feed additive. Valuable crude fibre is released simply by grinding the straw without the need for chemical digestion. They supplement feeding with hay, lucerne, silage and green fodder. Experience has shown that pigs, for example, are particularly fond of oat straw.

HIMEL straw mills

The powerful STZ straw mills with PTO drive or STM with electric motor from 15kW to 22kW are particularly suitable for larger operations.

The HIMEL straw mill extracts the ground material from the ground and processes it into short straw in a large grinding chamber. The discharge spout goes vertically upwards and achieves a throwing capacity of up to 20 metres.

Depending on the moisture content of the material to be processed, the screening capacity and the screen size, a throughput rate of up to 2,500 kg/h can be achieved with the appropriate drive.

The high-quality blades have a long service life and can be easily replaced if necessary.



Straw mill cutaway model



STZ straw mill with cyclone



Straw mill

Order no.	Article description	excl. VAT	incl. VAT
0001427	Straw mill STZ 540 with cardan shaft drive 540/min	6.680,00	7.949,20
0001428	Straw mill STM 201 with electric motor 15kW	6.850,00	8.151,50
0003135	Straw mill STM 301 with electric motor 22kW	9.150,00	10.888,50
1600664	Sieve insert 90mm STZ/STM	422,00	502,18
1600008	Sieve insert 60mm STZ/STM	386,00	459,34
1600007	Sieve insert 40mm STZ/STM	354,00	421,26
1600006	Sieve insert 30mm STZ/STM	354,00	421,26
1600005	Screen insert 20mm STZ/STM	354,00	421,26
1600003	Sieve insert 12mm STZ/STM	354,00	421,26
1600001	Sieve insert 7mm STZ/STM	354,00	421,26
1600724	Screen insert 8mm STZ/STM enlarged hole surface	578,00	687,82
3001749	Cardan shaft with shear bolt coupling l=1.0m up to 47kW	690,00	821,10
3002120	PTO shaft with freewheel STZ	736,00	875,84
3000059	Knives (set = 54 pieces)	4,00	4,76
3000060	Wheel knives (set = 6 pieces)	5,00	5,95
3000045	Counter blade (set = 8 pieces)	26,00	30,94
1600024	Water nozzle with hose connection	146,00	173,74

Accessories

Order no.	Article description	Pos.	excl. VAT	incl. VAT
0001437	Cyclone Ø250mm STZ	1	677,00	805,63
0001279	Tube Ø250mm RW l=0.5m	2	45,00	53,55
0001280	Tube Ø250mm RW l=1.0m	2	62,00	73,78
0001281	Pipe Ø250mm RW l=2.0m	2	129,00	153,51
0001282	Bend 15° Ø250mm RW, radius 750mm	3	50,00	59,50
0001283	Elbow 30° Ø250mm RW, radius 750mm	3	85,00	101,15
0001284	Bend 45° Ø250mm RW, radius 750mm	3	104,00	123,76
0001285	90° bend Ø250mm RW, radius 750mm	3	185,00	220,15
0001287	Pipe clamp Ø250mm	4	60,00	71,40
0001288	Flexible pipe Ø250mm RW l=1.25m		432,00	514,08
0001290	Sliding pipe Ø250mm RW l=1.0m		68,00	80,92
0001291	Discharge elbow Ø250mm RW with flap	5	271,00	322,49
0001292	Silo pipe holder Ø250mm		162,00	192,78
1800357	Discharge nozzle Ø250 f.B.		494,00	587,86

Basic equipment

- Mill housing made of thick sheet steel
- Cardan shaft drive 540 rpm via gearbox (ratio 1:2.91) or with electric motor
- Pre-cutting unit with 8 angled counter blades and 6 wheel knives
- Grinder with 54 knives
- Chassis with drawbar
- Three-point hitch (STZ only)
- Discharge nozzle Ø250mm
- Large intake manifold
- Prepared for connection of a water nozzle
- Without strainer and without cardan shaft
- STM with switch

Recommended sieve inserts (max. straw length):

- As bedding 20 - 40mm
- For feeding 7mm for pigs
- For feeding 15 - 30mm for ruminants
- Can be operated without sieve insert

Performance data:

- Nominal speed 540min-1
- Wind speed 46 m/sec.
- Total pressure 115mm WS
- Air flow rate 130 m³/min.
- Straw throughput capacity STZ max. 2500 kg/h
- Straw throughput capacity STM max. 2000 kg/h
- Tare weight STZ approx. 320 kg
- Net weight STM approx. 405 kg
- Tractor power min. 22 kW

We only grant a guarantee on gearboxes when used with original HIMEL cardan shafts.

