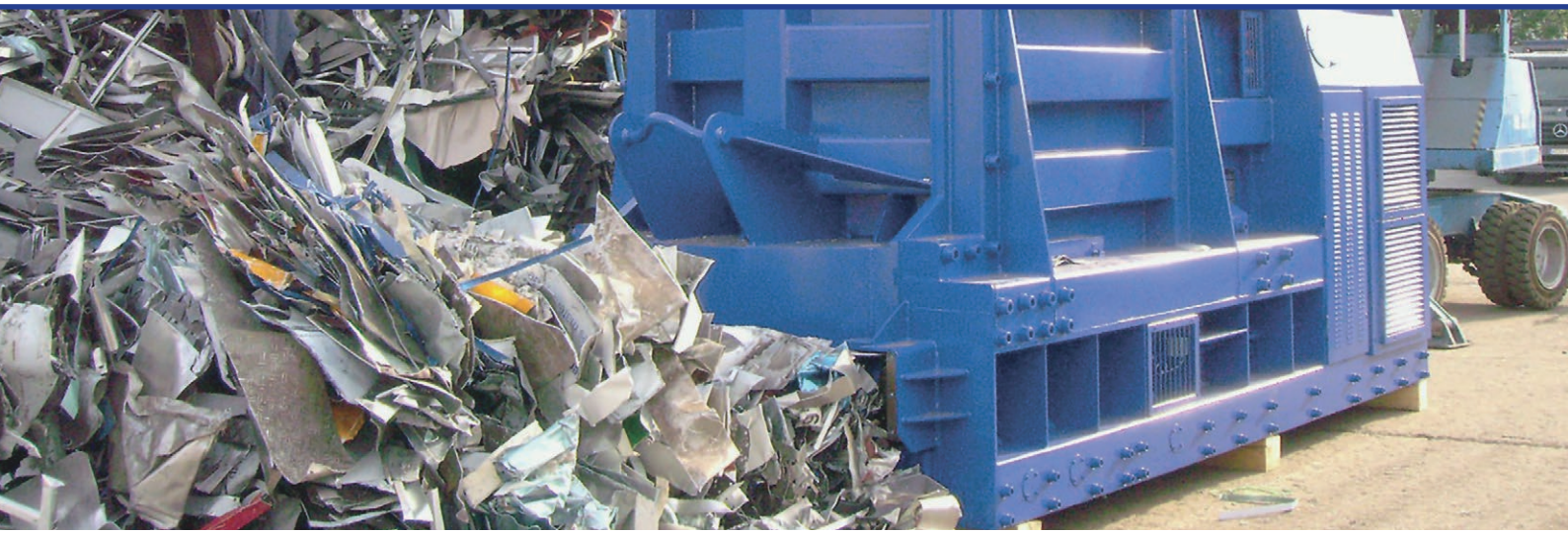
KLANN

Over 200
shears sold

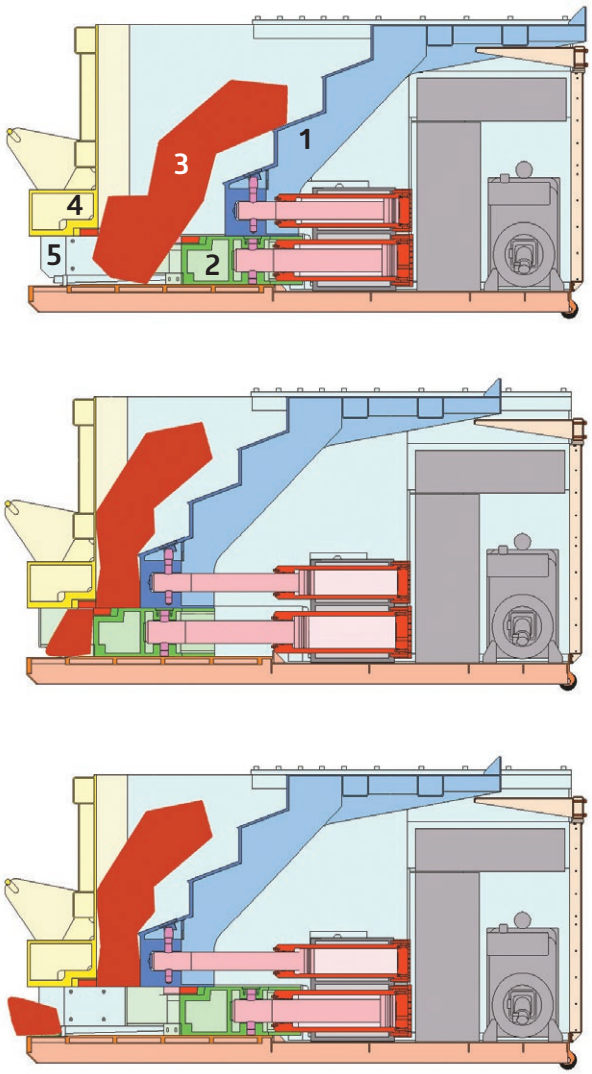
Also possible to rent!

