



# Longhe Plastic Machinery Co.,LTD.



SINCE 1988

## WOOL RECYCLING PROCESSING INTO FEED PELLETS

Longhe Plastic Machinery is an integrated enterprise involved in research, design, manufacturing, and sales.



Longhe Official Website / Scan QR code with phone





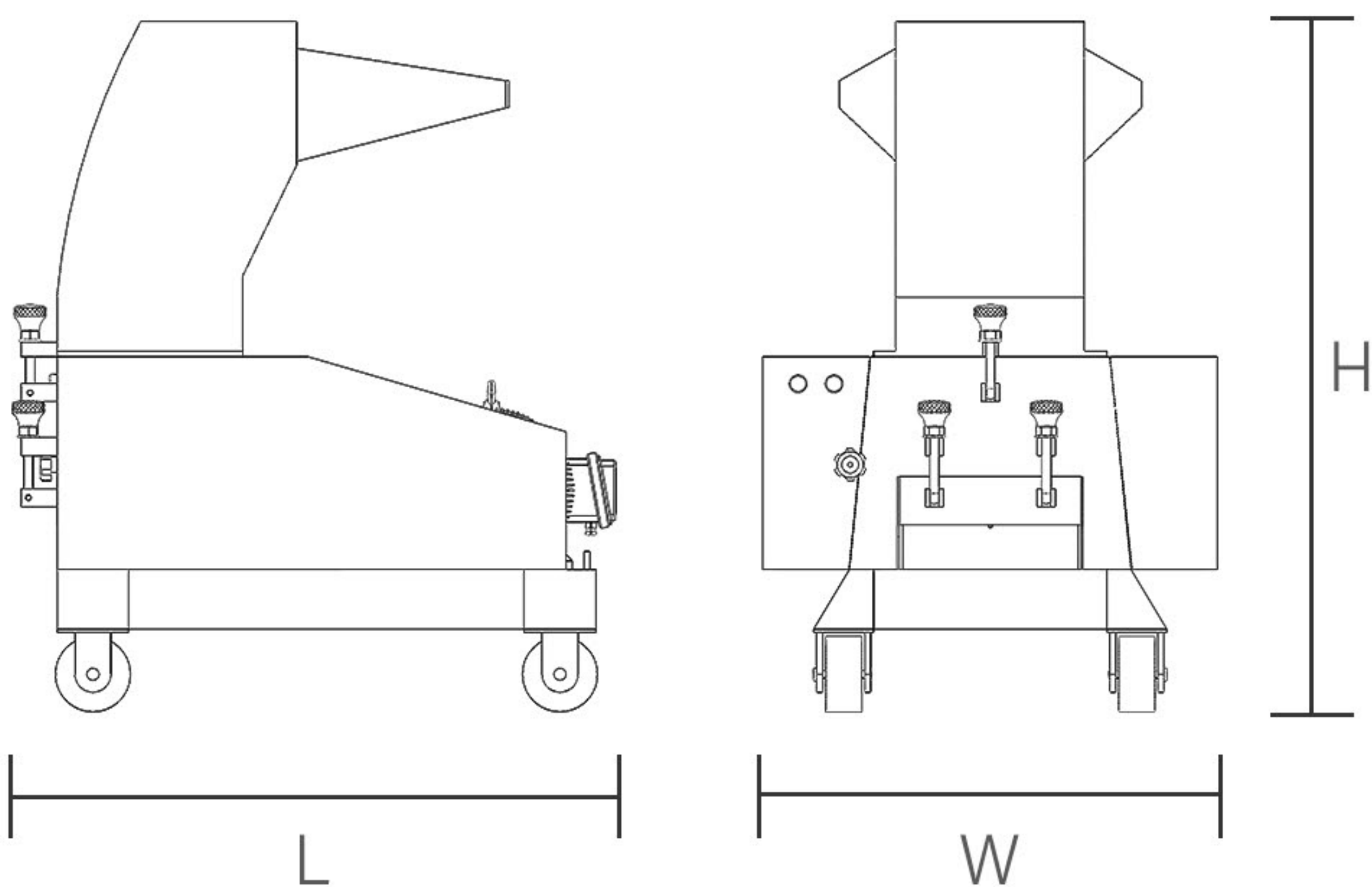
using video

# PF MODEL WOOL SHREDDER/CRUSHER

Can be used in conjunction with a **dust collector**



## SCHEMATIC DIAGRAM



### Technical parameters

| model    | crushing diameter (mm) | crushing capacity (kg/h) | power (kw) | blade (pieces) | dimensions (L*W*H)mm | weight (kg) | packaging size (L*W*H)mm |
|----------|------------------------|--------------------------|------------|----------------|----------------------|-------------|--------------------------|
| PF300B-1 | 310*245                | 50-80                    | 5.5        | 5              | 1000*760*1200        | 350         | 1090*790*1320            |
| PF400B-1 | 410*260                | 100-250                  | 7.5        | 8              | 950*860*1300         | 425         | 970*880*1320             |
| PF500B-1 | 510*285                | 150-350                  | 11         | 10             | 1110*970*1450        | 580         | 1120*990*1470            |
| PF600B-1 | 610*285                | 180-400                  | 15         | 10             | 1080*1380*1475       | 640         | 1190*1550*1600           |



