

**SCREW PUMPS**

**SCREENS**

**SCREENINGS HANDLING**

**COMBINATED SYSTEMS**

**GRIT HANDLING**

**CONVEYOR**

**ELECTRICAL- and AUTOMATION TECHNOLOGY**

**MEASUREMENT and CONTROL TECHNOLOGY**

**SERVICE SUPPORT**

# ARCHIMEDEAN SCREW PUMP KWS

## Transports of Liquid Material

### KUHN Archimedean Screw Pumps

Hardly any other machine in the waste-water sector provides as many benefits as the screw pump attributed to the Greek scientist and mathematician Archimedes.

- Extremely durable, low-maintenance and operationally reliable
- Unparalleled efficiency with large control range (no loss of suction power or pressure)
- Gentle conveying process for biological cultures. No adverse effect on the sedimentation properties and floc structure - this substantially facilitates the treatment of waste water
- Conveys raw waste water with the coarsest impurities and additional screening at pump stations is avoided
- The Archimedean screw pumps are extremely resistant to blockage
- Service with shorter response durations for all makes and types

Although the screw pump system is highly resistant and can "cope with" many faults and errors, the service life - and hence the cost-effectiveness - depends on how optimal the concept is, along with the experience of the manufacturer.

As Germany's oldest and largest manufacturer of screw pumps, we have been providing robust and sustainable solutions for over 40 years.

**KUHN** is the only manufacturer with complete mastery over all types of troughs, from rotating casing troughs to special thin-layer mortar troughs, and which can determine, design and build the optimal system for you. After all, there are no poor solutions, just incorrect applications!



### Technical Features

The superior design - of both the components and the screw itself - ensures extremely cost-effective operation and the long-term security of your investment.

The trough, as an integral component of the machine, is particularly important. The most cost-effective variant is dependent on which system is optimal; hence, only an experienced expert can determine a sustainable solution for you and provide advice regardless of system.

Some examples of our machines and trough variants:

- Site concrete
- Special mortar system
- Prefabricate stone trough
- Basalt tiles
- Troughs for grout with concrete (Steel/Hardox®)
- Stationary pipe (self-supporting, compact design)
- Rotating pipe sleeve (self-supporting, compact design)



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## Drive unit cover (optional)

For outdoor installation

## Coupling

Flexible with changeable coupling packages

## Energy-saving motor

Explosion protected or pole-changing execution possible

## Number of gears

1-3 gears for highest hydraulic efficiency

## Numerous variants of machines and troughs

## Deflector plates

To improve the filling level

## Flights

- Material strength (limited) eligible, special
- Material like Hardox® or Brinar® possible

## Bottom bearing

- "standing" or "hanging" variant
- Permanently lubricated bearing or grease lubricated execution possible

