



"Shred Textile Wastes, Reuse them!"

Make a Difference in Waste Management with Textile Shredding

The textile sector is an industry that generates millions of tons of waste worldwide every year. The fast cycle of the fashion industry and consumer habits cause textile waste to accumulate rapidly. Failure to properly recycle this waste has serious negative impacts on the environment. Effective management and recycling of textile waste is crucial for a sustainable future. Textile shredding units are at the center of this process.

The textile shredding unit is a system that makes textile waste suitable for recycling. This unit consists of twin-shaft and single-shaft shredding machines. The twin-shaft machines pre-shred large textile waste into smaller pieces. These pre-shredded materials are then processed in single-shaft machines to bring them to suitable sizes for incineration plants or recycling processes.

Double Shaft Pre-shredder

Twin-shaft textile shredding machines pre-shred textile waste in the first stage. With their powerful motors and durable blades, these machines work at high torque and low speed to effectively shred textile materials. They can process different types of textile materials such as cotton, polyester, wool and denim. It is long-lasting with its blades made of high quality steel and robust structure. It accelerates the recycling process by shredding large volumes of textile waste in a short time.

Single Shaft Shredding Machine

Pre-shredded textile wastes are cut into smaller pieces by single-shaft shredding machines. These machines reduce the pre-shredded textile waste into smaller pieces. They process the materials precisely with knives on a single shaft. The textile waste shredded at this stage is made ready for energy production or other recycling processes in incineration plants.

Advantages and Application Areas of Textile Shredding Unit

By reusing textile waste, it contributes to the conservation of natural resources and reduces environmental pollution. Textile shredding units increase the efficiency of recycling plants by optimizing waste management processes. Proper processing and recycling of textile waste minimizes the negative impact on the environment. The energy efficiency of the machines saves energy in the recycling process.

Shredding and reprocessing of production waste, scrap fabrics and unused textile products. Recycling of surplus or defective products. Use of shredded textile materials as insulation materials or fillers. Use of shredded textile waste as alternative fuel in incineration plants.



Versatility

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

High Torque, Low Speed

The twin-shaft machine works with high torque and low speed, effectively shredding textile waste. This breaks the fabrics into smaller, processable pieces, ready for the next stage.

Ability to Process Various Materials

It can process different textile materials such as cotton, polyester, wool, denim and synthetic fabrics. This versatility enables the machine to process a wide range of textile waste.

Precision Shredding

The single-shaft machine precisely reduces the pre-shredded textile materials into smaller sizes. This makes the materials suitable for incineration plants or other recycling processes.

Energy Efficiency

The single-shaft machine stands out for its energy efficiency and reduces operating costs by operating with low energy consumption.

Optimized Recycling Process

This two-stage process between twin-shaft and single-shaft machines processes textile waste in the most efficient way, making it suitable for recycling. This speeds up waste management processes and increases the efficiency of plants.

High Capacity

This unit can process large quantities of textile waste, with a capacity ranging from hundreds of kilograms to several tons per hour.

Environmental Sustainability

By recycling textile waste, it reduces environmental pollution and contributes to the protection of natural resources.

Technical Specifications

MODEL	SHREDDING AREA (MM)	CAPACITY (KG)	ENGINE POWER (KW)
TWO-STAGE TEXTILE SHREDDING UNIT	800-2000	500-10000	22X2-110X2 / 22X4-90X4



Performance and Efficiency of Two Stage Textile Shredding Unit;

High Torque, Low Speed

The twin-shaft machine works with high torque and low speed, effectively shredding textile waste. This breaks the fabrics into smaller, processable pieces, ready for the next stage.

Ability to Process Various Materials

It can process different textile materials such as cotton, polyester, wool, denim and synthetic fabrics. This versatility enables the machine to process a wide range of textile waste.

Precision Shredding

The single-shaft machine precisely reduces the pre-shredded textile materials into smaller sizes. This makes the materials suitable for incineration plants or other recycling processes.

Energy Efficiency

The single-shaft machine stands out for its energy efficiency and reduces operating costs by operating with low energy consumption.



Importance of Textile Shredding Machines;

MT Makina's two-stage textile shredding unit optimizes the recycling process by efficiently processing textile waste. Our high-performance and durable machines offer solutions suitable for the needs of recycling plants. You can benefit from the advantages offered by this two-stage unit for environmentally friendly and efficient textile recycling.