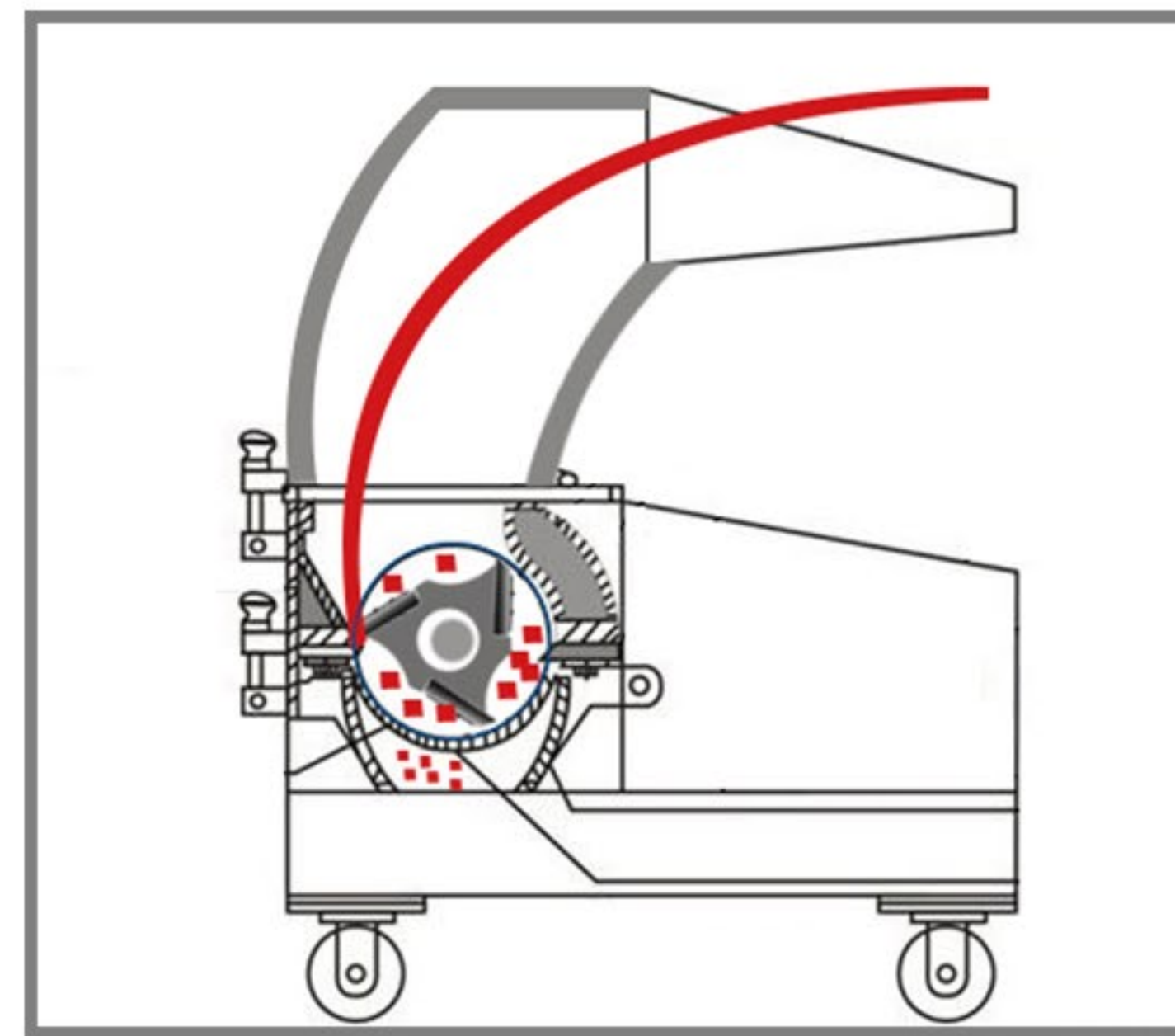
## ○ Product introduction

### 1 Single-piece sharp blade for quick cutting:

No tangling, no accumulation, no jamming, rapidly crushes lightweight materials.

### 2 Exclusive machine body design:

Material drop path and blade cutting path are highly compatible.

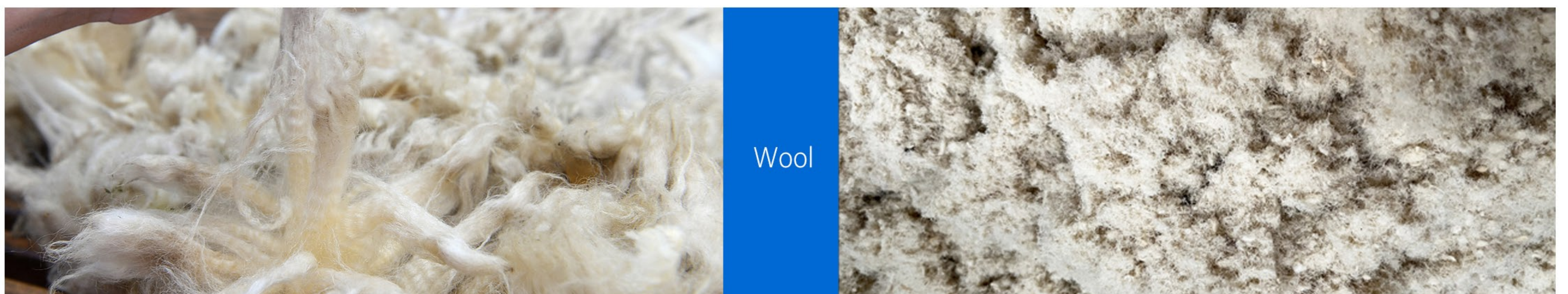


### 3 Reduce wool waste volume by up to 90%, with ultra-quiet operation—ideal for eco-conscious ranch management.

### 4 Single-person safe handling ensures hassle-free use. The shredded wool can be fully repurposed into new wool products or processed into nutrient-rich feed supplements, achieving 100% material recovery.

### 5 Applicable to: diverse wool types and waste, including old wool garments, blankets, carpets, industrial wool scraps, and ranch-sourced raw wool clippings.

### 6 Output size customization: Effortlessly adjusted using interchangeable mesh screens to produce tailored wool shredded wool material for specific applications, such as livestock feed formulations.

