

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 thanks to the mechanical safety lock and the pusher's special parking position.

Enjoy convenient maintenance access to the knives and counter knives with the maintenance door at position 3.



2. COUNTERSHAFT DRIVE

Load-dependent energy release thanks to countershaft drive.

More power for tough materials ensured with additional flywheel mass.

Superbly efficient for maximum output and low energy.

Readily available worldwide due to easily exchangeable standard parts.

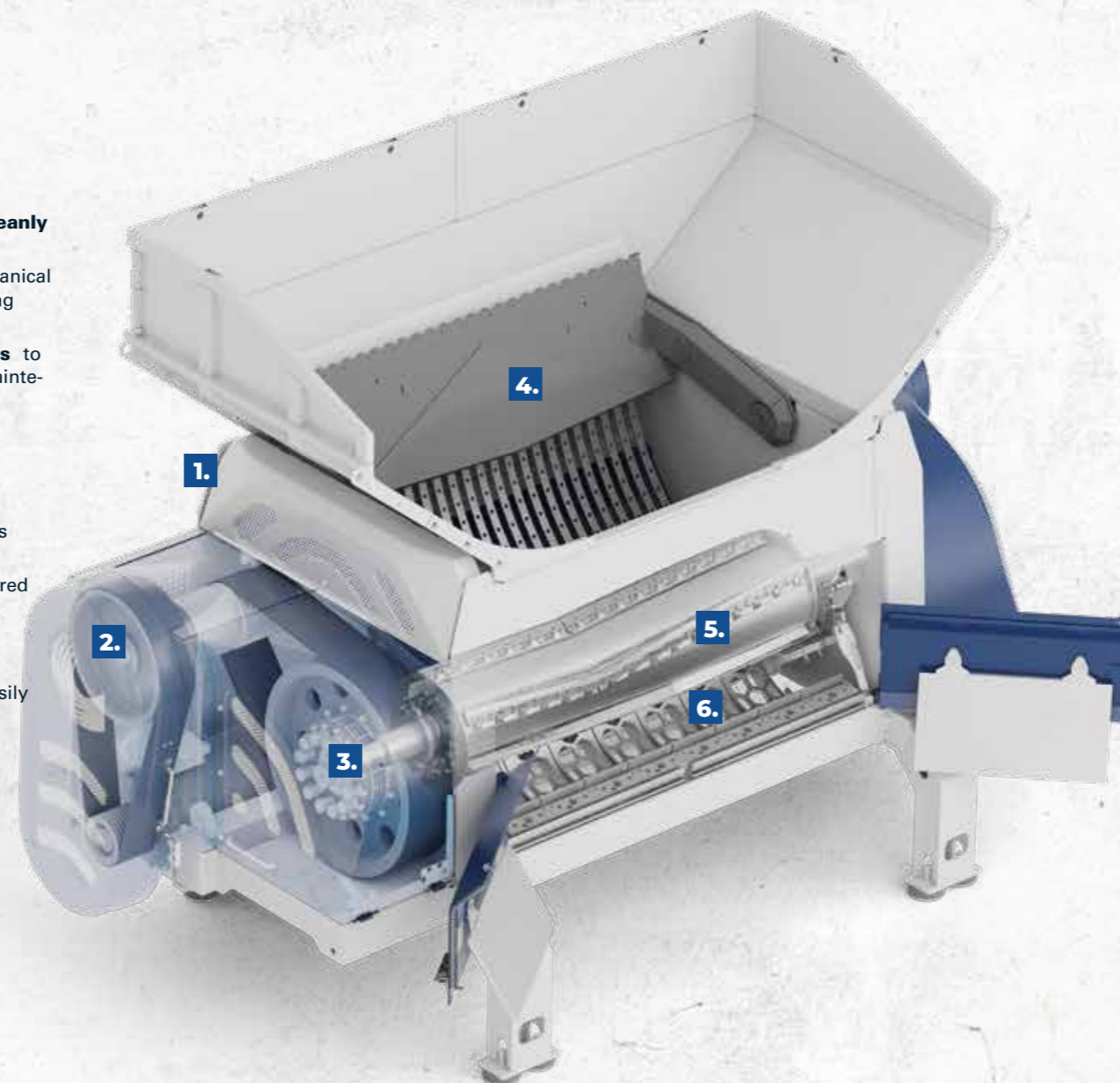


3. TORQUE-LIMITING SAFETY CLUTCH

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

Fully adjustable to your materials.

Secure power down with extremely precise sensors.



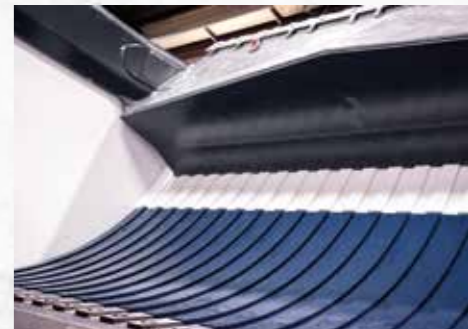
4. INTERNAL PUSHER

Consistent dosing due to self-regulating hydraulics.

Delightfully maintenance-free thanks to the absence of guide elements.

Easy feeding with a completely internal construction.

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



5. STURDY SHEAR CUTTING SYSTEM

High output guaranteed with signature knife geometry.

Resistant to foreign objects owing to sturdy knives in welded knife holders.

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

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



6. PLUG & GO SCREEN UNIT

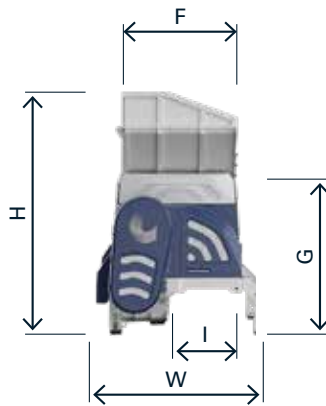
Flexible output sizes made possible with quick-change screen units in various hole sizes.

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 due to our swivel-mounted, hydraulically operated screen unit with individual screen modules.



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 (LxWxH)	mm	4705 x 2925 x 4824	5050x 2925 x 4824	6065 x 2925 x 4824
Hopper opening (DxF)	mm	3744 x 2370	4090 x 2370	4779 x 2370
Feeding height (G)	mm	3473	3473	3473
Hopper capacity	m ³	8	9	10
Outlet width (I)	mm	960	960	960
Weight	kg	24600	26000	33800
CUTTING UNIT*				
Length	mm	1770	2115	2805
Speed	min ⁻¹	112	112	112
Standard tool		blade knives	blade knives	blade knives
	mm	172RP	172RP	172RP
Number of knives	pcs.	50	60	80
Standard tool		hexagonal/polygonal	hexagonal/polygonal	hexagonal/polygonal
Number of screens	pcs.	5	6	8
Final output	mm	40 – 120	40 – 120	40 – 120
DRIVE UNIT*				
Type		countershaft drive	countershaft drive	countershaft drive
Motor	kW	1 x 160	1 x 200	2 x 132
Power control		frequency converter	frequency converter	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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