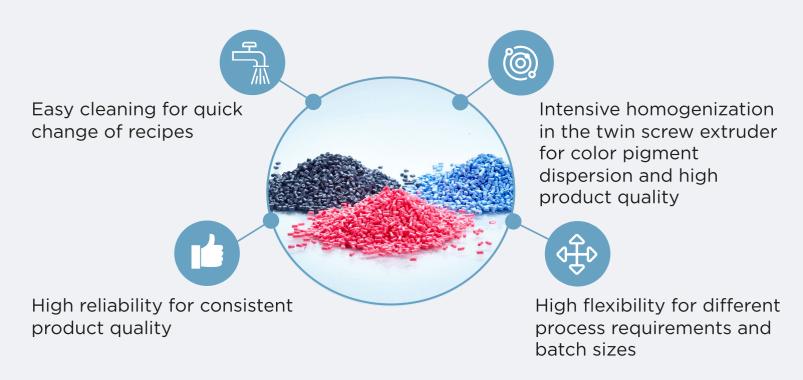
# Color Masterbatch Production

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

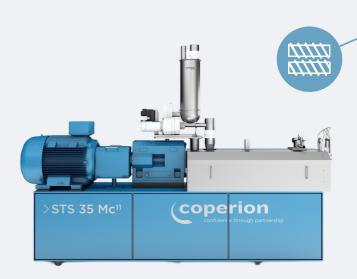


Stabilization against re-agglomeration

# Dispersive Mixing Distributitive Mixing

# Coperion's Set-Up For Best Price-Performance Ratio





# 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









### Strand Pelletizer SP 50 EN

- > One-side bearing
- > Working width 50 mm [1.97 in]
- > Up to 8 strands and throughputs up to 300 kg/h depending on the recipe
- > Easy access for quick cleaning
- > Many other useful options, such as pellet length regulation, drive for top feed roll, die head cooling, etc.

# (coperion











