UNTHA

shredding technology

The reliable brand!

VR SERIES

VR60, VR80, VR100, VR120, VR140, VR160

RELIABLE SHREDDING TECHNOLOGY FOR SMOOTH OPERATIONS

The VR series of powerful single-shaft shredders are engineered to handle a wide range of shredding applications. The innovative VR shredders were developed in close cooperation with experienced industrial operators, creating a new generation of single-shaft shredders to meet your present and future needs.

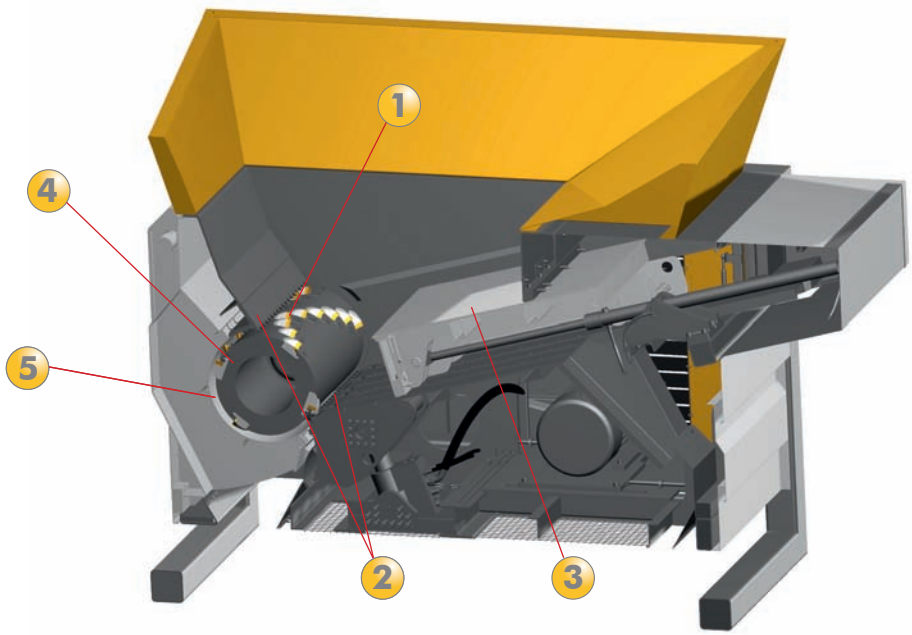
The robust cutting system, revolutionary drive and maintenance-free ram, along with the rugged, operator friendly design are just a few of the VR's outstanding features.

The VR series' outstanding reliability ensures consistently high throughput even under the most difficult conditions. They are truly in a league of their own.

For more information please refer to the "Individual Shredding Solutions" and "Solutions for the Shredding of Timber" brochures.

FUNCTION AND DESIGN

The large diameter rotor (4) and slanted cutting chamber bottom ensure high and consistent throughput, as the replaceable indexable cutters (1) easily grab material and shred it against the static cutting bars (2). Material feed is augmented by the load-controlled hydraulic ram (3). Final particle size is determined by the perforated screen (5).



TYPICAL APPLICATIONS

• Lumber yard waste • Wood pallets • C & D wood • Plastic film • Plastic packaging • Lumps of plastic • Paper rolls • Newspapers • Files and data • Production waste • Gypsum plasterboard • Packaging material • etc.

QUALITY FEATURES

Rugged and economical cutting system

- Replaceable indexable cutter holders (A)
- Multiple indexable cutter designs available
- Multiple use indexable cutters and cutting bars
- Threadless indexable cutters reduce breakage

Continuous and efficient material feeding

- Large hopper opening and exceptional ram height (400 mm) effectively avoids bridging of bulky material
- Slanted cutting chamber bottom, the industry's largest diameter rotor in its class (700 mm) and cutter position automatically draw material into cutting area

Rugged, operator friendly design

- Sectional tubular steel frame resists warping (B)
- Compact design, small footprint
- Ribbed screen access door for (C) exceptional torsional stiffness and long life
- Integrated stand provides discharge conveyor clearance
- Large hopper allows easy loading with a front end loader
- Sized for over the road transportation without special permits

Trouble-free ram system

- Negligible wear and tear on roller-guided ram system (D)
- Self-adjusting sealing strips
- Quick-clean system with integrated dust ejection module

Simple, intuitive operation

- Integrated 5.6" touch screen controls (E) and high resolution colour display with user friendly, menu driven navigation
- Remotely located SRC1) control panel enhances operator safety

Revolutionary drive system

- Stubless shaft with gearbox integrated into rotor (F)
- Heavy duty drive originating from the mining and road construction industry

