



EISELE



Agriculture



Biogas

Pumps

& accessories



Dominik Eisele
Managing Director

Knowledge in motion

Driven by the expertise accumulated over decades, we develop innovative solutions for the agricultural and biogas sector. We have attained a global reputation as one of the best in the industry.

Franz Eisele und Söhne GmbH & Co. KG is a family-owned company that draws on a 130-year company history. With first-class machines and services, we occupy a pole position in the agriculture and biogas sector, and we are proud to be one of Germany's market leaders.

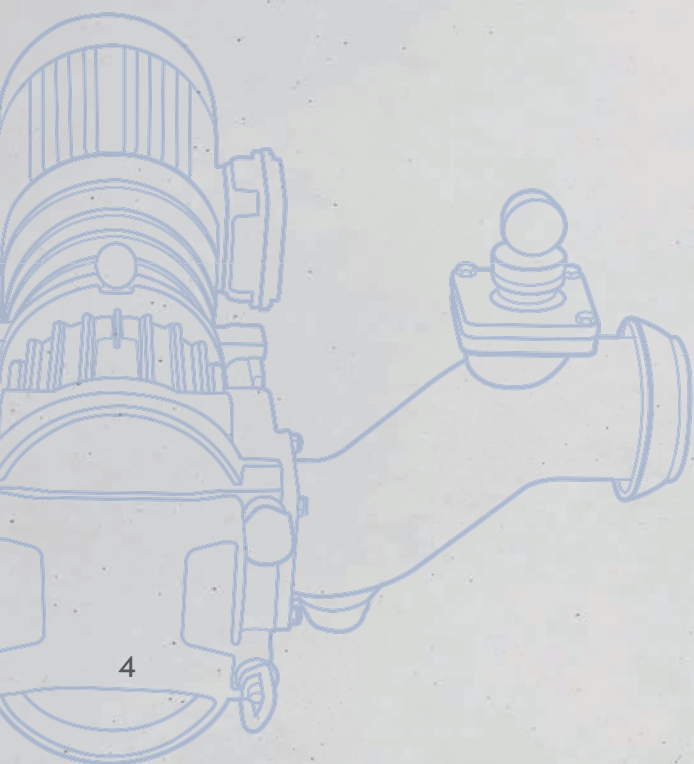
We continuously develop our products in response to constantly changing market conditions.

Knowledge in motion





Eisele – perfect compatibility





Submersible motor pumps

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Vertical pumps

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Rotary lobe pumps

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Drum filling station

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Submersible motor pumps AT / ATF / GTF



The electrically driven Eisele submersible motor pumps AT are available in mobile (ATF, GTF) or stationary (AT) versions. The stationary versions can be installed both wet and dry.



3.0 kW to 22.0 kW



2,300 l / min - 6,700 l / min

Benefits

- Overloadable motors manufactured by Eisele
- Large performance range
- Approved up to an immersion depth of 40 m / substrate temperature of 65°C
- Solid cast iron housing with efficient heat dissipation
- Safe dry running
- Long maintenance intervals
- High effectiveness

Features

- Overloadable motors
- Auger blades
- Open impeller
- Vortex impeller
- Transport lug
- Sealing sensor
- Built-in thermal contacts
- Electric cable (standard 8 m)

Accessories

- Base pedestal / stand
- Various installation sets
- Three-way valve and mixing nozzle
- Injector ventilation
- Connector for drum filling pipe / drum filling station
- Various switches / control systems



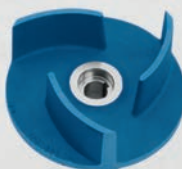
Agriculture



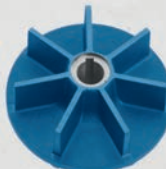
Biogas



Auger blades (S)



Open impeller (O)




Vortex impeller (F)

