



Technical Information

Product name ACAT – SCREW PRESS (AS)



Fully Automatic Dewatering

The sludge conditioned with polymer is continuously supplied to the screw press. Perfect conditions for dewatering can be achieved with the effective control of flocculation.

Steady Operation

The optimal geometric alignment of the screw with the properly flocculated sewage sludge leads to dewatering results comparable to a centrifuge system. The system, with a slowly running screw (speed of 0.1 – 1.4 rpm) in combination with a microstrainer, guarantees low maintenance costs. The dewatered sludge is discharged continuously at the outlet of the screw.

Easy Cleaning

The fully automatic cleaning of the outer mesh surface is achieved with a mobile washing device. Low water consumption is a major advantage of the screw press.

Easy Operation

Due to the low output speed and the resulting high torque, the screw press is able to stop at any time and is ready to restart without the need of cleaning or flushing. The adjustable speed of the screw press from 15 to 100 Hz makes it possible to operate the dewatering machine at very low speed. Therefore highest dewatering results can be achieved.

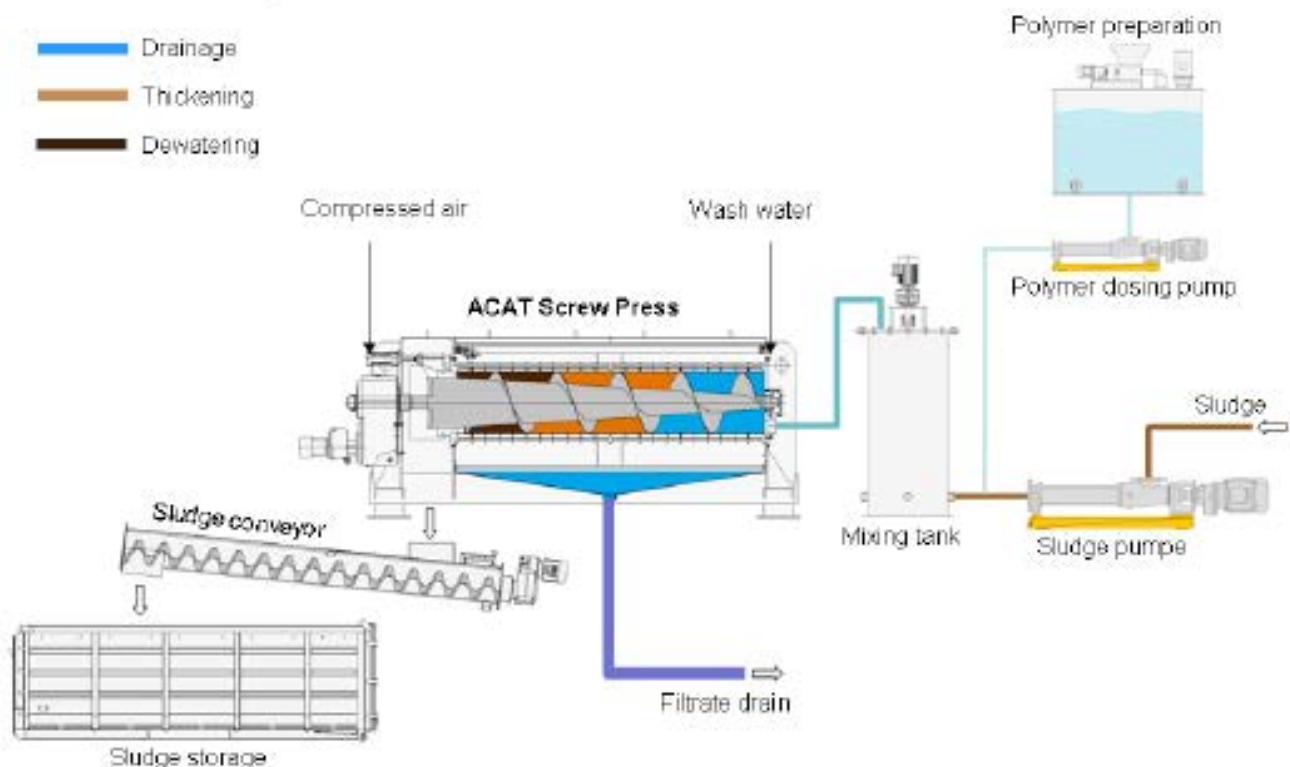
Easy Maintenance

The only existing wearing part at the screw press is the seal between the microstrainer and the screw. Because of the flanged microstrainer there is no need to dismantle the screw for replacement of the seal. Except type AS 250 an AS 450.

Advantages of the ACAT Screw Press:

- Safe and fully automatic operation
- Continuous dewatering system
- Low noise level < 60dB(A)
- Low wear (speed < 2 rpm)
- High durability
- Multiple flanged microstrainer (except type AS 250 + AS 450)
- Easy accessibility for maintenance purposes
- Very low electrical drive power
- Low water consumption
- All parts in contact with medium made of stainless steel
- Continuous dewatering also during mesh washing

Schematic diagram



ACAT – SCREW PRESS (AS)

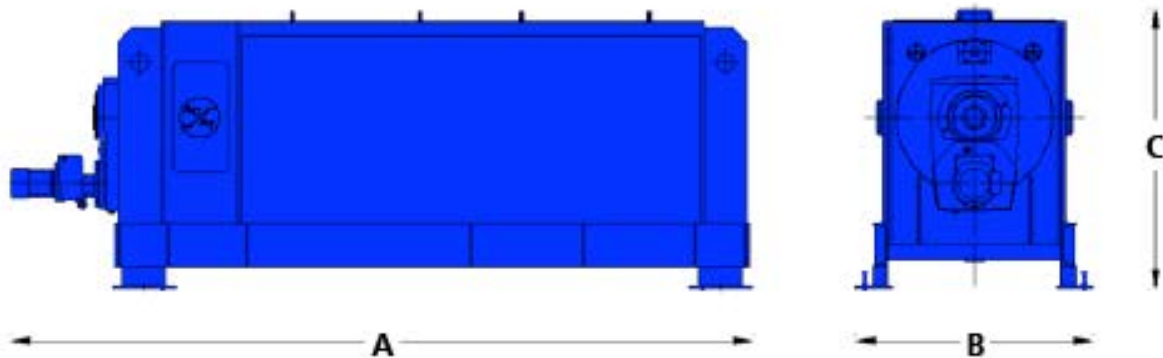


AS 250



AS 1105 S

Dimensions, Weights and Throughput of the ACAT – Screw Press



Type	Dimensions (mm)			Weight (t)	Throughput (DS/h) *
	A...Length	B...Width	C...Height		
AS 250	1910	620	680	0.4	20 kg (44 lbs)
AS 450	3100	1000	1180	1.3	100 kg (220 lbs)
AS 0505 S	4150	1300	1530	2.8	156 (344 lbs)
AS 0705 S	5370	1550	2.100	5.2	306 (675 lbs)
AS 0905 S	6740	2400	2100	9.6	506 (1115 lbs)
AS 1105 S	7990	2700	2500	18.5	756 (1,666 lbs)

Subject to change without notice

*Average throughput with digested sludge at a DS-content of the inlet sludge of 4%

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