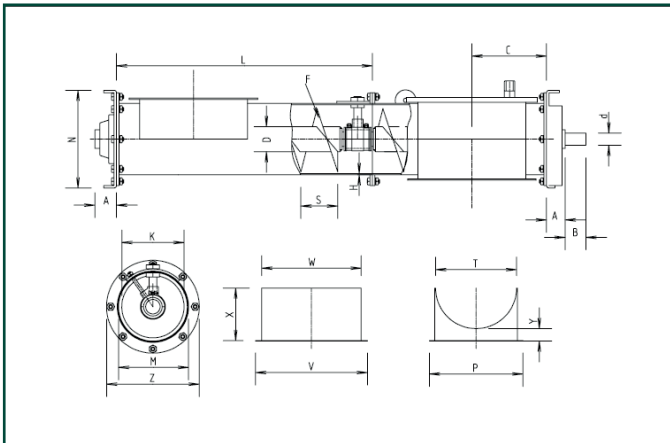


# SCREW CONVEYOR TYPE SO

## Design

The tubular conveyor type SO is designed for efficient and reliable handling of powders and granular bulk materials in industrial plants. It is dust-proof modular steel construction with tube sections of 2 m. and inner conveyors of 4-6 m./sections.

Supported by hang-bearings every 4 m. for horizontal transport and every 6 m. for vertical transport. The design of the support bearings all wearing parts to be changed easily. The standard support bearing material is beech wood, alternatively plastic, bronze or ball bearings.



## Conveyor type SO - DIMENSIONS

Dimensions	SO150	SO200	SO250	SO300	SO350	SO400	SO450	SO500
A	53	53	53	78	80	90	90	90
B	55	55	55	72	68	108	120	120
C	200	200	250	250	250	275	325	350
D	63,5x5	88,9x4,9	88,9x4,9	88,9x4,9	88,9x4,9	114,3x5,4	114,3x5,4	114,3x5,4
d	35	35	35	60	60	80	80	80
F*	150x4/2	200x4/2	250x4/2	300x4/2	350x4/2			
F^A						400x5	450x5	500x5
H	3	3	3	3	3	4	4	4
K	150	200	250	300	350	400	450	500
L	2000	2000	2000	2000	2000	2000	2000	2000
M	166	216	266	320	370	420	470	520
N	240	290	340	394	474	526	576	628
P	228	278	328	382	442	496	546	600
S	130	175	225	260	305	315	335	390
T	178	228	278	332	382	436	486	540
V	350	350	450	450	510	560	610	660
W	300	300	400	400	450	500	550	600
X	99	124	149	176	201	228	253	280
Y	13	13	13	13	13	14	14	15
Z	224	274	324	378	458	510	560	612
Basic add.	30	40	50	75	95	135	155	175
Kg/m	30	40	45	50	60	85	95	110

4530\*Endless flights ^Round plates All measures in mm. Weight excl. geared motor and coupling.

## Conveyor type SO - CAPACITY

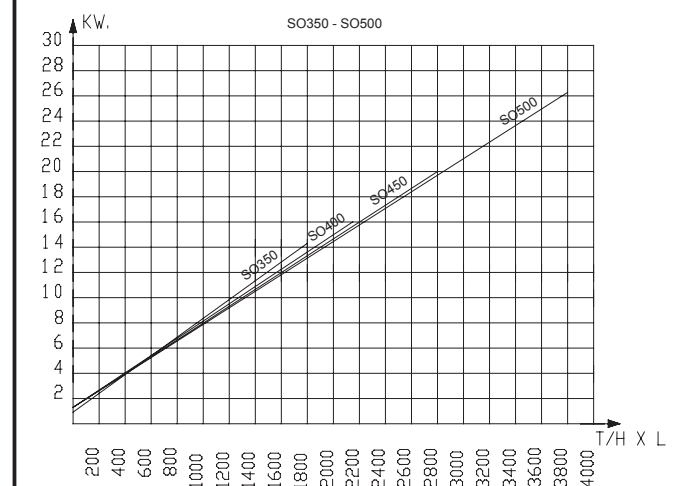
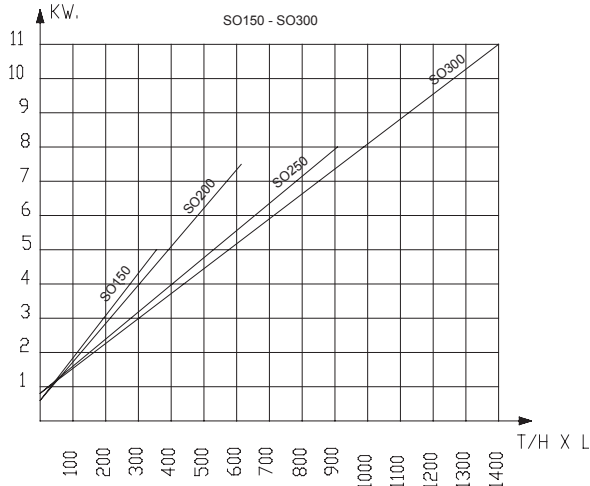
Capacity						
Material	Grain		Flour		Coarser products	
Type	Max rpm.	m <sup>3</sup> / h with 50% filling and max rpm.	Max rpm	m <sup>3</sup> / h with 40% filling and max rpm.	Max rpm	m <sup>3</sup> / h with 30% filling and max rpm.
SO 200	240	32	120	13	95	7,3
SO 300	160	80	80	32	65	19,5
SO 400	140	153	70	62	55	36,0
SO 500	115	250	60	104	45	59,0

Capacity descent by slide put conveyor							
Slope angle in degrees	0	15	30	45	60	75	90
App. capacity in % as regards to horizontal	100	80	70	60	50	40	30

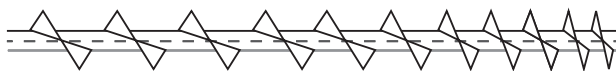
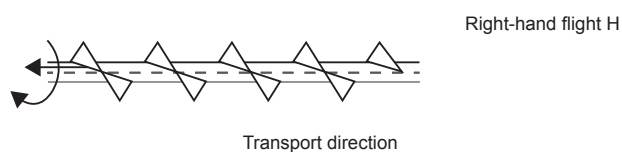
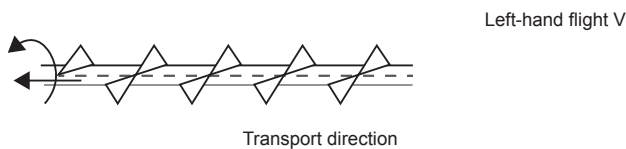
Note for max filling:  
On conveyors without bearings, one can obtain a filling of app. 80% on certain products

# SCREW CONVEYOR SO

Recommended effect diagrams for horizontal conveyor in standard version.



Flights can be delivered as right-hand or left-hand. As standard, the conveyors are delivered as right-hand.



**Note:**

The diagrams are valid for light powder products etc., effect factor 2,3. At strongly wearing material such as sand, salt etc. effect factor 3-6 is used. The diagrams are not valid for special conveyors and extraction conveyors under silos.  
T/H=Tonne/hour - L=Length in meter

- Examples of effect factor:
- Effect factor 3,0 – Sawdust
  - Effect factor 3,5 – Coconut deposits
  - Effect factor 4,0 – Bone meal, cement, gypsum, earth, clay.
  - Effect factor 5,0 – Fertiliser
  - Effect factor 6,0 – Ashes, cinder, sand, salt

Effect addition for oblique conveyor  
 $KW = \frac{\text{tons/time} \times \text{lifting height} \times 1,15}{329}$