



RUBUST 

SHREDDERS

speed • power • performance



SHREDDERS ROBUST

speed-power-performance!

At Robust, we produce and sell shredders of wood, wood waste and scrap, pallets, plastics and similar materials under the registered trade mark ROBUST. The shredders use hardened cutting knives on a rotor to tear and crush the material pushed towards the rotor by the hydraulic pressure unit. Granulation of the output material depends on the size of openings in the sieve installed behind the rotor.

INNOVATIVE SOLUTIONS

We received the 2012 Innovator of the Year Recognition from the region Spodnja Savinjska dolina for our "segment rotor for universal wood waste and pallets shredder". In addition, our shredder is registered as a model on the European market – under no. 002165837-0001.

EASY MAINTENANCE

All vital parts of the Robust shredder are completely protected with easily removable lids that enable quick and easy access.

PLUG & PLAY

An intelligent control system enables completely automatic operation of the Robust Universal shredder and its simple upgrades to the highly productive lines that allow efficient processing and use of diverse materials, waste and scrap.

12 MONTHS WARRANTY AND SERVICE

All ROBUST shredders are made at our registered place of business in Arja vas, and have 12 months warranty with optional renewal. We provide all services, necessary spare parts and additional equipment for our ROBUST shredders on the territory of European Union and wider.

HIGH QUALITY

Vital parts of THE shredder are made from high performance material such as HARDOX.

SAFETY AND RELIABILITY

The ROBUST Shredders are constructed in accordance with EU standards and meet all safety and health requirements of Directive 2006/42/EC, the Machinery Safety Rules (Official Gazette of the Republic of Slovenia, No. 75/08), Directive 73/23/EEC and the Rules on electrical equipment designed for use within certain voltage limits (Official Gazette of the Republic of Slovenia, No. 27/04). They are known for their safety at work. Since we provide complete final control of each shredder, we ensure their reliability; also, each crusher is set to optimal functional and safe operation.



ROBUST



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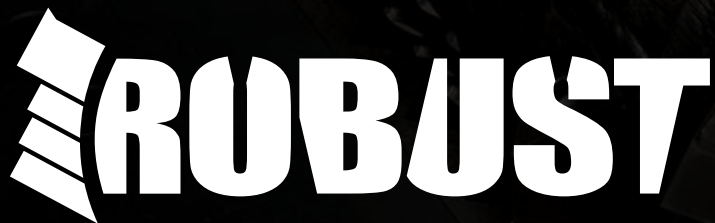


POWER OF SHREDDING



ROBUST SD 90 + P130





ONE SHAFT SHREDDERS

THE ADVANTAGES FOR YOU

Universal use (diverse wood, pallets with nails and pins, particle boards, waste and scraps, veneer, MDF plates, cardboard boxes, plastics, textile etc.);

- Completely automatic operation
- Quiet and compact reduction gear with an extended service life
- The engine start-up is controlled by the star/triangle system
- The entire hydraulic system is protected in the crusher housing
- The robust and adjustable double row bearings with an extended service life are placed away from the housing
- The hardened knives with four cutting edges with an extended service life
- The cutting racks with two cutting edges with an extended service life
- The crushing unit without any mechanical obstacles that could cause stopping
- The HARDOX sieve
- Simple installation, plug-in and start-up
- Economic use of energy
- Extremely quiet operation
- Simple and minimum maintenance



ROBUST SD 60

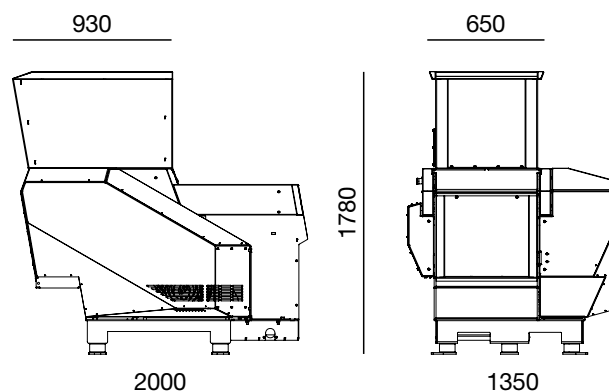
THE ADVANTAGES FOR YOU

- BOVER_BASIC intelligent control system
- Power set (electric motor, reduction gear and belt transmission)
- Filling hopper
- Hydraulic pressure unit
- Robust and adjustable double row bearings
- Hardened knives with four cutting edges with an extended service life
- Hardened cleaning knives
- Cutting racks with two cutting edges
- Anti-vibration dampeners that can be fixed to the floor
- Powder coated construction

BASIC CHARACTERISTICS

FILLING HOLE (mm):	930 × 650
ROTOR WORKING LENGTH (mm):	650
ROTOR DIAMETER (mm):	270
PRODUCTION (m³):	3 - 5*
POWER (kW):	15 / 18.5 / 22
WEIGHT(kg):	1555

* Depending on the material and diameter of openings in the sieve.





