

DANIELI LYNXS
SHREDDERS
OUR KNOW-HOW
YOUR HIGHER
PERFORMANCE

The most modern and
cost-effective solutions for shredding
and recycling scrap metals and
non-ferrous materials.

DANIELI LYNXS



> Danieli Lynxs
A Winning Team <



Thanks to the powerful collaboration between the various divisions of the Danieli Group, we are able to offer all the technological equipment, auxiliary systems and infrastructure needed to install a complete plant, sparing the customer all the costs and delays arising from coordinating various suppliers.

SHREDDER		Rotor		Throat		Hammers			Power		Production rate Fe	Production rate Al
		mm	inch	mm	inch	Kg	lb	Q.ty	Kw	Hp		
DCR-1817	BD	1800	71	1780	70	118	260	6	600	805	8 ~ 13	
		1800	71	1780	70	118	260	8	600	805	12 ~ 20	10 ~ 35
		1800	71	1780	70	118	260	10	750	1005	16 ~ 24	15 ~ 65
DCR-1822	BD	1800	71	2250	89	118	260	8	750	1005	12 ~ 18	
		1800	71	2250	89	118	260	10	930	1250	24 ~ 32	16 ~ 65
		1800	71	2250	89	118	260	12	1030	1380	28 ~ 36	
DCR-1827	BD	1800	71	2700	106	118	260	10	930	1250	17 ~ 24	
		1800	71	2700	106	118	260	12	930	1250	30 ~ 40	15 ~ 65
		1800	71	2700	106	118	260	14	1030	1380	35 ~ 45	20 ~ 70
		1800	71	2700	106	118	260	20	1500	2010	50 ~ 60	
DCR-2227	BD	2250	89	2700	106	201	443	14	1500	2010	45 ~ 54	
		2250	89	2700	106	201	443	16	1875	2515	60 ~ 80	20 ~ 100
		2250	89	2700	106	201	443	18	2250	3020	70 ~ 90	
		2250	89	2700	106	201	443	20	3000	4025	85 ~ 120	
DCR-2727		2700	106	2700	106	263	580	20	3000	4025	90 ~ 150	
		2700	106	2700	106	263	580	20	4420	5930	120 ~ 180	
		2700	106	2700	106	263	580	20	5220	7000	140 ~ 210	
DCR-3230		3300	130	3000	118	385	849	20	5220	7000	180 ~ 240	
		3300	130	3000	118	385	849	20	6000	8050	210 ~ 280	
		3300	130	3000	118	385	849	20	7475	10000	250 ~ 330	



Through a continuous process of product development, Danieli Lynxs scrap shredder plants combine technical ingenuity with engineering excellence. We deliver scrap shredders starting from 600 kW (800 Hp) right up to 7,475 kW (10,000 Hp) that offer world leading performance and reliability at industry leading low operating costs.

Our robust and reliable plants are designed and built to meet the arduous conditions imposed when processing heavier grades of scrap metal.

A complete service is available to the scrap shredder operator from full turnkey design, manufacture and installation of new integrated facilities to the supply of replacement rotors and wear parts. At existing sites, our experienced engineers can offer new insight and practical solutions to modernise and enhance production output, metal recovery and overall efficiency.



Ferrous

Danieli Lynxs downstream plants efficiently clean and separate the pulverised material discharged by the Shredder. Extensive experience and expertise combined with leading-edge technology (including state-of-the-art magnets with a steel product polishing capability) ensure full recovery of a high-quality low copper content ferrous product coupled to the highest possible grade of non-ferrous residue.



Shredded Steel



Non-ferrous Residue Fines



Non-ferrous Residue



Aluminium Shredded



Induction Sorted

Non-Ferrous

Our innovative mill geometry and one-touch computer-based Maximise control system gives high throughput with low power consumption. Comprehensive material disintegration ensures optimum separation and non-ferrous product yield. State-of-the-art dust extraction, suppression and control techniques mean that all our equipment meets current and foreseeable statutory environmental requirements.



Clean steel scrap

- > Clean low copper content high-density fragmented steel scrap
- > Open fragment form prevents non-ferrous inclusions

Effective separation and recovery

- > Uniform fragment size allows non-ferrous metal separators to be set for narrow range and hence at their most efficient
- > Automated recovery of high-value non-ferrous materials
- > Lower transportation, secondary processing and handling costs

Efficient and cost-effective

- > Uniform pulverisation allows unimpeded recovery of non-ferrous metals
- > Enclosed conveyor system reduces and prevents wind spillage
- > Copper wire fragments can be removed by metal sensing separator



Danieli Lynxs Heavy Duty Scrap Shredders are supplied with the following exceptional features as standard

Danieli Lynxs Shredder: "Our know-how, Your higher performance".



- > High-inertia long-life totally enclosed capped Rotor
- > Heavy-duty Rotor Bearing Housings
- > Rotor Lifting Device for easy and safe maintenance access
- > High impact resistant Top Discharge Grid
- > High impact resistant alloy steel liner plates
- > Hydraulically opened & latched Top Section for easy and safe maintenance access to Middle Section liner plates
- > Hydraulically operated Top Discharge Grid Closing Door
- > High-speed single-stroke hydraulic Hammerpin Puller
- > Hydraulically fixed Anvil
- > Single unified base structure for increased stiffness & strength in vicinity of anvil
- > Inventive Lower Grate arrangement for increased discharge area
- > Separate replaceable Chute Nose fabrication
- > Separate replaceable Hinge Bracket between Base and Middle sections
- > Modified Middle Section Side Liner wear plates for long life
- > Reject Door
- > New ring frame Compression Feeder configuration
- > Integrated water based Dust Suppression System as standard

Pre-Shredder

Danieli Henschel Pre-Shredders can be easily installed within existing plants or in conjunction with our smaller shredders enabling heavier material to be processed. With two- or three-rotor shafts, direct motor drive and bigger tooth profile the pre-shredder has more torque, faster input revolution, higher efficiency and production rates from 25 t-120 t/h.

