

LINDNER



**POLARIS 1800 | 2200 | 2800
STATIONARY ONE-STEP SHREDDING**

**GOES IT
ALONE.**

ONLY LINDNER CLIENTS CAN TRULY SAY:

IT'S AS GOOD AS ITS WORD.

MAKES SHORT WORK OF SHREDDING: COST-EFFICIENT, HIGHLY RELIABLE AND ONLY ONE STEP.

Nothing can withstand the enormous power of the Lindner Polaris single-shaft shredder. Made for one-step processing of untreated municipal, industrial and commercial waste to obtain mid-calorific fuels (40–120 mm) ideal for co-incineration in calciners at cement works. Sturdy design and low operating costs are the hallmarks of this highly specialised shredder: enjoy uninterrupted shredding excellence 24 hours a day, seven days a week. With maximum efficiency throughout, as demonstrated by a field test: thanks to the countershaft drive, the Linder Polaris shreds twice as much material as comparable machines in the same period of time.*

* Comparative testing at the Chair of Waste Processing and Waste Management, University of Leoben, May 2017



1. HYDRAULIC MAINTENANCE DOOR

Remove foreign matter quickly and cleanly with the maintenance door at position 2.

100% safe operation with the mechanical safety lock and the pusher's special parking position.

Enjoy comfortable maintenance access to the rotor cutters and counter knives with the maintenance door at position 3.



2. COUNTERSHAFT DRIVE

More power for tough materials ensured with approximately 11 tons of flywheel mass.

Superbly efficient for maximum output and low energy.

Readily available worldwide due to easily exchangeable standard parts.

