



The horizontal shredders of the WLH series
BIBER, TIGER and LEOPARD

clever shredding + briquetting

The shredder with angled infeed: **WLH BIBER 400**



The shredders in the BIBER series are designed for disposing of long timber waste directly next to processing machines.

The material to be shredded is fed into a feed channel with the same width as the shredding machine. Material intake is assisted by infeed rollers which transport the material to the rotor. Material infeed operates according to load, i.e. if the shredding roller is consuming too much power, the feed system switches off automatically until the material in the system has been shredded. This procedure is repeated as long as necessary until the parts are shredded. The size of the chips is determined by a screen positioned around the rotor.



BIBER connected to panel dividing saw



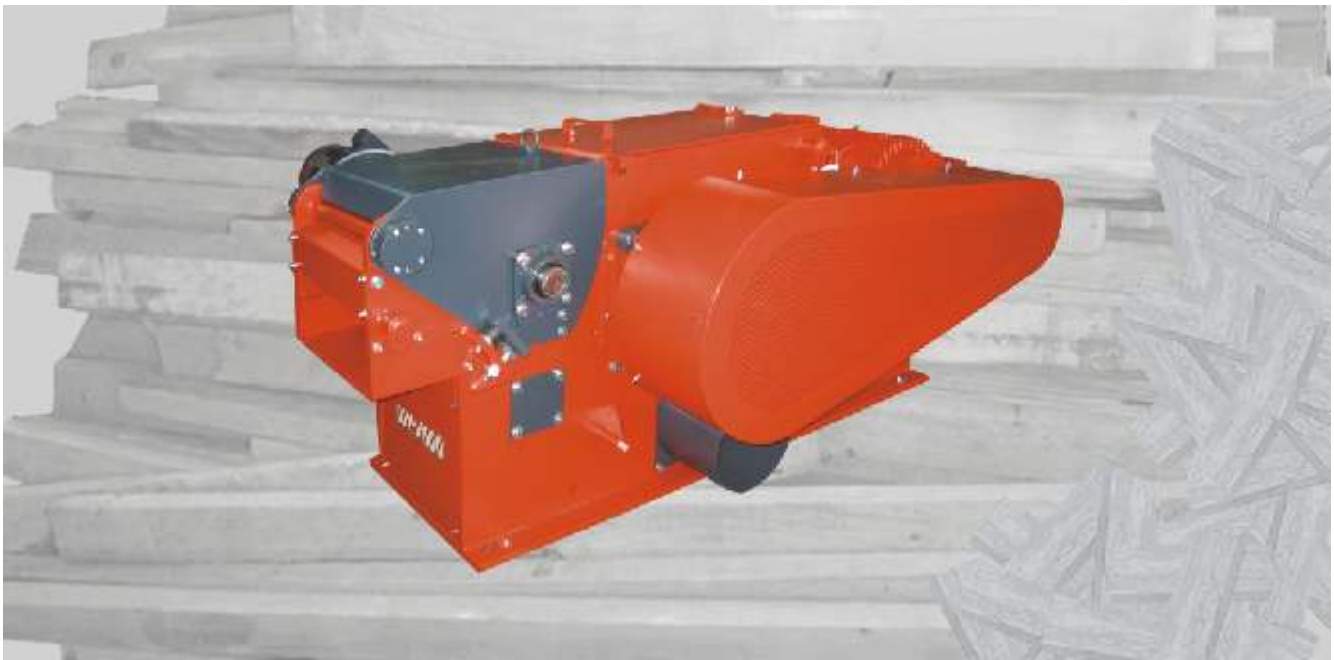
BIBER connected to multi-blade saw



BIBER as stand-alone machine

Horizontal shredder: for special areas of application

Horizontal shredder with roller infeed: WLH TIGER 400 - WLH TIGER 1000



The shredders of the WLH TIGER series are used for shredding long and short timber waste. All types of timber materials can be turned in to woodchips.



TIGER 600 S with vibrating chute

The material to be shredded is fed into a vibrating chute with the same width as the shredding machine and fed into the horizontal shredder. Material intake is assisted by infeed rollers which transport the material to the rotor.

The Jumbo rotor design, Ø 482 mm, is available for very high throughput rates. These allow much more material to be shredded in the same space.