ROBUST SD 90

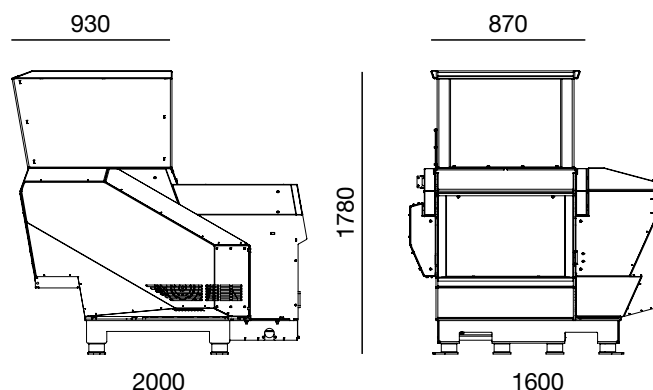
THE ADVANTAGES FOR YOU

- BOVER_BASIC intelligent control system
 - Power set (electric motor, reduction gear and belt transmission)
 - Filling hopper
 - Hydraulic pressure unit
 - Robust and adjustable double row bearings
 - Hardened knives with four cutting edges with an extended service life
 - Hardened cleaning knives
 - Cutting racks with two cutting edges
 - Anti-vibration dampeners that can be fixed to the floor
 - Powder coated construction
 - **UPGRADE to BOVER PREMIUM intelligent control system***
 - **UPGRADE with BIGGER FILLING HOPPER***
 - **UPGRADE with PRE-SHREDDER P130***
- *optional

BASIC CHARACTERISTICS

FILLING HOLE (mm):	930 × 870
ROTOR WORKING LENGTH (mm):	870
ROTOR DIAMETER (mm):	270
PRODUCTION (m³):	4 - 7*
POWER (kW):	18.5 / 22
WEIGHT(kg):	1860

* Depending on the material and diameter of openings in the sieve.





ROBUST SD 90XL

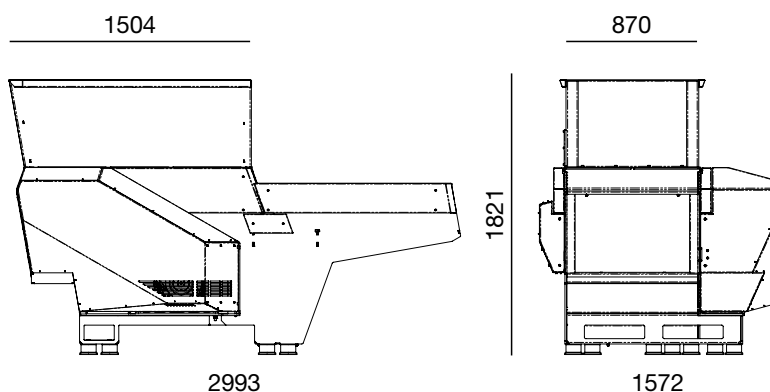
THE ADVANTAGES FOR YOU

- BOVER_BASIC intelligent control system
 - Power set (electric motor, reduction gear and belt transmission)
 - Filling hopper
 - Hydraulic pressure unit
 - Robust and adjustable double row bearings
 - Hardened knives with four cutting edges with an extended service life
 - Hardened cleaning knives
 - Cutting racks with two cutting edges
 - Anti-vibration dampeners that can be fixed to the floor
 - Powder coated construction
 - **UPGRADE to BOVER PREMIUM intelligent control system***
 - **UPGRADE with BIGGER FILLING HOPPER***
 - **UPGRADE with PRE-SHREDDER P130***
- *optional

BASIC CHARACTERISTICS

FILLING HOLE (mm):	1504 × 870
ROTOR WORKING LENGTH (mm):	870
ROTOR DIAMETER (mm):	270
PRODUCTION (m³):	5 - 8*
POWER (kW):	18.5 / 22 / 30
WEIGHT(kg):	2100

* Depending on the material and diameter of openings in the sieve.



TWO SHAFT SHREDDER

Two shaft shredders with high quality cutters and low rotation speed for a lower energy consumption and maximum productivity. Perfect shape and design for shredding wood pallets, plastic, Styrofoam or similar materials, that have a lot of empty spaces.



