

Eldan Steel Cleaning System



Within tyre recycling the main objective has been to purify the rubber granulate. There is, however, also a substantial amount of steel wire in tyres, which previously has been overlooked in terms of a re-sellable material.

Due to the growing demand for cleaning of the steel, Eldan has developed systems to meet the specific customer requirements for cleaning and upgrading of the steel fraction originating from tyre recycling.

There are two systems offered – an inline solution and a "stand-alone" solution. The systems remove the textile and rubber residues from the steel, making it a steel fraction of high quality.



High quality steel deriving from tyre recycling, a material commonly used and requested by e.g steel works.



Inline system

These solutions are designed to be placed in line with an existing Eldan tyre recycling plant, screening the outlet steel from the plant.

Benefits

- Low running costs due to screening process
- Minimal operator control
- High quality steel output



Inline	Option 1	Option 2	Option 3
Input	0 – 15 mm steel wire, containing 10-15 % rubber and textile.	Up to 20mm steel wire, containing 15-20% rubber and textile.	Up to 25mm steel wire, containing 20-25% rubber and textile
Output	Approx. 96-98% clean steel wire,	Approx. 94-95% clean steel wire	Approx. 93-94% clean steel wire
Capacity	Up to approx. 2,5-3 ton/processing hour.	Up to approx. 2,5-3 ton/processing hour.	Up to approx. 2,5-3 ton/processing hour.
Density	Approx. 0,3 (300 kg/m3)	Approx. 0,3 (300 kg/m3)	Approx. 0,3 (300 kg/m3).
Middling	Approx. 5-25% oversize wire back to Rasper	Approx. 10-35% oversize wire back to Rasper	Approx. 15-50% oversize wire back to Rasper
	The figures above are based upon a maximum screen Ø15 mm in MPR	The figures above are based upon a maximum screen Ø20 mm in MPR	The figures above are based upon a maximum screen Ø25 mm in MPR

Stand alone system

These solutions include a Multi Purpose Rasper and Screening System. The output purity and capacity depend on the type of rasper and screen used. The system can be placed either in-line with the tyre

recycling plant or it can be operated as a separate unit.

Benefits:

- High density steel output
- High quality steel output
- Minimal operator control



Stand alone	Option 1: MPR120	Option 2: MPR160	Option 3: MPR200
Input	Up to 50 mm steel wire, containing up to 30% rubber & textile	Up to 50 mm steel wire, containing up to 30% rubber & textile	Up to 50 mm steel wire, containing up to 30% rubber & textile
Output	Approx. 98-99% clean steel wire	Approx. 98-99% clean steel wire	Approx. 98-99% clean steel wire
Capacity	Solution up to approx. 1000 kg/processing hour	Solution up to approx. 2000 kg/processing hour	Solution up to approx. 3000 kg/processing hour
Density	Over 0,7 (700 kg/m³)	Over 0,7 (700 kg/m³)	Over 0,7 (700 kg/m³)
	The figures above are based upon a maximum screen Ø12 mm in MPR	The figures above are based upon a maximum screen Ø12 mm in MPR	The figures above are based upon a maximum screen Ø12 mm in MPR

First choice in recycling equipment