Technical Data


Type	Installation type	Pressure joint	Max. pumping head H	Max delivery volume Q	Rated power		Rated speed	Rated current
AT		DN	m	L / min	kW	hp	rpm	A
44F	wet	75	8	2,300	3.0	4.0	1,440	6.3
54 F	wet	75	9	2,500	4.0	5.5	1,426	7.8
44 F	dry	75	8	2,300	3.0	4.0	1,440	6.3
64 O	dry	100	10	2,400	4.6	6.3	1,450	9.5
84 O	dry	100	13	2,800	6.0	8.2	1,450	12.5
74 O	wet	100	12	3,800	5.5	7.5	1,450	10.9
104 O	wet	100	17	4,200	7.5	10.0	1,450	15.2
74 S	wet	100	11	4,200	5.5	7.5	1,450	10.9
104 S	wet	100	13	4,800	7.5	10.0	1,450	15.2
154 S	wet	125	18	5,100	11.0	15.0	1,460	21.2
204 S	wet	125	20	5,700	15.0	20.0	1,460	28.9
254 S	wet	125	22	6,000	18.5	25.0	1,474	38.0
304 S	wet	125	25	6,700	22.0	30.0	1,468	43.0
ATF		DN	m	L / min	kW	hp	rpm	A
74 S	wet	100	12	3,800	5.5	7.5	1,450	10.9
104 S	wet	100	13	4,800	7.5	10.0	1,450	15.2
GTF		DN	m	L / min	kW	hp	rpm	A
104 S	wet	100	13	4,200	7.5	10.0	1,450	15.2
154 S	wet	125	18	5,100	11.0	15.0	1,460	21.2
204 S	wet	125	20	5,700	15.0	20.0	1,460	28.9

Performance data are related to water. Specifications and illustrations are non-binding.


Submersible motor pumps AT, ATF, GTF




Open lagoon




Closed lagoon




Slalom system




Tank with foil roof




Tank with concrete ceiling



Open tank




Steel tank




AT 44 F | AT 54 F

Illustration with base pedestal




AT 64 O | AT 84 O
AT 74 O | AT 104 O
AT 74 S | AT 104 S

Illustration with base pedestal




AT 154 S | AT 254 S
AT 304 S | AT 204 S


Illustration with stand



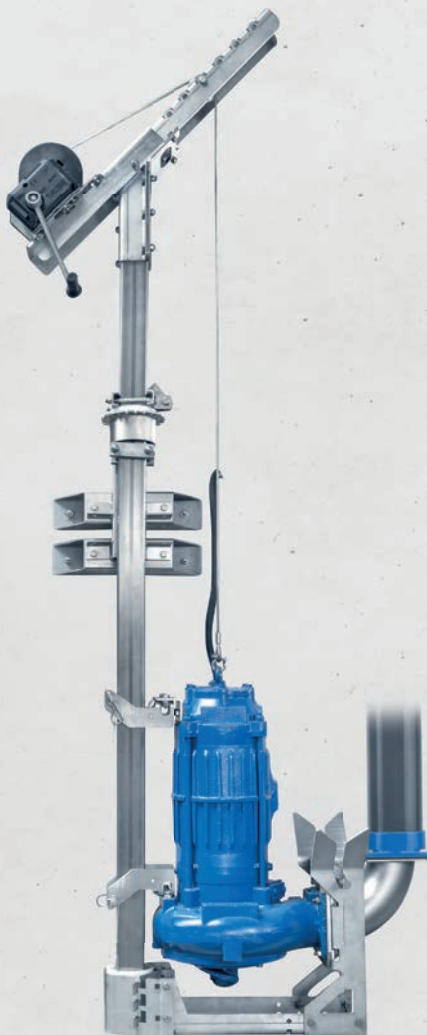
Tank with concrete ceiling



ATF 74 S
ATF 104 S



GTF 104 S
GTF 154 S
GTF 204 S



Submersible motor pumps

Installation set EGP

The Eisele installation sets EGP come in stainless steel as a standard and can be combined with all submersible motor pumps from a power of 4.6 kW.