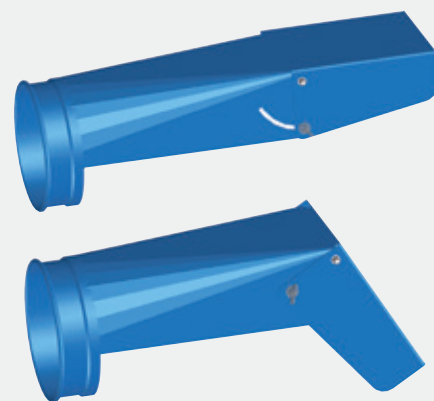
For larger mills, see bale dissolver.



c STZ straw mill with cardan shaft drive



STM straw mill with electric motor



5) Discharge manifold Ø250mm with flap



1) Cyclone Ø250mm



2) Pipe Ø250mm l=0.5 - 2.0m



3) Elbow 15° - 90° Ø250mm



4) Pipe clamp Ø250mm

HIMEL bale dissolver

The bale dissolver cuts the bale through a cutting rotor. Two separately driven chain scraper floors bring the bale into rotation and rotation and ensure even material removal.

The stationary bale dissolver breaks up round or square bales in such a way that the straw is fed to one or two straw mills, depending on the version. Thanks to the stationary straw mill unit allows you to do in one pass what previously had to be done manually in several steps.

Everything is compact in one unit, without compromising the quality of the opened straw. Just as you know it from the HIMEL straw mill.

The bale dissolver can be converted into a bale mill with a sieve basket, which gives the broken straw a predefined length.

A motorised feed table can be added to the stationary bale dissolver on request. It is driven at the touch of a button or by remote control.

- Processing of round and square bales and square bales up to Ø1.8m
- Dimensions (m): approx. 2.92/ 1.84/ 2.35 (L/W/H)
- Weight approx. 2.5 to.
- Hourly output approx. 1000- 2000 kg/h
- Energy consumption approx. 20kW/h



Stationary bale dissolver with discharge augers



Opening roller Bale dissolver



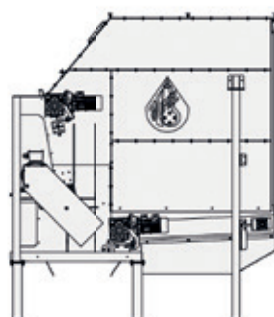
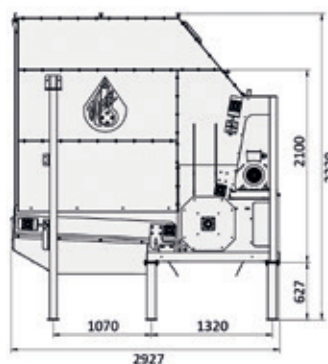
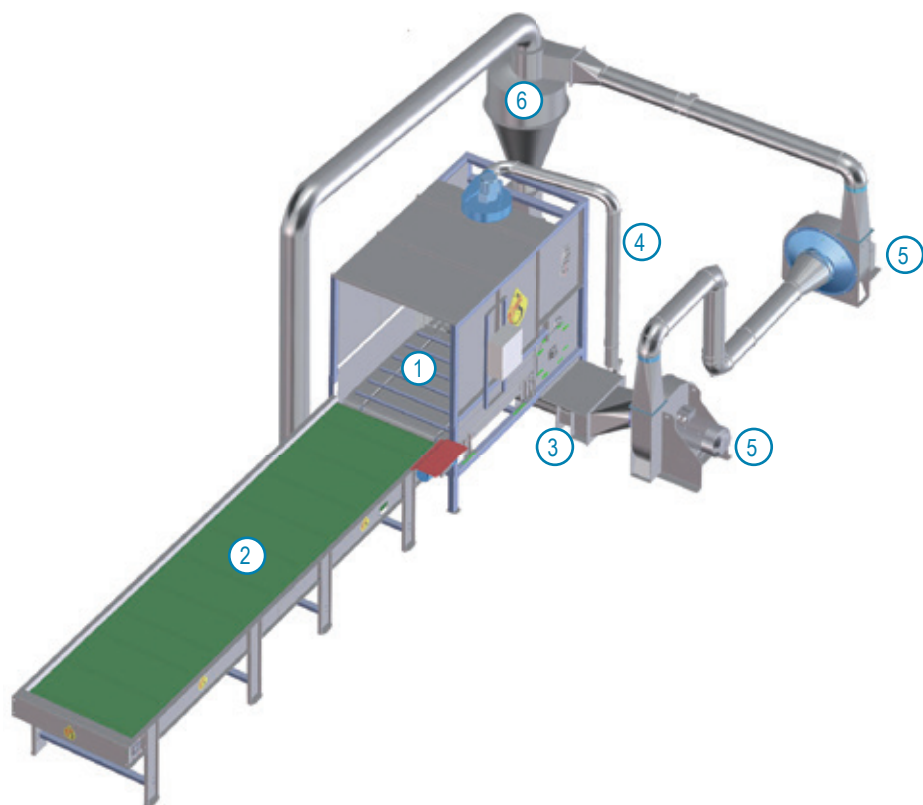
Bale dissolvers Discharge augers