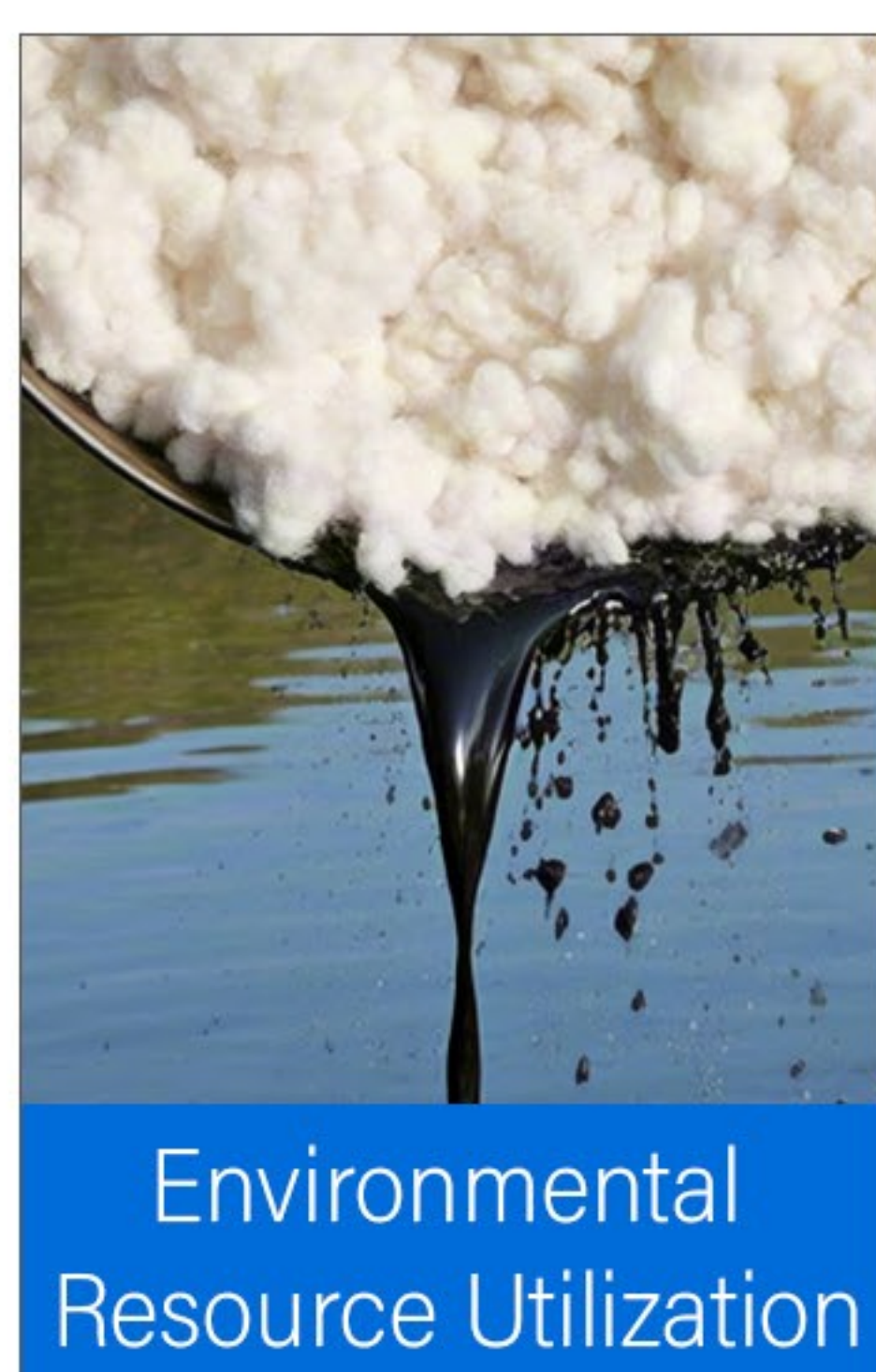


## ○ Which fields is it applicable to?

Leveraging its efficient capacity to process wool and similar fibrous materials, wool shredders are also widely applied beyond pastures in fields such as textile processing, environmental resource utilization, healthcare, industrial materials, agricultural mulch film production, and specialty processing.



