

TUBULAR SPIRAL SCREW CONVEYORS STU

Tubular Shafted Screw Conveyors

MACHINE DESCRIPTION

R.E.M. range of screw conveyors is a broad and wide selection where units for every application can be found. **R.E.M.** screw conveyors are multipurpose transport systems. The range includes:

- **Tubular Shafted Screw Conveyors model STU.**

The models are all based on the same technology; screw conveyors are made of the following sections:

- **Shafted screw.**
- **Conveying tube- Inlet.**
- **Discharge.**
- **Drive.**
- **Supports.**



R.E.M. offers this type of machine, that can treat the following materials:

- **lime.**
- **polymer.**
- **granular material.**
- **powders.**

R.E.M. STU conveyor is a system analog to the **STC**; this conveyor differs from standard for its tubular design installation which allows an installation in a tight space.

The footprint is very small as it has a tubular body which contains the screw. The tubular construction ensures that no leaks, odours or dust may escape. The screw contained in the conveyor has the characteristic of not equipped with an internal shaft. This allows the machine to be able to process granular or bulky materials in order to convey it but also to dose it. The shafted construction does not require any liner. The machine is completely closed; this, clearly, makes it possible to operate without any dust or liquid escape that can be released by the treated material.

WORKING LOGIC FOR SHAFED SCREW CONVEYOR STU

The screw conveyors are equipped with an inlet zone that, depending on the flow rate requirements of the incoming material, can have three different sizes, i.e.:

1. **SQUARE INLET.**
2. **RECTANGULAR INLET.**
3. **INCLINED INLET.**

The material is conveyed from the inlet zone to the outlet. The screw conveyors are perfectly adaptable machines, in length, to the transport requirements of the material.

MAIN FEATURES FOR SHAFED SCREW CONVEYORS STU

The shafted screw conveyors, mod. **STU**, are offered in different variants that do not need intermediate bearings. **STU** screws have the following characteristics:

1. **Standard execution in st. st. AISI 304/AISI 316 or painted mild steel.**
2. **Inlets and outlets having square, rectangular or inclined shape.**

3. Tube made of st. st. AISI 304/AISI 316.
4. Spiral made of mild steel, st. st. AISI 304/316 (optional).
5. Constant or variable pitch.
6. No mechanical parts in direct contact to conveyed product.
7. Entirely sealed unit for leakage and odour-free environments.
8. Possibility to use the conveyor as doser.
9. Possibility to install up to 45° inclination.

GENERAL DIMENSION DATA FOR SHAFTED SCREW CONVEYORS STU

Data in the chart is to be considered approximate; since the machine is able to process materials of different types and therefore of different organic compositions, take these values as illustrative references that must be clarified and requested from our Engineering - Sales department.

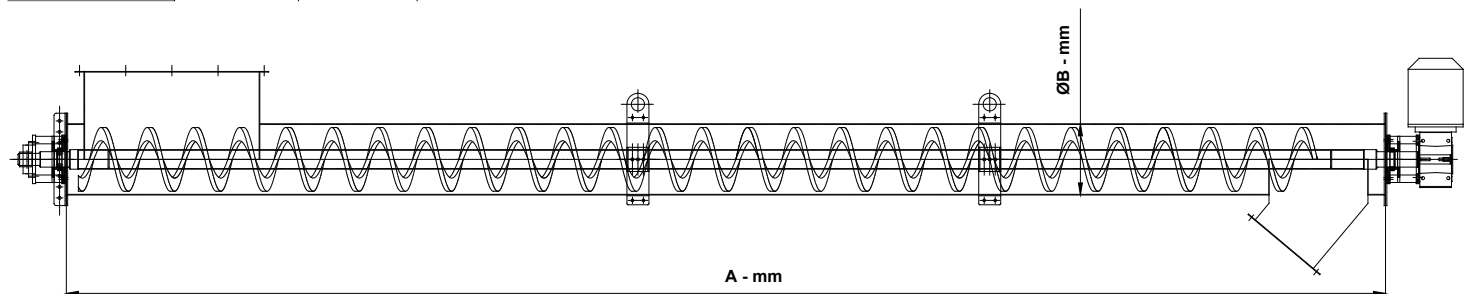
STU MODELS	A - mm	ØB - mm	Flow rates m ³ /h
STU168	6000 (std.)	168	3
STU219	6000 (std.)	219	7
STU323	6000 (std.)	323	20

Materials of construction for fabricated parts:

*Stainless Steel AISI304 / *Stainless Steel AISI316 / * Painted mild steel

Materials of construction of spiral:

*Stainless Steel AISI304 / *Stainless Steel AISI316 / *High resistance steel HRS



n.b.: the manufacturer may modify some dimensions or sizes without prior information