Stage 1 - Primary reactor:
The first stage of M-BCD process, depolymerization polyesters (oligomers and monomers) separation of cotton and removal of dyes.
- Removes > 95% dye
- Removes > 95% polyester
- Reagent recovery for reuse

Stage 2 – Secondary reactor:
Secondary phase removes remaining traces of dyes and residual polyester from cotton.
- Removes final dye and polyester
- Dyes can be captured for reuse.

Stage 3 – Final rinse:
Rinse to remove residual reagent from cotton. Recovery of cotton.

M-BCD Process Flow

Shredded fabric → Stage 1 (Primary reactor) → Stage 2 (Secondary reactor) → Stage 3 (Final rinse) → Recycled Cotton

Recovery of monomers oligomers
Reagent recovered for reuse
Processed cotton Moved to Stage 2
Fully processed cotton ready for final rinse in Stage 3