

# Universal horizontal shredder

## for special areas of application



Highly  
versatile

## The horizontal shredders of the WLH series

### BIBER, TIGER and LEOPARD

The WLH 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.

## Horizontal shredder

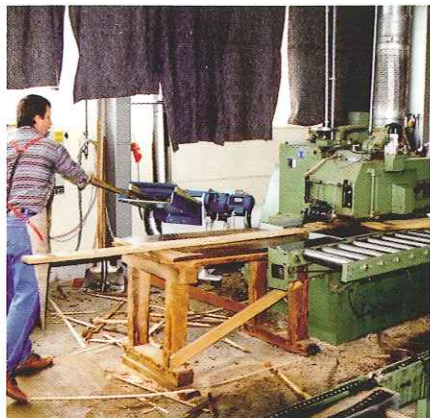
WLH BIBER 400

### BIBER: The shredder with angled infeed



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 multi-blade saw

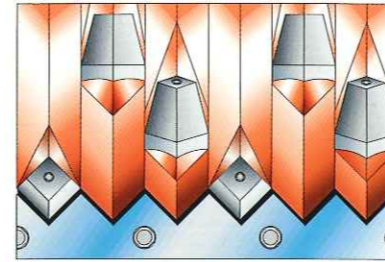


BIBER connected to panel dividing saw



BIBER as stand-alone machine

### The system of the BIBER, TIGER, LEOPARD series



#### Patented V-rotor

- Optimum material intake
- Minimum cutting knife wear
- Low power consumption / high output
- Narrow cutting gap between rotor and counter-knife
- Defined knife projection

The profiled V-rotor is machined in one piece and mounted in sturdy rotor bearings. Special knife holders are welded into milled knife pockets around its circumference.

The cutting knives are inserted into these and screwed in place from behind. As a result, high-speed knife changing is possible because the design prevents the screw heads from being damaged during shredding. The concave cutting knives can be turned four times and guarantee a precision cut at high throughput rates.



The shredded material is fed out through the screen connected to the rotor. Variable screen hole diameter setting (10 - 100 mm) determines the required size of wood chip.



