

- > MAGNUM SM 540
- > **MAGNUM SX**
- > HELIX DRIVE
- > MAGNUM ESPH/CSPH
- > MAGNUM LEE/LEC

WASTE WATER TREATMENT

## MAGNUM SX

HIGH PRESSURE PUMP WITH CUTTING DEVICE



### PRODUCTS FROM OUR SLURRY PROGRAM



**MTXH**  
Tractor mixer



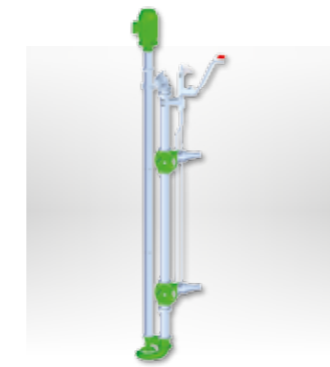
**MSXH**  
Submersible motor mixer



**SEPARATOR**  
Press screw separator for solid-liquid separation



**SEPARATOR PLUG & PLAY**  
System for portable slurry separation



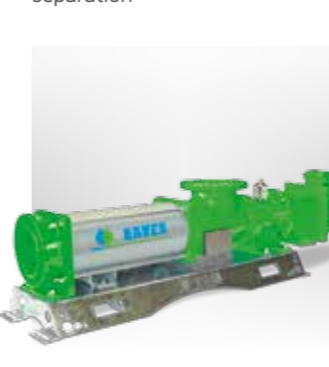
**MAGNUM LEE/LEC**  
Long shaft pump



**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



# MAGNUM SX

The gear- and pedestal pumps from BAUER are characterized by their excellent comminution effect and large delivery heights.

## THE FACTS

- Can handle up to 12% solids
- Capacity of up to 300 m³/h (1320 USgpm)
- Manometric head of up to 140 m (459 ft) WC
- For pumping and chopping
- High cutting performance
- Largely insensitive to solid particles
- Efficient and economical
- Low operating costs
- Easy maintenance
- Multi-Drive – different driving options
- Self-primer (optional equipment)
- Automatic pressure regulation (optional equipment)

MAGNUM SX  
IN NUMEROUS  
VERSIONS



### Product series Magnum SX

- **SX 1000** with heavy-duty gear as tractor pump
- **SX 2000** with heavy-duty gear for Diesel engines
- **SX 2600** with pedestal for electric drive motors

### Mounting variants

- **SX 1000** on a pump trolley
- **SX 1000** on a hoisting frame for three-point linkage
- **SX 2000** on a trailer with Diesel engine
- **SX 2000** on a mobile unit with Diesel engine
- **SX 2600** on a base plate with electric drive motor

### Applications

- **Agriculture:** hose lines, slurry irrigation, pump tankers, mobile and stationary transfer pumps, biogas plants
- **Foodstuff industry:** slaughter houses, feces
- **Environmental technology:** sewage sludge, digested sludge, fecal sludge
- **Bio-energy industry**

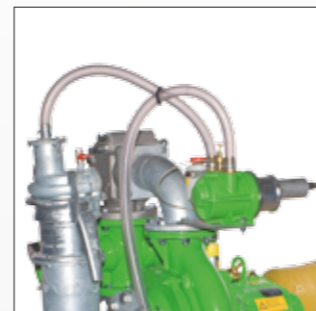


## Technical features

- **Pump Housing**  
Of special design, ensures unobstructed delivery of viscous liquids
- **Cutting blades**  
Easily adjustable to maintain the ideal cutting gap, draw cut, high-grade casting
- **Suction flange**  
Ensures enormous suction capacity, avoids turbulences
- **Protection plates**  
For a long service life
- **Shaft sealing**  
Of industrial standard, double-acting mechanical seal with oil reservoir
- **Pump shaft and bearing**  
Amplly dimensioned
- **Gearbox**  
Of compact industrial design
- **Automatic pressure regulation** (optional equipment)  
For changing conditions of use

