

## Vis-Co<sup>®</sup> -M, the New Mixing System

*The Vis-Co<sup>®</sup> -Mixer clearly distinguishes itself from customary mixers in the field of extrusion. Depositions are impossible.*

*Quote of a customer at the presentation: “The Vis-Co<sup>®</sup> -Mixer looks so simple, it just has to work.”*

*Ulrich Büttel – U.B.Tech.GmbH – April 2010*

Examinations revealed that the so called combustions are caused by depositions on the extrusion screws and not as thought previously by blown film heads and tools. These combustions develop in the dead zones of the mixer and generate black, hard carbon. If this carbon hits the filter at an unfavourable angle, it will destroy it.

Customary mixers are provided with knobs, rhombuses and plates and fulfil their mixing function. They all, however, have their dead zones which generate depositions. The material is pressed through and possibly cropped again – this results in a higher temperature of the mass, but not in a transport function and consequently not with a self-cleansing effect.



The Vis-Co<sup>®</sup> -Mixer has applied for a patent, was tested with diverse raw materials (PE/PP/EVA/PA/EVOH and others) and delivered almost 100 times, partly with complete screw.

Its mixing behaviour into the centre and compressive structure, combined with an independent transporting behaviour, minimises dead zones. This results in an increase of the specific performance of the screw as well as better guiding features in the cylinder. The screw swims to the screen changer in an optimal manner. The molten material is rinsed through the centre and around and is mixed – this creates a straight-line flow of the molten material which has a self-cleansing effect.