Separation

Magnetic, eddy-current, air-density and electrostatic separation. The step that decides the sale price of every other fraction on the line.

8 models in this series. Capacities are indicative and depend on material bulk density, moisture, feed size and target output; a written capacity guarantee is issued against a material sample.

Density separator SST-DS series

Split mixed plastics and metals by specific gravity.

MODEL	MEDIUM	POWER (KW)	CAPACITY (T/H)	CUT POINT
SST-DS1000	Water	7.5 - 11	1 - 3	1.0 - 1.2 g/cm3
SST-DS1500	Water	15 - 22	3 - 5	1.0 - 1.3 g/cm3
SST-DS2000	Water / brine	22 - 30	5 - 8	1.1 - 1.4 g/cm3

Brine solutions raise the cut point; a rinse and water treatment stage is quoted with the unit.

Air separator SST-AS series

Light films and fibre lifted out of heavy material.

MODEL	WIDTH (MM)	POWER (KW)	CAPACITY (T/H)	SPLIT
SST-AS800	800	11 - 15	2 - 6	Light / heavy
SST-AS1200	1,200	18.5 - 30	6 - 12	Light / heavy
SST-AS1600	1,600	30 - 45	12 - 20	3-way option

Best performance at steady, single-layer feed; a vibrating feeder is normally quoted with it.

Eddy current separator SST-ES series

Non-ferrous recovery from shredded waste and bottom ash.

MODEL	BELT WIDTH (MM)	ROTOR SPEED (RPM)	POWER (KW)	CAPACITY (T/H)
SST-ES800	800	up to 3,000	7.5 - 11	3 - 8
SST-ES1000	1,000	up to 3,000	11 - 15	8 - 14
SST-ES1200	1,200	up to 2,800	15 - 30	14 - 25

Recovery drops sharply below 5 mm; screen fines out first.

Electrostatic separator SST-EC series

Dry separation of plastics and fine metal mixtures.

MODEL	DRUM (MM)	POWER (KW)	CAPACITY (T/H)	FRACTIONS
SST-EC600	600 x 1,000	7.5 - 11	0.5 - 1.2	2 - 3
SST-EC800	800 x 1,200	11 - 15	1.2 - 2.5	2 - 3
SST-EC1000	1,000 x 1,400	15 - 22	2.5 - 4	2 - 3

Feed must be dry and sized 0.1-5 mm; humid air reduces separation efficiency.

Magnetic separator SST-MG series

Overband and head-pulley units that pull ferrous out of the flow.

MODEL	BELT WIDTH (MM)	MAGNET GRADE	SUSPENSION (MM)	CAPACITY (T/H)
SST-MG650	650	N42	150 - 200	up to 60
SST-MG800	800	N42	200 - 250	up to 120
SST-MG1000	1,000	N45	250 - 300	up to 200
SST-MG1200	1,200	N45	300 - 350	up to 300

Ferrous above 30 mm is normally recovered at 95%+ when burden depth stays within spec.

Chain plate feeder SST-CF series

Metered feed for heavy, sharp and uneven material.

MODEL	WIDTH (MM)	POWER (KW)	CAPACITY (T/H)	LENGTH (M)
SST-CF800	800	5.5 - 7.5	10 - 40	4 - 6
SST-CF1200	1,200	11 - 15	40 - 100	5 - 8
SST-CF1600	1,600	22 - 45	100 - 300	6 - 12

Normally quoted with a receiving hopper and a variable speed panel.

Waste air classifier SST-WA series

Lift film, paper and dust out of shredded municipal waste.

MODEL	WIDTH (MM)	POWER (KW)	CAPACITY (T/H)	SPLIT
SST-WA1000	1,000	15 - 22	5 - 12	3 fractions
SST-WA1400	1,400	30 - 37	12 - 20	3 fractions
SST-WA1800	1,800	45 - 55	20 - 30	3 fractions

Performance depends on a steady single-layer feed; a vibrating feeder is normally included.

Water flotation separator SST-WF series

Sink-float separation for plastics and metal-plastic mixes.

MODEL	TANK (MM)	POWER (KW)	CAPACITY (T/H)	CUT POINT
SST-WF1200	1,200 x 3,000	5.5 - 7.5	1 - 2	1.0 g/cm3
SST-WF1600	1,600 x 4,000	11 - 15	2 - 4	1.0 - 1.2 g/cm3
SST-WF2000	2,000 x 5,000	15 - 18.5	4 - 6	1.0 - 1.3 g/cm3

Salt can be dosed to raise the cut point to 1.2 g/cm3; a rinse stage follows the bath.