

## TEXTILE RECYCLING

## LABORATORY SHREDDING MACHINE



**An innovative and sustainable solution for the recycling in the textile and fashion industry.**

Mesdan laboratory shredding machine transforms any industrial textile waste (fabrics, yarns, slivers, etc.) and worn-out clothes back into their original fiber forms.

The equipment is designed to assist textile manufacturers, institutes and R&D laboratories to evaluate any possibility of mechanical recycling on miniature scale (even with a very low quantity of material) for being then re-produced on large scale.

Very compact design and user-friendly controller allow to easily get the most suitable setting according to the primary material to be processed, to optimize the fibre length and the level of opening.

Specifically designed to obtain fibers to be re-used in a spinning process (textile-to-textile recycling) and to work in combination with the Mesdan Lab Mini Spinning line.

An ideal solution for the research of a circular economy in the textile industry.



# LABORATORY SHREDDING MACHINE CODE 337S



## Main Features:

Composed of two feeding rollers, five workers and a main drum, all individually driven by an inverter.

Independent speed setting of feeding rollers, main cylinder, workers and air system.

All cylinders are covered with high-quality wire clothing.

Opened fibers are delivered into the collection can, thanks to an air suction.

The machine is equipped with a programmed PLC and a user-friendly control panel, to optimize the level of opening and the fibre length, depending on the material to process.

Possibility to save the customized recipe and recall it when needed.

Very easy and fast maintenance.

Working width: 450 mm.

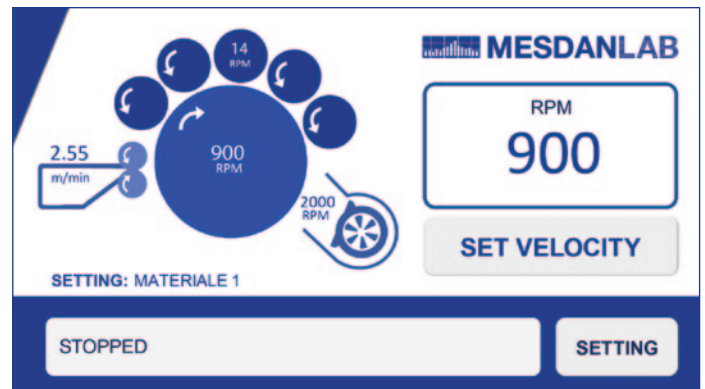
Feeding belt dimensions: 930 x 440 mm.

Feeding speed: adjustable, from 0,001 m/min to 4 m/min.

Production capacity: up to 1 kg/min (depending on the weight of the feeding material).

### DIMENSIONS / POWER SUPPLY

Weight: 600 kg  
 Dimensions: (L) 2450 x (W) 926 x (H) 1350 mm  
 Power supply: 400 Vac, 50/60 Hz, three-phase, 5 kW



1: MATERIAL1

PARAMETER	VALUE
CODE	MATERIAL 1
FEEDER VELOCITY (m/min)	2.55
MAIN DRUM VELOCITY (RPM)	900
WORKER VELOCITY (RPM)	14
SUCTION SPEED (RPM)	2000

Buttons: BACK, SAVE, CONFIRM, DELETE, CREATE NEW SETTING, LOAD

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding