TECHNICAL DATA

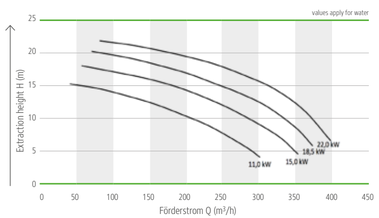
MAGNUM LEE / LEC	max. operational performance* [kW]	Operating rotations* [min⁻¹]	Extraction flow* [m³/h]	Extraction flow* [l/min]	Extraction height* [m]
11,0	9,0 – 11,0	1475	40 – 300	667 – 5000	15,0 – 4,0
15,0	11,0 – 15,0	1475	55 – 350	917 – 5833	18,0 – 5,0
18,5	12,0 – 18,5	1475	70 – 370	1167 – 6167	20,0 – 6,0
22,0	13,0 – 22,0	1475	80 – 400	1333 – 6667	22,0 – 7,0

* All values apply for water

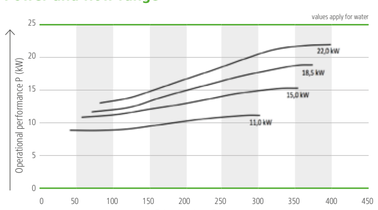
MAGNUM LEE / LEC	Model Pit depth including. cover (GT) [m] max. fluid level height (FS) [m]	2,0 2,3 2,0	2,5 2,8 2,5	3,0 3,3 3,0	3,5 3,8 3,5	4,0 4,3 4,0	4,5 4,8 4,5	5,0 5,3 5,0	5,5 5,8 5,5	6,0 6,3 6,0
Nozzle quantity 0	Pit cover - motor flange [m] approx.	0,99	0,84	0,99	0,84	0,99	0,84	0,85	0,69	0,85
	Pit cover - pressure port curve [m] approx.	0,37	0,37	0,37	0,37	0,37	0,37	0,37	0,37	0,37
	Pit cover - pressure port straight [m] approx.	0,52	0,52	0,52	0,52	0,52	0,52	0,52	0,52	0,52
Nozzle quantity 1*	Pit cover - motor flange [m] approx.	0,99	0,84	0,99	0,84	0,99	0,84	0,85	0,69	0,85
	Pit cover - pressure port curve [m] approx.	0,48	0,48	0,48	0,48	0,48	0,48	0,48	0,48	0,48
	Pit cover - pressure port straight [m] approx.	0,63	0,63	0,63	0,63	0,63	0,63	0,63	0,63	0,63
Nozzle quantity 2**	Pit cover - motor flange [m] approx.		N/A		0,99					
	Pit cover - pressure port curve [m] approx.		N/A					0,39		
	Pit cover - pressure port straight [m] approx.		N/A					0,52		

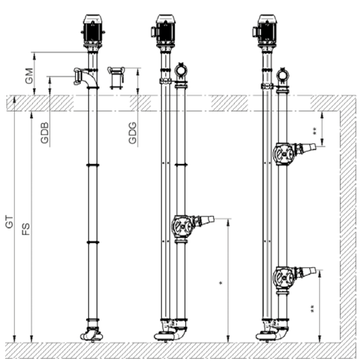
* Nozzle approx. in the middle of the max. fluid level height; ** Top nozzle approx. 0.69m beneath the max. fluid level height, the lower nozzle approx. 1.40m above ground level

Pressure and flow range



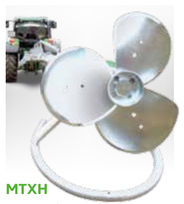
Power and flow range





BAUER
FOR A GREEN WORLD

PRODUCTS FROM OUR SLURRY PROGRAM

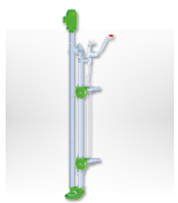


MTXH
Tractor mixer

MSXH
Submersible motor mixer

SEPARATOR
Press screw separator for solid-liquid separation

SEPARATOR PLUG & PLAY
System for portable slurry separation



MAGNUM LEE/LEC
Long shaft pump

MAGNUM SM
Thick matter pump gear unit design

MAGNUM CSPH
Submersible motor pump gear unit design

HELIX DRIVE
Eccentric screw pump

MAGNUM SX
Thick matter pump gear and pedestal pump

Slurry tankers and polyester tanker
Different tanker types for every requirement

Trailing hose applicator
Modular system for all types of tankers

Slurry injector
Innovative spreading technology

Your dealer

Röhren- und Pumpenwerk BAUER GmbH
8570 Voitsberg / Austria
T +43 3142 200-0
F +43 3142 200-320/-340
M sales@bauer-at.com
W www.bauer-at.com

BAUER QUALITY AND INNOVATION SINCE 1930

Subject to change / MAGNUM LEE/LEC / 08.2018
no-sun.com

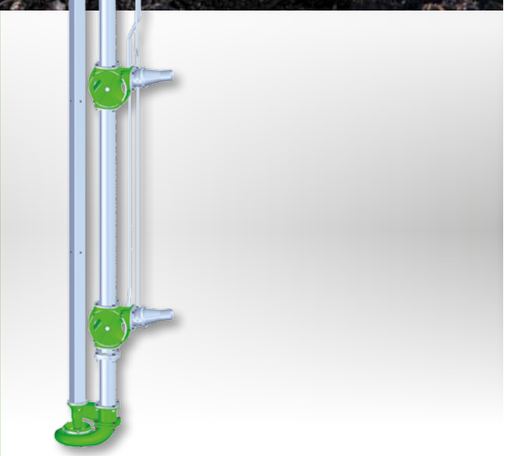
BAUER
FOR A GREEN WORLD

EN

WASTE WATER TREATMENT

MAGNUM LEE / LEC

THE ALL ROUNDER



WWW.BAUER-AT.COM

MAGNUM
LEE / LEC

For all situations
There are two set-ups for different slurry consistencies

MAGNUM LEE

- low share of straw and feed residues in manure
- Flow-optimised suctionbell
- high hydraulic effectiveness

MAGNUM LEC

- high proportion of straw and feed residues in manure
- high efficiency, long-lasting cutters
- 30 cuts / rotation
- 43,500 cuts / min.

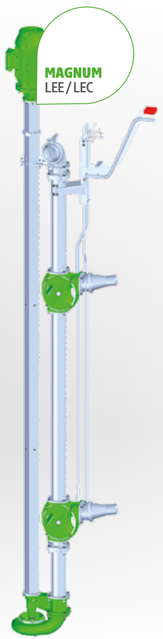
TYPICAL USAGE OPPORTUNITIES

- Stirring
- Filling tanks
- Rinsing
- Pumping

MAGNUM LEE / LEC

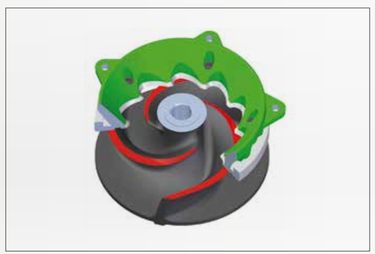
The long shaft pump is utilised for the extracting and homogenising of slurry and waste water. The special characteristic of this design is that the pump's hydraulic components are submerged in the medium but the electric motor is outside of the medium. The motor is also connected to the hydraulic components with a control shaft of varying lengths to match the depth of the pit.

The advantage of this pumping system is that the components that are not submerged in the medium do not need to be sealed and can therefore not be damaged. High quality materials, combined with hydraulic and optimal stabilising geometry ultimately result in a long-lasting, robust and energy efficient thick matter pump.



Hardened ductile iron cutters

As a result of extensive thick matter tests, the cutter efficiency was optimised and wear resistance greatly increased through the use of hardened materials. To guarantee this, ductile iron is used to give particular properties as a result of special heat treatment to ensure it can cope with the toughest conditions. ↓



Top intake prevents foreign objects being sucked into the pump

Top intake means that the extracted medium is driven up the shaft. The advantage of this set-up is that heavy objects such as stones or similar material do not reach the cutters.

Pipe pressure in 6 inch measurements

The long shaft pump has a 6 inch pressure pipe to reduce friction losses in the pipe.

Stationary or mobile

The long shaft pump can be placed in the pit for stationary usage with the aid of wall fixtures or fixtures on the edge of the pit. If the pump is used in various pits, the long shaft pump is available assembled on a robust lifting frame.

Zinc coated or stainless steel finish

For use in the agricultural sector, the long shaft pump is finished with a zinc coating while a stainless steel version is available.

Performance Class			
11 kW	15 kW	18,5 kW	22 kW

Robust bearings for the toughest applications

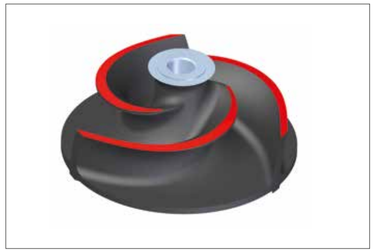
The main component of the long shaft pump is the pump mechanism that has an incredibly robust bearings running in oil. The three-sided sealant provides a high level of protection from oil and slurry penetrating the storage unit.
←

Three-way switchable cock

With the help of the three-way cock, effortlessly switching between extracting and stirring while operating the pump is possible.

Highly flexible nozzle

A nozzle was developed especially for application in round or right angled pits that can be swivelled horizontally up to 180°. In addition, this nozzle can be swivelled 15° upwards or downwards.
←



Hydraulically optimised thick matter impeller

Through the use of modern simulation programmes as well as intensive hydraulic measurements and optimisations, an efficient geometry could be developed that results in a high hydraulic effectiveness.
←

Robust, drive shaft with multiple bearings

The control shaft has a drive shaft with a massive shaped pipe 120 x 120 x 4mm supported several times by specially developed bearings that leads to an energy efficient, smoothly operated and robust control shaft. The long shaft pump is available for pits of two to six metres deep in 0.5 metre increments.
←