Illustration: Installation set EGP2

Type	Description	Devices	Tank material	Features
EGP 1	Installation set for open tanks	all AT	Concrete, steel, wood	Floor support, floor spacer, guide rail, fixing components, boom with winch, wire cable, cable clamps
EGP 2	Installation set for open tanks with notch coupling	from AT 74	Concrete, steel, wood	Floor support, notch coupling, guide rail, fixing components, boom with winch, wire cable, cable clamps
EGP 3	Installation set for tanks with concrete ceiling	all AT	Concrete	Floor support, floor spacer, guide rail, fixing components, boom with winch, wire cable, cable clamps
EGP 4	Installation set for tanks with concrete ceiling with notch coupling	from AT 74	Concrete	Floor support, notch coupling, guide rail, fixing components, boom with winch, wire cable, cable clamps
EGP 5	Installation set with chain for open and closed tanks	all AT	Concrete, steel, wood	Stand or base pedestal, floor support, guide rail, fixing components, boom with all-purpose transmission, holder for chain locking device, chain

Vertical pumps VM / VG / VK



Eisele vertical pumps VM / VG master the most difficult tasks with ease and stand out for top reliability. They agitate and deliver up to 10,000 l per minute. They are available in overall lengths of 1.50 m to 5.50 m.

The vertical compact system VK can be designed as a distributor pump station with up to four connection nozzles (DN 300) and overall lengths of 0.60 m to 2.50 m. The compact lifting frame with Euro mounting enables easy re-positioning of the V pumps (up to an overall length of 4.0 m) into open tanks or tanks with concrete ceiling.



11.0 kW to 55.0 kW



3,900 l / min - 10,000 l / min

Benefits

- Overloadable motors manufactured by Eisele
- Pipeline components, rods and protective pipe (V42) in stainless steel as a standard
- Protective frame (V41) optionally in stainless steel
- Easy operation
- Safe dry running (extremely wear-resistant mechanical seal runs in oil bath)
- Corrosion-resistant, reliable mixing nozzle

Variants

- With top or bottom intake (V41 / V42)
- With motor (VM) / gear (VG) or combination
- With underground connection (VMU / VGU)
- As vertical compact system VKM / VKG
- Optional IE4 motor with frequency converter

Features

- Different auger blades depending on power
- Solid, cast-iron pump housing
- Stainless steel pipeline components, rods and protective pipe (V42)
- Protective frame V41 in painted steel or stainless steel
- Extremely wear-resistant mechanical seal

Accessories

- Additional cutting knives on auger blades for extremely long-fibred foreign matter
- Second mixing nozzle
- Various switches / control systems
- Lever assembly for reverse operation
- Filling level and oil reserve tank
- Shut-off gate valves and three-way / five-way valves
- Connector for drum filling pipe / drum filling station



Agriculture




Biogas


Technical Data

Type	Max pumping head	Max delivery volume	Rated power		Rated speed	Rated current
DRIVE ELECTRIC VM / VKM	m	L / min	kW	hp	rpm	A
1541 / 42	16	3,900	11.0	15	1,460	21.2
2041 / 42	17	4,300	15.0	20	1,460	28.9
2541 / 42	21	5,400	18.5	25	1,460	34.1
3041 / 42	24	6,000	22.0	30	1,460	39.5
4041 / 42	28	6,000	30.0	40	1,460	55.5
DRIVE POWER-TAKE-OFF SHAFT TRACTOR DRIVE VG / VKG	m	L / min	kW	hp		
1541 / 42	25	6,100	24.0	33		
2041 / 42	27	6,500	33.0	45		
2541 / 42	42	8,500	45.0	61		
3041 / 42	47	10,000	55.0	75		