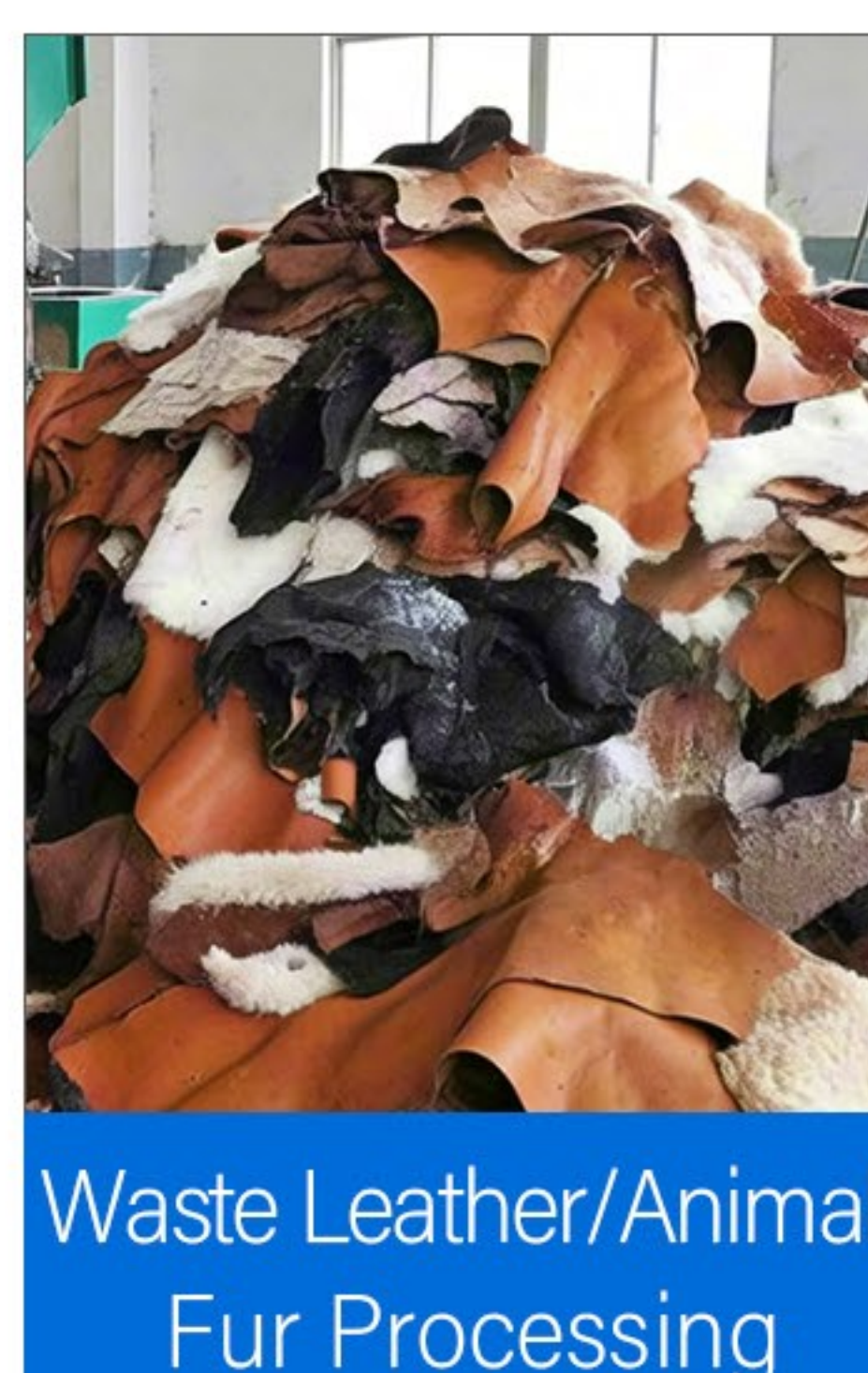
Textile Processing



Environmental  
Resource Utilization



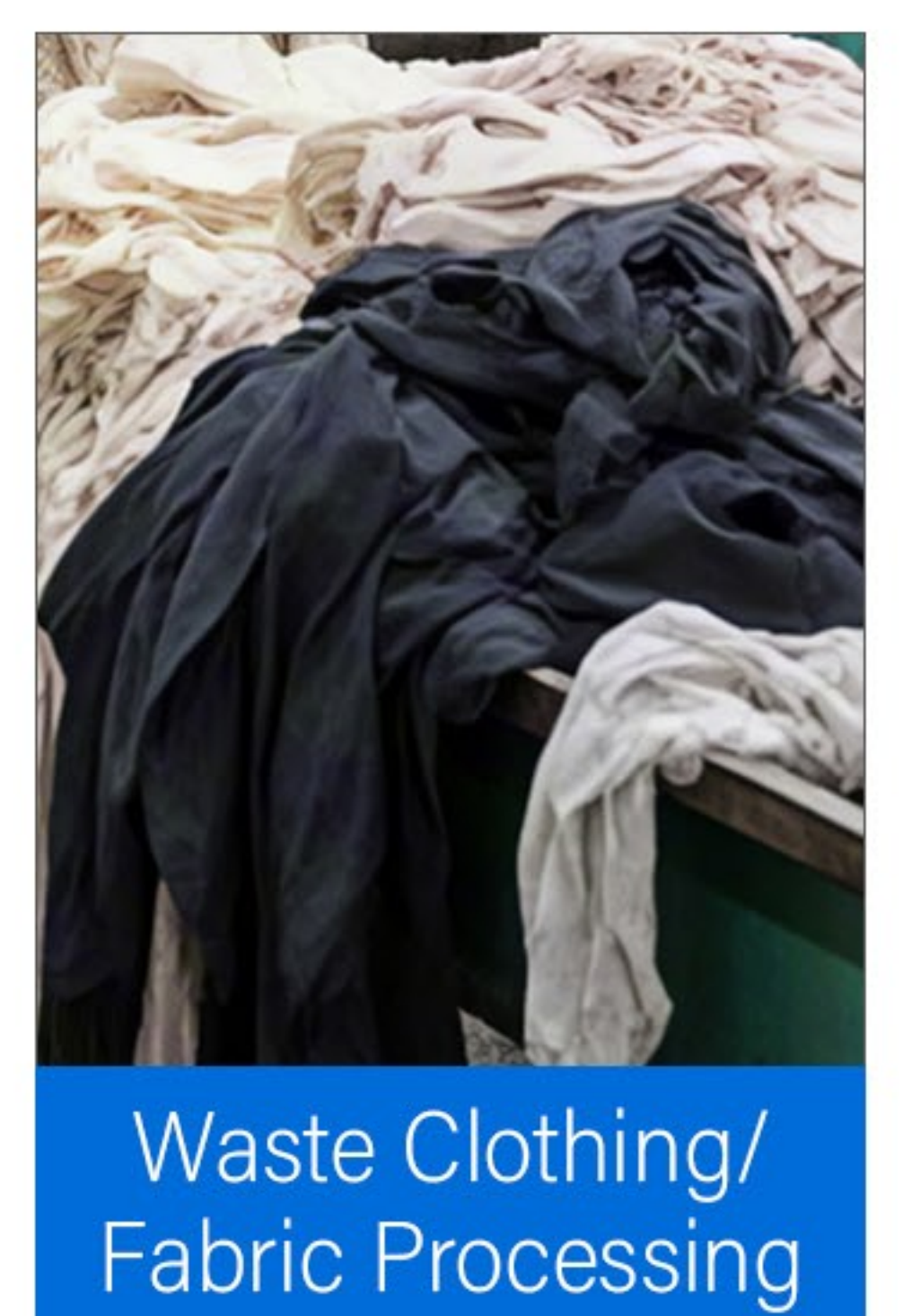
Healthcare &  
Medical Applications



Waste Leather/Animal  
Fur Processing



Agriculture



Waste Clothing/  
Fabric Processing





using video

# PELLET MACHINE

## Feed Pellets



### Product introduction

A feed pellet machine is a type of feed processing machinery that crushes raw materials such as corn, soybean meal, wool, straw, grass, and rice husks, and then directly compresses them into pellets. Its core function is to transform powdered feed into granular form through physical extrusion, thereby enhancing the feed's palatability, nutritional value, and storage convenience.



