



## *"Reliable Shredding with Dual Shaft Solutions, MT Makina"*

### The CS-Series Twin Shaft Solid Waste Shredder for demanding shredding applications;

Industrial waste management is one of the biggest challenges facing modern societies. One of the technologies developed to meet this challenge is our twin-shaft shredders. CS-Series Twin-shaft shredders stand out as high-torque, durable and reliable machines designed for efficient and effective processing of various industrial and municipal waste.

The twin-shaft shredder provides efficient shredding of materials thanks to a combination of high torque and low speed. This allows the machine to efficiently process even tough and dense materials. The twin-shaft solid waste shredder offers high durability with robust blades and powerful motors. Our shredders can reliably process a variety of materials such as metals, plastics, tires and wood. The modular rotor and bearing design allows easy access to components inside the machine. This reduces operating costs by shortening maintenance and repair times. The robust and balanced structure minimizes vibrations, resulting in a quieter working environment. In addition, the low rotational speed minimizes dust emissions. Inverter-controlled motors

and auto-reversing features increase energy efficiency and optimize machine performance.

## CS-Series Double Shaft Solid Waste Shredder Machine advantages;

Your capacity to process different types of materials makes the twin-shaft shredding machine suitable for various industries. They can process numerous types of materials such as textile waste, plastic, wood, paper, medical waste and electronic waste. They ensure uninterrupted operation with long maintenance intervals, which reduces operating costs and increases productivity. Thanks to easily replaceable shredding blades, maintenance is carried out quickly and efficiently, ensuring uninterrupted operation. With high processing capacity and durability, our twin-shaft shredders increase operational efficiency and reduce downtime and maintenance costs. The twin-shaft solid waste shredder is equipped with safety features such as emergency stop buttons and protective coverings, ensuring operator safety. By facilitating effective waste reduction and recycling, the twin-shaft shredder promotes environmental sustainability.





### **Low Noise**

The robust and balanced structure minimizes vibrations for a quieter and more comfortable working environment.

### **Versatility**

The capacity to process different types of materials makes these machines suitable for various industries.

### **Long Maintenance Intervals**

It allows you to work uninterruptedly with long maintenance intervals.

### **Flexibility**

The capacity to process a wide range of materials makes these machines suitable for various industries.

### **Abrasion Resistant Blades**

It offers long-lasting shredding with blades made of high quality steel.

### **High Efficiency**

The twin-shaft shredders shred materials quickly and efficiently thanks to a combination of high torque and low speed.

### **Fast Blade Change**

It works without interruption with easily replaceable cutting blades.

### **Easy to Use**

The user-friendly control panel and simple design make the machine easy to operate.

### **Technical Specifications**

MODEL	SHREDDING AREA (MM)	ROTOR LENGTH (MM)	ENGINE POWER (KW)
CS-20	200 X 200	200	2,2-11
CS-40	400 X 400	400	5,5-22
CS-60	600 X 600	600	11-45 (2X)
CS-80	800 X 800	800	15-55 (2X)
CS-100	1000 X 1000	1000	22-90 (2X)
CS-120	1200 X 1200	1200	30-110 (2X)
CS-150	1500 X 1200	1500	45-132 (2X)
CS-180	1800 X 1500	1800	55-132 (2X)
CS-200	2000 X 1800	2000	75-200 (2X)



## Industrial CS-Series Double Shaft Solid Waste Shredders designed for continuous operation;

The CS-Series shredder plays a critical role in industrial waste management and recycling processes. With features such as high torque, robust construction and energy efficiency, it enables efficient processing of challenging materials. With long maintenance intervals and low operating costs, the twin-shaft shredder increases operational efficiency and promotes environmental sustainability. Thanks to their wide range of applications and versatility, the CS-Series shredder is an indispensable tool in industrial waste management.

Our twin-shaft shredders can be used to process industrial waste, allowing materials to be recycled and waste volumes to be reduced. Ideal for processing municipal waste, household waste and large volumes of waste. The CS-Series shredder ensures efficient processing and recycling of waste. It is used for shredding and preparing recyclable materials such as plastics, metals, wood and paper for the recycling process. It is ideal for processing and recycling waste generated in construction and demolition projects. The Twin Shaft shredding machine contributes to the recycling process by shredding materials such as concrete, wood and metal.





# CS-Series Dual Shaft Shredder

## Performance and Efficiency

### **Double Shaft Design**

The CS-Series has two main shafts that cut or grind materials. The shafts rotate at high torque and low speed, which allows materials to be shredded efficiently.