Stationary bale dissolver with feed table

Stationary bale dissolver

Order no.	Article description	Pos.	excl. VAT	incl. VAT
1800378	BA15 bale dissolver for round and square bales	1	22.420,00	26.679,80
1800249	Sieve basket for BA15 140/120 honeycomb structure		520,00	618,80
1800319	Sieve basket for BA15 55/50 honeycomb structure		720,00	856,80
1800391	Sieve basket for BA15 RV20/26 round hole		720,00	856,80
0925426	Light barrier for automated feed of the feed table		825,00	981,75
1800199	Feed table 2.9m with electric feed (manually operated)	2	10.800,00	12.852,00
	Rear panel for feed table 2.9m		525,00	624,75
1800165	Feed table 5.8m with electric feed (manually operated)	2	13.100,00	15.589,00
1800376	Discharge augers for bale dissolver	3	6.200,00	7.378,00
1800159	BA15 suction unit and stone catcher in front of straw mill	4	5.650,00	6.723,50
1800354	Reduction for scraper floor drive cpl. 1:2.7		850,00	1.011,50
	Chain strand 4 pcs. with raised flights (surcharge)		275,00	327,25
1800360	Suction adapter STM/STMi		645,00	767,55
0001429	Straw mill STMi 22kW for continuous operation Pelletizing	5	10.880,00	15.421,25
0001406	Straw mill STMi 30kW for continuous operation Pelletizing		12.480,00	14.851,20
0921958	20mm honeycomb sieve insert for pre-grinding		680,00	809,20
1600942	Sieve insert 8mm STZ/STM for fine grinding		680,00	809,20
1800167	Cyclone separator Pelletizing large-volume up to 5300m³	6	2.982,00	3.548,58
3003942	Cyclone transition piece, 250x350mm to 250mm f.B.		185,00	220,15
1800176	Cyclone connection flange, transition to spiral seam		97,00	115,43
1800406	Outlet discharge screw conveyor to screw conveyor FS250		185,00	220,15
1800407	Transition from discharge screw to screw conveyor FS250		236,00	280,84
0000657	Temperature and moisture measuring device		648,00	771,12
	Switchgear and operation		on request	



c Stationary bale dissolver dimensions

Basic equipment

Bale dissolver

- Bale dissolver suitable for round and square bales.
- Milling chamber with 1.5 m width and 2.2 m height
- Discharge opening facing downwards, prepared for mounting the discharge augers
- Blade drum 1.5 m wide, driven by V-belt pulleys with 15 kW electric motor
- Screen basket with honeycomb structure 140/120
- Bale feed via five scraper chains, drive with 0.75 kW gear motor, prepared for operation with frequency converter
- Forward and return flow possible with appropriate control.
- Protective curtain for dust reduction and spin protection for foreign objects
- Prepared for an extraction device for dust-reduced work

Optionally available:

Suction unit, pipe parts and STMi suction adapter (also serves as a heavy object separator)

Now new: Attachment of an auger conveyor possible instead of a straw mill

Discharge augers

- Double screw discharge for high discharge capacity with low bulk density and low overall height
- Screw flights mounted on one side and on sliding PE. Also serves as a wear insert
- One 2.2kW drive with chain deflection

Straw mill STMi

- Suitable for continuous feeding of stalk material in continuous operation
- Mill housing made of thick sheet steel with easy-to-change wear plates.
- Screwed outlet nozzle with Ø250mm f.B.
- High-performance grinder with 54 hardened blades and turbine impeller
- Various sieve inserts from 7-90mm available as accessories!
- Without suction nozzle (optional)

Cyclone separation, buffer silo with screw discharge system, as well as dedusting with filter device.



Moisture meter for bales

Straw bedding

Straw bedding keeps your animals healthy. Bedding on slatted and grid floors increases the well-being of the animals. Adding straw reduces the risk of infection. Switching from sawdust to straw as bedding can even eliminate the dreaded claw disease in cattle. The number of infectious diseases is also reduced on pig farms. Vets therefore even advise against using sawdust as bedding in pig farming.

Straw bedding improves the air in the barn and increases the fertilising value of the manure. Due to its absorbency, straw not only binds moisture, but also odours. This not only has an effect in the barn, but also when spreading the slurry.

In untreated liquid manure, nitrogen mineralises to 50% within 7 days. After 20 days, it has already lost 86% of its fertilising value. The addition of straw counteracts this. The carbon-containing cell material of the straw serves as food for the slurry bacteria. It binds the nitrogen in the slurry in organic form so that it remains available to the plant over a longer period of time.

The straw mill crushes the straw sufficiently and destroys the water-repellent wax layer of the straw stalks.



RSM 1500 with three-point linkage



RSM 1800 Turbo



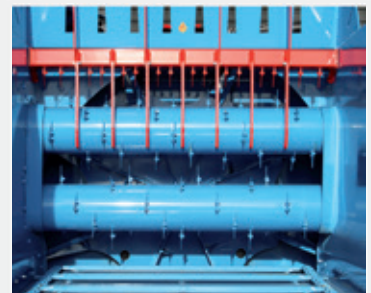
Demonstration RSM Turbo

RSM radio remote control

Electromagnetic control

RSM Turbo V-belt drive

RSM Turbo cutting rollers



RSM bale dissolver

Order no.	Article description	excl. VAT	incl. VAT
0002258	RSM 1500 with three-point hitch (1.5 m wide) without wheels	13.900,00	16.541,00
0002260	RSM 1500 with drawbar (1.5 m wide) and wheels	13.400,00	15.946,00
0001403	Discharge spout hydraulically rotatable 270°	1.230,00	1.463,70

RSM Turbo bale dissolver

Order no.	Article description	excl. VAT	incl. VAT
0003166	RSM 1800 Turbo with drawbar (1.8 m wide) and wheels	19.950,00	23.740,50
0003167	RSM 2800 Turbo with drawbar (1.8 m wide) and wheels	23.220,00	27.631,80
0003308	RSM 3800 Turbo with drawbar (1.8 m wide) and wheels	28.950,00	34.450,50

RSM and RSM Turbo accessories

Order no.	Article description	excl. VAT	incl. VAT
0002262	Discharge at bottom left instead of top right	513,00	610,47
0002351	Attachment kit for dust containment	1.600,00	1.904,00
0002263	Second discharge	770,00	916,30
0002264	Attachment kit for rectangular bales	320,00	380,80
0003177	Flex tension control 3m, per function	375,00	446,25
0003178	RSM electromagnetic control, per function	665,00	791,35
3006056	Radio remote control with 10 buttons	4.730,00	5.628,70

