

## Volute FS Screw Press

### TECHNICAL DATASHEET

The Volute FS screw press range is designed for sludge thickening and dewatering of dissolved air flotation (DAF) and biological (aerobic and anaerobic) sludge, as well as raw effluent flows.

Dewatering with a screw press solution offers clients a low-energy, low-maintenance way to cut their carbon footprint and join the circular economy. The screw press cuts out the need to transport large volumes of unprocessed waste.

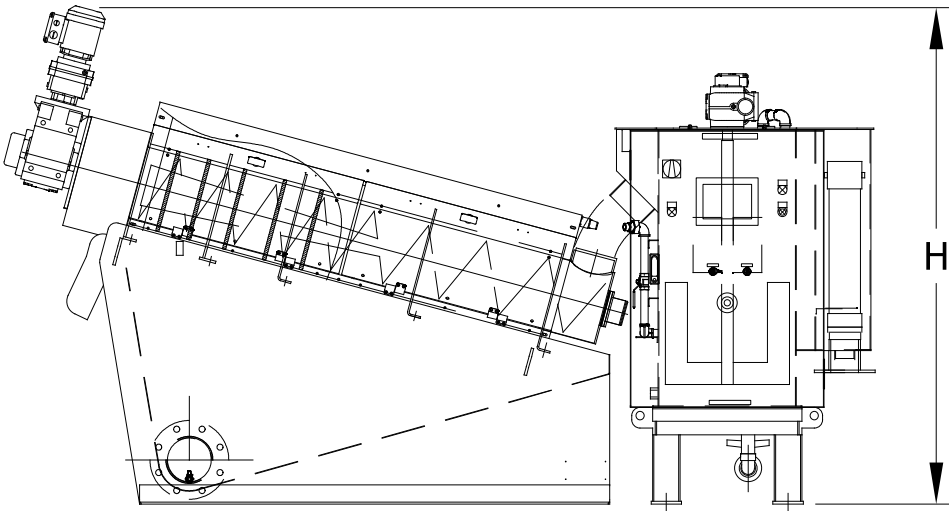
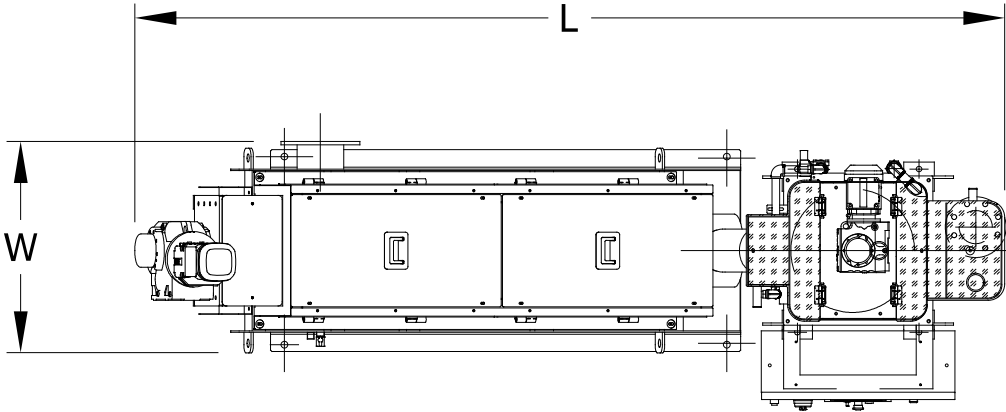


### KEY FEATURES:

- 70% footprint space saving compared to standard screw press
- Up to 99% saving on cleaning water against belt press, and 92% against conventional screw press
- No thickening or storage tanks needed
- Only 5% of the power usage of a comparable centrifuge
- Sensor-controlled operation - automatically run for 24-hours
- Only two consumable parts – typical 10,000 hours ring lifespan and 30,000 hours screw lifespan (3/9 years if run at 9 hours per day)



**TECHNICAL DRAWINGS:**



## TECHNICAL TABLE:

Model	Dimensions [mm]			Power [kW]	Weight [kg]		Hire & Trial Option
	L	W	H		Empty	Operation	
FS-101-SA	1900	760	1180	0.2	270	360	n.a
FS-131-SA	2035	760	1180	0.2	280	375	"skid mounted container"
FS-132-SA	2080	928	1180	0.3	370	585	container
FS-201-SA	2519	856	1400	0.3	355	505	container
FS-202-SA	2526	1178	1403	0.73	720	940	n.a
FS-301-SA	3178	963	1808	0.74	895	1185	n.a
FS-302-SA	3484	1288	1808	1.11	1395	2075	n.a
FS-351-SA	3859	1143	2289	1.87	1570	2170	container
FS-352-SA	4168	1463	2289	3.75	2710	3660	n.a
FS-401-SA	4778	1335	2240	2.25	1940	3250	n.a
FS-402-SA	4816	1623	2247	4.5	3380	4830	n.a
FS-403-SA	5306	2210	2247	6.7	5310	7770	n.a
FS-404-SA	6047	3200	2247	9	7510	12360	n.a

