

Up to 1750 kg/h



## ELECTROSTATIC SEPARATION SYSTEM (ESS)

REDOMA supplies fully automatic systems consisting of an Electrostatic Separator, a storage bin with a variable speed screw conveyor, together with infeed and outfeed transport equipment and a dedusting system. You can easily add this separation line to your existing cable recycling plant. Extremely little manpower is needed for this operation.

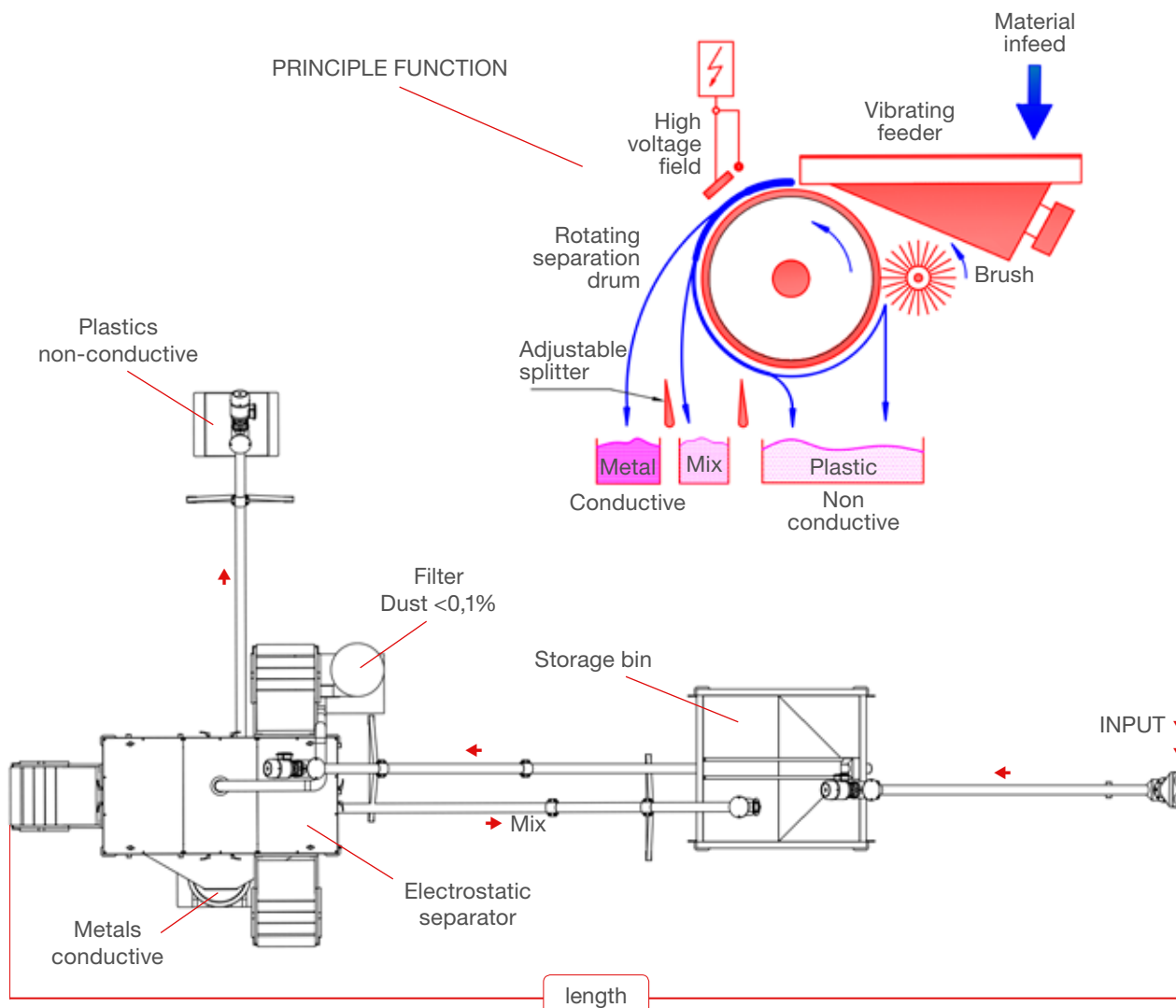
### FUNCTION

The insulation from granulated and separated cables normally contains some amount of copper. This material is fed via a vibrating feeder on two or more revolving separation drums. It passes a high-voltage field where it is electrically charged. The conductive particles (metals) lose their charge very quickly and are repelled from the drum. The non-conductive particles (plastics) stick to the drum for a little bit longer. A mix of metals and plastics is continuously fed back to the storage bin.

- Dry separation process
- Low operating costs
- Minimal maintenance
- Low energy consumption
- Little manpower required
- Profitable investment
- Metal particles less than 0.1 mm can be separated
- Short pay-off time
- Purity of metals and plastics up to 99,9%



# Electrostatic Separation System ESS



Technical Specifications	2-27-60	2-27-100	2-27-150	2-27-200	4-27-150	4-27-200	Dimensions Units (EN)
Capacity (plastic from cable recycling)	150	250	500	600	1000	1350	kg/h
No. of separation drums	2	2	2	2	4	4	pcs
Length of drums	600	1000	1500	2000	1500	2000	mm
Installed power	7.9	10.0	10.8	12.0	15.9	17.0	kW (*)
Length (approximate)	9000	10800	11000	11000	12000	12000	mm
Floor space required (approximate)	20	25	25	25	32	35	m <sup>2</sup>
Highest point	3600	3700	4200	4200	4200	4200	mm (*)
No. of containers for transport	1 x 20	1 x 40	1 x 40	1 x 40	1 x 40	1 x 40	foot (*)
Weight (excluding packing)	2.1	2.5	3.0	3.4	4.7	5.8	tons (*)
Purity of metals (typically)	99.2	99.2	99.2	99.2	99.2	99.2	% (**)
Purity of plastics (typically)	99.6	99.6	99.6	99.6	99.6	99.6	% (**)

\*) For complete separation line

\*\*) Depending on type of cable. Rubber that contains carbon is conductive and goes with the metal

Larger equipment available on request

