

ELDAN Steel Wire Quality Upgrading System

Up to 3000 kg/h



Steel from tyre recycling plant

Steel/wire ~98-99% clean,
density 0,7 (700-1000 kg/m³)

MAKING THE MOST OF WASTE TYRES

Steel wire from waste tyres is of quite high quality, yet the price for uncleaned steel wire is not very high. By processing the steel fraction in an ELDAN Steel Wire Quality Upgrading System, the steel wire can be upgraded and compacted to achieve a better marked price. For this purpose, ELDAN offers two different Steel Wire Quality Upgrading Systems, an in-line and a “stand-alone” solution, to meet the different customer demands.

The **in-line systems** are designed to be an integrated part of an ELDAN Tyre Recycling line. The system is screening the steel output, sorting out liberated steel and sending back pieces that are too big for re-granulation to liberate more of the embedded steel wire. This setup ensures low running costs.

The **stand-alone systems** can be operated either as separate units or as an integrated part of an ELDAN Tyre Recycling Line. The systems granulate the steel output in a Multi Purpose Rasper prior to the screening process, liberating more of the imbedded steel. Purity and capacity depend on the type of Multi Purpose Rasper and Screening unit used, and the density depend on the screen size.

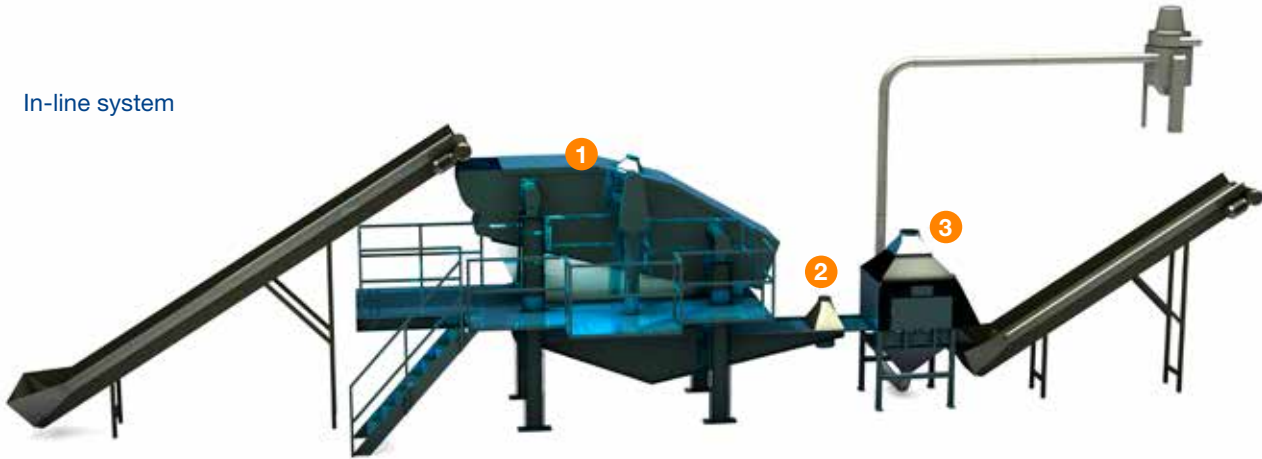
Both systems feature very little operator control and cleaned steel of high quality.

The ELDAN Steel Wire Quality Upgrading Systems are easy to integrate into an existing tyre recycling plant. The ELDAN Tyre Recycling System can be tailored to fit your demands today, and the modular concept provides you with the possibility of upscaling the production in the future.



Steel Wire Quality Upgrading System

In-line system



- 1 Steel cleaner 2 Textile Separation 3 Drum Magnet System

Specifications	Option 1	Option 2	Option 3	Units (EN/US)
Input size Input purity	0-15 / 0-0,6 10-15 % rubber and textile	Up to 20 / 0,8 15-20% rubber and textile	Up to 25 / 1,0 20-25% rubber and textile	mm / in
Output purity Output density (approx.)	96-98% clean steel wire 0,3 (300 kg/m ³)	94-95% clean steel wire 0,3 (300 kg/m ³)	93-94% clean steel wire 0,3 (300 kg/m ³)	
Capacity	Up to 2500-3000 / 5500-6600	Up to 2500-3000 / 5500-6600	Up to 2500-3000 / 5500-6600	kg / lbs per hour
Oversize middling wire back to Rasper	5-25%	10-35%	15-50%	
Figures based on screen size in MPR	Ø15 / Ø0,6	Ø20 / Ø0,8	Ø25 / Ø1,0	mm / in

Stand alone system



- 1 Tumble Back Feeder 2 Multi Purpose Rasper 3 Overband Magnet DM1850
4 Steel Cleaner 5 Textile Separation 6 Drum Magnet System

Specifications	Option 1: MPR120	Option 2: MPR160	Option 3: MPR200	Units (EN/US)
Input size Input purity	Up to 50 / 2,0 Up to 30% rubber & textile	Up to 50 / 2,0 Up to 30% rubber & textile	Up to 50 / 2,0 Up to 30% rubber & textile	mm / in
Output purity Output density	98-99% clean steel wire Over 0,7 (700 kg/m ³)	98-99% clean steel wire Over 0,7 (700 kg/m ³)	98-99% clean steel wire Over 0,7 (700 kg/m ³)	
Capacity	Up to 1000 / 2200	Up to 2000 / 4400	Up to 3000 / 6600	kg / lbs per hour
Figures based on screen size in MPR	Ø12 / Ø0,5	Ø12 / Ø0,5	Ø12 / Ø0,5	mm / in

