

# Screw conveyor



**AQUA AURA**  
Leading Technologies

**TSA**

**SHAFTLESS SCREW CONVEYOR**



# TSA – SHAFTLESS SCREW CONVEYOR

Built by a shaft less screw that rotates to the inside of a trough (tubular or U-section) with one or more loading hoppers and one or more exhaust mouths. The rest of the machine is closed by covers. The absence of the inner shaft allows the transport of sticky materials, usually difficult to transport by the screw with shaft. The bottom of the trough is being protected by a wearresistant coating in HDPE or steel depending on the material to be conveyed.

The configuration of the conveyor can be "pull execution" or "push execution" depending on the general arrangement of the facility. The overall length can be easily adapted to the layout. The slope varies between 0° to 30° with a progressive reduction in efficiency: as a general rule, the flow at 30° is reduced by 50% compared to that at 0°, however the actual range depends on the material transported.

## ADVANTAGES

- Absence of blockages even in the case of brous materials
- Low and simple maintenance
- Completely closed transport section and odor-free
- Reduced speed of rotation and absence of intermediate supports
- Possibility of carrying different types of materials



# TSA – SHAFTLESS SCREW CONVEYOR

## Technical details

Model mm	A mm	B mm	D mm	ØE mm	L MAX	INCL. °
TSA 150	275	175	248	145	12000	0°-30°
TSA 200	325	225	290	180	18000	0°-30°
TSA 250	375	275	340	240	18000	0°-30°
TSA 300	450	325	410	280	25000	0°-30°
TSA 350	500	375	480	320	25000	0°-30°
TSA 400	550	425	570	360	30000	0°-30°
TSA 500	665	525	665	460	30000	0°-30°
TSA 600	765	625	780	560	36000	0°-30°

### MAIN OPTIONS

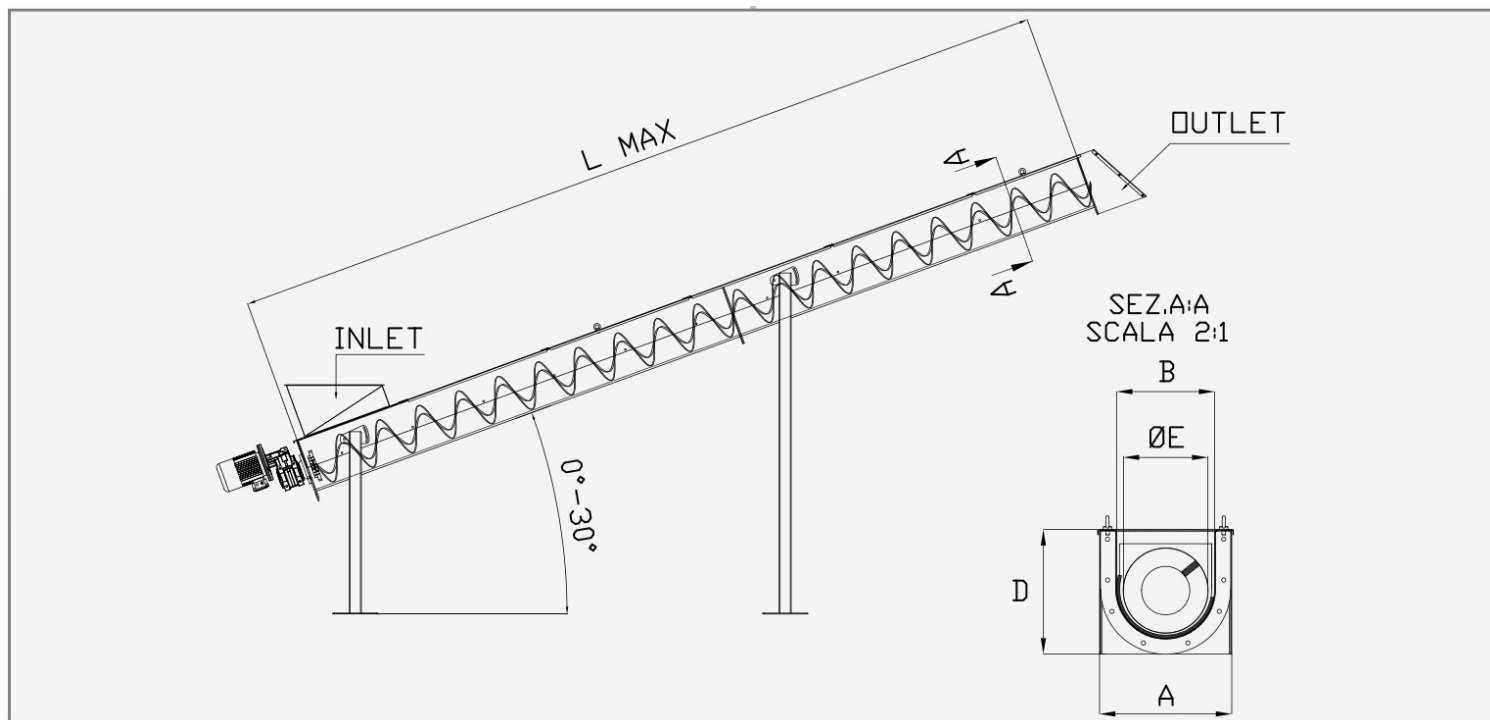
<b>A</b>	Customized inline hopper / hoppers
<b>B</b>	Square/rectangular/circular outlet spout
<b>C</b>	Adjustable high feet
<b>D</b>	Multiple outlet spouts
<b>E</b>	Slide valves
<b>F</b>	Slewing support
<b>G</b>	Manual valve for liquids' discharge
	Futhers customization on demand

### THEORETICAL FLOW RATE m3/h

α	rpm = 18 GRIGLIATI/Screenings		rpm = 30 FANGHI/Sludges	
	0°-15°	16°-30°	0°-16°	16°-30°
Ø150	0,5	0,3	1,5	1
Ø200	1	0,7	3,2	1,6
Ø250	2,5	1,5	7	4,1
Ø300	3,7	1,9	11	6,5
Ø350	5,2	2,6	15	9
Ø400	8	4	20	13
Ø500	16	8	40	26
Ø600	23	15	65	42

# TSA - SHAFTLESS SCREW CONVEYOR

## Technical details



# TSA – SHAFTLESS SCREW CONVEYOR



**AQUA AURA**  
Leading Technologies

Aqua Aura Limited  
[info@aquaaura.net](mailto:info@aquaaura.net)  
[www.aquaaura.net](http://www.aquaaura.net)

