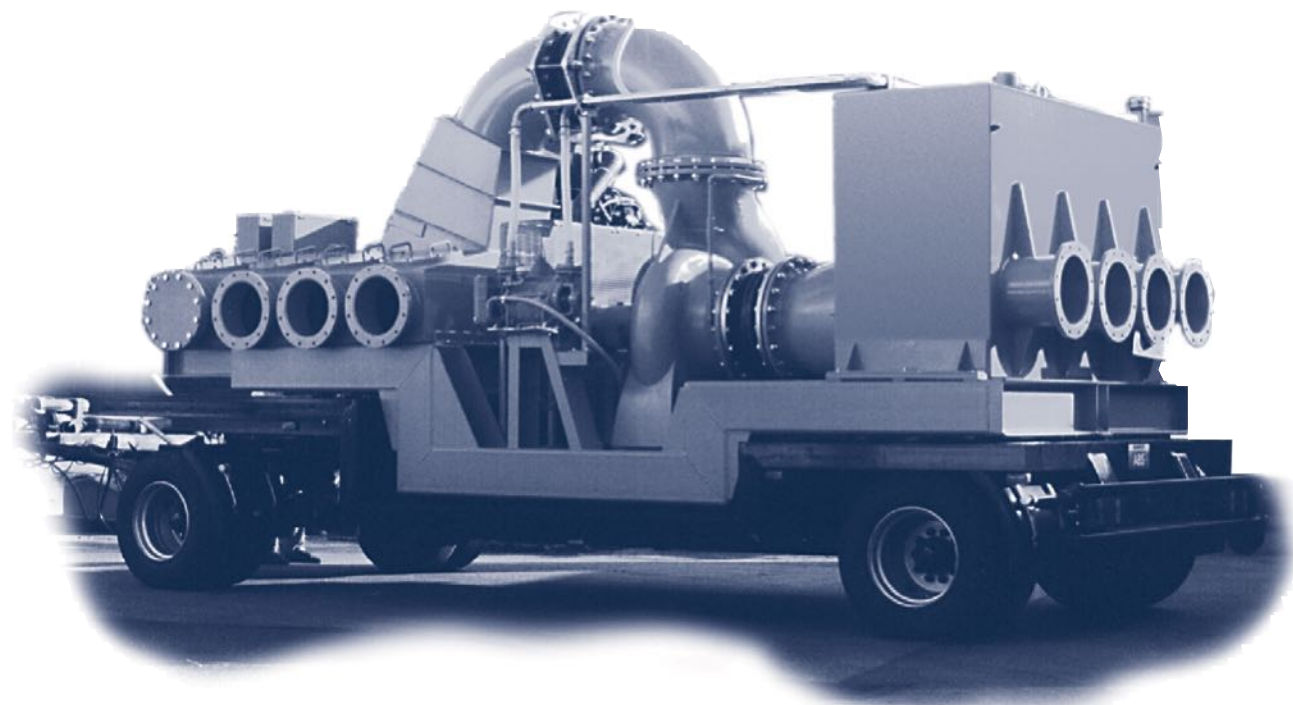
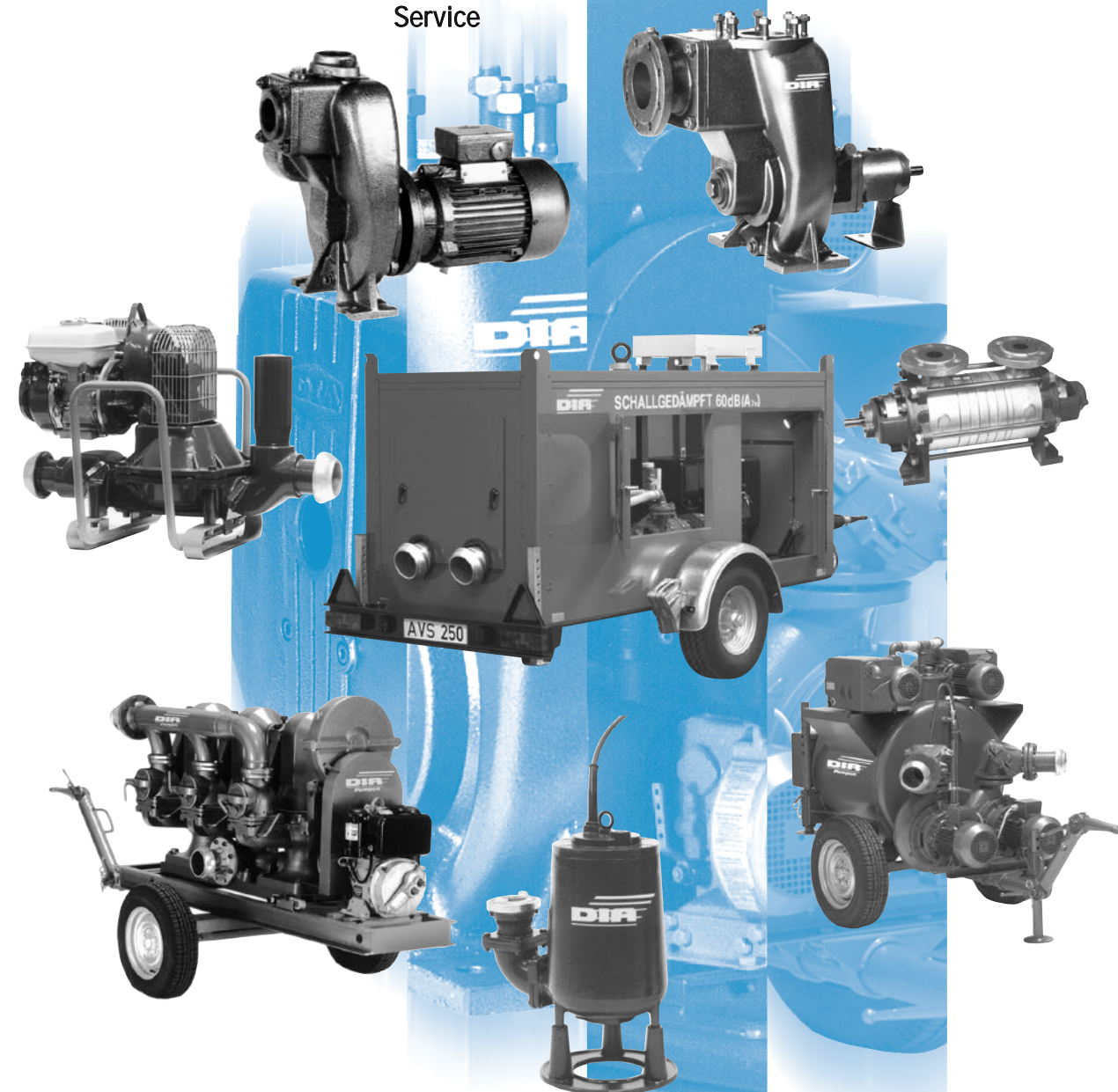