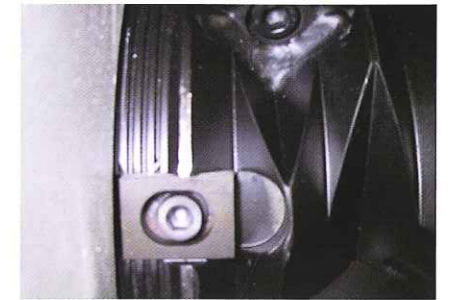
Size Reduction Technology

### Technical Details

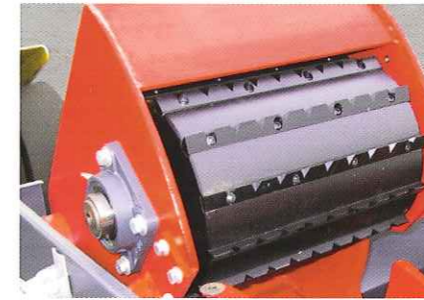
The WLH BIBER, TIGER and LEOPARD series



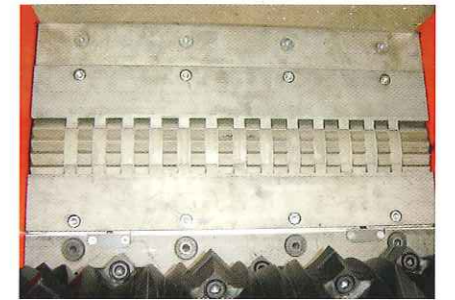
V-rotor, Ø 368 mm



Broaching knife, at side of rotor



Infeed roller, top, TIGER



Infeed roller, bottom, TIGER



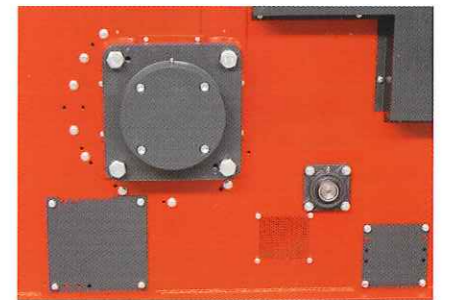
Chain link infeed, top, LEOPARD



Chain link infeed, bottom, LEOPARD



Extra short machine design



Rotor bearing, closed



Vibrating chute, electrical drive

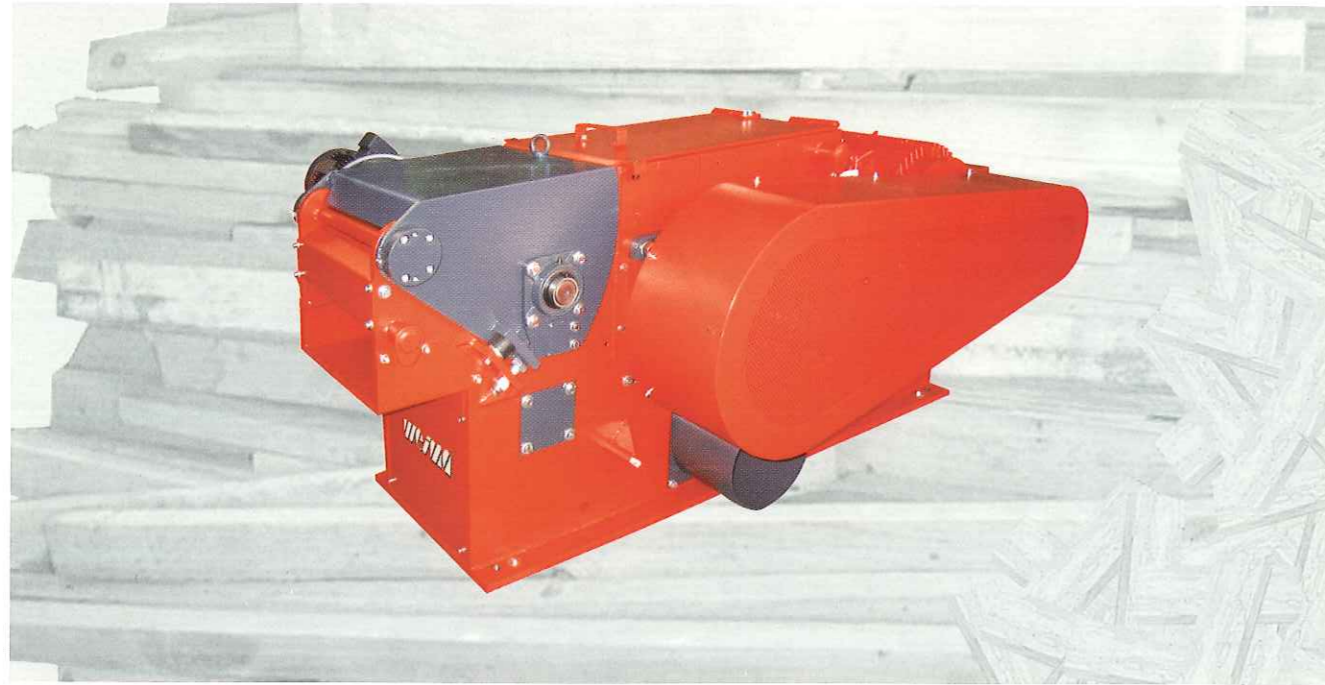


Transition to vibrating chute

## Horizontal shredder

WLH TIGER 400 S – WLH TIGER 1000 S

### TIGER: Horizontal shredder with roller infeed



TIGER 600 S with vibrating chute



TIGER 800 S in use

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.

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 requirement rates. These allow much more material to be shredded in the same space.



