

**KraussMaffei**

PEOPLE FOR PLASTICS



**A MORE HOMOGENOUS MELT AND REDUCED BACK PRESSURE**

The new HPS-M screw

## BETTER MELT QUALITY

When products are colored using masterbatch, absence of streaking is one of the chief quality criteria. The screw plays a decisive role in achieving this quality. KraussMaffei's new HPS-M screw delivers visibly better melt quality in this respect. Another important benefit is the lower back pressure during plasticizing, resulting in higher output. There is also less stress on the material and wear is significantly reduced.

HPS-M geometry is the key to its excellent homogenizing performance.



Mixing zone

Shear zone

3-zone geometry

### Higher quality gains with new screw geometry

The HPS-M screw improves melt quality and delivers a more efficient plasticizing process. KraussMaffei has combined the tried-and-tested geometry of our standard 3-zone screw with the shear and mixing zone geometries of our HPS high performance screws. In masterbatch applications, direct comparisons with alternative solutions – such as mixing RSP, static mixers and screws with mixing pins – the HPS-M screw delivered the best melt quality and faster color changes. The excellent homogenizing quality is achieved through active shear and mixing by the HPS-M screw. Back pressure can be set significantly lower and stress on the material, as well as wear on the plasticizing unit, are both sharply reduced.

### The benefits of the HPS-M screw were confirmed in production applications

- Better melt homogeneity
- Lower back pressure
- Better plasticizing performance
- Plasticizing with minimal impact on material properties
- Longer service life for the plasticizing unit
- Drop-in replacements for standard screws
- Available for:
  - Screw sizes from SP 180 to SP 4300
  - Diameters from 30 to 100 mm
- Supplied ex-stock

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KraussMaffei is a premium partner for the plastics and rubber processing industries worldwide.