"Dia" Pumpen

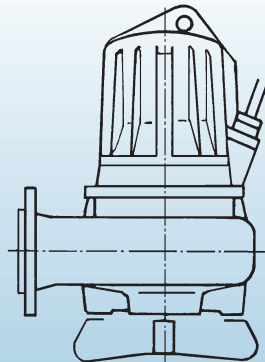
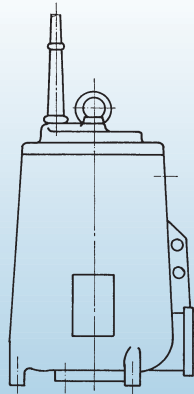
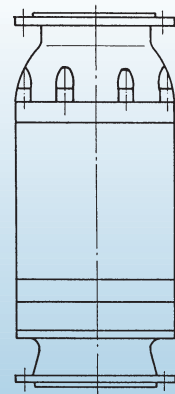
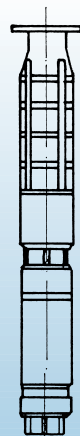


Pump Technology
Plant engineering
Technical advice
Service



Pumps for clean liquids,
waste water,
sewage, slurries,
pumping and vacuum
units.





SUBMERSIBLE PUMP
sectional construction

TEL/TEN/TER

PERFORMANCE DATA

$Q \leq 450 \text{ m}^3/\text{h}$
 $H \leq 600 \text{ m}$

APPLICATION

For clean or slightly
turbid liquids,
up to +60°C.

CONSTRUCTION

Pump with submersible
electric motor,
single- and multi-stage

MATERIALS

Grey cast iron
Bronze
Chrome nickel steel

SUBMERSIBLE PUMP
with cooling jacket

TR

PERFORMANCE DATA

$Q \leq 1.200 \text{ m}^3/\text{h}$
 $H \leq 17 \text{ m}$

APPLICATION

For clean and polluted
liquids,
up to +50°C.

CONSTRUCTION

Pump with submersible
electric motor,
mixed flow impeller,
with cooling jacket

MATERIALS

Grey cast iron

**SEWAGE SUBMERSIBLE
MOTOR PUMP**

TC

PERFORMANCE DATA

$Q \leq 125 \text{ m}^3/\text{h}$
 $H \leq 16 \text{ m}$

APPLICATION

For sewage and liquids
containing solids, etc.,
up to +65°C,
flame-proof version
up to +40°C.

CONSTRUCTION

Pump with submersible
cooling jacket motor
double mechanical seal,
oil chamber, torque flow
impeller; flame proof
version available

MATERIALS

Grey cast iron
Stainless chrome cast

**SEWAGE SUBMERSIBLE
MOTOR PUMP**

TGKN

PERFORMANCE DATA

$Q \leq 1150 \text{ m}^3/\text{h}$
 $H \leq 60 \text{ m}$

APPLICATION

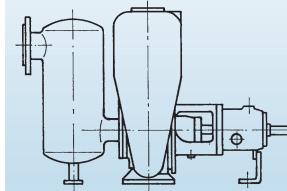
For sewage and liquids
containing solids and
suspension, etc.,
up to +35°C.