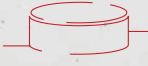
Vertical pumps VM / VG



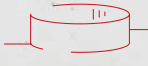
Open lagoon




Slalom system



Tank with concrete ceiling



Open tank



Steel tank



VGU 41



VG 41



VG 42



VMU 41



VM 41



VM 42

Vertical pumps

Vertical compact system VK



Open lagoon



Closed lagoon



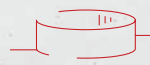
Slalom system



Tank with
foil roof



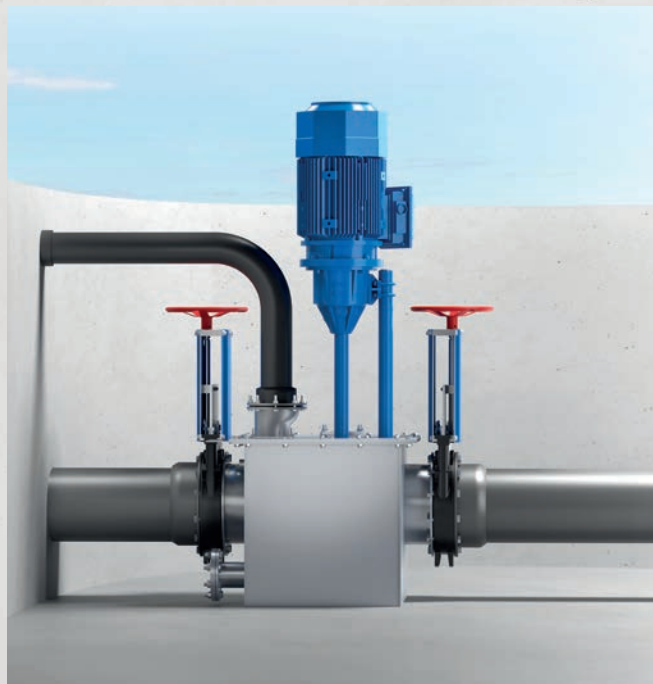
Tank with
concrete ceiling



Open tank



Steel tank



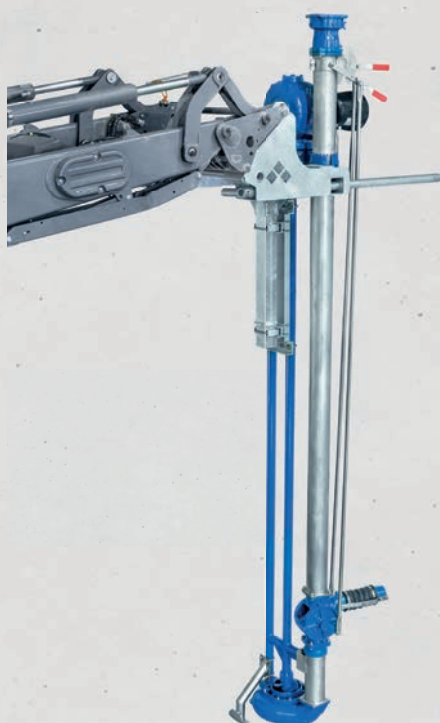
Features

- Stainless steel trough with up to four connectors (DN300)
- Blind flange for vent pipe
- Outlet nozzle with flange \varnothing 150 mm for continuation of the pressure line

Accessories

- Various shut-off gate valves

Illustration: Vertical compact system VK with vertical pump



Lifting frame with Euro mounting



Tank with
concrete ceiling



Open tank



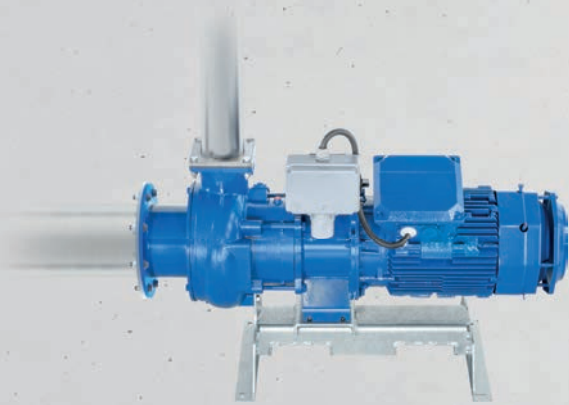
Steel tank

Features

- Various attachment kits depending on pump type (V41 / V42)
- Fully hot-dip galvanised
- Integrated support feet and pump foot