Basic equipment

RSM

- The RSM is suitable for chopping or scattering rectangular and round bales up to a diameter of approx. 1.80 m
- Drive via cardan shaft (540 min-1)
- High throwing capacity up to 10 m (max. 15 m)
- Control of the hydraulic drives via tractor hydraulics; infinitely variable adjustment of the feed chain conveyor; the hydraulic loading flap (rear) and the hydraulic discharge opening
- Precise metering via infinitely variable speed adjustment of the scraper floor
- Stable gearbox with 2 speeds - 270 min-1 and 540 min-1
- Convenient operation of the hydraulic controls from the tractor seat
- Discharge at the top right (direction of travel) via a side flap that can be adjusted up and down, also hydraulically rotatable on request
- Type 1500 for bales up to Ø1.50m
- A nozzle with water connection is mounted on the discharge with the attachment kit for dust containment
- Power requirement from 40kW

RSM Turbo

See RSM! Equipped with two blade-equipped rotors and impeller instead of one blade disc

- Suitable for round and rectangular bales; RSM Turbo for bales up to 1.80 m in diameter. From type 2800, 2 square bales can be processed on top of each other
- Rotor drive via cardan shaft drive
- Large rotor with driver for wide throwing throwing capacity of up to 15m
- Control of the hydraulic drive via tractor hydraulics; infinitely variable adjustment of the feed chain conveyor; the hydraulic loading flap (rear) and the hydraulic discharge opening
- Precise metering via the infinitely variable speed of the scraper floor
- Stable gearbox with 2 speeds - 270min-1 and 540min-1
- Convenient operation of the hydraulic controls from the tractor seat
- Ejection at the top right (direction of travel) via a rotating ejector
- Discharge optionally on the left
- With the attachment kit for dust containment, a nozzle with water connection is mounted on the discharge
- Mechanically adjustable support foot

RSM with sieve for short straw lengths on request.

270° discharge now standard

Maßstabelle	RSM1500	RSM1500	RSM1800 Turbo	RSM2800 Turbo	RSM3800 Turbo
Attachment type	Three-point	Drawbar	Drawbar	Drawbar	Drawbar
Height (mm)	2270	2380	2420	2460	2980
Length (mm)	2500	2930	3420	4700	6950
Width (mm)	1940	1940	2020	1980	2050
Unladen weight (kg)	1120	1250	1450	1800	3200
Tyre size	-	205/70R15	10.0/80-12	10.5/80-15	13.0/65-18
Power (PS)	45/50	45/50	50/60	50/60	60/70
Throwing distance (m)1-15		1-15	1-15	1-15	1-15



RSM 1800 Turbo



RSM 3800 Turbo

HIMEL Pelletising

Pelletizing is designed for processing dry stalk materials of all kinds, such as cereal straw, rape straw, hay, miscanthus or similar products. The system is completely self-sufficient.

All the necessary production steps from bale dissolver to grinding, conditioning, Pelletizing and packaging are integrated.

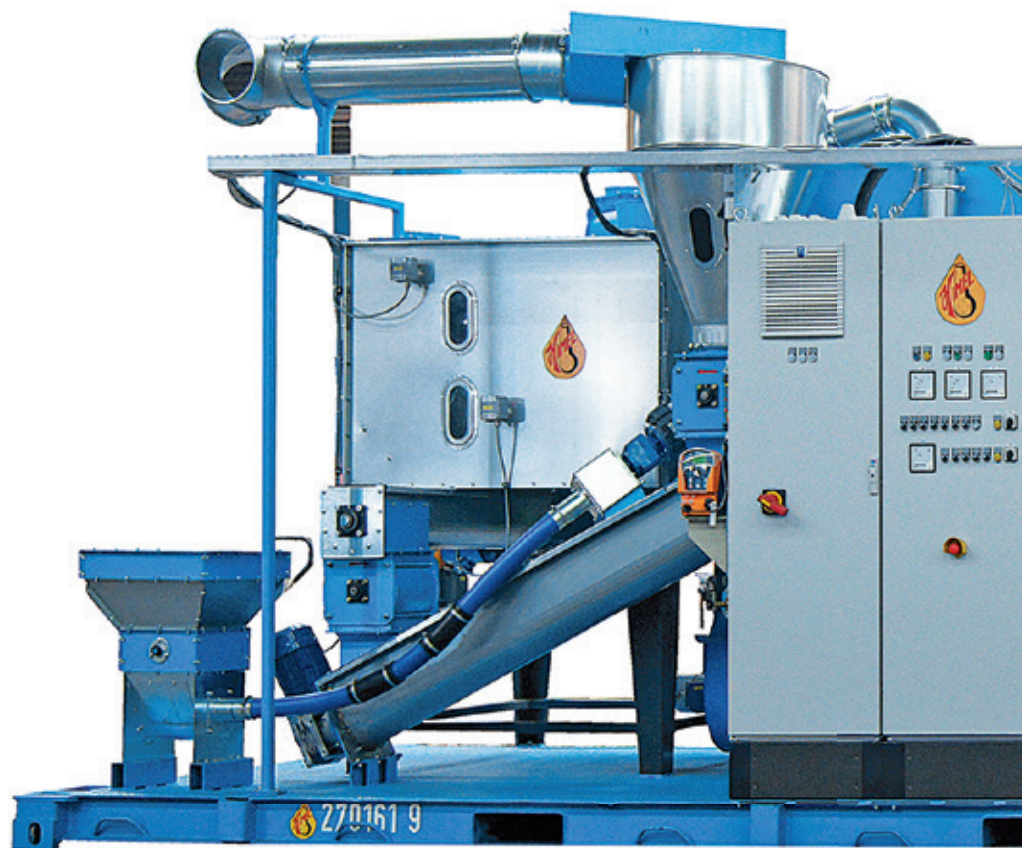
All installations are carried out from a single source. This means that the system is immediately ready for operation after intensive familiarisation.