CONSTRUCTION

Pump with submersible
motor,
double mechanical seal,
oil chamber,
channel impeller; flame-
proof version available

MATERIALS

Grey cast iron
Stainless steel



**CHANNEL IMPELLER
PUMP**, self-priming

SZK/SZR

PERFORMANCE DATA

$Q \leq 900 \text{ m}^3/\text{h}$
 $H \leq 35 \text{ m}$

APPLICATION

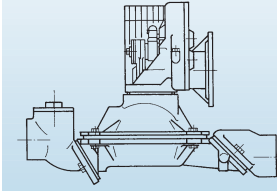
For clean and heavily
polluted, corrosive,
abrasive liquids
containing gas and
solids, for raw sludge,
bentonite
and similar fluids
up to +105°C.

CONSTRUCTION

Volute casing, horizontal,
single stage, double or
single channel impeller,
sludge impeller,
mixed flow impeller

MATERIALS

Grey cast iron
Spheroidal graphite iron
Bronze
Cast steel
Stainless steel



DIAPHRAGM PUMP
self-priming

SM

PERFORMANCE DATA

$Q \leq 25 \text{ m}^3/\text{h}$
 $H \leq 12 \text{ m}$

APPLICATION

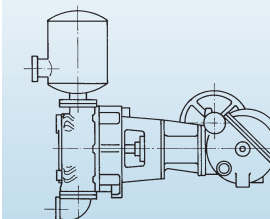
For clean and polluted,
corrosive, abrasive
liquids, containing gas
and solids, for sewage,
as contractor's and
drainage pump,
up to +80°C.

CONSTRUCTION

Reciprocating positive
displacement pump,
glandless with flap valves
single-cylinder.

MATERIALS

Grey cast iron
Aluminium
Bronze
Stainless steel
Inner coating



DIAPHRAGM PUMP
self-priming

SL

PERFORMANCE DATA

$Q \leq 35 \text{ m}^3/\text{h}$
 $H \leq 12 \text{ m}$

APPLICATION

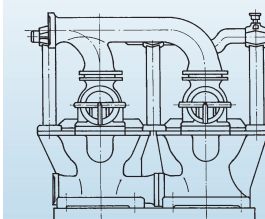
For clean and polluted,
corrosive, abrasive
liquids, containing gas
and solids, for sewage,
as contractor's and
drainage pump,
for sludge or similar
fluids
up to +35°C.

CONSTRUCTION

Reciprocating positive
displacement pump,
glandless with ball valves
single-cylinder.

MATERIALS

Grey cast iron
Rubber lining



DIAPHRAGM PUMP
self-priming

SH

PERFORMANCE DATA

$Q \leq 80 \text{ m}^3/\text{h}$
 $H \leq 12 \text{ m}$

APPLICATION

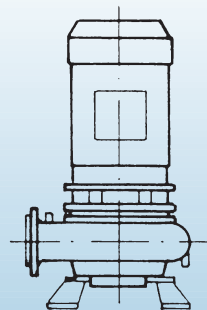
For clean and polluted,
corrosive, abrasive
liquids, containing gas
and solids, for sewage,
as contractor's and
drainage pump,
for sludge or similar
fluids
up to +35°C.

CONSTRUCTION

Reciprocating positive
displacement pump,
glandless with ball valves
one to three cylinders

MATERIALS

Grey cast iron
Rubber lining
Aluminium



TYP CHANNEL IMPELLER PUMP

compact design

KB

PERFORMANCE DATA

 $Q \leq 450 \text{ m}^3/\text{h}$
 $H \leq 30 \text{ m}$

APPLICATION

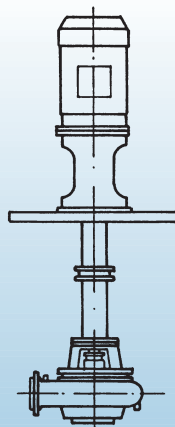
For sewage,
liquids and sludges of
high and low viscosity
containing solids,
up to +140°C.

CONSTRUCTION

Annular casing, horizontal
and vertical, single-stage,
channel impeller,
vortex impeller

MATERIALS

Grey cast iron
Bronze
Stainless steel



TYP CHANNEL IMPELLER PUMP

vertical

KV

PERFORMANCE DATA

 $Q \leq 1.800 \text{ m}^3/\text{h}$
 $H \leq 50 \text{ m}$

APPLICATION

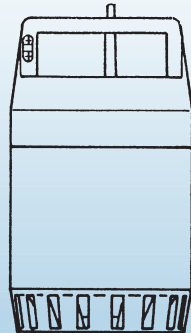
For sewage,
liquids and sludges of
high and low viscosity
containing solids,
up to +80°C.

CONSTRUCTION

Annular casing,
vertical, single-stage,
channel impeller,
vortex impeller

MATERIALS

Grey cast iron

TYP WASTE WATER
SUBMERSIBLE PUMP

TH

PERFORMANCE DATA

 $Q \leq 19 \text{ m}^3/\text{h}$
 $H \leq 11 \text{ m}$

APPLICATION

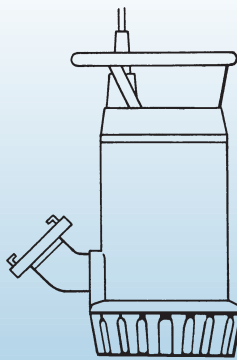
For clean and polluted
liquids,
up to +45°C, for short
periods: up to +80°C.