Timber waste for shredding, long and short material

## Horizontal shredder

WLH LEOPARD 400 S – WLH LEOPARD 1000 S

### LEOPARD: Horizontal shredder with chain link infeed



LEOPARD in a pit connected directly to a panel dividing saw



Chain link infeed for timber waste and chipboard stacks

Shredders of the LEOPARD series are designed specially for shredding long and short timber waste as well as chipboards, strips and packages. The special chain link infeed even allows the material to be fed into the rotor in 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.

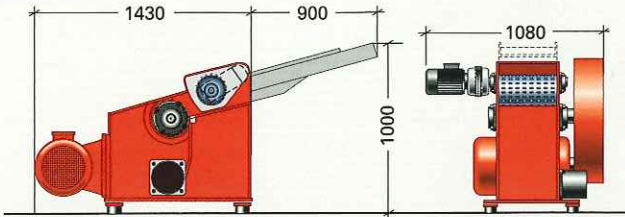


Form-fit with chain link infeed

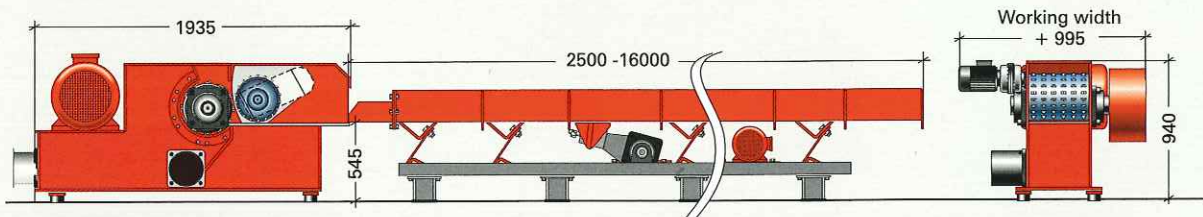
**Technical Details**

**The WLH BIBER, TIGER and LEOPARD series**

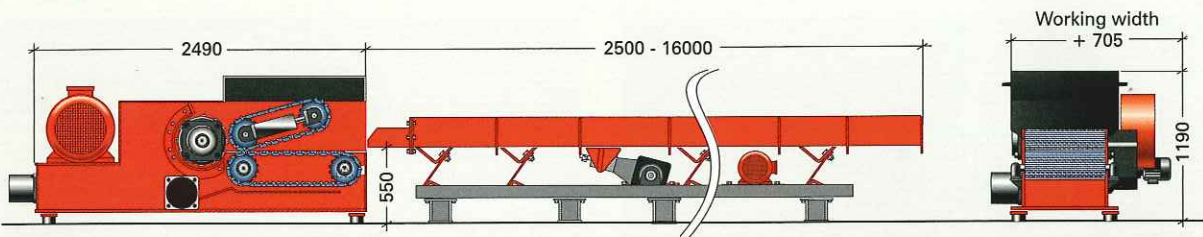
**BIBER**



**TIGER**



**LEOPARD**



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

(All dimensions in mm)

Type	BIBER 400	TIGER 400 S	TIGER 600 S	TIGER 800 S	TIGER 1000 S	LEOPARD 400 S	LEOPARD 600 S	LEOPARD 800 S	LEOPARD 1000 S
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 (mm):	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	30	42	52	22	30	42	52
Screen size (mm):	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100	10 - 100
Connection-Ø (mm):	160	200	200	200	200	200	200	200	200
Weight approx. (kg):	1,000	1,600	2,100	2,600	3,500	1,800	2,400	3,000	4,000

\* 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**

Gewerbegebiet Bustadt

D-74360 Ilsfeld (Germany)

Phone: +49 (0) 70 62 / 95 70-0

Fax: +49 (0) 70 62 / 95 70-92

E-Mail: [info@weima.com](mailto:info@weima.com)

Internet: [www.weima.com](http://www.weima.com)



**WEIMA Maschinenbau GmbH**

with locations in:

Austria, Ternberg

Great Britain, Northants

France, La Ferté sous Jouarre

USA, WEIMA America Inc.