Illustration: Lifting frame with Euro mounting with vertical pump

Close-coupled pumps BP



The Eisele close-coupled pump BP is a centrifugal pump in block construction. It is installed dry and optionally vertically or horizontally. Available are five models with three-phase motors (efficiency class IE3, optionally IE4) from 11 kW to 30 kW. They pump up to 7,200 l / min and achieve pumping heads of up to 25.00 m.



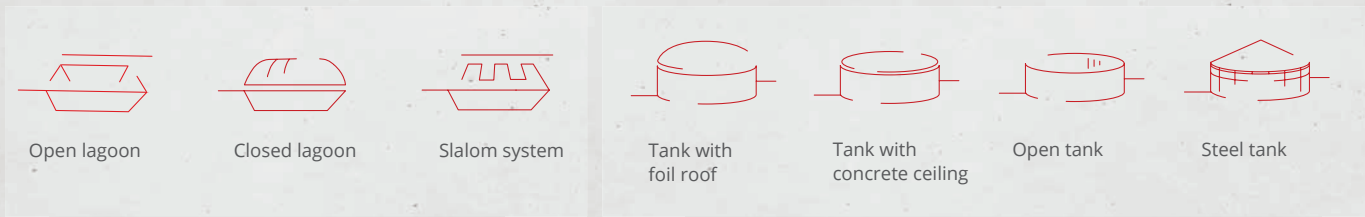
11.0 kW to 30.0 kW



5,100 l / min - 7,200 l / min

Benefits

- Compact, space-saving block construction
- Powerful
- Low maintenance
- Substrate temperature of up to 65°C
- High effectiveness
- Extensive accessory range
- Easy installation



Features

- Mechanical seal on motor and medium side in an oil bath
- Auger blades with cutting edge
- Intake manifold DN200 in stainless steel
- Overloadable three-phase motors (IE3, optionally IE4)



Agriculture



Biogas

Accessories

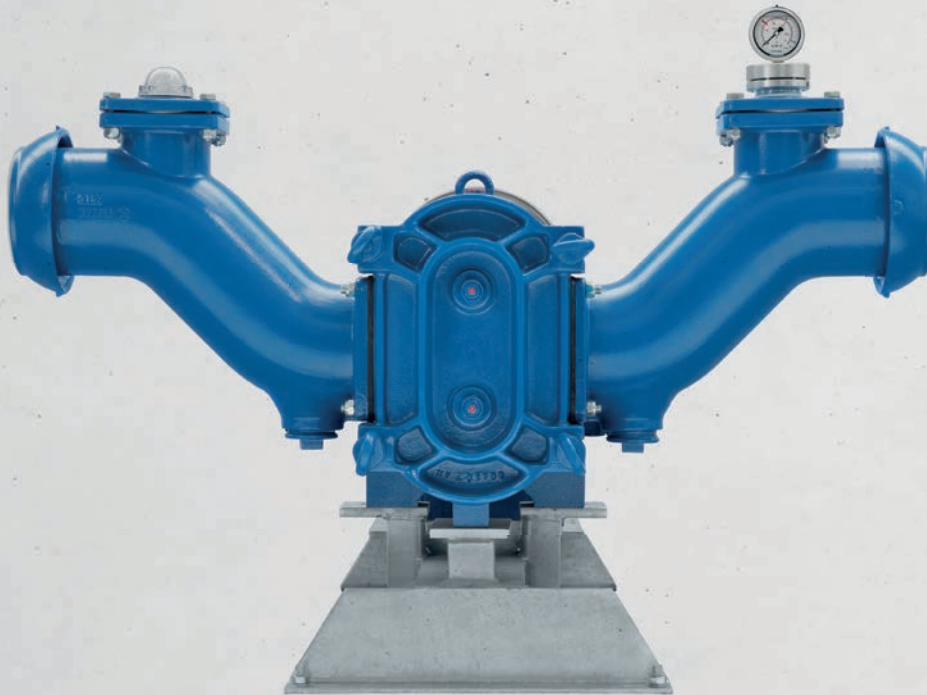
- Base frame
- Various switches / control systems
- Connector for drum filling station
- Various shut-off gate valves
- Frequency converter

