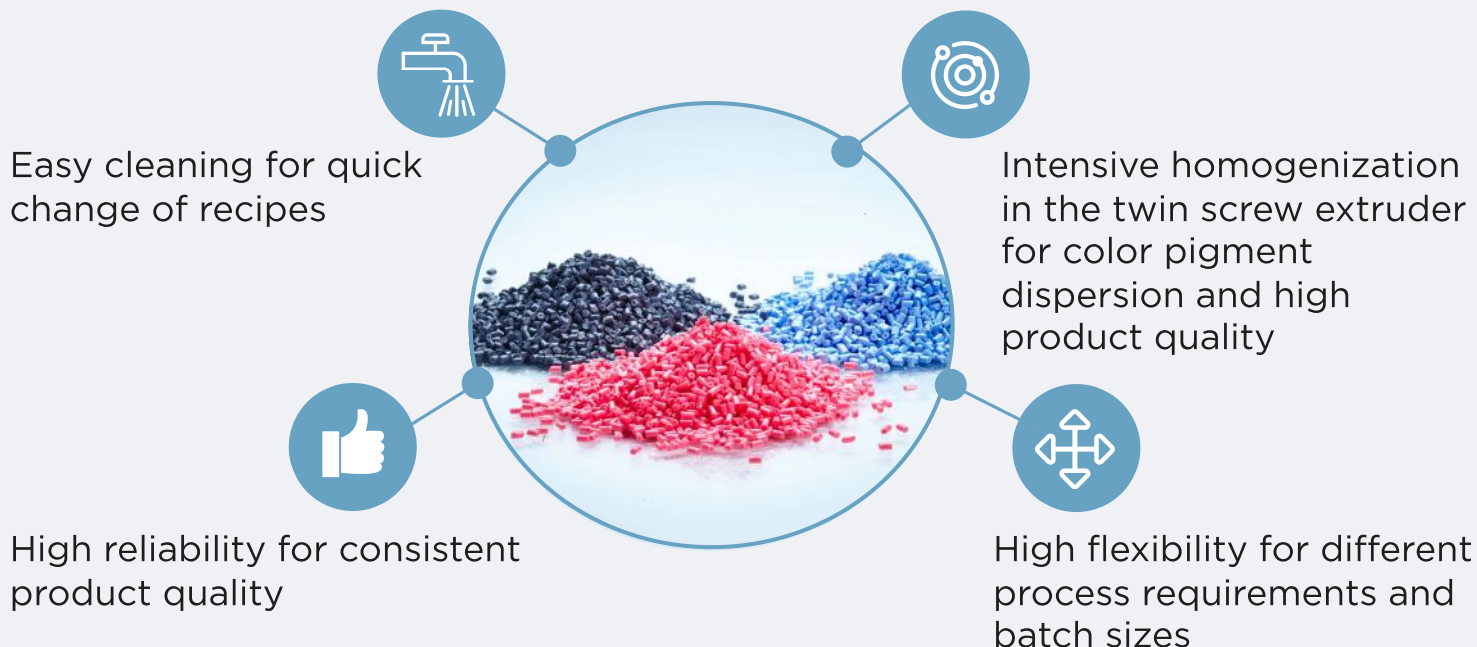


# Color Masterbatch Production

How to Achieve the Best Price-Performance Ratio

## Requirements In Masterbatch Processes



## Masterbatch Mechanism

### Compounding Process

Wetting of the pigments



Shearing the pigments from  $D_o$  to  $D_t$

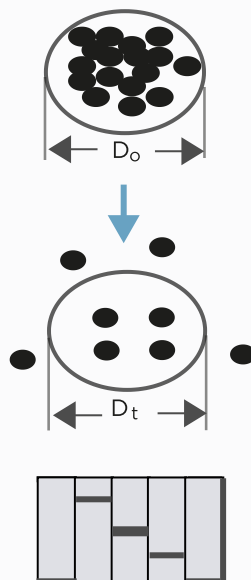


Mixing and distributing the pigments into the carrier

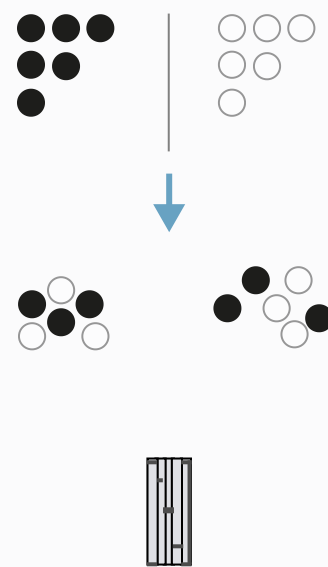


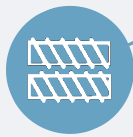
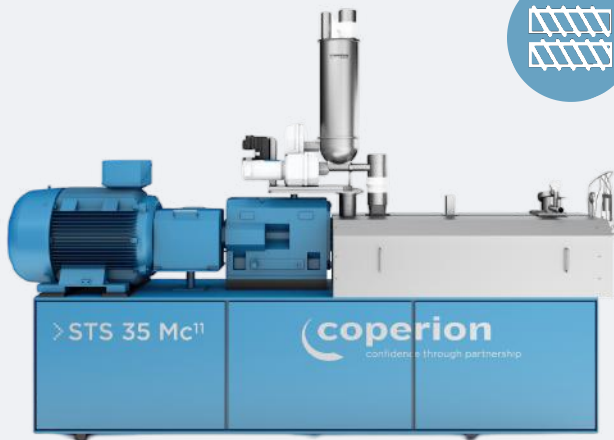
Stabilization against re-agglomeration

### Dispersive Mixing



### Distributive Mixing





## STS 35 Mc<sup>11</sup> Twin Screw Extruder in Masterbatch Design

- Screw diameter of 35 mm [1.38 in]
- Max. specific torque of 11.3 Nm/m<sup>3</sup> and throughput rates up to 300 kg/h
- $D_o/D_i = 1.55$  (outer to inner screw diameter) - across the entire STS Mc<sup>11</sup> series (identical to ZSK Mc<sup>18</sup> series)
- Compact design, dust-free and easy to clean thanks to smooth surfaces
- Water supply and electrical wiring are integrated and physically separated in the base frame
- Feed hopper in quick-change design for fast disassembly
- Self-cleaning

## S60 Volumetric Single Screw Coperion K-Tron Feeder

- Continuous operation for consistent, accurate feeding of ingredients
- Gentle product handling of the horizontal agitator and feeding screw
- Interchangeable feeding tools
- Fast disassembly and very good cleanability of the feeder

