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THE 5444 SHEAR SHREDDER



The 5444 is a heavy-duty shear type shredder. The elements that are important for evaluation are the following:

- 406.4 mm center to center distance
- Dual drive, 100Hp powered by two 50Hp Siemens electric motors.
- 1400mm X 1100mm Opening
- Boneng Gearboxes
- SKF Bearings
- Shaft rotation speed: 11 RPM
- Blade thickness: 50mm
- Hopper
- Stand
- Total weight: 11 325 Kg

Specific details:

Materials: 2 types of steel are used in the fabrication of the shredder.

1- The frame, stand and hopper are made from ASTM A36 steel (also known as 1018 plate steel). These components are welded together, with the exception on the two housing halves. This allows maintenance crews to remove the complete shaft assemblies. You can see this feature in the following picture:



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2- The shafts, the blades and the spacers are made from ASTM 4140 HT quench and tempered steel for strength and durability.

Shaft: Hexagonal, 140mm flat to flat

Blades: 26 blades, 50mm thickness, 520mm diameter. 1 hook

Spacers: 26 spacers, 50mm thickness





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Proper cleaning finger design:

Our shredders, unlike most machines on the market today, have the cleaning fingers configuration that is designed to have a shearing action on the upstroke.

These fingers have precision machined wear segments that act as a shearing edge on the upstroke of the blades. So our dual shaft machines function exactly like a quad shaft shredder. They cut on the down stroke and on the upstroke.

These shredders are however much easier to maintain than a quad. The cleaning finger edges can be removed without taking the whole shredder apart. You simply need to remove the side wall to be able to access the wear segments.



The cleaning fingers are attached to the side wall of the shredder

Advantage:

When used without a screen, this design allows the spacers and the area between the blades to stay clean, allowing better shredding on a single pass.

When a screen is used, the dual shafted machine will act like a quad. Thus being able to produce a chip in a single machine.



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The maintenance advantage:

With 45 years of experience building large machines, we know that having a machine that is easy to maintain is very important. We have to not only considered the time it takes to maintain a machine, but also the cost of not having an essential piece of equipment running.

All of our machines have a split housing and removable sidewalls. As stated earlier, the removable sidewalls allow easy cleaning finger maintenance. On the other hand, the split housing allows maintenance crews to remove the whole shaft assembly.

This is a particularly important feature on our large models such as the 5444 and the 5444. It is very important to be able get the entire shaft assembly out of the machine so that it may be maintained closed to ground and away from the main machine or system. A feature like this one not only makes the maintenance quicker and cheaper, but also much safer.



This machines side walls and upper chamber assembly have been removed. The shafts can now be pulled out



Replaceable blade segments for single man maintenance on machines with blades that are 75mm and above

Gearboxes:

The gearboxes on the 5444 are a pair of Boneng model number: K167B-102-B3-0

- **input RPM: 1750**
- **Output RPM: 17**
- **Gearbox ratio: 102**
- **Output torque: 132,000Nm**
- **Gearbox weight: 1 036 Kg**

Motors:

The motors used on the 5444 are 2 Siemens motors with 37.25kW of power.

Bearings:

The 5444 uses a total of 4 SKF brand bearings. Bearings are 24034-CC-W33

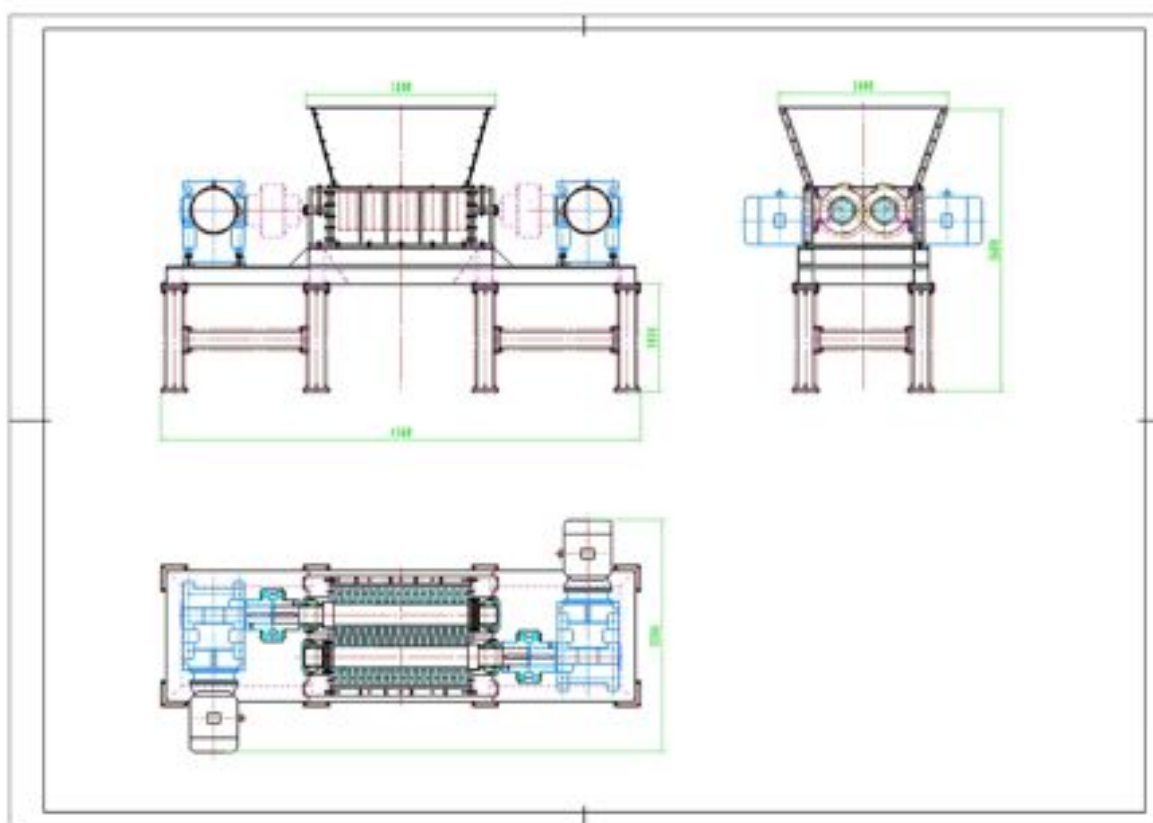




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Controls:

The 5444 is controlled by an electronic control panel that uses telemechanik components. It has an auto reversing function and a NEMA 4 enclosure.





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We are the Original Owners and Inventors of the Saturn Shredder, Eidal Shear Shredder and SSI International Shredder Lines. We are the Secondary Owner/Supplier of Eidal Vertical Shredder Lines, Duerr Wood Chipper, Tool Barn Wood Chipper, Techwood Wood Chipper, Cougar Wood Chipper and Machete Wood Chipper Lines. We provide Engineering, Parts and Service for all waste processing type shredding and processing equipment.

We are a Worldwide Manufacturing Group that offer Consultation, Turnkey Manufacturing Systems, Industrial Equipment, Environmental and Recycling Equipment, OEM/OE Production Systems and Parts, Contract Engineering Design and Consultation, Domestic and Worldwide Sales and Marketing Services, Domestic and International OEM/OE Manufacturing Services, Import and Export Consultation and Coordination Services, and Strategic Planning, Appraisal Services, Equipment Location Services, Acquisition and Liquidation Services, Product Liability Evaluation Services, Product Design Evaluation Services.

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