

BTRC

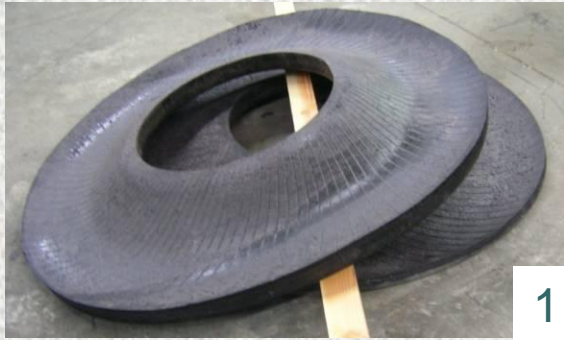
# World Wide innovative process



Recycling of big tyres into  
reclaim rubber powder  
Using: Ultra High Pressure water jetting

# ● ● Cutting & Crumbling Process

UHP water cutting  
Side walls



1

and

tread



2

UHP water jetting // pulverisation

P.A.R. (Physically Active Rubber) powder

and

C.R.F. needles



3



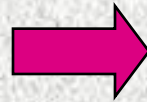
4

# ● ● | Concept

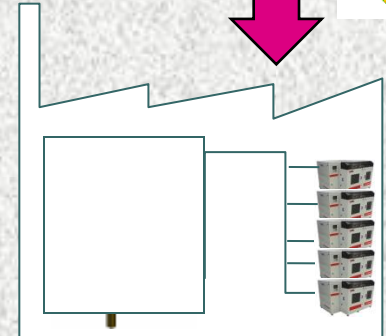
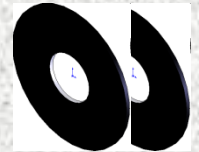
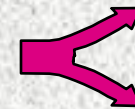
Re-use of PAR Tyre



Tyre Production



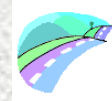
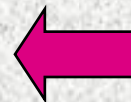
Cutting



Crumbling



PAR

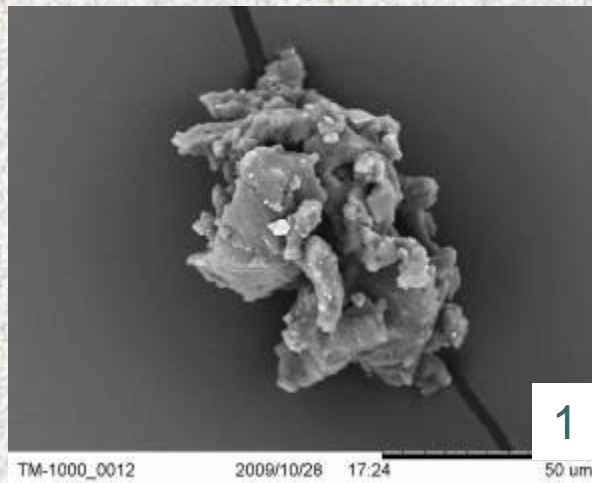


BTRC Belgium V432

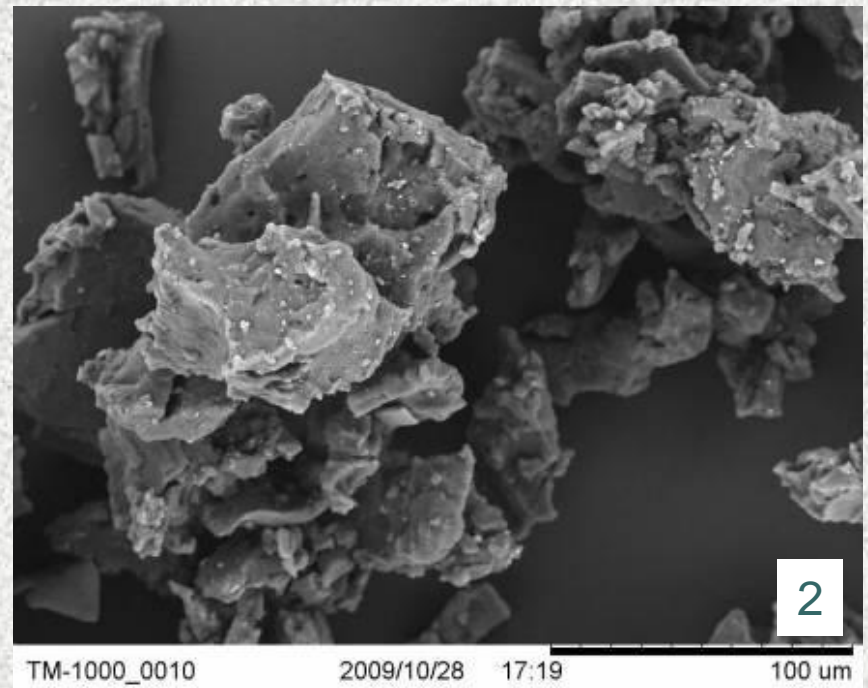


# World Wide innovative process providing reclaim in 1 step.

- SEM pictures(Scanning Electronic Microscope) approx 400  $\mu\text{m}$  (40mesh)
- 2 grades: 1 from the tread and 1 from the side walls



