

CUMBERLAND®

50 years  
QUALITY & SERVICE

*Norm Satter*  
**214-790-7800**

January 5, 1990

Mr. Jack Wilson  
FLORIDA TIRE RECYCLING  
10151 Range Line Road  
Port St. Lucie, FL. 34987

Tire Line Budget Proposal # 99-0-1845

Dear Mr. Wilson,

As you requested during our recent telephone conversation in regards to a tire processing system, we are pleased to offer the following budget proposal.

Receiving 2" x 2" chips from your shredder, we can supply a system to process automobile tires at the rate of 10,000lbs/hr. input, and produce an output of 8,000 lbs of -10 mesh rubber free of steel and fiber. The system would be capable of producing 5/8", 1/4" or -10 mesh as required by selecting the output of primary, secondary or tertiary granulators.

The price for the proposed system would be approximately \$2,000,000 - and will include (1) Model 3250, (2) Model 50B(R), (2) Model 50F(R) Cumberland granulators, the required chillers, dust control system, steel removal systems, all the material handling equipment and a master control panel.

The above price does not include mechanical or electrical installation to adapt to your existing building, however, you might plan on a \$500,000 figure for the above including the plant layout.

I hope the above information provides you with what you require at this time. If you need further information, please call me at your earliest convenience.

Cordially,

*Walter S. Lysik*

Walter S. Lysik  
Marketing Manager

WSL:kmp

Enclosure: Brochure, Schematic

cc: Al Morin, Flow Concepts, Inc.

Plastics Machinery

**JOHN BROWN**

## GRANULATORS FOR SCRAP TIRE RECYCLING

**Description:** Granulators, used in conjunction with a shredder and a material handling system reduce tires into a salable product of 5/8", 1/4" or -10 mesh tire chips. Feed rates are 500 used passenger tires per hour – 300 truck tires per hour.

**Application:** 5/8" particle chips are used as an enhanced tire-derived fuel for cement kilns and fluidized bed furnaces. The 1/4" particles are used for running track and tennis court surfaces. The -10 mesh particles are used in rubberized asphalt or as a filler for production of rubber and plastic parts.

**Features and Benefits:** The cutting action of the rotor knives in the Model 3250 granulator tears the steel belting and bead from the tire to produce 90% steel-free rubber particles at the rate of 10,000 lbs. per hour through a 3/4" screen. Magnets and aspirators in the material handling system remove the steel and fiber to provide clean material.

**Some Design Advantages:**

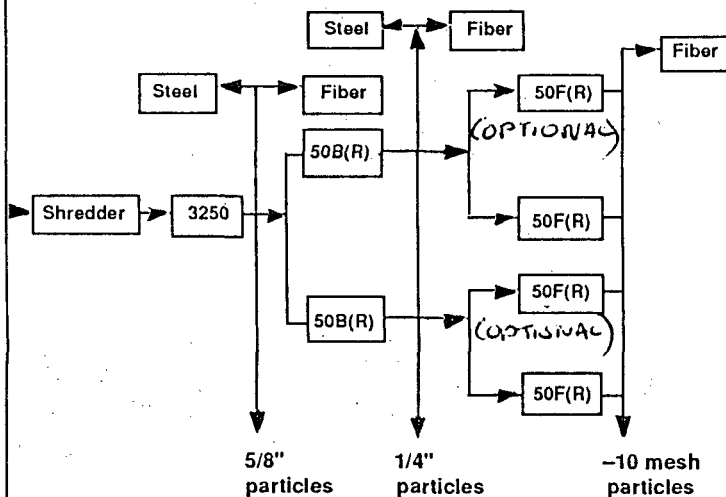
- Hardfacing on material-contacting surfaces prevents erosion from steel bead and belting.
- Water passages in the cutting chamber help keep the rubber cool to prevent heat degradation.
- All models are easy to service. The granulator doors tilt open for rotor access, and a pivoting side panel accesses the screen.
- Cutting chamber is machined and bolted for additional ease of cleaning and servicing.
- Heavy-duty construction gives more cutting force to handle heavy loads.

