

CONVEYING AND DOSING OF COMPLEX MEDIA.



WANGEN PUMPEN for highly viscous, hot, abrasive and sticky media.

FEATURES

- Cardan joints with plain bearing to protect against aggressive chemicals
- Stainless steel or chrome-plated rotors
- NBR, EPDM, FKM, CSM (Hypalon), VMQ stators
- Typical pumps KL30S 40.0 or KL30S 68.0

TYP. CAPACITY
m³/h | 30

MAX. PRESSURE
bar | 72

APPROX. VISCOSITY
mPa.s | 9,000,000



MEDIUM: FORMIC ACID

- Stator: Hypalon 824/60 or EPDM-LM 725/60-ST
- Chemically and mechanically resistant stator

MEDIUM: HYDROGEN PEROXIDE

- Hollow rotor for extremely large pumping range
- Chemically resistant stator

CHEMICALLY AGGRESSIVE MEDIA

HIGHLY ABRASIVE MEDIA

HOHER DRY MATTER CONTENT
% | 45

TYP. PRESSURE
bar | 24

TYP. CAPACITY
m³/h | 6

MEDIUM: LEAD PASTE FOR BATTERIES

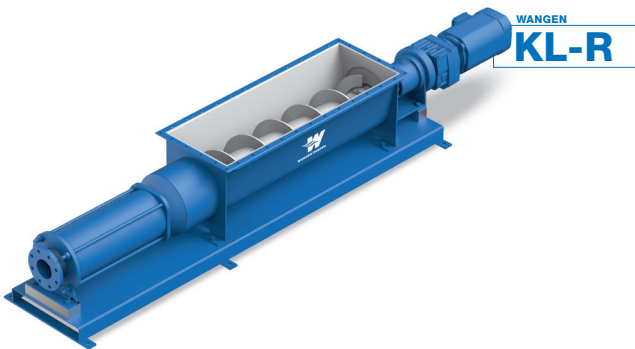
- Stator: NBR 440/60 – highly resistant to abrasion
- Hopper: special non-stick coating

MEDIUM: MORTAR

- Hinged pump housing for manual cleaning of the housing
- Hard chrome-plated or flame-hardened steel rotors

FEATURES

- Feed of abrasive, non-flowing media by feed screw in the hopper
- Low sliding velocity pumping
- Flame-hardened rotors and use of stators
- Typical pumps KL50R 50.4 - KL65SK 110.2 - KL80S 148.0



WANGEN QUALITY IN DETAIL.



Rotor/Stator

Manufactured in materials to suit the media. An in-house curing process ensures perfect dimensional tolerances.

Cardan joint

Large-sized joint with sleeve protection to ensure the longer service life of the power transfer elements.

Mechanical seal

Large range of differing permanently lubricated cartridge mechanical seals.

Bearing pedestal

Used to reduce vibrations and mechanical loads on the gears. Standardised hollow shaft, suitable for flanged gear motors, and standard shaft outlet.



PUMPS FOR CHEMICAL & INDUSTRIAL SECTOR.

MEDIA

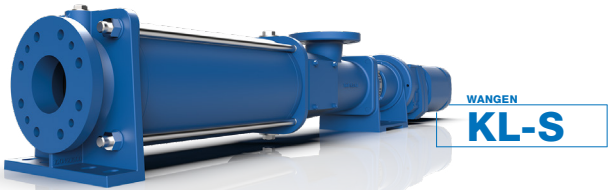
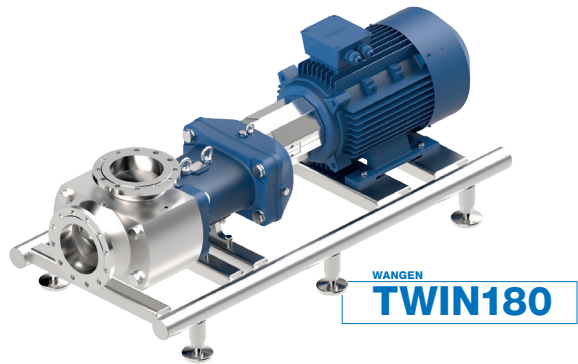
- Waste oil, mineral oil, dewatered oil sludge, and cutting oil
- Lead paste for batteries
- Cement mortar/gypsum suspension
- Bitumen paste
- Plastic sealant
- Polymers, polyacrylamide
- Silicone liquids and emulsions
- Paper pulp
- PVC adhesive, dispersion adhesive, wallpaper glue, or starch glue
- Latex, titanium oxide, paints and lacquers
- Acids, alkali, salt solutions
- Calcium carbonate and chromium hydroxide
- Ammonium sulfate

MEDIUM: BITUMEN (180°C)

- Twin screw pump TWIN180
- Hardened screw spindles
- Pump housing with heating jacket

MEDIUM: SEALING COMPOUND (WINDOW PUTTY)

- Undersized rotor - operation up to 80°C
- Viton stator (FKM-P 526/60-ST)



TYP. CAPACITY
m³/h 15

TYP. PRESSURE
bar 24

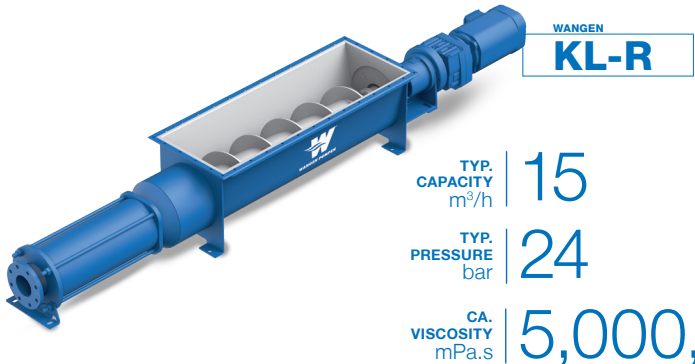
CA. VISCOSITY
mPa.s 5,000,000

FEATURES

- Insulated heating jackets for high temperatures
- Flushed double-acting mechanical seals
- Undersized rotors and CIP connections on progressing cavity pumps
- CIP-capable twin screw pumps

HOT & STICKY
MEDIA

HIGHLY VISCOUS
MEDIA



TYP. CAPACITY
m³/h 15

TYP. PRESSURE
bar 24

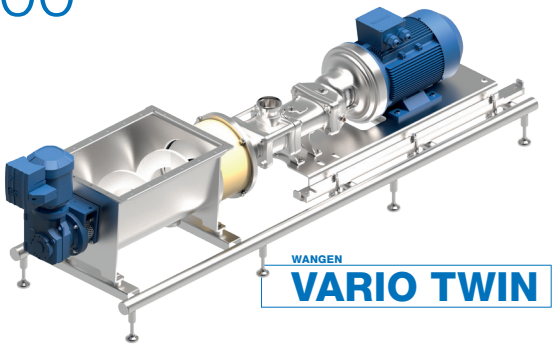
CA. VISCOSITY
mPa.s 5,000,000

FEATURES

- Worm pre-conveyor in the suction housing
- Media is fed in through a hopper with progressing cavity and twin screw pumps
- Steel or POM solid stators
- Optimised pump design for low sliding speeds/ rotational velocities
- Extremely durable cardan joint design
- Large connecting branches on self-priming pumps and additional flushing connections

MEDIUM: OIL SLUDGE AND OIL DISPERSION WITH METAL PARTICLES

- Tank pumps to pump from a depth of 5 metres
- Single-acting mechanical seal
- Hard chrome-plated stainless steel rotor
- Pumps for areas at risk of explosion



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