**Enlargement 1000 X**



# ● ● Steel wire (from tread and bead)

C.R.F. needles







# Textile Fibers

Clean fibers  
Short fibers  
0.5% MC



1



2

# Plant Info

**Process OTR tyres dia 1,4 to 2m**

**Plant dimensions:**

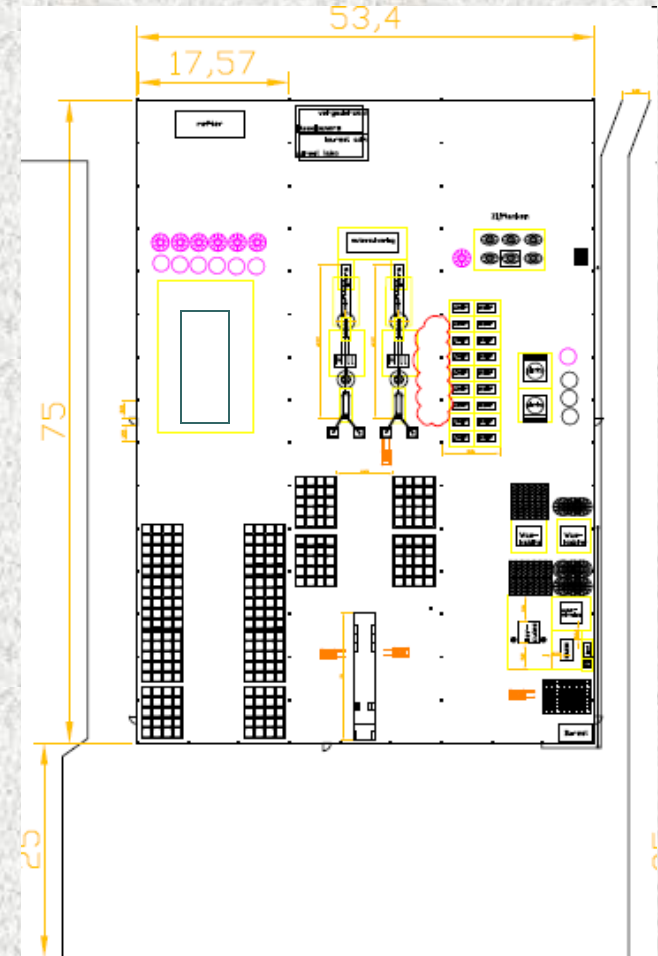
- 2500 m<sup>2</sup> indoor
- 2500 m<sup>2</sup> outdoor (tyre storage)

**Utilities:**

- Electricity: 2 MW installed
  - 0.92 kWh / kg powder
- Water: 75% water is re-cycled
  - 20 m<sup>3</sup> / day fresh water

**Production 3 shifts / 5 days**

- Blue collar: 3 shifts = 14 men
- White collar total = 3 men
- Capacity 10.000 ton/y OTR





# ● ● | Super tyres dia 4m

Cutting and jetting tests

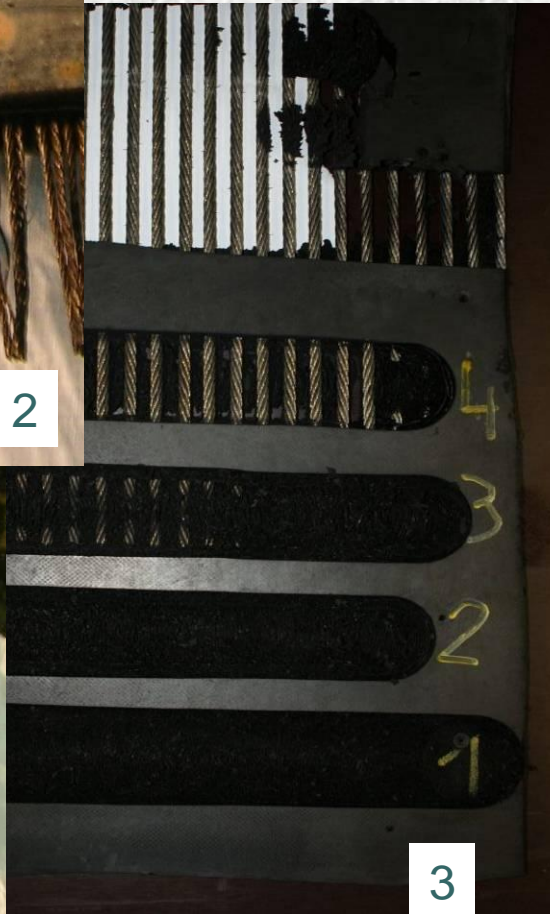
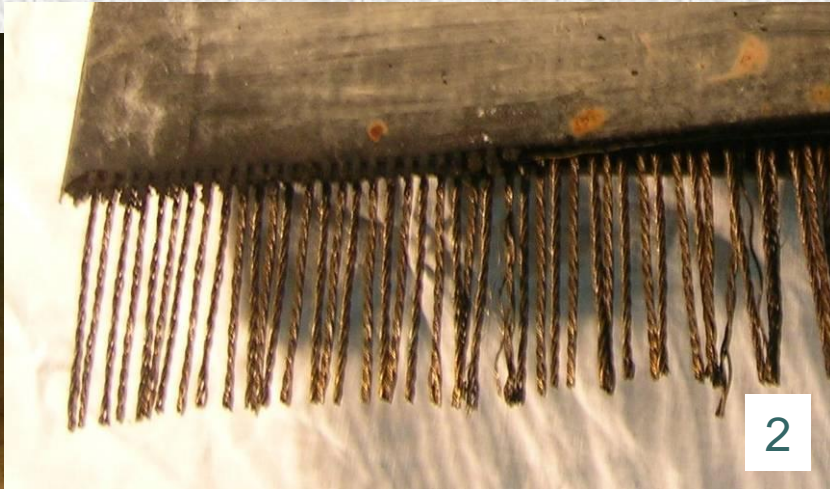






# Conveyor belts with steelcord

## Test results



# ● ● Rubber crawler tracks

Cutting and jetting tests