Container Shear CNS 400K

Always the best cut:
mobile and flexible - always suitable for your needs.



The container shear type CNS has become with its horizontally guided shear blade slider on the bottom an alternative to the conventional guillotine shears, with more than 200 machines sold.



Operation principle of the container shear

The horizontal slider design allows a compact construction of the shear with the outer dimensions of a roll-off container.

The cutting cycle runs continuously without any necessary intervention or supervision by an operator. The shear can be started or stopped directly from the cabin of the material handler via a remote control. An intervention is only necessary if impurities are detected or an overload stopps the shear.

The scrap is fed into the feed bin from the top. By the horizontal movement of a pre-compactor (1) and it's own weight, the scrap (3) is falling to the bottom of the bin and into the cutting area. As the scrap is pressed against the front wall, the blade slider (2) cuts the scrap by it's horizontal move on the bottom against the front wall blade (4). With the horizontal move of the slider the cut off material is pushed out through a front opening of the container (5).

The high availabilty of the shear is guaranteed by the use of well-known components from Bosch-Rexroth (Hydraulic), Siemens (control), Caterpillar (Diesel engine) or Siemens (electric drive).

By the use of castings in critical areas as well as machining of the sliding guides and joining surfaces, the container shear is particularly robust and durable. The precisely adjustable shear gap assures a reliable force transmission in the scrap and not in the construction even after years of operation.

The company ZDAS put over 50 years of experience with heavy machinery for scrap processing into designing the container shear. The machine is designed for heavy duty, high availabilty and easy maintenance.

Advantages of container shear design

Compared to simpler shears this results in the following advantages of the container shear:

- machined guides allow an exact slider movement and full exertion of the cutting force;
- machined joint surfaces and use of casted parts at critical locations in the construction for transmission of the shear forces;
- high shearing performance up to 12 t per hour with the CNS 400K;
- Siemens control system S7 installed in a large cabinet with an operator panel for error messaging;
- low diesel consumption due to an effective diesel-hydraulic drive system (~ 1.2 liters/t scrap);
- no sticking of the pre-compactor or shear slider due to exact guides which also act as hydraulic cylinders with a high repelling force;
- high loading capacity of up to 5 m³ by the use of a feed bin;
- blades along the entire slider width ensure maximum cutting force;
- complete enclosure of the machine for safety and protection reasons;
- the hydraulic oil in the tank is additionally protected in a rubber bubble from leaking and contact with air, this corresponds to stricter environmental regulations;
- long life of the hydraulic components through an operating pressure of max. 315 bar and use of power regulated high-pressure pumps to avoid hydraulic hits;
- use of a water cooled caterpillar 4-cylinder turbo diesel engine of the newest emission technology with Ad-blue injection, which is also operational at hotter summer temperatures;
- easy maintenance of wear parts by screw fastening;
- internal transfer by hooklift truck possible;


1


2


3


4

The Container Shear is available in either with diesel or electric drive:

	Unit	CNS 400 K	CNS 400 Ke
Outer dimensons (L xW x H):	m	5.3 x 2.5 x 2.7	5.3 x 2.5 x 2.7
Production:	t/h	8 - 12	8 - 12
Shear force:	kN	4.000	4.000
Shear width:	mm	1.600	1.600
Shear length, theoretical:	mm	~ 420	~ 420
Blade stroke:	mm	800	800
Cycle time:	sec.	22 - 33	20 - 33
Diesel consumption:	l/t	1,0 - 1,4	-
Tank volume (Diesel):	l	200	-
Motor power:	kW	96	75
Total weight:	t	25,5	25