CONSTRUCTION

Pump with submersible
motor with thermal
overload protection
W = A.C. single phase
D = A.C. three phase

MATERIALS

Plastic and
stainless steel

TYP WASTE WATER
SUBMERSIBLE PUMP

TL

PERFORMANCE DATA

 $Q \leq 50 \text{ m}^3/\text{h}$
 $H \leq 18 \text{ m}$

APPLICATION

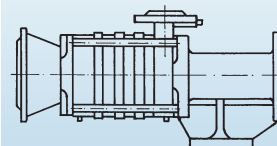
For clean and polluted
liquids, waste water
containing small
suspended solids, river
water, building site water,
heating oil EL, etc.,
up to +60°C.

CONSTRUCTION

Pump with submersible
motor with thermal
overload protection
W = A.C. single phase
D = A.C. three phase

MATERIALS

cast aluminium
impeller GGG



TYP SIDE CHANNEL PUMP

self-priming

SOH/SOHB

PERFORMANCE DATA

 $Q \leq 7,5 \text{ m}^3/\text{h}$
 $H \leq 160 \text{ m}$

APPLICATION

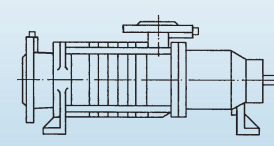
For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids
up to +120°C

CONSTRUCTION

Horizontal,
single- and multi-stage,
compact design available

MATERIALS

Grey cast iron
Stainless steel



TYP SIDE CHANNEL PUMP

self-priming, with
magnetic couplingSEMA-S
SEMA-L

PERFORMANCE DATA

 $Q \leq 20 \text{ m}^3/\text{h}$
 $H \leq 250 \text{ m}$

APPLICATION

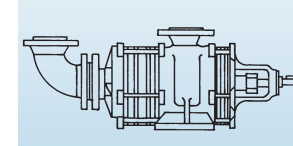
For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids
up to +200°C.

CONSTRUCTION

Horizontal,
single- and multi-stage,
with NPSH inlet stage,
also with cooling/heating
chamber, sealless
magnetic coupling

MATERIALS

Grey cast iron
Spheroidal graphite iron
Stainless steel



TYP CENTRIFUGAL PUMP

self-priming

SE

PERFORMANCE DATA

 $Q \leq 120 \text{ m}^3/\text{h}$
 $H \leq 140 \text{ m}$

APPLICATION

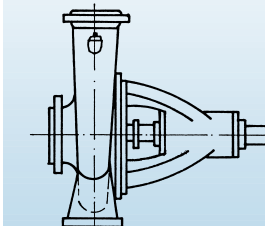
For clean and slightly
turbid liquids,
up to +90°C.

CONSTRUCTION

Horizontal, single- and
multi-stage, with
auxiliary impeller and air
injector for priming

MATERIALS

Grey cast iron
Bronze

TYP VOLUTE CASING
PUMP

according to DIN 24 255

N/SN/ZN

PERFORMANCE DATA

 $Q \leq 4.000 \text{ m}^3/\text{h}$
 $H \leq 98 \text{ m}$

APPLICATION

For clean or slightly
polluted liquids,
up to +140°C.

CONSTRUCTION

Volute casing, horizontal,
single stage, with double-
shrouded impeller

MATERIALS

Grey cast iron
Bronze

100 years of firm history

The already existing business connection between the businessman Theodor Hammelrath and the engineer Gustav Schwenzer led to the founding of the company Hammelrath & Schwenzer OHG on 1 June 1896. The aim of the venture was to produce and distribute pumps of all types for industry, mainly the building and agricultural industries.

Production started in Dusseldorf-Bilk with manual pumps and progressed to powered pumps using electric motors and internal combustion engines. Accessories like tubes, screw connections etc were also produced so that a complete ready to use product could be delivered and installed. Any modifications or improvements could be implemented quickly with everything in house.

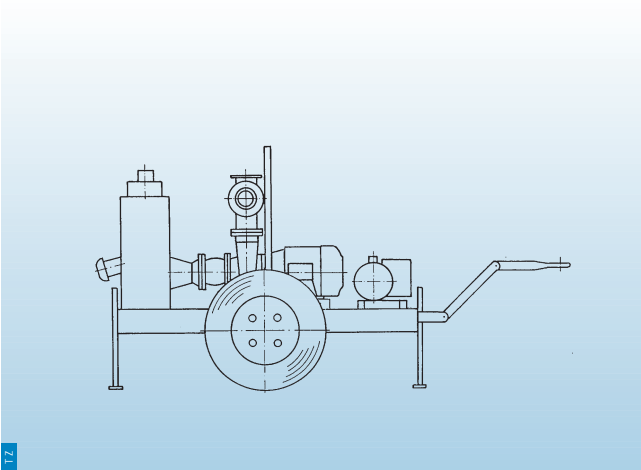
Patents and production of patented designs were secured. Market orientated development continued and distribution of vacuum apparatus for ground water sinking and ground water position as well as sewage support began.