Stationary Pelletising

Thanks to the modular design of the pelletising plant, our specialists can develop the optimum solution for your needs. With a strong and constant hourly output, stationary Pelletizing is the best choice for customers who value continuous operation with low maintenance costs.

Mobile Pelletising (on request)

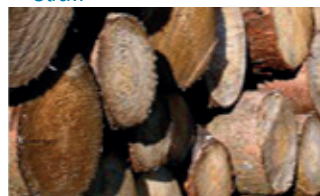
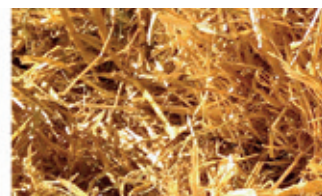
The mobile pelletising plant can process largely unused agricultural by-products into pellets. The entire system is integrated into a lorry trailer and pelletises directly on site. This saves you high transport costs for the bales.



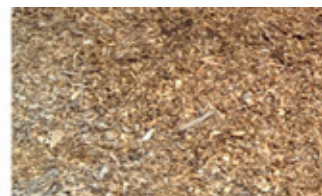
From the straw bale



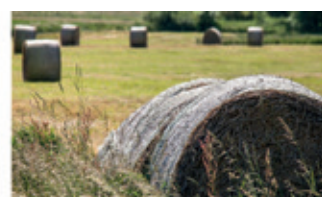
Straw



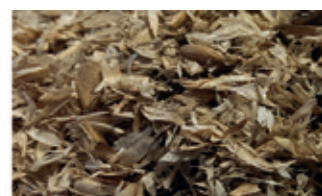
Wood



Hay



Husks





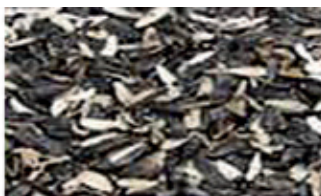
to the straw pellet



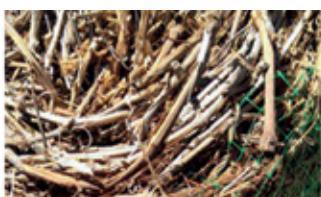
Maize



Sunflowers



Pruning



Fermentation residues



Processing from residual material to recyclable material

Energy pellets

Biomass becomes energy.

- Compacting biomass into pellets
- High energy density
- CO2 neutral fuel
- Easy storage and transport
- No / little environmental damage in the event of an accident

Bedding pellets

Animals love a dry, soft and natural surface.

- For horses, pigs, poultry and small animals
- Extremely absorbent
- Economical to use
- Odour-binding and hygienic
- Without additives
- Particularly low in dust and irritants
- Environmentally friendly

Feed pellets

Own recipe and own ingredients guarantee the best feeding results.