Technical Data

Type	Max pumping head	Max delivery volume	Rated power		Rated speed	Rated current
BP	m	L / min	kW	hp	rpm	A
154 S	15	5,100	11.0	15	1,477	20.4
204 S	18	5,700	15.0	20	1,477	27.8
254 S	20	6,000	18.5	25	1,481	34.8
304 S	22	6,700	22.0	30	1,481	41.5
404 S	25	7,200	30.0	40	1,476	56.5

Performance data are related to water. Specifications and illustrations are non-binding.

Rotary lobe pumps DK



The self-priming Eisele rotary lobe pumps from the DK series are available with power-take-off shafts or electric drives. Available are four models with a performance of up to 6,000 l/min and an operating pressure of up to 10 bar. Extensive accessories expand the wide range of applications.

The mobile pump stations of the PS series are fitted with the practice-proven PTO-drive rotary lobe pumps DK 620V. This means drums can be quickly and flexibly filled from above.



7.5 kW to 63.0 kW



600 l / min - 6,000 l / min

Benefits

- Rotating direction can be reversed
- Easy rotary lobe replacement
- Leakage chamber between gear and pump compartment (DK 320V / DK 620V).
- Constant pumping performance even with viscous media
- Enormous suction and pressure power
- Low maintenance

Features

- Wearing plates on the front face in the pump housing and cover
- Suction and pressure side with outlet nozzle flange
- Suction and pressure side both with male connector connecting piece
- Pressure gauge on pressure side
- Sight glass on suction side
- 2" drain opening in pipe elbow

Accessories

- Various cardan shafts
- Stone trap box
- Crusher
- Pump frame for rear hydraulics
- Base frame



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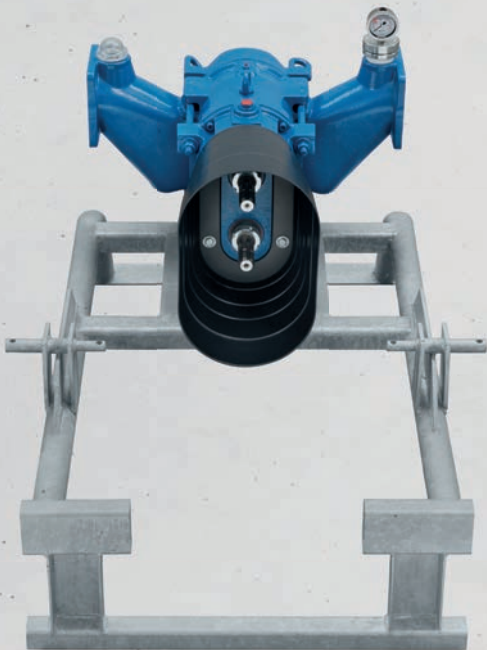
Biogas

