

Lindemann™ PowerCut™

A shear with sophisticated technology



FEATURES

Lindemann PowerCut has been specially developed to process medium production volumes with minimum energy consumption and costs. The production capacity is up to 51 tons per hour and up to 6 cuts per minute. The side compactor and press lid of the Lindemann PowerCut operates with a large over stroke. This reduces wear on the opening and wears plates, minimizes the necessary force and prevents jamming.



Less malfunctions during the process

Instead of the usual proximity and limit switches, in the case of the Lindemann PowerCut a non-contact position-determining system is used. The positions of the lid, side-compression, stamper and shearing cylinders are continuously monitored by means of an magnetostrictive device. The pusher cylinder is monitored with a protected laser system, which is installed underneath the slanted cover.



More efficiency when cutting

By guiding the blade slide in a V-shaped, adjustable rail, we achieve far greater cutting precision than you can obtain using other technologies. This saves energy when cutting and wear is considerably reduced due to the elimination of uncontrollable forces.



Valuable parts housed safely

The most sensitive and valuable components of a scrap shear, such as the hydraulic and electronic elements, are installed in a standard-size container, which eliminates the need for a pump house.

BENEFITS



Less Wear

- Large over stroke of press lid and side compactor reduces wear
- All parts in the areas where wear is critical are made of highly wear-resistant Lindur
- The computer-controlled shear frame lubricating system ensures that the guide elements are adequately supplied with grease, which minimizes friction forces and prevents seizing



Least Downtime

- Generously dimensioned and bolted wear parts, easiness to maintain, excellent Lindemann quality, and advanced fault diagnosis system secures your production time is maximized
- Hydraulic blade tensioning device available for fast blade changing



Intelligent control systems

- Intelligent hydraulic management resulting in faster working cycles
- A number of optimized programs for different types of scrap: full stroke, partial stroke, relative stroke

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Technical Data

Model		PowerCut 816-8	PowerCut 816-8	PowerCut 816-10	PowerCut 816-10	PowerCut 1025-8	PowerCut 1025-10
TD		60-20-16	80-20-16	60-20-18	80-20-18	80-20-16	80-20-18
SLP		250-270-120	340-270-120	250-270-120	340-270-120	340-270-120	340-270-120
Shearing force	t	800	800	800	800	1000	1000
Blade width	mm	800	800	1000	1000	800	1000
Stamper force	t	160	160	160	160	250	250
Side compression	t	250	340	250	340	340	340
Lid compression (middle)	t	270	270	270	270	270	270
Pusher force	t	120	120	120	120	120	120
Press box (L x W x H)mm	mm	6000	8000	6000	8000	8000	8000
		2000	2000	2000	2000	2000	2000
		1600	1600	1800	1800	1600	1800
Height of side ram	mm	600	600	600	600	600	600
Electric power	kW	3 x 90	3 x 90	3 x 90	3 x 90	4 x 90	4 x 90
Production output	t/h	up to 28	up to 32	up to 33	up to 37	up to 42	up to 51
Dimensions							
Length (total)	mm	16245	20700	16700	20700	20465	20465
Width (incl. container)	mm	8575	6800	6800	6800	6585	6585
Feeding height	mm	3350	3350	3350	3350	3350	3350

Shear frame and blade slide	
Robust shear frame construction	X
Adjustable V-guides for blade slide	X
Fully guided hydraulic stamper	X
Large blade seat forging	X
Breaker bar on bladeslide	X
Automatic lubrication of the shear frame	X
Lindur replaceable liners	X
Rapid motion control for stamper and bladeslide	X
Press box	
Robust construction with side compression and compression wing	X
Three dimensional pre-compression functions	X
Overstroke of side compression and lid	X
Bolted wear plates made from Lindur	X
Laser controlled pusher cylinder travel	X
Full length pusher cylinder enclosure	X
Replaceable split front wear plates of the feeding pusher	X
Mechanical synchronising of the side ram	X
Integrated pre-feeding hopper (feeding during cutting process)	X
Supporting structure	X
Support for shear (flat slab foundation)	X

Hydraulic system	
High efficiency hydraulics	X
Single manifold with cartridge valves	X
Submerged pumps for quiet operation	X
Low-vibration support of drive units	X
Preformed high pressure piping	X
Oil filtering and cooling in the bypass circuit	X
Oil / air cooler	X
Containerized hydraulic power unit and electrical controls	X
Electric drive	X
Electrical system	
PLC control with HMI touchscreen control panel	X
Magnetostrictive position monitoring of cylinders	X
Laser controlled pusher cylinder	X
Relative stroke and partial stroke control of blade slide and stamper	X
Adjustable cutting lengths selectable by remote control & HMI screen	X
Pump test / cylinder test modes	X
Wireless remote control - with 4 preset operating modes	X
Internet connection for remote access	X

Auxiliary/ Options	
Supports for elevated set up (500 mm)	0
Scrap cleaning system	0
Scrap discharge conveyor	0
Hydraulic blade tensioning device	0
Blade changing platform	0
Oil reservoir heater	0
Increased cooling capacity (temps over 40 °C)	0
Cold weather package (temps to -40 °C)	0
Operator cabin with control desk	0
AC for operator cabin	0
Elevated platform for cabin	0
Auto box lubrication	0
AC for electrical panel (ambient conditions over 35 °C)	0
Customer specific design requirements	0

X= Standard, 0=Optional