

SCREW CONVEYOR TYPE SAU

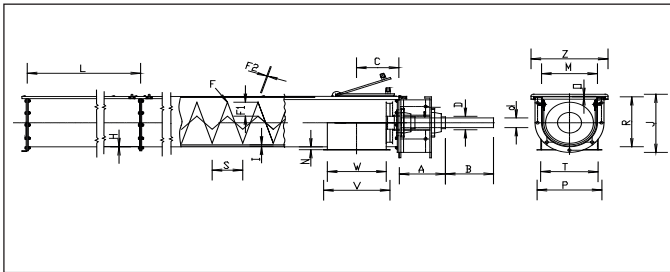
Design

The trough conveyor type SAU is designed for horizontal or slightly inclined transportation of sludge or for incorporation in a sand-settling tank. The screw conveyor is manufactured in mild or stainless steel or a combination of both according to customer requirements. The screw conveyor is built from 2 m. trough and cover modules and with a full length special screw.

The trough can be equipped with different types of lining and our attachment design makes it easy to change this wear part. As standard the wearing ring PE-HD is used.

The screw conveyor has been constructed with a trough and cover in 2. sections and with a shaft free inner screw in full length.

Max. total length for all types is 12 m. Plate parts such as trough, cover and end plates can be delivered in steel 37.2 or AISI 304. The flight is always steel 52.2.



The SAU conveyor is as standard with flange outlet but can be delivered with Q outlet



Conveyor type SAU DIMENSIONS (Guiding)

Dimensions	SAU200	SAU300	SAU400
A	241	241	265
B Length of shaft			
C	200	250	300
D Shaft/bearing	Ø60	Ø60	Ø80
d Shaft/gear			
F Outside d. flight	Ø185-190	Ø280-285	Ø360
F1 Height of flight	45-60	60-70	70-80
F2 Flight thickness	15-20	15-20	20-25
H Trough thickness	3	3	4
I Lining (PE-HD)	6 mm	6 mm	8 mm
J Height	281	382	499
L Trough section L.	2000 (max.)	2000 (max.)	2000 (max.)
M Trough inside	216	320	420
N	13	13	14
O Cover	2	2	2
P Outlet flange	278	382	496
R Height of trough	231	338	440
S Pitch	185-190	280-285	360
T Outlet	228	332	436
V Outlet flange	350	450	560
W Outlet	300	400	500
Z Total width	320	424	558

Conveyor type SAU - CAPACITY

Capacity		
Type	Max. rpm.	m ³ /h with 30% filling and max. rpm. at horizontal transport
SAU200	30	2
SAU300	30	6
SAU400	30	12

Effect at horizontal transport	
kW =	$(0.75 \text{ kW} + 0.1 \text{ kW pr. m. conv.}) \times \text{actual rpm. } 30$
kW =	$(1.0 \text{ kW} + 0.1 \text{ kW pr. m. conv.}) \times \text{actual rpm. } 30$
kW =	$(1.50 \text{ kW} + 0.1 \text{ kW pr. m. conv.}) \times \text{actual rpm. } 30$

Effect add. for oblique conveyor

$$\text{kW} = \frac{t/h \times \text{lifting height}}{300}$$