With the installation of the electronic data processing in all areas of the company account was taken of the modern company steering systems.

In 1972 the DIA Pumpenfabrik Hammelrath & Schwenzer GmbH was founded and the company renamed in DIA Pumpenfabrik Hammelrath & Schwenzer GmbH & Co KG.

In 1998 the owners made the decision to close the company down. Trading ceased on 31 January 1999.

On 1 February 1999 the DIA Pumpen GmbH was founded, the owners being former employees (workers takeover). The factory, equipment, data processing, guarantees, repairs and after care were all taken on by the new company.



SEWAGE PUMPING UNIT

AVE electric drive AVS diesel engine

PERFORMANCE DATA

$Q \leq 900 \text{ m}^3/\text{h}$
 $H \leq 50 \text{ m}$

APPLICATION

For polluted liquids, waste water and sludge in case of:

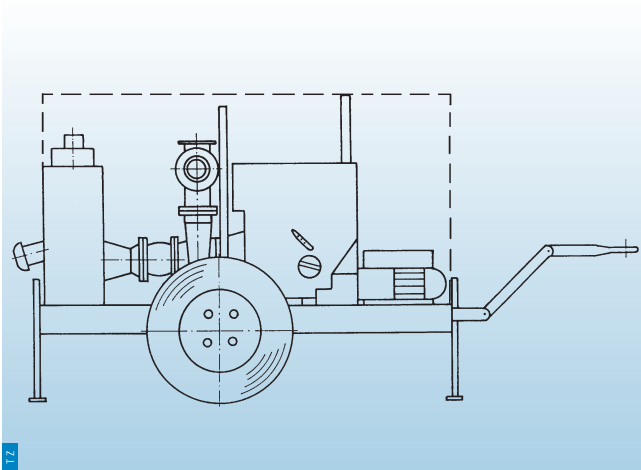
- emergencies
- floods
- flood protection
- sewerage repair
- repair of sewage treatment plants
- pond desludging, etc..

CONSTRUCTION

A channel impeller pump operates continuously in combination with a vacuum pump with suitable control facilities. The unit is dry selfpriming.

Drive: Electric motor or diesel engine
conopy available - 60-70 dB (A)7m.

stationary or mobile operation,
single-axle and tandem trailer for 25 or 80 km/h.



PUMPING UNITS

equipped with pumps and drives to your choice

PERFORMANCE DATA

$Q \leq 3.500 \text{ m}^3/\text{h}$
 $H \leq 44 \text{ m}$

APPLICATION

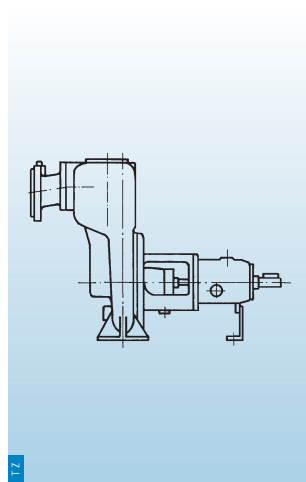
Dependent on pump and pump materials for:

- clean
- polluted
- abrasive
- corrosive liquids
- raw sludge

CONSTRUCTION

Drive: Electric motor or diesel engine
conopy available - 60-70 dB (A)7m.

stationary or mobile operation,
single-axle and tandem trailer for 25 or 80 km/h.



CENTRIFUGAL PUMP

self-priming

SZ/SZC

PERFORMANCE DATA

$Q \leq 450 \text{ m}^3/\text{h}$
 $H \leq 90 \text{ m}$

APPLICATION

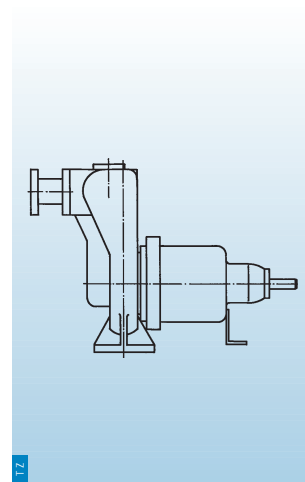
For clean and polluted,
corrosive,
abrasive,
gaseous liquids,
free from long fibres,
up to +105°C

CONSTRUCTION

Volute casing,
horizontal, single-stage,
semi-open impeller

MATERIALS

Grey cast iron
Spheroidal graphite iron
Bronze
Cast steel
Stainless steel



CENTRIFUGAL PUMP

self-priming,
with magnetic drive

SZM/SZCM

PERFORMANCE DATA

$Q \leq 180 \text{ m}^3/\text{h}$
 $H \leq 60 \text{ m}$

APPLICATION

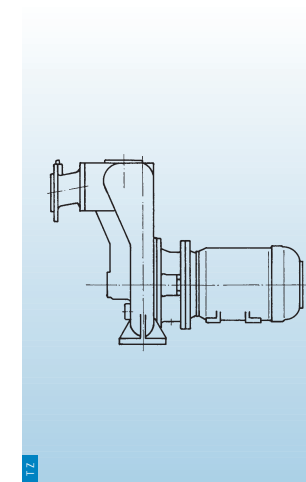
For clean and slightly
polluted,
corrosive,
gaseous liquids,
free from long fibres,
hazardous liquids, etc.,
up to +105°C