The two-stage textile shredding unit sets a new standard in performance and efficiency in textile recycling processes. This system, consisting of twin-shaft and single-shaft machines, contributes to a sustainable future by effectively processing textile waste. Discover environmentally friendly and efficient recycling processes with MT Makina's advanced technology in this field.

Optional Features

- Four Motor Design
- Rotor Cooling System
- Automatic Lubrication Unit
- Sieves in Different Sizes
- Metal Detector
- Metal Separator
- Bolt-on detachable blade design
- Hydromotor drive system
- Screw, Conveyor Applications for Output



WHAT IS A TEXTILE SHREDDING UNIT AND WHAT DOES IT DO?

Textile shredding unit is a system used to make textile waste suitable for recycling. It usually consists of double-shaft and single-shaft shredding machines. It accelerates the recycling and reuse processes by separating textile waste into small pieces.

WHAT ARE THE ADVANTAGES OF THE TWO-STAGE TEXTILE SHREDDING UNIT?

The two-stage unit first pre-shreds the textile waste in double-shaft machines and then shreds it into smaller pieces in single-shaft machines. This process ensures efficient and effective treatment of the waste and optimizes the recycling process.

WHAT KIND OF MATERIALS CAN BE PROCESSED IN THE TEXTILE SHREDDING UNIT?

Various materials such as cotton, polyester, wool, denim, synthetic fabrics, old garments, production waste and mixed textile materials can be processed.

WHAT IS THE CAPACITY OF THE TEXTILE SHREDDING UNIT?

The capacity of the unit varies depending on its model and design. In general, it can process several hundred kilograms to several tons of textile waste per hour.

WHAT IS THE DIFFERENCE BETWEEN DOUBLE SHAFT AND SINGLE SHAFT MACHINES?

Twin-shaft machines operate at high torque and low speed to pre-shred large volumes of textile waste. Single-shaft machines break the pre-shredded materials into smaller pieces. The two-stage unit combines these machines for a more efficient shredding process.

IS A TEXTILE SHREDDING UNIT ENVIRONMENTALLY FRIENDLY?

Yes, textile shredding units contribute to environmental sustainability by enabling textile waste to be reused and recycled. They also minimize their environmental impact thanks to their energy-efficient operation.

HOW TO MAINTAIN A TEXTILE SHREDDING UNIT?

The unit requires regular maintenance and cleaning. The blades should be periodically checked and replaced if necessary to maintain their sharpness. It is important that the moving parts on the machine are regularly lubricated and that general maintenance procedures are followed.

HOW MUCH ENERGY DOES A TEXTILE SHREDDING UNIT CONSUME?

Energy consumption varies depending on the capacity of the unit and the processing time. However, twin-shaft and single-shaft machines are designed to be energy efficient, which minimizes energy consumption.

IS THE TEXTILE SHREDDING UNIT SAFE?

Yes, these units are equipped with various safety mechanisms for operator safety. Features such as emergency stop buttons, protective covers and sensors ensure safe use of the unit.

WHAT ARE THE USES OF THE TEXTILE SHREDDING UNIT?

Large-scale processing of textile waste in industrial textile recycling plants. Recycling of surplus or defective products in the fashion and retail sectors. Preparation of textile materials to be used as insulation materials or fillers in the automotive and construction industries. Use of shredded textile waste as alternative fuel in incineration plants.

HOW LONG WILL THE TEXTILE SHREDDING UNIT LAST?

Thanks to their durable construction and high-quality steel blades, the textile shredding units have a long service life. Combined with regular maintenance, the unit can operate efficiently for many years.

HOW TO SET UP AND USE A TEXTILE SHREDDING UNIT?

MT Makina provides comprehensive support for installation and operation. The unit is easy to operate thanks to its user-friendly interface. During installation, the necessary adjustments are made by the expert team and operators are trained.

WHICH PRODUCTS CAN BE OBTAINED WITH THE TEXTILE SHREDDING UNIT?

Shredded textile waste can be used in various industrial applications such as filling material, insulation material, automotive textile products. It can also be used as an alternative fuel source for energy production in incineration plants.