### **Energy Efficiency**

Highly energy efficient motors and systems lower operating costs and reduce environmental impact.

### **Long Lasting Blades**

High-quality steel blades are resistant to abrasion and ensure long-term use.

### **Flexibility**

Shredding knives and screen systems are easily interchangeable and adjustable, providing flexibility for different materials and applications.

### **Optional Features**

- Four Motor Design
- Belt Pulley Hydraulic Coupling
- Rotor Cooling System
- Automatic Lubrication Unit
- Hydraulic Press Unit

- Sieves in Different Sizes
- Bolt-on detachable blade design
- Hydromotor drive system
- Office and industrial chassis design
- Applications of Screws, Conveyors and Conveying Fans for Output

## FREQUENTLY ASKED QUESTIONS (FAQ)

### FREQUENTLY ASKED QUESTIONS

#### **WHAT IS THE DESIGN OF A DOUBLE SHAFT SHREDDING MACHINE?**

The twin-shaft shredder is a machine that shreds various materials with blades placed on two parallel rotating shafts. Thanks to the combination of high torque and low speed, it efficiently handles difficult materials.

#### **WHAT MATERIALS CAN THE DOUBLE SHAFT SHREDDING MACHINE PROCESS?**

It can process a wide range of materials such as plastic, metal, rubber, wood, paper, textiles, electronic waste, construction and demolition waste.

#### **IN WHICH INDUSTRIES IS THE DOUBLE SHAFT SHREDDING MACHINE USED?**

It is used in various industries such as recycling plants, waste management, construction and demolition projects, municipal waste processing plants and industrial waste management.

#### **HOW DOES A DOUBLE SHAFT SHREDDING MACHINE WORK?**

The materials are gripped and pulled by blades on a double shaft. As the blades cut the materials, the machine operates at high torque and low speed, ensuring that the materials are processed efficiently.

#### **WHAT ARE THE MAINTENANCE REQUIREMENTS OF THE DOUBLE SHAFT SHREDDER?**

Low maintenance requirements with long maintenance intervals. Blades and other components must be regularly checked and maintained. Automatic lubrication units and hydraulic opening screen systems reduce maintenance time and costs.





### **CAN A DOUBLE SHAFT SHREDDING MACHINE BE CUSTOMIZED?**

Yes, the machine can be customized with various blade configurations and sizes to suit specific industry requirements and material types.

### **WHAT IS THE CAPACITY RANGE OF THE DOUBLE SHAFT SHREDDING MACHINE?**

The capacity range varies depending on the model. They are available in various capacities from small-scale operations to large-scale industrial applications.

### **HOW TO ENSURE ENERGY EFFICIENCY OF THE DOUBLE SHAFT SHREDDING MACHINE?**

Inverter-controlled motors and automatic reversing features improve energy efficiency and optimize the machine's performance. This ensures high productivity while reducing energy consumption.

### **DOES THE DOUBLE SHAFT SHREDDER HAVE SAFETY FEATURES?**

Yes, the twin-shaft shredders are equipped with safety measures such as emergency stop buttons, protective coatings and automatic reversing features.

### **HOW DOES THE DOUBLE SHAFT SHREDDER SUPPORT ENVIRONMENTAL SUSTAINABILITY?**

By facilitating effective waste reduction and recycling, twin-shaft shredders promote environmental sustainability. Efficient waste handling reduces waste volumes and improves recycling processes.

### **WHAT IS THE MODULAR DESIGN OF THE DOUBLE SHAFT SHREDDING MACHINE?**

The modular design allows easy access to components inside the machine and reduces maintenance and repair times. This reduces operating costs and extends the lifetime of the machine.

### **WHAT ARE THE AUTOMATIC FUNCTIONS OF THE DOUBLE SHAFT SHREDDING MACHINE?**

Automated functions such as automatic reversing, power shutdown and lubrication systems increase machine efficiency and minimize user intervention.

### **WHAT ARE THE FEATURES OF THE KNIVES USED IN THE DOUBLE SHAFT SHREDDING MACHINE?**

Made of high quality steel, the blades are abrasion resistant and have a long service life. The blades are easily interchangeable and offer suitable configurations for different materials.

### **CAN A DOUBLE SHAFT SHREDDING MACHINE PROCESS MIXED WASTE?**

Yes, twin-shaft shredding machines can process mixed waste and efficiently shred various types of materials. This offers a versatile solution for waste management challenges.