Model	Raw Wastewater / Waste Activated Sludge / Chemically Precipitated Sludge		Dissolved-air flotation sludge		Mixed raw sludge/ aerobic digested sludge (sewage sludge)
	0.2%	1.0%	2.0%	5.0%	3.0%
FS-101-SA	"up to 2kg-DS/h (up to 1.0m <sup>3</sup> /h)"	"up to 3kg-DS/h (up to 0.3m <sup>3</sup> /h)"	"up to 5kg-DS/h (up to 0.25m <sup>3</sup> /h)"	"up to 10kg-DS/h (up to 0.2m <sup>3</sup> /h)"	"up to 13kg-DS/h (up to 0.43m <sup>3</sup> /h)"
FS-131-SA	"up to 4kg-DS/h (up to 2.0m <sup>3</sup> /h)"	"up to 6kg-DS/h (up to 0.6m <sup>3</sup> /h)"	"up to 10kg-DS/h (up to 0.5m <sup>3</sup> /h)"	"up to 20kg-DS/h (up to 0.4m <sup>3</sup> /h)"	"up to 26kg-DS/h (up to 0.87m <sup>3</sup> /h)"
FS-132-SA	"up to 8kg-DS/h (up to 4.0m <sup>3</sup> /h)"	"up to 12kg-DS/h (up to 1.2m <sup>3</sup> /h)"	"up to 20kg-DS/h (up to 1.0m <sup>3</sup> /h)"	"up to 40kg-DS/h (up to 0.8m <sup>3</sup> /h)"	"up to 52kg-DS/h (up to 1.73m <sup>3</sup> /h)"
FS-201-SA	"up to 9kg-DS/h (up to 4.5m <sup>3</sup> /h)"	"up to 13kg-DS/h (up to 1.3m <sup>3</sup> /h)"	"up to 22kg-DS/h (up to 1.1m <sup>3</sup> /h)"	"up to 44kg-DS/h (up to 0.88m <sup>3</sup> /h)"	"up to 57kg-DS/h (up to 1.9m <sup>3</sup> /h)"
FS-202-SA	"up to 18kg-DS/h (up to 9.0m <sup>3</sup> /h)"	"up to 26kg-DS/h (up to 2.6m <sup>3</sup> /h)"	"up to 44kg-DS/h (up to 2.2m <sup>3</sup> /h)"	"up to 88kg-DS/h (up to 1.76m <sup>3</sup> /h)"	"up to 114kg-DS/h (up to 3.8m <sup>3</sup> /h)"
FS-301-SA	"up to 20kg-DS/h (up to 10.0m <sup>3</sup> /h)"	"up to 30kg-DS/h (up to 3.0m <sup>3</sup> /h)"	"up to 50kg-DS/h (up to 2.5m <sup>3</sup> /h)"	"up to 100kg-DS/h (up to 2.0m <sup>3</sup> /h)"	"up to 130kg-DS/h (up to 4.33m <sup>3</sup> /h)"
FS-302-SA	"up to 40kg-DS/h (up to 20m <sup>3</sup> /h)"	"up to 60kg-DS/h (up to 6.0m <sup>3</sup> /h)"	"up to 100kg-DS/h (up to 5.0m <sup>3</sup> /h)"	"up to 200kg-DS/h (up to 4.0m <sup>3</sup> /h)"	"up to 260kg-DS/h (up to 8.67m <sup>3</sup> /h)"
FS-351-SA	"up to 40kg-DS/h (up to 20m <sup>3</sup> /h)"	"up to 60kg-DS/h (up to 6.0m <sup>3</sup> /h)"	"up to 100kg-DS/h (up to 5.0m <sup>3</sup> /h)"	"up to 200kg-DS/h (up to 4.0m <sup>3</sup> /h)"	"up to 260kg-DS/h (up to 8.67m <sup>3</sup> /h)"
FS-352-SA	"up to 80kg-DS/h (up to 40m <sup>3</sup> /h)"	"up to 120kg-DS/h (up to 12m <sup>3</sup> /h)"	"up to 200kg-DS/h (up to 10m <sup>3</sup> /h)"	"up to 400kg-DS/h (up to 8.0m <sup>3</sup> /h)"	"up to 520kg-DS/h (up to 17.3m <sup>3</sup> /h)"
FS-401-SA	"up to 67kg-DS/h (up to 33.5m <sup>3</sup> /h)"	"up to 100kg-DS/h (up to 10.0m <sup>3</sup> /h)"	"up to 160kg-DS/h (up to 8.0m <sup>3</sup> /h)"	"up to 320kg-DS/h (up to 6.4m <sup>3</sup> /h)"	"up to 416kg-DS/h (up to 13.8m <sup>3</sup> /h)"
FS-402-SA	"up to 133kg-DS/h (up to 66.5m <sup>3</sup> /h)"	"up to 200kg-DS/h (up to 20.0m <sup>3</sup> /h)"	"up to 320kg-DS/h (up to 16.0m <sup>3</sup> /h)"	"up to 640kg-DS/h (up to 12.8m <sup>3</sup> /h)"	"up to 832kg-DS/h (up to 27.7m <sup>3</sup> /h)"
FS-403-SA	"up to 200kg-DS/h (up to 100.0m <sup>3</sup> /h)"	"up to 300kg-DS/h (up to 30.0m <sup>3</sup> /h)"	"up to 480kg-DS/h (up to 24.0m <sup>3</sup> /h)"	"up to 960kg-DS/h (up to 19.2m <sup>3</sup> /h)"	"up to 1248kg-DS/h (up to 41.6m <sup>3</sup> /h)"
FS-404-SA	"up to 267kg-DS/h (up to 133.5m <sup>3</sup> /h)"	"up to 400kg-DS/h (up to 40.0m <sup>3</sup> /h)"	"up to 640kg-DS/h (up to 32.0m <sup>3</sup> /h)"	"up to 1280kg-DS/h (up to 25.6m <sup>3</sup> /h)"	"up to 1664kg-DS/h (up to 55.4m <sup>3</sup> /h)"

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