| Models                        | 3250  | 50B(R)                     | 50F(R)                     |
|-------------------------------|---|----------------------------|----------------------------|
| Throat size: - (inches)       | 32"x50"   | 20"x50"                    | 20"x50"                    |
| Cutting circle diameter:      | 36"   | 18"                        | 18"                        |
| Throughput: (lbs/hr. max.)    | 10,000  | 4,500                      | 3,500                      |
| Cutting Chamber:              | Water cooled, hard faced  | Water cooled               | Water cooled               |
| Rotor - Knives:               | 25 knives, Helical hog rotor                                      | 5-knife High-Shear         | 8-knife High Shear         |
| Bed Knives                    | 2   | 2                          | 3                          |
| Screen:                       | 3/4"  | 5/16"                      | 3/32"                      |
| Base:                         | Horizontal  | Step Type                  | Step-Type                  |
| Discharge:                    | Conveyor  | Airveyor                   | Airveyor                   |
| Motor: - TEFC, V-Belt Drive   | 300HP   | 200HP                      | 200HP                      |
| Electrical Components:        | All units equipped with NEMA 12 enclosure (with interlocks, etc.) |                            |                            |
| Controls:                     | 460 volt, 115V pushbuttons  | 460 volt, 115V pushbuttons | 460 volt, 115V pushbuttons |
| Space envelope: - LxWxH (in.) | 140x84x199  | 115x46x131                 | 115x46x131                 |
| Weight: (Approx. lbs.)        | 45,000  | 18,000                     | 20,000                     |

Cumberland offers shredders and material handling equipment for tire systems.

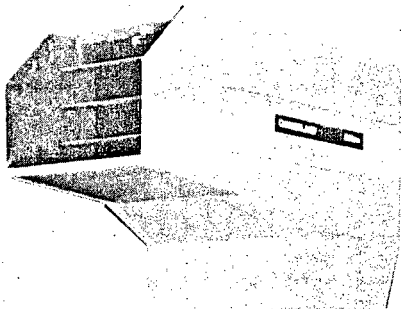
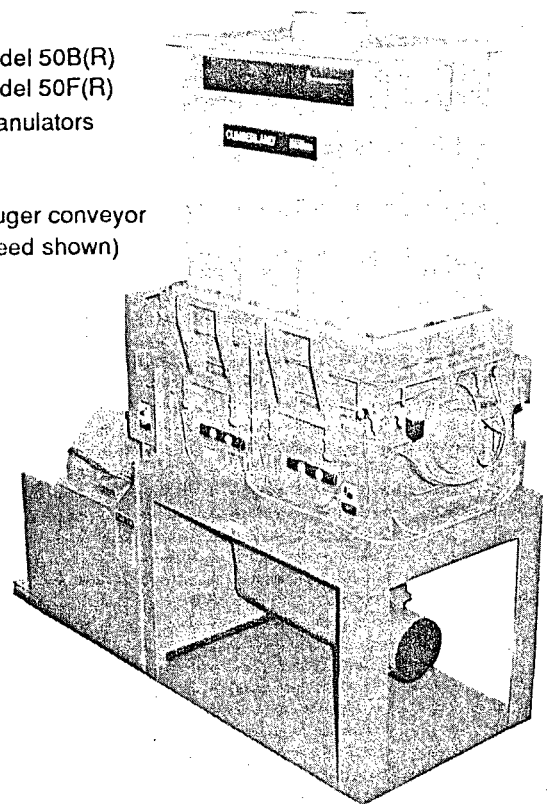
# GRANULATORS FOR SCRAP TIRE RECYCLING

## Scrap Tire Recycling System – 10,000 lbs/hr. (500 passenger tires or 300 truck tires)



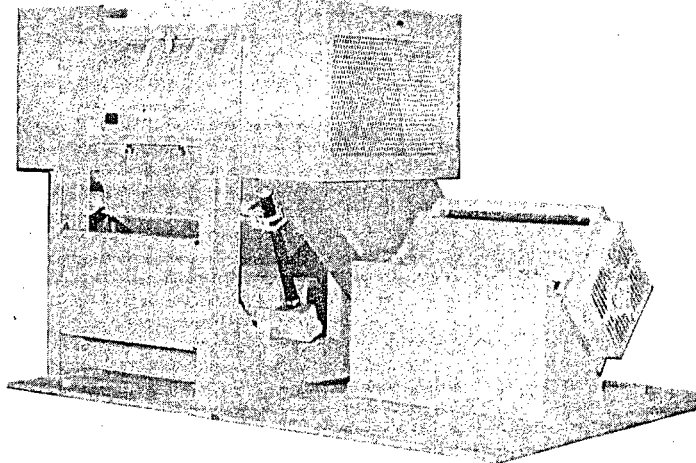
Model 50B(R)  
Model 50F(R)  
Granulators

(Auger conveyor  
infeed shown)



Model 3250 Granulator

(Belt conveyor infeed shown)



### More features and benefits:

- Heavy-duty, outboard spherical roller bearings reduce servicing and prevent material contamination.
- Cumberland-manufactured-knives are HCHC steel, specially heat treated with our proprietary process for exceptionally long life, so knife maintenance and replacement costs are minimized.
- Oversized bearings in integral ground housings permit close knife clearances for longer knife life and cleaner cut material.

**Cumberland Engineering Division**  
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