CONSTRUCTION

Volute casing,
horizontal, single-stage,
semi-open impeller,
sealless
magnetic drive

MATERIALS

Grey cast iron
Spheroidal graphite iron
Bronze
Cast steel
Stainless steel



CENTRIFUGAL PUMP

self-priming, compact
design with electric-motor

SBE/SBEC

PERFORMANCE DATA

$Q \leq 95 \text{ m}^3/\text{h}$
 $H \leq 30 \text{ m}$

APPLICATION

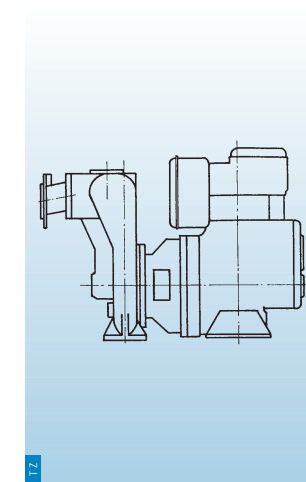
For clean and polluted,
corrosive,
abrasive,
gaseous liquids,
free from long fibres,
up to +105°C

CONSTRUCTION

Volute casing,
horizontal, single-stage,
semi-open impeller,
flanged electric motor

MATERIALS

Grey cast iron
Spheroidal graphite iron
Bronze
Cast steel
Stainless steel



CENTRIFUGAL PUMP

self-priming, compact
design with petrol or
diesel engineSBO/SBOC
SBD/SBDC

PERFORMANCE DATA

$Q \leq 40 \text{ m}^3/\text{h}$
 $H \leq 31 \text{ m}$

APPLICATION

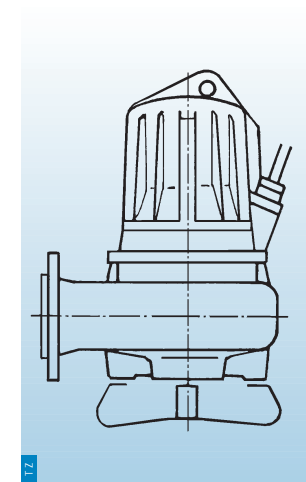
For clean and polluted,
corrosive,
abrasive,
gaseous liquids,
free from long fibres,
up to +105°C

CONSTRUCTION

Volute casing,
horizontal, single-stage,
semi-open impeller,
SBO with petrol engine,
SBD with diesel engine

MATERIALS

Grey cast iron
Spheroidal graphite iron
Bronze
Cast steel
Stainless steel

SEWAGE
SUBMERSIBLE PUMP

TGWN

PERFORMANCE DATA

$Q \leq 260 \text{ m}^3/\text{h}$
 $H \leq 58 \text{ m}$

APPLICATION

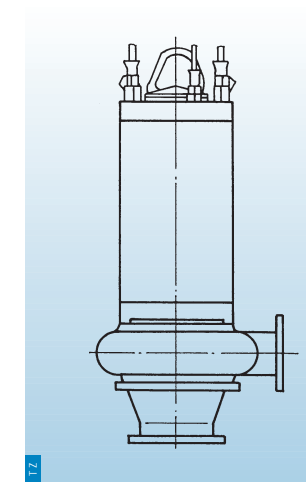
For sewage and liquids
containing solids and
suspension, etc.,
up to +60°C

CONSTRUCTION

Pump with submersible
motor, double mechanical
seal, oil chamber,
vortex impeller,
flame-proof design
available

MATERIALS

Grey cast iron
Stainless steel

SEWAGE
SUBMERSIBLE PUMP

System HUS

HUS-T

PERFORMANCE DATA

$Q \leq 1200 \text{ m}^3/\text{h}$
 $H \leq 60 \text{ m}$

APPLICATION

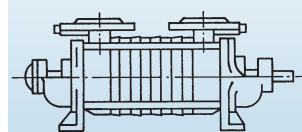
For heavily polluted
liquids and sludges,
liquids with solids in
suspension,
up to +40°C

CONSTRUCTION

Pump with submersible
motor, double mechanical
seal in oil bath,
TM = wet well installation
UM = also for dry well
installation; flame proof
design available

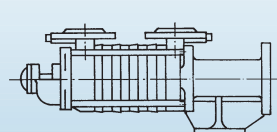
MATERIALS

Grey cast iron
Stainless steel

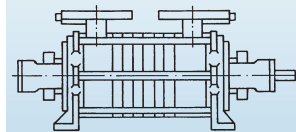
**TYP SIDE CHANNEL PUMP**

self-priming

SON/SRN

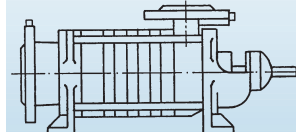
**TYP SIDE CHANNEL PUMP**self-priming,
compact design