Specific advantages:

- > Improved shredder production by preparing a homogeneously graded, densified product, reducing shredding time.
- > Significant reduction of explosions in the shredder
- > Detection of unshreddable material upstream from the shredder
- > Increased service life of wear parts in the shredder
- > Smoothing of shredder electricity consumption
- > Optimised logistics for collecting products to be processed, by reducing intermediate handling and transport volumes
- > Prevent environmental problems





Infeed Systems

Tilt Tables

The Tilt Table is manufactured in heavy plate sufficient in strength to absorb impact forces during loading and is mounted on a separate frame. A single hydraulic cylinder is provided for lifting the table to the feeding position.

Infeed Conveyors

The conveyor frame is constructed from heavy steel plate and rolled section to provide a massive rigid construction in the loading area; the sidewalls are constructed from thick steel plate. Within the side frames, labyrinth seals are installed to prevent lateral spillage and eliminate chain damage. The conveyor belt is an assembly of steel plate fabrications, stiffened and fitted with welded section 'piano' type hinges. All rollers and rails are manufactured from hardened steel alloy in order to reduce wear and ensure prolonged operational life.

Spare parts



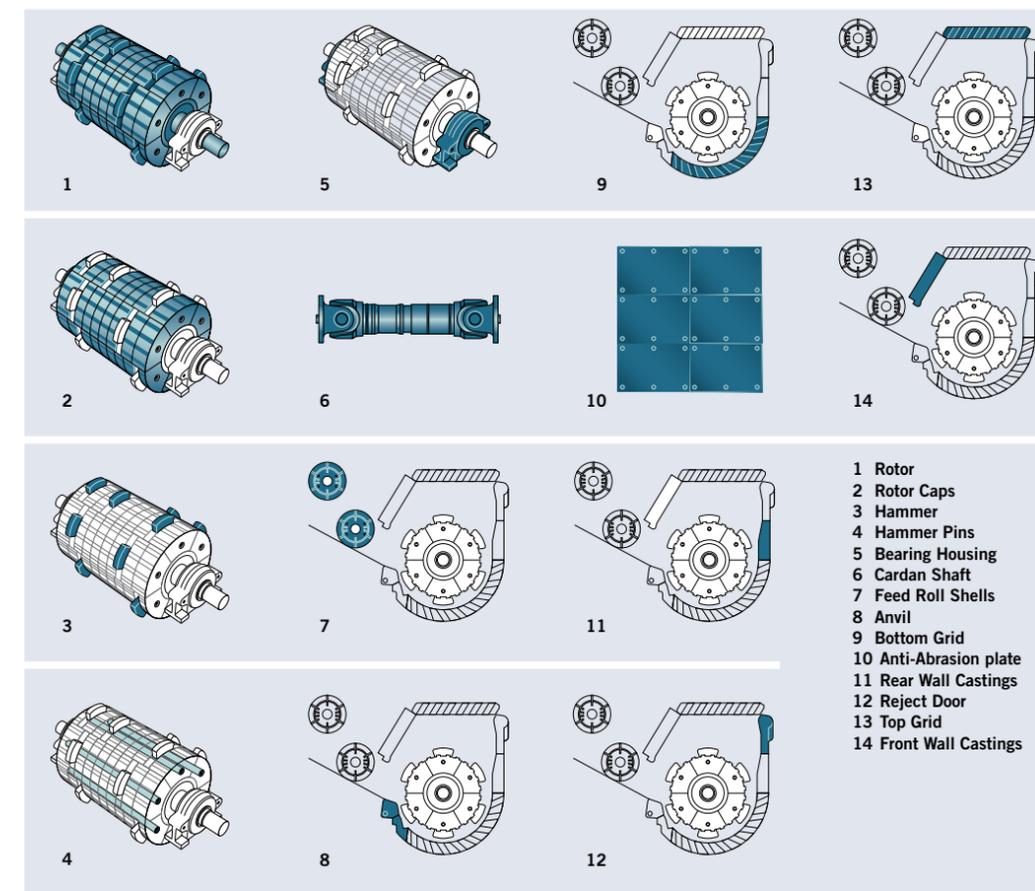
Support and services

Danieli Lynxs customers enjoy attentive, professional customer service that is tailored to each individual installation. At our headquarters we hold an extensive range of components and wear parts to suit not only all our own machines but also many of the world's scrap shredder installations.

Modernisation & Refurbishment Services

Danieli Lynxs offers world-wide extensive specialist modernisation and refurbishment services for existing Scrap Shredder Plants and Rotors.

- 1 Tilt table
- 2 Infeed conveyor



- 1 Rotor
- 2 Rotor Caps
- 3 Hammer
- 4 Hammer Pins
- 5 Bearing Housing
- 6 Cardan Shaft
- 7 Feed Roll Shells
- 8 Anvil
- 9 Bottom Grid
- 10 Anti-Abrasion plate
- 11 Rear Wall Castings
- 12 Reject Door
- 13 Top Grid
- 14 Front Wall Castings

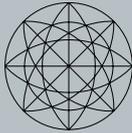
Environmental Protection, Material Cleaning & Separation Equipment

Danieli Lynxs design, manufacture and install state of-the-art scrap shredder air cleaning systems to ensure low dust emissions. Based upon closed-loop technology, our plants meet and exceed all current and projected prominent environmental requirements and legislation.

Unique separation plant configurations offer maximum metal recovery which may be simply coupled to practical off-line Shredder Light Fraction (SLF) processing alternatives.



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