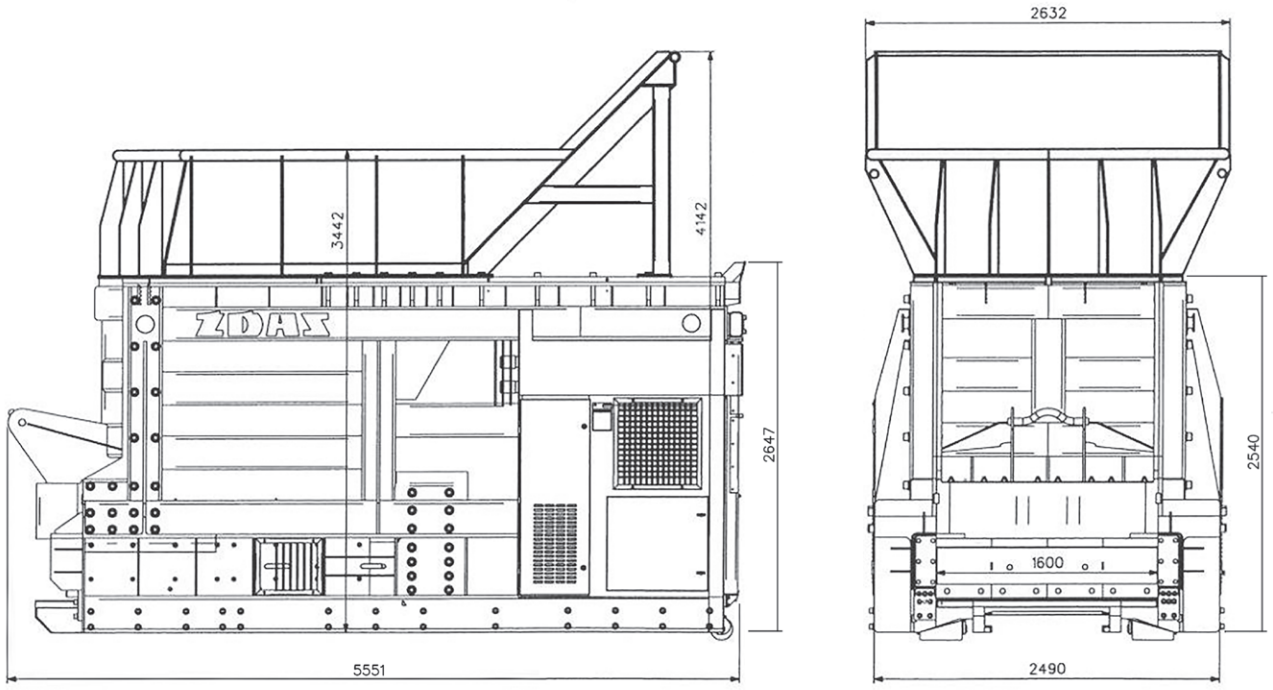
1 Processed steel beams
2 View on the rear side with motor protection and control cabinet
3 Precise guiding of the shear slider with replaceable guidings assure an exact gap setting (view into the discharge)
4 Top view into the press box with pre-compactor and shear blade slider

ZDAS

Applications

The container shears are particularly suitable:

- for the operation on scrap yards without power supply;
- as additional shear to cover production peeks with existing stationary shears;
- as feasible alternative to larger guillotine shears, by running 2 container shears in parallel with one material handler;
- for separate processing of stainless steel, aluminium or cooper alloys without being polluted with steel scrap from larger shears;
- for processing of scrap at demolition works;
- for processing of impurities in commercial waste, which can not being processed in shredders;
- for shearing of robes, cables, etc.;
- for shearing of plastic profiles before shredder installations;
- for shearing of car bodies.



Outer dimensions container shear CNS 400K, incl. feed bin

Put us to the test!

KLANN provides with its competent service team, several service vehicles and a comprehensive spare parts warehouse in Schwerte/Germany a short reaction time for maintenance and repairs to the container shears world wide.

We also offer this service for other scrap processing machines.

Further information and a video about the container shear are available on the Internet at *www.containershear.com*

KLANN

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