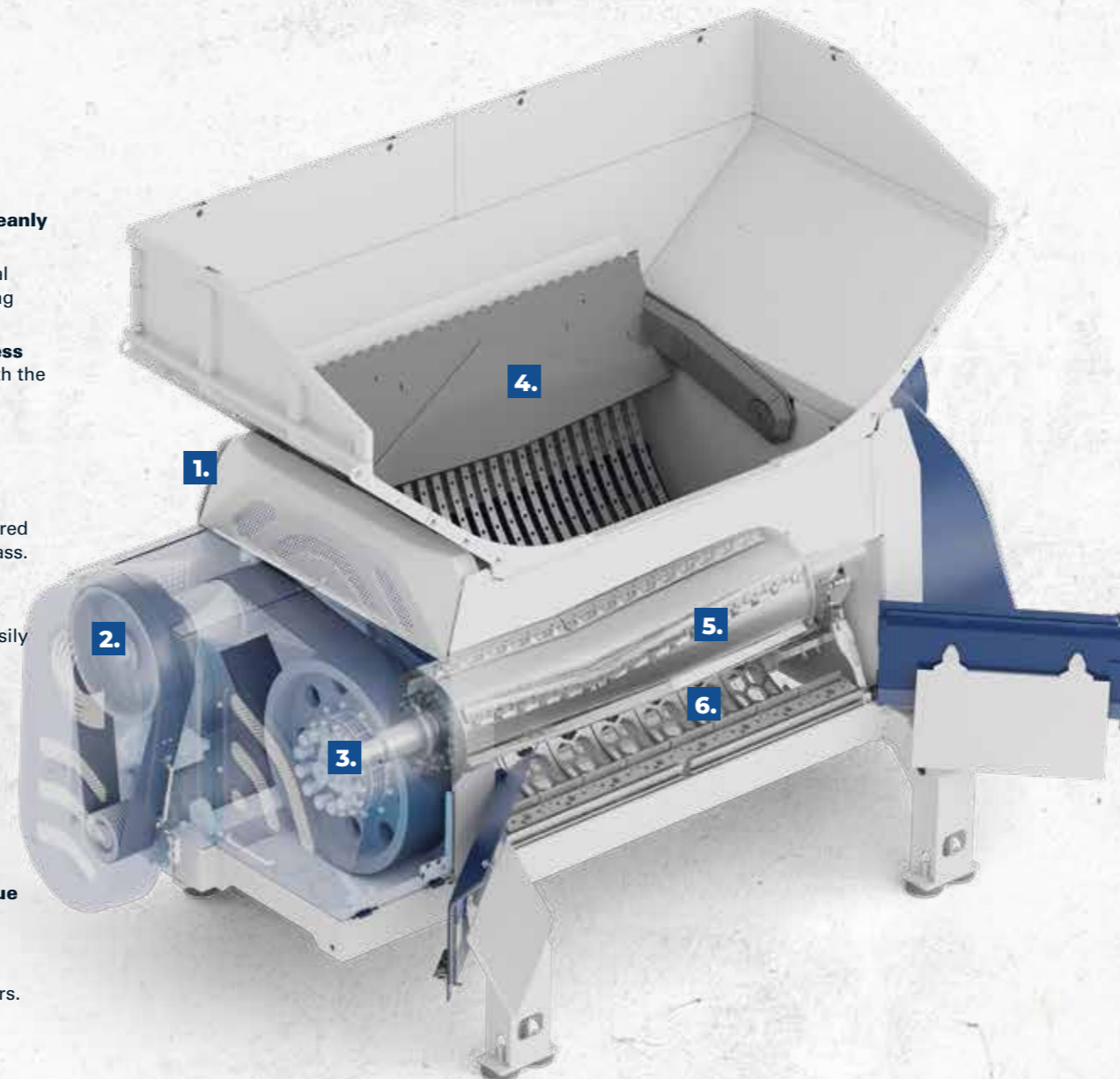


3. TORQUE-LIMITING SAFETY CLUTCH

Individually adjustable threshold value to prevent the safety clutch from disengaging when heavier materials are being shredded.

Secure power down with proven sensors.

Perfect drive protection thanks to the drive unit's disengagement.



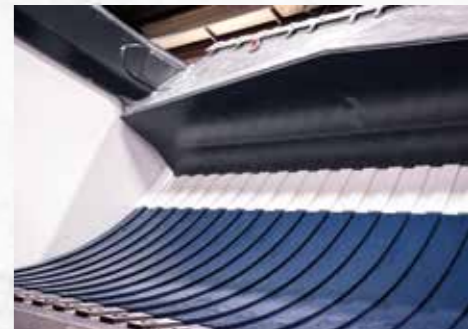
4. INTERNAL PUSHER

Continuous shredding due to smooth rotor feeding.

Easy feeding with a completely internal construction.

No jamming as a result of additional comb and sealing bars.

Maintenance-free thanks to the absence of guide elements.



5. STURDY SHEAR CUTTING SYSTEM

High output guaranteed with signature cutter geometry.

Resistant to foreign objects owing to sturdy cutters in welded cutter holders.

Parts storage made easy with identical cutters, counter knives and scrapers.

Long service life as a result of multiple-use, quick-change cutters and knives.



6. PLUG & GO SCREEN UNIT

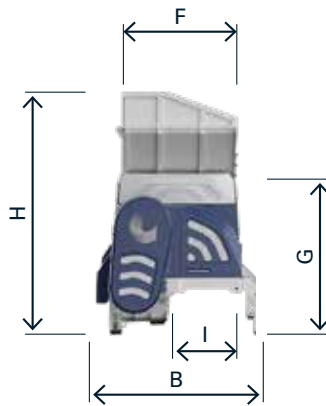
Flexible output sizes made possible with quick-change screen units in various mesh widths.

Extremely safe operation thanks to the electromagnetically locked screen access point, preventing access to the cutting system while the machine is in operation.

Easy screen change without any lifting aids thanks to their swivel-mounted, hydraulically operated design.



TECHNICAL DATA



Hydraulic door for maintenance and removal of foreign objects

1. Operating position
2. Position for removal of foreign objects
3. Position for maintenance

		POLARIS 1800	POLARIS 2200	POLARIS 2800
DIMENSIONS*				
Measure (L x B x H)	mm	4705 x 2925 x 4824	5050x 2925 x 4824	6065 x 2925 x 4824
Filling opening (D x F)	mm	3744 x 2370	4090 x 2370	4779 x 2370
Filling height (G)	mm	3473	3473	3473
Hopper volumes	m ³	8	9	10
Outlet width (I)	mm	960	960	960
Total weight	kg	24600	26000	33800
CUTTING UNIT*				
Rotor length	mm	1770	2115	2805
Rotor speed	min ⁻¹	112	112	112
Standard tool		shear cutters		
	mm	172RP	172RP	172RP
Number of cutters	pcs.	50	60	80
Screens		hexagonal / polygonal		
Number of screens	pcs.	5	6	8
Output size	mm	40 – 120	40 – 120	40 – 120
DRIVE UNIT*				
Type		countershaft drive		
Motor	kW	1 x 160	1 x 200	2 x 132
Power control		frequency converter		

*The stated values refer to standard machine versions with a standard hopper and raised feet. The right to make technical changes is reserved.



Atex-explosion protection



Water sprinkling system



Fire extinguishing system with spark detection



Feeding unit for bulky goods and bales

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