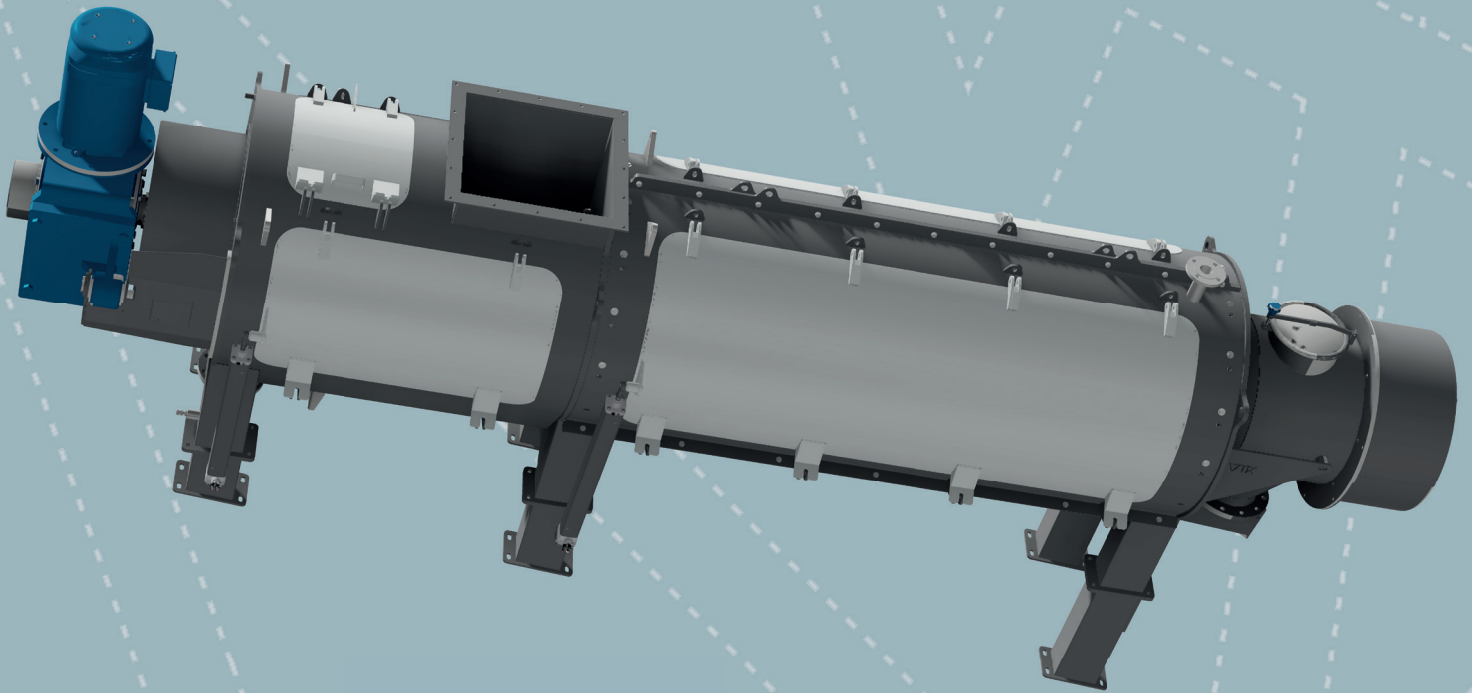




**VAN TONGEREN-
KENNEMER BV**



DEWATERING PRESS

VTK SCREW CONVEYORS

WORKING OF THE DEWATERING PRESS:

The dewatering press is extremely suitable for dewatering wet glutes.

The product is fed into the screw auger and conveyed to the outlet. A conical screw conveyor increases the pressure in the product during transportation, where the outer hull consist of a fine screen. Free water is pressed through the fine screen and the dewatered product is discharged into a hopper.

SCREW PRESS DESCRIPTION:

The screw press is equipped with cylindrical fine screen plates (which can easily be exchanged), mounted in three casings. Each casing consists of 2 half scales which are bolted together. The screw auger starts cylindrical at the inlet side to become conical at the outlet side. Combined with a changing pitch of the screw blades, this causes an increasing pressure on the product. Free water is pressed out of the wet product through the fine screen plate of the casing.

The bottom of the screw press is equipped with a trough to collect the filtrate water. Because of the inclined arrangement of the press the water is concentrated at one central point where a drain connection is positioned with a flange connection. Because there is only one central drain the cost of piping and drilling holes through concrete floors is minimized.

The drive consists of a shaft mounted motor gear reducer with a reaction arm. The drive shaft has a mechanical seal to prevent leakage to the drive unit and bearings. The non-drive end has a double lip seal.

SCREW PRESS SPECIFICATION

Frame work

Inspection doors	:	over the full length of the pressure zone on both sides doors are provided.
Inspection hatch	:	one inspection hatch at the outlet (with O-ring seal)
Material of construction	:	AISI 304

(Note: bearing housing on the drive side is made of stainless steel.)

Earthing	:	one central earthing connection on the screw press (suitable for use of a 95 mm ² VD earthing cable)
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Surface treatment

Stainless steel	:	pickled and passivated
Inlet, outlet and screw auger	:	polished Ra 0,8 um

Seals and Bearings

Shaft seals	:	heavy duty double seal
Bearings	:	bearings are mounted at a distance from the seals to prevent contamination of the bearing in case of seal failure
Bearing	:	SKF or INA

(Note: drive shaft equipped with a wear sleeve.)

Drive

Gear reduce	:	SEW (Other brands available upon request)
Oil volume	:	approximately 80 litre (gear box with drain valve and plug)
Lubricant	:	oil and greases used will be food grade

Motor

Installed power	:	15 kW, 400 V, suitable for frequency drive, IP56
Motor flange	:	standard Nord with flexible motor coupling between motor and reductor.
Motor turn down ration	:	4

Parts with a mass over 50 kg will be equipped with lifting lugs or other provisions for easy lifting.

OPTIONS

- Inlet Hopper
- High Power CIP pump with valve blocks
- Buffer feed tank
- Filtrate tank



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