

A brand of
Aqseptence Group

Noggerath® Spiral Conveyor SC / SCT

Blockage-free transport of dry, moist, wet, pasty, sticky, powdered, coarse or abrasive materials.



The Noggerath® Spiral Conveyor SC / SCT has been employed, with great success, as a transport device in municipal wastewater treatment plants and in a wide range of industrial applications for many years. Aqseptence Group has over 25 years of experience in the production, design and operation of spirals and spiral conveying systems, for both horizontal and vertical conveyance.

Heart of the Noggerath® Spiral Conveyor is the shaftless spiral which rotates in a conveyor

trough and is guided by its geometry. The material is usually fed through a hopper into the trough, where it is taken up by the spiral and transported along the trough. The material can optionally be discharged out of the trough either vertically downwards or axially.

Due to the shaftless spiral without any intermediate bearings, the units can be supplied up to 30 meters length and convey several types of waste without any blockage.

Benefits

- Fast and easy installation
- Low operating costs due to light energy consumption
- High operational reliability
- Pushing design no risk of blockage also for materials with a tendency to pigtail
- Fast and simple maintenance: bearing of spiral at drive end, only
- Long service life for spirals and wear lining due to shaftless spiral with its weight evenly distributed over the entire length

Product variants

- Horizontal, inclined or vertical installation as well as combination
- Reversible conveying design
- Pivoting conveying design
- Twin design for sludge cake and high volume
- Embedded into the ground
- For silo emptying

Design sizes & performances

	Spiral Type	Inclination (°)	Capacity (m³/h)
Screenings or Granular Solids Chart	standard	0 – 15	1.0 – 17.0
	reinforced	15 – 30	0.6 – 8.0
Sludge or Slurry Chart	standard	0 – 15	3.0 – 45.0
	reinforced	15 – 30	1.7 – 26.0

Type SCT – Vertical Spiral conveyors: Capacities are analogous to the 15° – 30° inclination range.

Materials

Conveyor trough, cover, hopper, supports	stainless steel AISI 304 or 316 Others on request
Spirals	special Micro Alloy Steel St52 (in acc. with AS Group standard), alternatively stainless steel AISI 304 or AISI 316
Wear liners	PE-UHMW, alternatively stainless steel or HARDOX

Options

- Support construction
- Infeed hopper
- Gate valve for vertical discharge, operated manually / electric / pneumatic
- Swivelable discharge chute
- Direct injection from conveyor into conveyor
- (without height loss)
- Several infeeds and / or discharges
- Bi-directional conveying (reversal of conveying direction)
- Heating / insulation

Fields of operation

- Wastewater technology
- Waste disposal companies
- Chemical industry
- Paper and wood industry
- Metal processing
- Fruit and vegetable industry
- Sugar refineries
- Food and beverage industry
- Abattoirs and fish industry



Details of conveyor trough with pneumatically operated valve



Spiral guided by PE-UHMW wear Lining



Sludge conveyor system

Aqseptence Group GmbH Water Treatment Systems

Ziegeleiweg 2
31675 Bueckeburg · Germany
Phone +49 5722 882 0
Fax +49 5722 882 282
noggerath@aqseptence.com

www.aqseptence.com



Version 1.1

The technical data stated in this brochure are indicative only and have to be determined for each individual case.
Reserve technical changes.