



6-inch Extruder

A Complete System for Recycling and Reprocessing Agricultural Plastic Film

- High Level of Sustainable Purity
- High Material Throughput: 1-4 Tons per hour
- Simple to Operate with Low Maintenance Cost
- Enormous Cost Savings
- Constant High Quality



Ideal for cleaning any kind of contaminant that can be removed by friction, such as sand, soil, paper or fibers.



American Cierra Corporation

491 Grant Ave, Auburn, NY 13021
Phone: (315) 252-6630 Fax: (315) 252-6652
www.americancierraequipment.com
Paul@cierrainc.net

Total Recycling Solutions

AG-FILM RECYCLING PROCESS



Ag-Film Waste

The following are key applications for plastic film in agriculture, silo bunker covers, silage bags, bale wrap, greenhouse covers, haylage covers, row covers, and mulch film and hence, a main source of film waste from this industry.

Shredding Process

The process starts by separation of coarse contaminants such as wood, rocks, soil and metals as well as incompatible agricultural plastic fractions such as twine or netting. It is next placed in a large primary shredder which reduces the material to a particle size of about 1”.

Storage

The shredded material is transferred to a storage silo to await further processing.

Grinder



After Shredding



Storage Silo



AG-FILM RECYCLING PROCESS



Washing Process

American Cierra has designed a Scrubbing Separation Unit that produces clean Ag Film for reuse in any application. The Cierra Film Scrubber, depending upon the size of the line, produces from 1 to 4 tons per hour of clean reusable Film, recycles the water, separates impurities, and produces a high quality plastic material.

Scrubbing Tank



Turbo Dryer

The cleaned powdered material is then fed into the Cierra Turbo Dryer. This centrifugal dryer spins at 1500 rpm slinging off impurities while the plastic is retained by the internal screens.

Turbo Dryer



Pulverizing Mill

The Cierra Pulverizing Mill utilizes hammers to further reduce the particle size to a grind of less than 1/4". This facilitates ease of handling and further processing.

Pulverizing Mill



Clean Material

The end result is a clean material that can be extruded into re-pellets.

Clean Material

