



Sismat Uluslararası
Arıtma Makinaları
İnşaat Mühendislik
Sanayi ve Tic. A.Ş.



**SCREW CONVEYORS
WITH COMPACTOR**



SCREW CONVEYORS WITH COMPACTOR

Screw conveyors with compactor are the equipment which consist of a screw conveyor and a compaction zone at the end, and offer a simple and low-cost solution for conveying, dewatering and compaction of the screenings, sludge or other process materials. Reliable design of this equipment allows it to be used in many fields such as municipal and industrial wastewater treatment plants.

They have a compaction unit at the end of the screw conveyor differently from Sismat Uluslararası Screw Conveyors. These equipment are the cost-effective solutions for both transporting and compacting of screening materials or sludge. They provide a combined operation in one unit and reduce the investment cost and operation cost.

Main working logic of this type of equipment is based on that the materials conveyed are dewatered and pressed at the final part of the screw, and then discharged from the system. In this way, the volume of materials is greatly reduced and materials can be easily transported. Final part of the screw, used as compaction zone, is surrounded by a sieve which can be manufactured from wedge-wire or perforated plates.

Sismat Uluslararası Screw Conveyors with Compactor are mainly made up of inlet hopper, screw, trough, compaction unit, support legs and drive unit.

FEATURES AND BENEFITS OF SISMAT ULUSLARARASI SCREW CONVEYORS WITH COMPACTOR

- Robust and reliable structure
- Limited clogging risk
- No odour and noise problem due to the fully enclosed design
- Easy operation and maintenance
- Low investment, operation and maintenance cost
- Low energy consumption

APPLICATIONS

- Municipal wastewater treatment plants
- Industrial wastewater treatment plants
 - Food industry,
 - Rock wool industry,
 - Paper mills,
 - Slaughterhouses,
 - Tanneries,
 - Refineries, etc.
- Plastic recycling plants

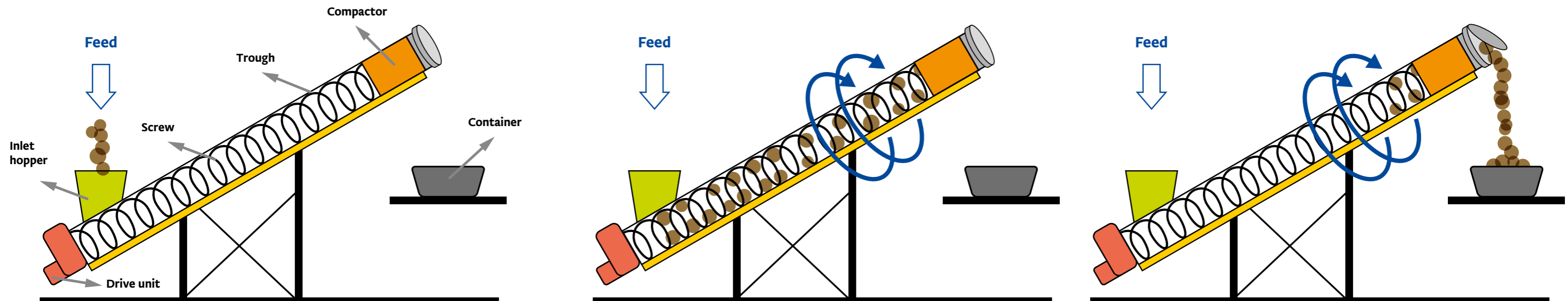
WORKING PRINCIPLE

Sismat Uluslararası Screw Conveyors with Compactor are mostly preferred equipment to transport and compact the materials produced at the end of some processes in the treatment plants. In a screw conveyor with compactor, materials to be conveyed and compacted are firstly introduced into a hopper, and then meet the screw placed into a trough. They are conveyed and delivered to the end point of the conveyor. This part is covered by a sieve which allows the excess amount of water to be drained while compaction process. The compaction zone is the final part where resistance is increased, and provides an efficient dewatering and compaction. The materials conveyed are compacted at this part of the equipment, and discharged from the system.

OUR SCREW CONVEYOR WITH COMPACTOR SPECIFICATIONS

Specifications	
Screw diameter	180 mm - 460 mm
Conveying distance	up to 4,000 mm
Angle of inclination	0°- 18°

*For special dimensions, please consult Sismat Uluslararası Sales Engineers.



1

Solid materials enter the hopper and fall into the screw trough.

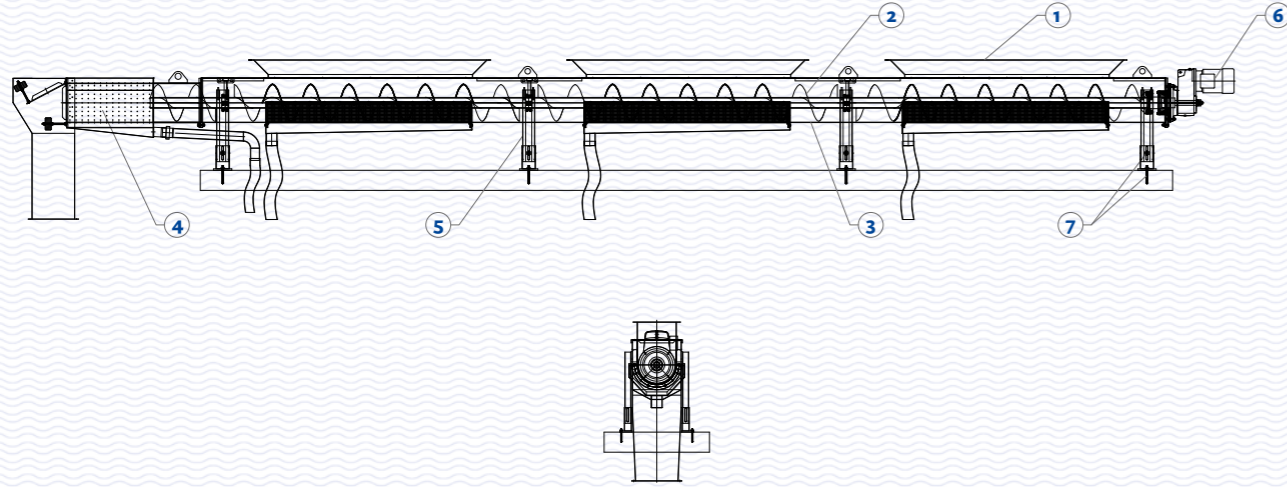
2

The screw starts to operate and move the solids up.

3

The solids are pressed by the compaction unit located at the end of the screw conveyor. Then they are removed from the system.

Typical Screw Conveyor With Compactor & Components



Typical drawings are for information only.



OUR SCREW CONVEYOR WITH COMPACTOR COMPONENTS

	Screw Conveyors with Compactor Components	Materials Available
1	Inlet hopper	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
2	Screw	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
3	Trough	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
4	Compaction unit	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L
5	Support legs	Carbon steel or stainless steel grade, AISI304, AISI304L, AISI316, AISI316L, AISI316Ti, DUPLEX or SUPER DUPLEX
6	Drive Unit	-according to norm of manufacturer
7	Fasteners	A2, A4 , DUPLEX or SUPER DUPLEX



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www.sisnat.com.tr

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