## ○ Product advantages

- 1 Energy-Efficient & Durable, Costs Slashed:** Precision lubrication + low-energy motor reduce power consumption by 20%, with a lifespan exceeding 10 years.
- 2 Premium Pellets, Faster Digestion:** Dual-stage grinding boosts molding success rate to 98%, producing hard pellets at 13% moisture for 25% higher animal digestibility.
- 3 3-Step Setup, No Experience Needed:** Wire → Check rotation → Adjust rollers—learn in 10 minutes, with effortless daily maintenance.
- 4 All-in-One Production, Universal Livestock Fit:** 5-minute die swaps handle corn/straw/soybean meal, seamlessly switching between cattle, sheep, poultry, and fish feed.
- 5 Clog-Resistant & Rust-Proof, Reliable Performance:** Steel pin unclogging + oil flushing keep fault rates below 5%, ensuring stable operation even in humid conditions.

## ○ what types of pellets can be produced by a pellet machine?

Pellet machines utilize high-temperature compression molding technology to convert diverse raw materials into dense, uniform pellets. The primary applications include:



Feed Pellets



Biomass Fuel Pellets



Organic Fertilizer Pellets

## ○ Applicable scope

It is mainly utilized for pelletizing low-adhesive, difficult-to-mold crude fiber materials such as sawdust, rice husks, cotton stalks, cottonseed hulls, weeds, various types of crop straws, wool, and factory waste. It is also suitable for low-temperature pelletizing of bacterial fertilizers, organic fertilizers, and compound fertilizers.



Sawdust



Rice Husks



Waste Cotton



Cotton Stalks



Rice Husks



Weeds





using video

# DUST COLLECTOR

**Our dust collection system pairs seamlessly with any crusher!**



## ○ Functional Introduction

The dust generated during enterprise production affects both the environment and the health of workers. Our company has developed a pulsed dust collection system specifically designed for crushers, which incorporates dual core technologies of high-efficiency filtration and intelligent reverse blowing. It is lightweight, flexible, and easy to operate, widely applicable across multiple industries and locations with dust and smoke pollution, effectively purifying smoke and waste gases through multi-stage filtration without causing secondary pollution.

**Fully Enclosed Sound Insulation and Noise Reduction**  
**—— Pulsed Dust Collection System Specifically for Crushers**



## ○ Equipment Features

- 1** Equipped with a **dedicated turbo blower and a branded motor**, the system incorporates an overload protection circuit to prevent motor burnout, ensuring high safety and stable working performance.
- 2** **Intelligent automatic dust cleaning:** The pulse system automatically cleans the filter cartridges at regular intervals, ensuring a more thorough and clean removal of dust from the filter surface, thereby maintaining a constant suction capacity for the dust collector.
- 3** **The filter cartridges are made of imported materials, offering a long service life.** They can capture dust particles as small as 0.3um and provide excellent filtration for wet and sticky dust.
- 4** The purifier incorporates three layers of protective measures against fire hazards and large particle slag inside, enhancing the longevity, safety, and reliability of the purifier.
- 5** Clean air is evenly guided and dispersed through the grille-shaped exhaust outlet, minimizing noise levels.