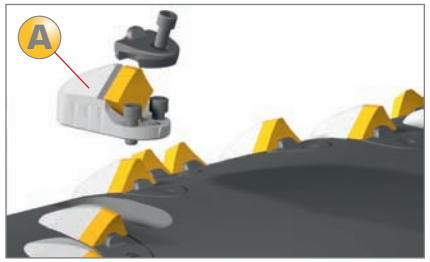
Ease of maintenance

- Easy access (no tools required) to all components
- Hydraulic door provides access to screen, rotor and cutting system
- Quick and simple replacement of wear parts
- No service platform required
- Long maintenance intervals

Options

- Hydraulic cutting system protection (G)
- Variable frequency drive (VFD) speed control for adjustable throughput and reduction of start-up peaks
- State of the art SRCE2) control panel with 15" colour touch screen with advanced control and monitoring features.
- Automatic central lubrication system
- "UNTHA Carefree package"

1) Safety remote control
2) Safety remote control (expert)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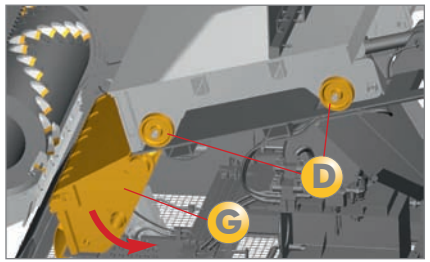
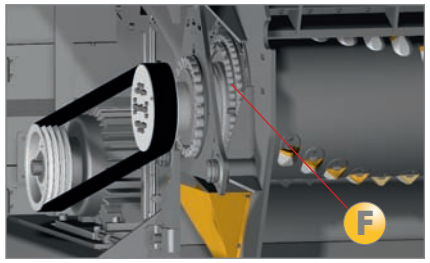

D
G

UNTHA
E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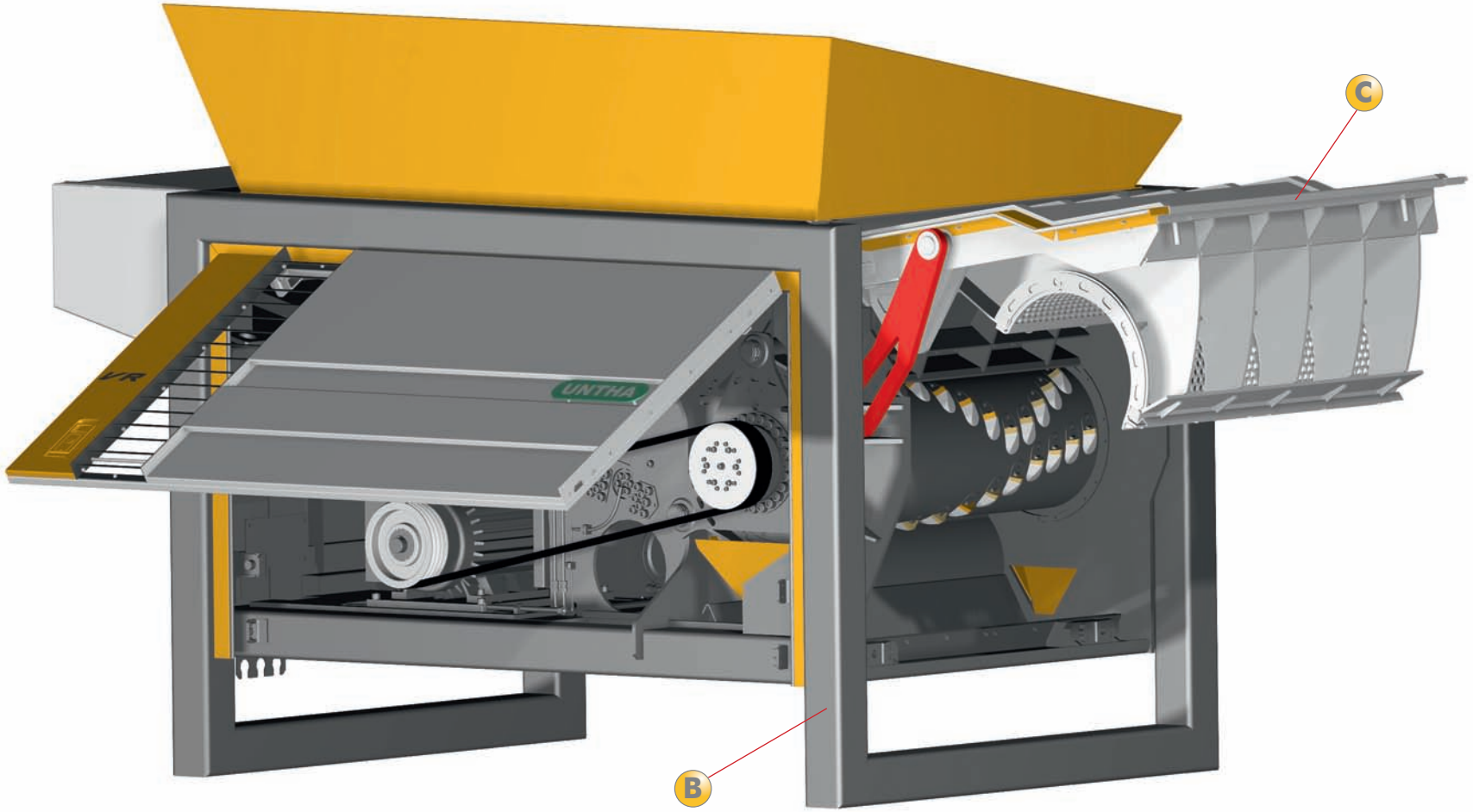