The horizontal shredders are used in sawmill and long strip wood-processing workshops. The low rotational speed ensures that noise levels are kept to a minimum. This makes it possible to use them directly at or beneath processing machines. Used specifically for processing chipboard and solid timber. The material is fed into a vibrating chute of adjustable length.



TIGER 800 S in use



Timber waste for shredding, long and short material

Horizontal Shredder Series WLH: highly versatile

Horizontal shredder with chain link infeed: **WLH LEOPARD 400 - WLH LEOPARD 1000**



Shredders of the LEOPARD series are designed specially for shredding long and short timber waste as well as chipboards, strips and packages.

The material to be shredded is fed into a vibrating chute with the same width as the shredding machine and fed into the horizontal shredder. The chain belts grasp the stack of material, press it together (frictional locking) and feed it into the rotor. Material infeed operates according to load. The Jumbo rotor design, Ø 482 mm, is available for very high throughput requirement rates.



The special chain link infeed even allows the material to be fed into the rotor in packages.



LEOPARD in a pit connected directly to a panel dividing saw

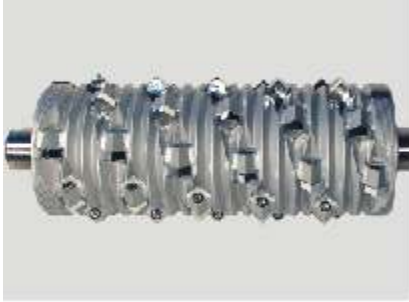


Chain link infeed for timber waste and chipboard stacks



Form-fit with chain link infeed

Technical Details of the Horizontal Shredders: **Series WLH**



The advantages of the V rotor:

- variable knife projection
- reduced gap between rotor and counterknife
- aggressive knife contact through concave reversible knives
- optimum cutting geometry with V rotor
- homogenous shredding results without striation
- segmented counterknives
- rotor shaft made of solid steel and tempered, bolted shaft pins

The optimum configuration of the V rotor increases throughput, reduces energy consumption, reduces the thermal load and minimizes wear and tear.



Concave reversible knives:

Made of HSS, HH and annealed steel, universally applicable and extremely resilient for the most varied applications.



The shredded material is fed out through the screen connected to the rotor. Variable screen hole diameter setting (10 - 60 mm) determines the required size of wood chip.