SOB/SRB

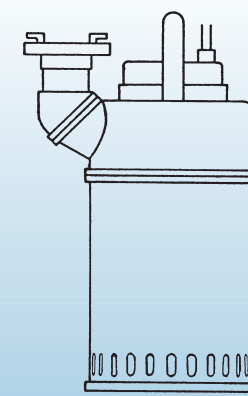
**TYP SIDE CHANNEL PUMP**

self-priming

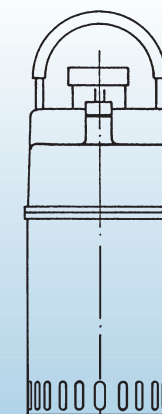
SRZ

**TYP SIDE CHANNEL PUMP**self-priming,
with NPSH inlet stage

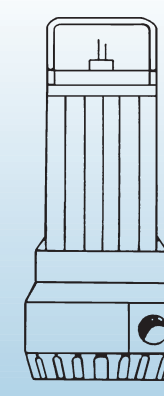
SRZS

PERFORMANCE DATAQ ≤ 36 m³/h
H ≤ 250 m**PERFORMANCE DATA**Q ≤ 7 m³/h
H ≤ 250 m**PERFORMANCE DATA**Q ≤ 35 m³/h
H ≤ 350 m**PERFORMANCE DATA**Q ≤ 35 m³/h
H ≤ 350 m**APPLICATION**For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids,
up to +140°C**APPLICATION**For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids,
up to +140°C.**APPLICATION**For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids,
up to +220°C.**APPLICATION**For clean, slightly turbid,
corrosive,
gaseous liquids,
free from solids,
up to +220°C,**CONSTRUCTION**Horizontal,
single- and multi-stage**CONSTRUCTION**Horizontal,
single- and multi-stage
compact design**CONSTRUCTION**Horizontal, single- and
multi-stage, also with
cooling/heating chamber**CONSTRUCTION**Horizontal, single- and
multi-stage, with NPSH
inlet stage, also with
cooling/heating chamber**MATERIALS**Grey cast iron
Bronze
Stainless steel**MATERIALS**Grey cast iron
Bronze
Stainless steel**MATERIALS**Grey cast iron
Spheroidal graphite iron
Stainless steel**MATERIALS**Grey cast iron
Spheroidal graphite iron
Stainless steel**TYP WASTE WATER
SUBMERSIBLE PUMP**

TSN

PERFORMANCE DATAQ ≤ 228 m³/h
H ≤ 40 m**APPLICATION**For clean or polluted
liquids, waste water
containing, small
suspended solids, river
water, building site water,
up to +60°C**CONSTRUCTION**Pump with submersible
motor, double
mechanical seal,
temperature sensor in
each winding**MATERIALS**Aluminium
Impeller:
high chrome alloy
rubber-lined wear plate,
casing stainless.**TYP WASTE WATER
SUBMERSIBLE PUMP**
well version

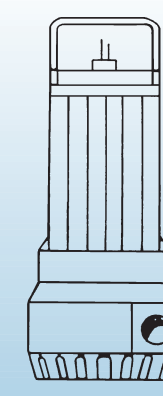
TSC

PERFORMANCE DATAQ ≤ 120 m³/h
H ≤ 40 m**APPLICATION**For clean or polluted
liquids, waste water
containing, small
suspended solids, river
water, building site water,
up to +60°C**CONSTRUCTION**Pump with submersible
motor, double
mechanical seal,
temperature sensor in
each winding**MATERIALS**Aluminium
Impeller:
high chrome alloy
rubber-lined wear plate,
casing stainless.**TYP INDUSTRIAL
SUBMERSIBLE PUMP**

TBG/TBG-EX

PERFORMANCE DATAQ ≤ 22 m³/h
H ≤ 12 m**APPLICATION**For clean or polluted
liquids,
up to +95°C**CONSTRUCTION**Pump with submersible
motor,
double mechanical seal
with oil chamber,
Ex = E Ex dIIB T4**MATERIALS**

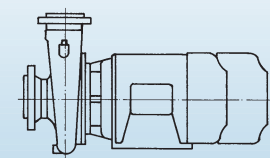
Grey cast iron

**TYP CHEMICAL
SUBMERSIBLE PUMP**

TBS/TBS-EX

PERFORMANCE DATAQ ≤ 26 m³/h
H ≤ 16 m**APPLICATION**For corrosive or slightly
polluted liquids,
up to +95°C,
TBS-EX up to +40°C**CONSTRUCTION**Pump with submersible
motor,
double mechanical seal
with oil chamber,
Ex = E Ex dIIB T4**MATERIALS**

Stainless steel

**VOLUTE CASING PUMP**

compact design

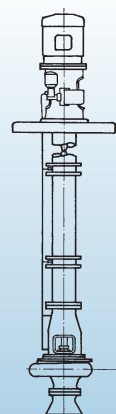
NB/NBN/SNB/ZNB

PERFORMANCE DATA
 $Q \leq 520 \text{ m}^3/\text{h}$
 $H \leq 100 \text{ m}$
APPLICATION