Technical Data

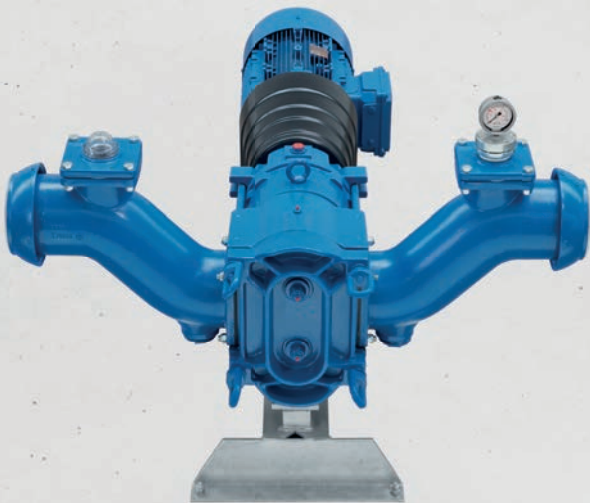
Type	Power	Speed	Max pressure p	Max delivery volume Q	Suction/pressure connection ø
DRIVE ELECTRIC DK	kW	rpmbar	L / min	mm	
12V - 1040	7.5	273	4.0	600	133
12V - 1540	11.0	237	7.0	475	133
12V - 2040	15.0	318	7.0	650	133
12V - 2540	18.5	320	10.0	600	133
22V - 1040	7.5	273	2.0	1,100	159
22V - 1540	11.0	237	3.5	1,000	159
22V - 2040	15.0	318	4.0	1,300	159
22V - 2540	18.5	320	5.0	1,200	159
320V - 2540	18.5	265	2.0	1,950	159
320V - 3040	22.0	320	2.5	2,350	159
620V - 4040	30.0	450	1.5	5,200	200
DRIVE POWER-TAKE-OFF SHAFT TRACTOR DRIVE DK					
12V	30		10.0	1,500	133
22V	30		5.0	2,500	159
320V	55		5.0	4,000	159
620V	63		4.0	6,000	200

Performance data are related to water. Specifications and illustrations are non-binding.

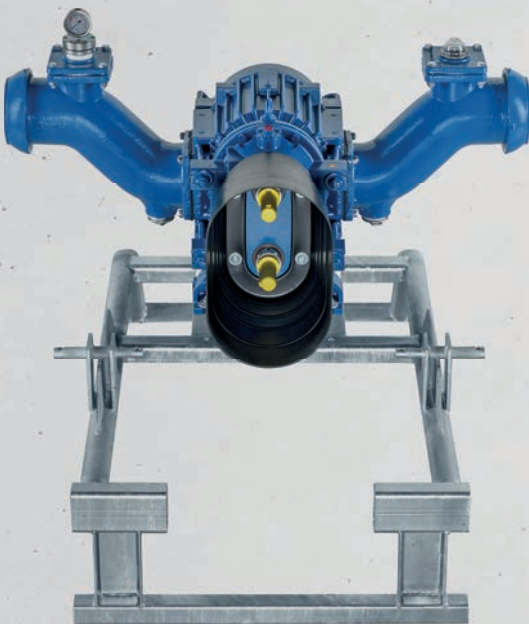
Rotary lobe pumps DK



DK 12V
Illustration with pump frame for rear hydraulics with PTO shaft drive



DK 22V
Illustration with base frame and electric drive



DK 320V
Illustration with pump frame for rear hydraulics with PTO shaft drive



DK 620V
Illustration with pump frame for rear hydraulics with PTO shaft drive

Rotary lobe pumps

Mobile pump station PS



Features

- Feed pipe DN200
- Base frame with three-point mounting
- Side swivel mechanism (manual)
- Hydraulic height adjustment with hydraulic cylinder
- Base frame lighting
- Three-way valve for pumping over or filling from below
- Suction connector DN200
- Rotary lobe pump

Accessories

- Various cardan shafts
- Stone trap box
- Crusher



Illustration: PS DN200 basic version



Illustration: PS DN200 SZ with stone trap box and crusher

Drum filling station FFS

adjustable in height and rotation



With the modular Eisele drum filling station FFS (pipe diameters DN150 and DN200), even large drum trolleys can be filled effectively and flexibly.