### Self-primer (optional equipment)

Mechanical, hydraulic or electro-mechanical execution



### Automatic pressure regulation (optional equipment)

For changing conditions of use



### Impeller

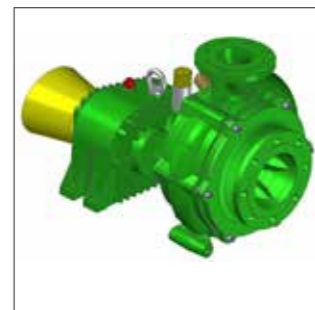
High-grade casting, maximum wear-resistance, ideal runner blade geometry, draw cut, best suited for liquids containing straw or grass, open design of impeller for viscous liquids, double-acting, keeps the sealing space free of solid particles



## TECHNICAL DATA

### Gear pump SX1000

- Tractor gear pump with adjustable cutting device
- Spiral housing made of GG 25
- Suction flange with twist reducing function
- Thick matter impeller with back blades – 2600 min<sup>-1</sup>
- Thick matter impeller made of spheroidal cast iron with hardened cutting edges
- Cutting flange made of chrome steel casting
- Compact and smooth helical gear box with heardned helical gearing
- Mechanical seal (silicon carbide) with oil trap
- Flush connection with Geka-coupling
- Suction connection DN 150
- Pressure connection DN 100
- Drive shaft with 1¾" profile according to DIN 6911 (ISO 500)

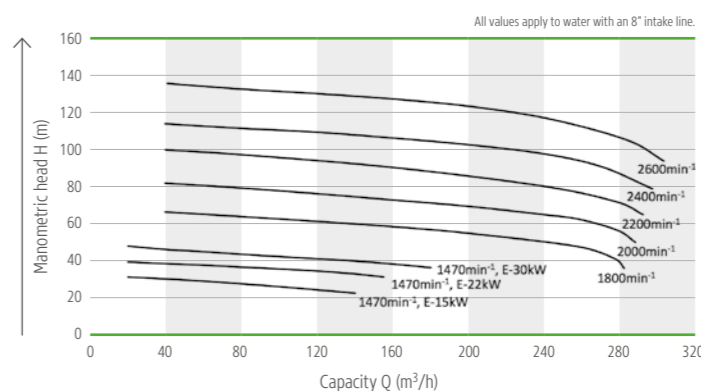


### Pedestal pump SX2600

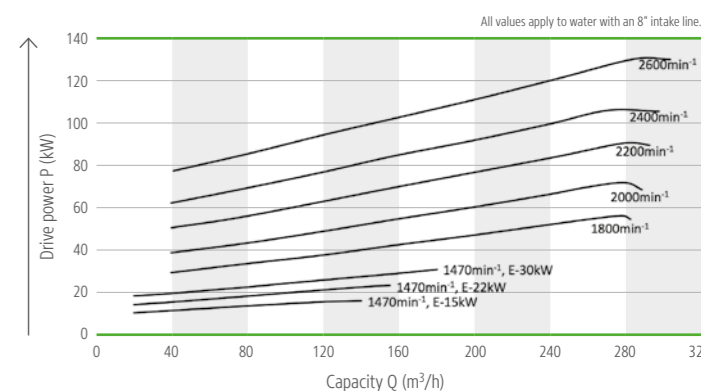
- Pedestal pump with adjustable cutting device
- Spiral housing made of GG 25
- Suction flange with twist reducing function
- Thick matter impeller with back blades – 2600 min<sup>-1</sup>
- Thick matter impeller made of spheroidal cast iron with hardened cutting edges
- Cutting flange made of chrome steel casting
- Cast iron pedestal
- Pump shaft made of heat-treatable steel
- Mechanical seal (silicon carbide) with oil trap
- Flush connection with Geka-coupling
- Suction connection DN 150
- Pressure connection DN 100
- Free shaft end Ø 42 mm for direct or V-belt drive



## Pressure- and capacity ranges



## Power- and capacity ranges



The labels of the pump characteristics refer to the rotational speeds of the respective impellers. Depending on the version used (SX 2600 – 1:1; SX 2000 – 1:1,27; SX 1000 – 1:2,57) the corresponding drive speeds can be set. The maximum speed of the pump impeller must not exceed 2600 rpm.

Pump configuration according to data sheet curves.