- Feed additives produced in-house
- Guaranteed purity
- High-quality mixture
- Individual composition of crude fibre, vitamins or minerals

Fertiliser pellets

Made from natural residues from biogas production, animal husbandry or compost

- Save transport costs
- Can be distributed easily
- For a positive humus balance
- Space-saving storage
- Application with standard fertiliser lime spreaders

**Briquetting
on request !**



Stationary Pelletising

Dried straw/hay bales can be used as starting material. The bales are picked up and broken up by the bale dissolver. A frequency-controlled screw conveyor feeds the pelletising system, pellet press with flat dies. The pellets produced are screened, cooled and conveyed further. The easy-to-operate machine controls are located on the control cabinet.

Hourly output

The hourly output for the entire system with up to 1.2 tonnes/hour. The output depends on the type and quality of material, the die and the degree of grinding. The calculation is based on the processing of dry, homogeneous wheat straw (residual moisture < 14%). Fluctuating qualities of the raw material to be processed can have a considerable influence on the hourly output considerably. For processing with optimum performance, a die configuration suitable for the material is necessary. configuration suitable for the material is necessary.

Energy consumption

The installed power is 180kW. Of this, approx. 130kWh is consumed during operation. Depending on the type of material and settings.

The system is designed for single-shift operation for up to 250 days a year, subject to compliance with maintenance regulations. Continuous system operation by at least one operator is a prerequisite.

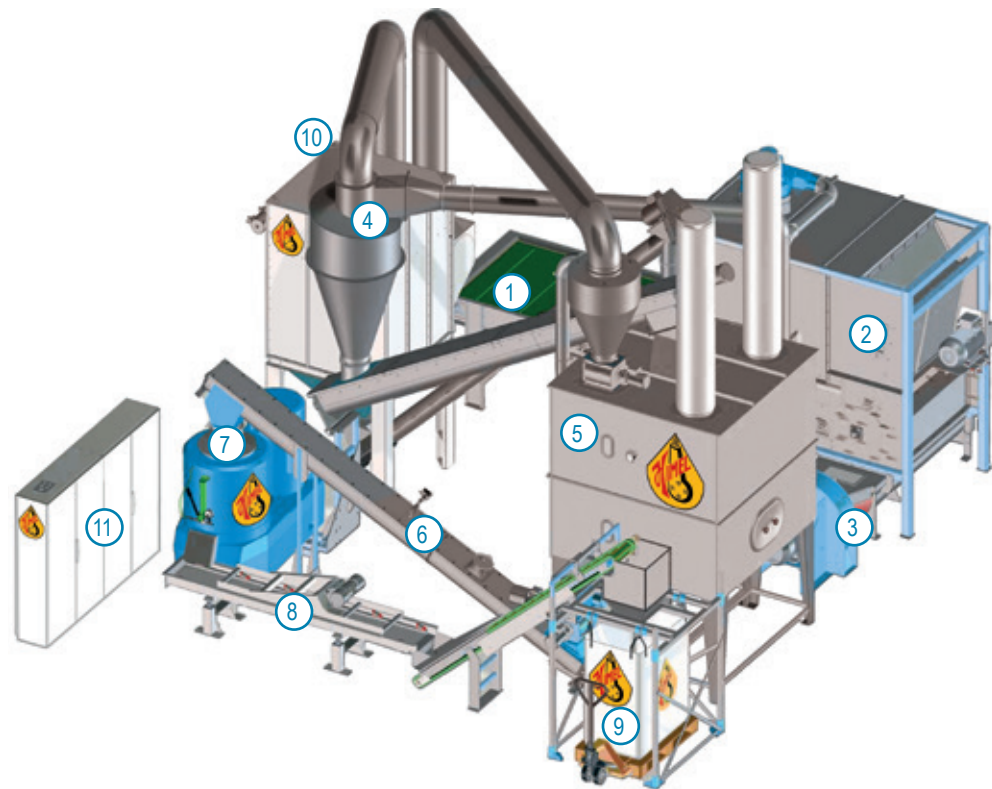
Positions

- 1 Feed table
- 2 Bale dissolver
- 3 Grinding
- 4 Separation
- 5 Storage bin
- 6 Conditioning
- 7 Pellet press
- 8 Sieving
- 9 Packaging
- 10 Air filter
- 11 Switch cabinet with PLC control