Thanks to a joint with a rubber sleeve, the FFS is hydraulically height-adjustable and can be operated with the tractor hydraulics, a hand pump or a remote-control unit. A telescopic outlet with a pulley or a rigid variant with a hose outlet without height adjustment are available optionally. In combination with the Eisele high-performance pumps, your drum filling station becomes a perfect unit.



Agriculture



Biogas



1. Tripod with side outlet
2. Hand pump
3. Rotary flange lock
4. Swivelling unit
5. Ascending pipe
6. Hydraulic unit
7. Height adjustment
8. Boom
9. Hose filling

Illustration: FFS DN 150/200 rotatable and hydraulically height-adjustable

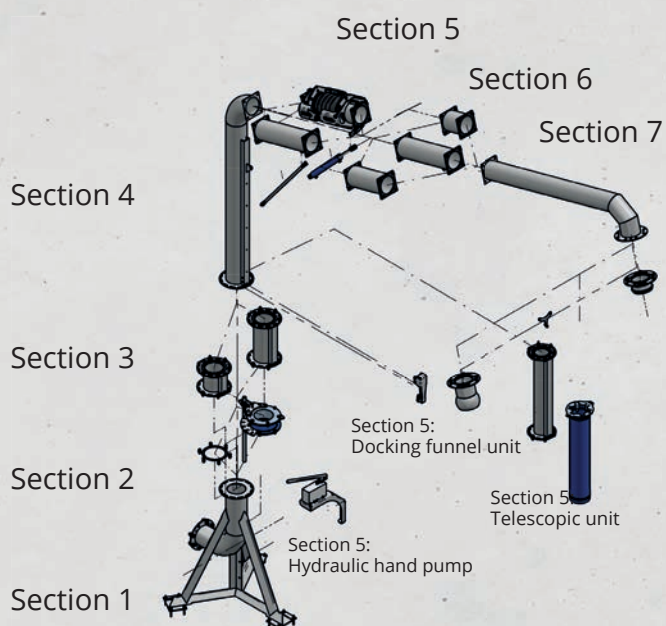


Illustration: DN 150/200: overview of all variants

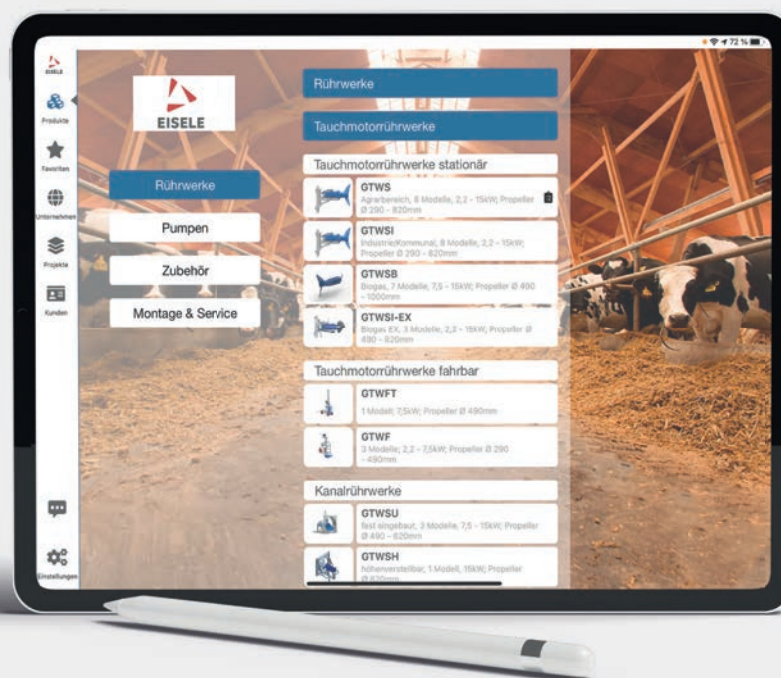


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