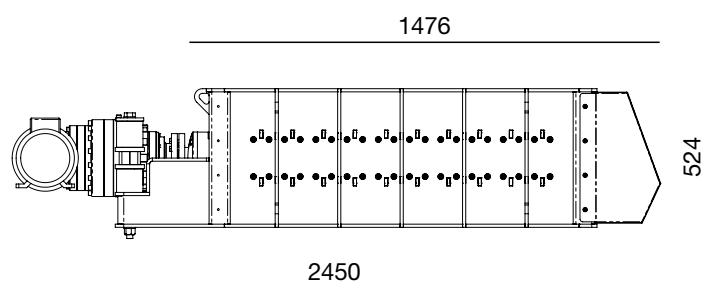
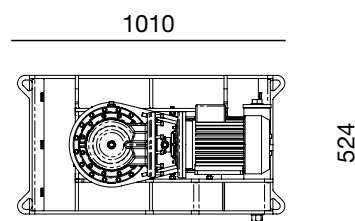
PRE-SHREDDER P130

THE ADVANTAGES FOR YOU

- Adjustable numbers and forms of knives
- Independent drive
- Freestanding or combine with Shredder (SD 90, SD 90XL)
- Low operating costs
- HARDOX knives

BASIC CHARACTERISTICS

FILLING HOLE (mm):	1300 x 800
ROTOR WORKING LENGTH (mm):	1300
ROTOR DIAMETER (mm):	430
POWER (kW):	4 - 7
WEIGHT(kg):	1020



EXAMPLES OF MATERIALS AND GRANULES

The crushed material of the desired granulation comes through the openings in a sieve made of HARDOX without stopping.

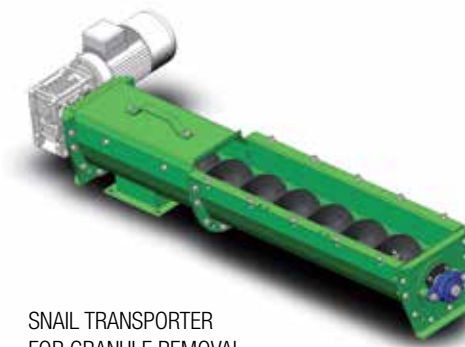


KEY ELEMENTS

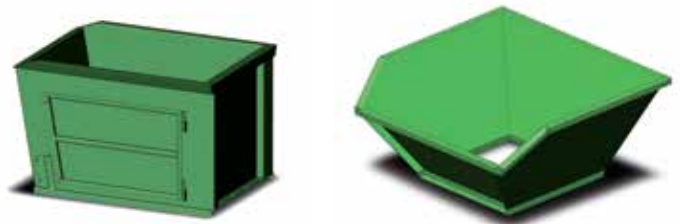


OPTIONAL AND ADDITIONAL EQUIPMENT

- Upgrade of the existing filling hopper (adjusted to the user's needs and desires)
- Trough to be attached to the suction system
- Snail transporter for granule removal
- Conveyor belt for granule removal
- Overbelt electromagnetic separator
- Sieve to change the output granulation of material
- **the BOVER_PREMIUM intelligent TOUCH SCREEN control system, which includes additional options of operation and possibility to supports consumer through ON-LINE connection**
- Secondary HARDOX cutting rack above the rotor
- Adjustable sieve racks
- Pressure unit rack







SNAIL TRANSPORTER
FOR GRANULE REMOVAL



UPGRADE OF THE EXISTING FILLING HOPPER (ADJUSTED
TO THE USER'S NEEDS AND DESIRES)

TECHNICAL DATA

				
	SD 60	SD 90	SD 90XL	P130
Rotor diameter (mm)	270	270	270	430
Rotor working length (mm)	650	870	870	1300
Number of rotor turns/minute	80 – 120	80 – 120	80 – 120	to 10
Number of cutting knives	2 x 14	2 x 19	2 x 19	11**
Filling hole (mm)	930 x 650	930 x 870	1600 x 870	1300 x 800
Volume of the input funnel (m³)	0.7	0.8	1	-**
Diameter of the openings in the sieve (mm)	10 – 50	10 – 50	10 – 50	-
Engine power (kW)	15 / 18.5 / 22	18.5 / 22	18.5 / 22 / 30	4 to 7
Voltage (V)	400	400	400	400
Frequency (Hz)	50	50	50	50
Security (A)	32 / 50 / 63	63 / 80	80 / 100	16 to 32
Dimensions L x W x H (m)	2.00 x 1.35 x 1.78	2.00 x 1.60 x 1.78	3.00 x 1.60 x 1.78	2.48 x 0.92 x 0.54
Weight (kg)	1555	1860	2100	1200
Capacity (m³/h)*	3 – 5	4 – 7	5 – 8	-*

* Depending on the material and diameter of openings in the sieve.

** Modular



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