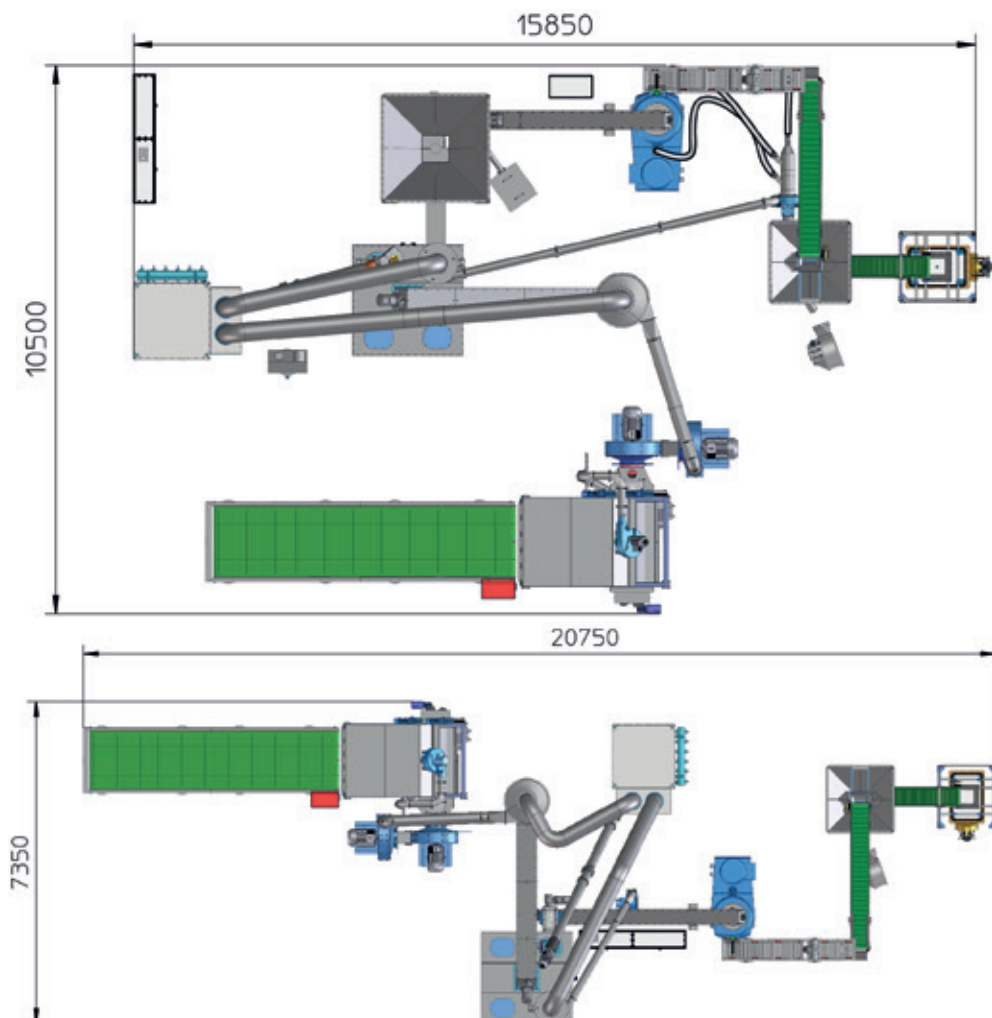
Dimensions

The space requirement is 120m², with a height of 5.50m. The system can also be installed in a more compact form.

Each system is assembled on site according to your requirements.



Stationary pelletizing plant



Example setup



We're not just proud of the years...
Это не только годы, которыми мы гордимся...

Es sind nicht nur die Jahre, auf die wir stolz sind...



www.himel.de



MAHL- & MISCHSYSTEME • GETREIDESYSTEME • LAGERSYSTEME • STROHSYSTEME • PELLETIERUNG • MISCHWAGEN



**HIMEL
MASCHINEN**

D-72393 Melchingen
Mittelhofen 11
Tel.: +49 7126 9299 0
Fax: +49 7126 9299 1
verkauf@himel.de
[@himelmaschinen](https://www.instagram.com/himelmaschinen)



IHR SPEZIALIST FÜR FUTTER-AUFBEREITUNGS-SYSTEME

MADE IN GERMANY