C
UNTHA
B

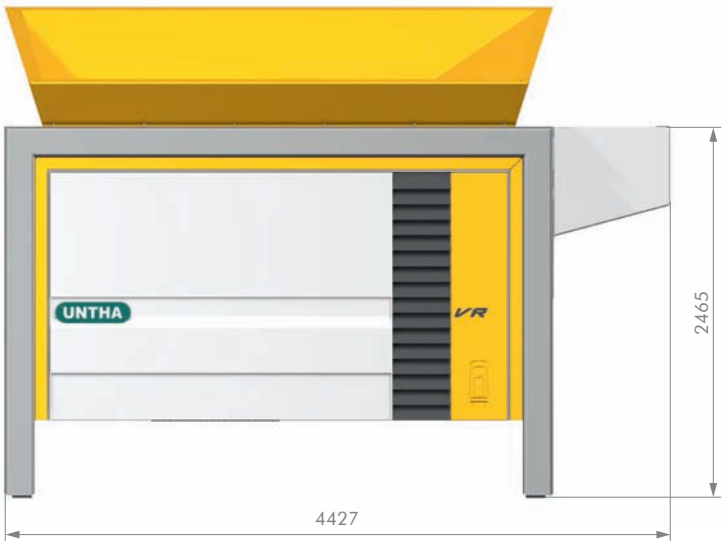
VR SERIES

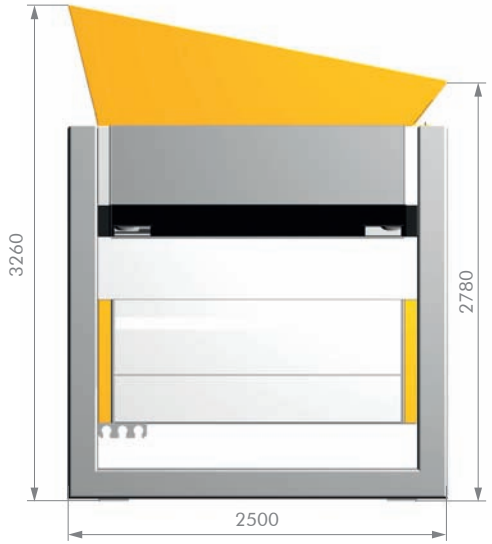
Single-shaft shredding system

TECHNICAL DATA		VR60	VR80	VR100	VR120	VR140	VR160
Power	kW	55	75	90	110	132	160
Charging hole	mm	3,120 x 2,280	3,120 x 2,280	3,120 x 2,280	3,120 x 2,280	3,120 x 2,280	3,120 x 2,280
Hydraulic power	kW	7.5	7.5	7.5	7.5	7.5	7.5
Rotor Ø	mm	700	700	700	700	700	700
Rotorspeed	rpm	86	86	95	95	105	105
Perforated screen Ø	mm	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100	15 - 100
Width of indexable inserts	mm	40 x 40/60 x 60	40 x 40/60 x 60	40 x 40/60 x 60	40 x 40/60 x 60	40 x 40/60 x 60	40 x 40/60 x 60
No. of indexable inserts	units	29 - 94	29 - 94	58 - 141	58 - 141	87 - 188	87 - 188
Weight	kg	ca. 14,000	ca. 14,000	ca. 14,000	ca. 15,000	ca. 15,000	ca. 15,000
Throughput*	kg/h	1,000 - 6,000	2,000 - 7,000	3,000 - 7,000	3,000 - 8,000	4,000 - 9,000	4,000 - 10,000

*) depending on: quality of material and diameter of perforated screen

All dimensions in mm.





40 years of expertise
More than 8,000 shredders
in daily operation!

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