For clean or slightly polluted liquids, up to +140°C

CONSTRUCTION

Volute casing, horizontal, single-stage, with double-shrouded impeller

MATERIALSGrey cast iron
Bronze**VOLUTE CASING PUMP**

vertical

NV

PERFORMANCE DATA
 $Q \leq 4.000 \text{ m}^3/\text{h}$
 $H \leq 95 \text{ m}$
APPLICATION

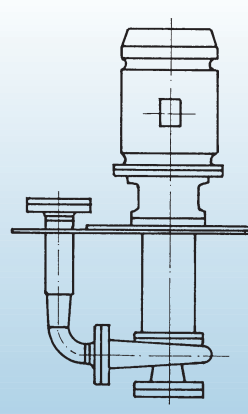
For clean or slightly polluted liquids, up to +80°C

CONSTRUCTION

Volute casing, vertical, single-stage, with double-shrouded or vortex impeller, installation depth down to 8 m

MATERIALS

Grey cast iron

**VOLUTE CASING PUMP**

tank top mounted

NVK

PERFORMANCE DATA
 $Q \leq 600 \text{ m}^3/\text{h}$
 $H \leq 110 \text{ m}$
APPLICATION

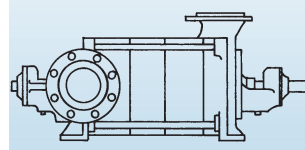
For clean or slightly polluted liquids, up to +100°C

CONSTRUCTION

Volute casing, horizontal, single-stage, with double-shrouded or vortex impeller, installation depth down to 0,7 m without lower shaft seal

MATERIALS

Grey cast iron

**HIGH-PRESSURE CENTRIFUGAL PUMP**

sectional construction

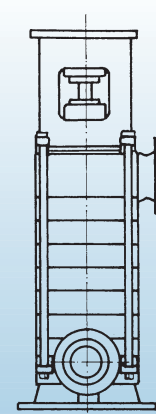
HKM/HCL

PERFORMANCE DATA
 $Q \leq 800 \text{ m}^3/\text{h}$
 $H \leq 400 \text{ m}$
APPLICATION

For clean or slightly polluted liquids, up to +140°C

CONSTRUCTION

Horizontal, single- and multi-stage, with double-shrouded impellers

MATERIALSGrey cast iron
Cast iron
Bronze**HIGH-PRESSURE CENTRIFUGAL PUMP**sectional construction
vertical

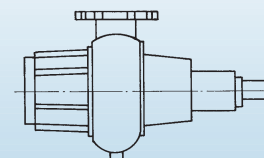
HKM

PERFORMANCE DATA
 $Q \leq 100 \text{ m}^3/\text{h}$
 $H \leq 400 \text{ m}$
APPLICATION

For clean or slightly polluted liquids, up to +140°C.

CONSTRUCTION

Vertikal frame mounted pump, single- and multi-stage, with double-shrouded impellers

MATERIALSGrey cast iron
Cast iron
Bronze**SCREW CHANNEL IMPELLER PUMP**

system HUS

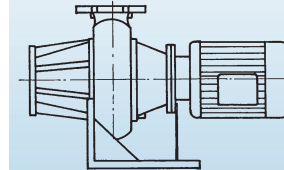
HUS-L

PERFORMANCE DATA
 $Q \leq 1300 \text{ m}^3/\text{h}$
 $H \leq 60 \text{ m}$
APPLICATION

For heavily polluted liquids, sludges, paper stock and foodstuff with a high percentage of solids, gentle handling of the medium, up to +80°C.

CONSTRUCTION

Annular casing, horizontal single-stage, with screw-channel impeller

MATERIALSGrey cast iron
Spheroidal graphite iron
Bronze
Stainless steel**SCREW CHANNEL IMPELLER PUMP**system HUS,
compact design

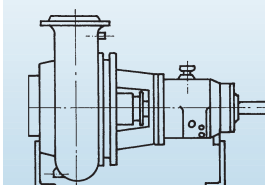
HUS-B

PERFORMANCE DATA
 $Q \leq 1300 \text{ m}^3/\text{h}$
 $H \leq 60 \text{ m}$
APPLICATION

For heavily polluted liquids, sludges, paper stock and foodstuff with a high percentage of solids, gentle handling of the medium, up to +80°C.

CONSTRUCTION

Annular casing, horizontal single-stage, with screw-channel impeller

MATERIALSGrey cast iron
Spheroidal graphite iron
Bronze
Stainless steel**CHANNEL IMPELLER PUMP HORIZONTAL**

K

PERFORMANCE DATA
 $Q \leq 2000 \text{ m}^3/\text{h}$
 $H \leq 80 \text{ m}$
APPLICATION

For sewage, liquids and sludges of high and low viscosity containing solids, up to +140°C.

CONSTRUCTION

Annular casing, horizontal single-stage, single or double channel impeller, vortex impeller

MATERIALSGrey cast iron
Bronze
Stainless steel