## ○ Customer Case ( The dust collection system models are customized to match specific crusher models )



PF400 Fabric Crusher Dust Removal System



PY800 Plastic Bottle Shredder Dust Collection System



KTS400 Intelligent Crusher Dust Collection System

## ○ Applications

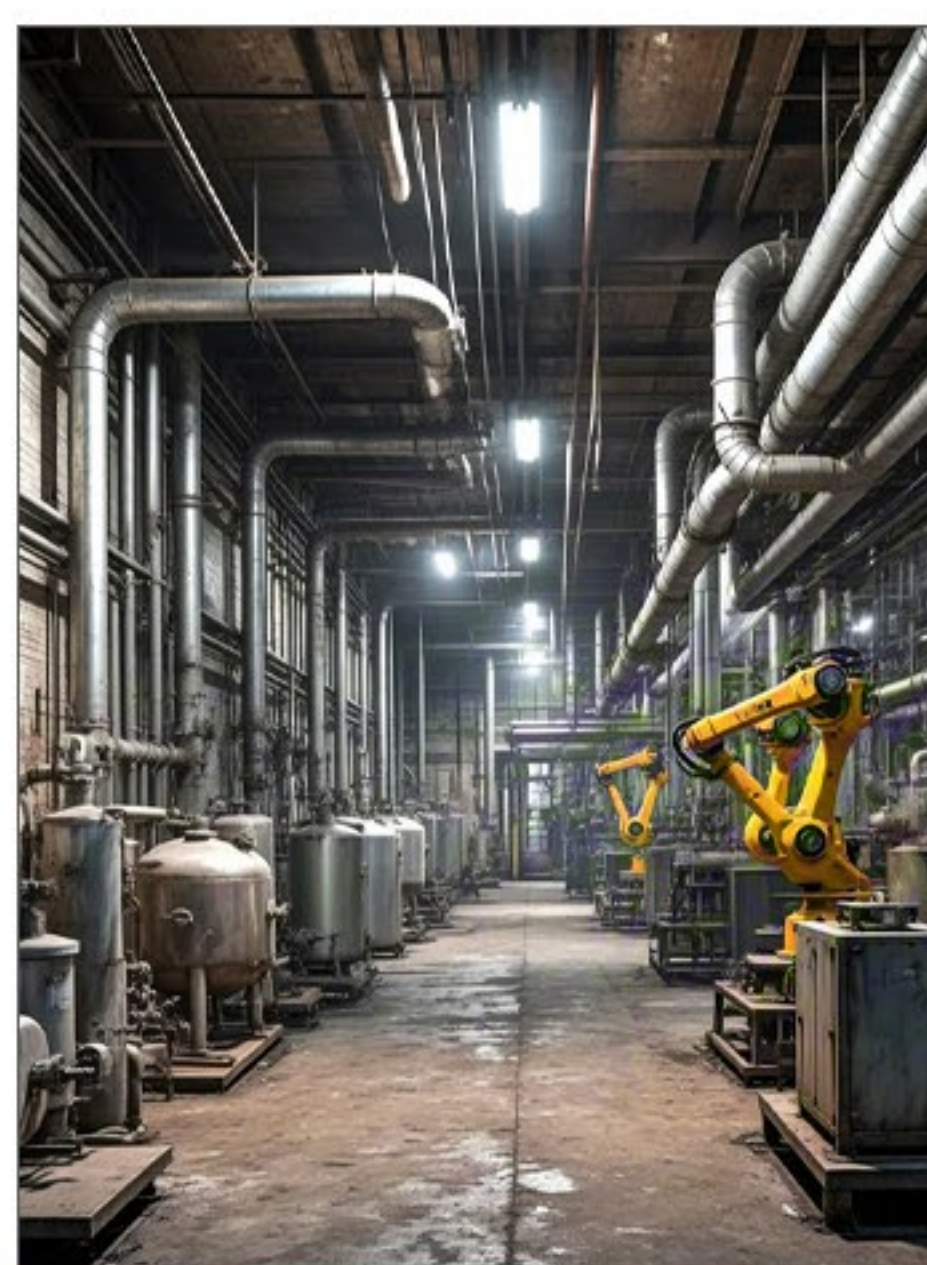
It is also widely applied in industries such as chemicals, metal processing, tobacco, glass, pharmaceuticals, food processing, cleanrooms, hospitals, as well as other places with dust and smoke pollution.



tobacco factory



food processing workshop



petrochemical plant



metal processing



hospital laboratory



light industry





# GLOBAL AFTER-SALES SERVICE FOR PLASTIC EQUIPMENT

maintenance / debugging / installation /  
upkeep / parts supply / technical training

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  Tel: +86 18925132464