

LINDEMANN EtaRip

The smart start to efficient shredding.



EtaRip is LINDEMANN's pre-shredder designed to stabilise and optimise the entire downstream shredding process. By efficiently opening pre-pressed car bodies, bales and dense shredder scrap, EtaRip homogenised feedstock before it reaches the main shredder, enabling more uniform loading, improved process control – and significantly reducing mechanical stress across the plant.

Two slow-running counter-rotating rotors with application-specific tearing teeth ensure controlled material breakdown, while the intelligent flipper system actively supports material intake for consistent throughput. The result is improved full box shredding conditions, shorter processing times and smoother material flow through downstream separation and sorting stages.

By removing trapped dirt, glass and abrasive contaminants early in the process, EtaRip helps extend the service life of hammers, rotors, grids and liners, while improving operational safety. Integrated high-torque hydraulic drives, robust bearing protection ensure reliable performance, even under demanding operating conditions.

With Siemens PLC control, optional remote monitoring via myLINDEMANN and energy monitoring capability, EtaRip supports data-driven optimisation, predictive maintenance and long-term plant performance.

GENERAL KEYFACTS

- **Standardizes feedstock** to enable stable 'full box shredding' and smoother downstream processing.
- **Releases dirt, glass and contaminants early** to extend wear life of hammers, rotors, grates and liners.
- **Reduces peak power demand and mechanical stress** across the entire shredding plant.
- **Improves plant safety** by lowering the risk of deflagration in the main shredder.
- **Designed to open car bodies, bales and compacted scrap** before the main shredding stage.

LINDEMANN KEYFACTS

- ⊕ Intelligent flipper system actively presses material towards the rotor for consistent intake and throughput.
- ⊕ Two slow-running counter-rotating rotors with application-specific tearing teeth for controlled pre-shredding of dense scrap.
- ⊕ High-torque hydraulic direct drives eliminate the need for gearboxes, reducing complexity and improving reliability.
- ⊕ Robust housing with easy maintenance access and pre-assembled hydraulic piping for quick installation.
- ⊕ Supports lower overall plant energy consumption and higher throughput.
- ⊕ myLINDEMANN connectivity enables remote monitoring, KPI tracking and predictive maintenance.

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FACTS AND FIGURES

Model		EtaRip 210	EtaRip 210Max	EtaRip 250	EtaRip 250Max
General Data					
Throughput (Miscellaneous Scrap / ELV), up to	t/h	40	55	110	170
Throughput (Bales - Density <0,8 t/m³), up to	t/h	25	30	100	150
Throughput (Bales - Density <1,0 t/m³), up to	t/h	20	25	90	130
Drive Power					
Flipper + Top Rotor (Low Speed)	kW	90	160	132	250
Bottom Rotor (High Speed)	kW	315	2 x 200	2 x 250	3 x 350
Top Rotor (Low Speed)					
Discs	pcs.	3	3	4	4
		or 4	or 4	or 5	or 5
Maximum Torque	kNm	280	380	528	560
Bottom Rotor (High Speed)					
Discs	pcs.	4	4	5	5
		or 5	or 5	or 6	or 6
Maximum Torque	kNm	280	380	528	560
Flipper					
Maximum Pressing Force	kN	690	690	690	690

This information is only a general description and represents approximate values. It is not guaranteed and contains no warranties or assurance of any kind. The performance data is strongly dependent on the type and composition of the feed material, the feed density, the feed rate, and the overall operating performance,