V-rotor, Ø 368 mm



Broaching knife, at side of rotor



Infeed roller, top, TIGER



Infeed roller, bottom, TIGER



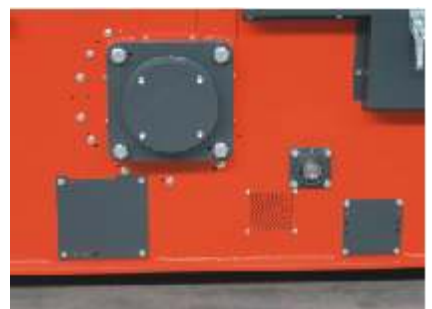
Chain link infeed, top, LEOPARD



Chain link infeed, top, LEOPARD



Extra short machine design



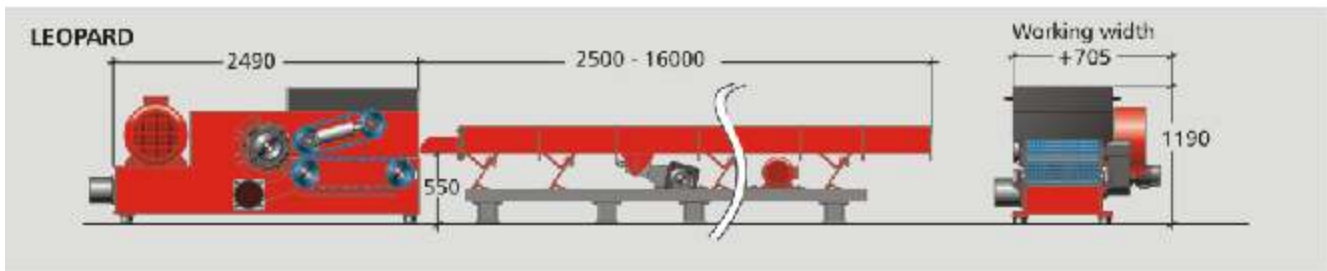
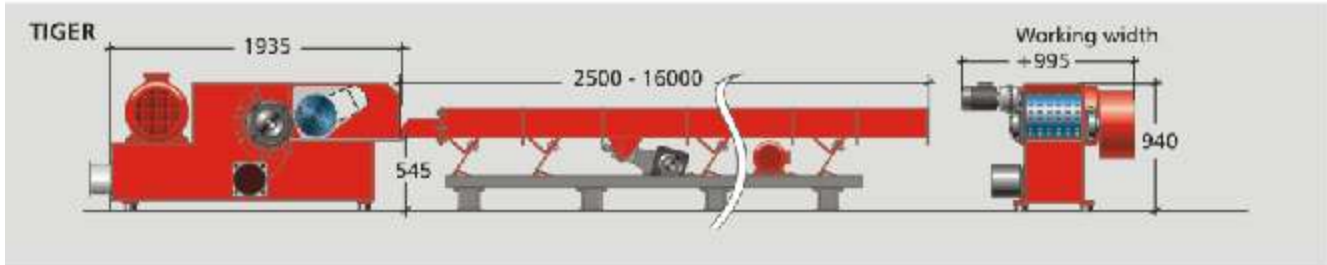
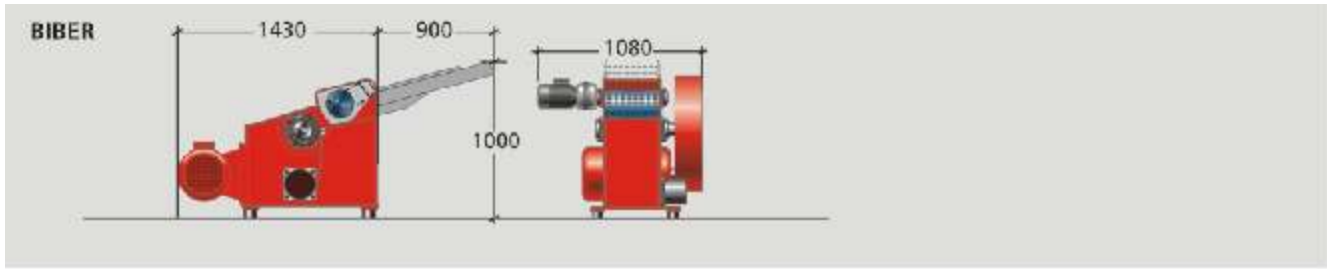
Rotor bearing, closed



Extra short machine design



Transition to vibrating chute



Other sizes and designs available! Details of sizes on request.

(All dimensions in mm)

| Technical Data | BIBER 400 | TIGER 400 | TIGER 600 | TIGER 800 | TIGER 1000 | LEOPARD 400 | LEOPARD 600 | LEOPARD 800 | LEOPARD 1000 |
|----------------------|-----------|-----------|-----------|-----------|------------|-------------|-------------|-------------|--------------|
| Hopper opening (mm): | 350 | 400 | 600 | 800 | 1000 | 400 | 600 | 800 | 1000 |
| Throughput (kg/h)*: | 600 | 1.800 | 2.300 | 3.000 | 3.500 | 1.800 | 2.300 | 3.000 | 3.500 |
| Rotor diameter: | 252 | 368** | 368** | 368** | 368** | 368** | 368** | 368** | 368** |
| Power (kW): | 15/18,5 | 22/30/37 | 22/30/37 | 30/37/45 | 30/37/45 | 22/30/37 | 22/30/37 | 30/37/45 | 30/37/45 |
| Tools (Pieces): | 18 | 22 | 32 | 44 | 56 | 22 | 32 | 44 | 56 |
| Screen size (mm): | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 | 10 - 100 |
| Connection-Ø (mm): | 200 | 250/300 | 250/300 | 250/300 | 250/300 | 250/300 | 250/300 | 250/300 | 250/300 |
| Weight approx. (kg): | 1.000 | 1.600 | 2.100 | 2.600 | 3.500 | 1.800 | 2.400 | 3.000 | 4.000 |

* approx / for screen sizes 20 mm / depending on material; ** Ø 482 also available

Demonstrations and tests with your material possible in our engineering centre on request.

WEIMA Maschinenbau GmbH

Bustadt 6-10
74360 Ilsfeld (Germany)
Phone: +49-(0)70 62-95 70-0
Fax: +49-(0)70 62-95 70-92
info@weima.com
www.weima.com

Sales Offices in

United Kingdom, Kent
France, La Ferté s/s Jouarre
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