

# Static Mixers for Extrusion

## Only StaMixCo supplies four different extrusion static mixer designs!

Static melt blenders are installed just upstream of the extrusion die head. They do homogenize the polymer melt just before forming it to the end product. Differences in temperature and concentration of colorants and additives are equalized. By this mixing process the viscosity differences are reduced to a minimum and thus the flow behaviour optimized. At the same time colorant spots and streaks are eliminated. This additional homogenization process results in many advantages:

### Advantages:

- Homogeneous melt (temperature, colorant distribution)
- Reduced colorant usage, products free of spots and streaks
- Improved product quality when using regenerated material
- Uniform thickness distribution  
→ less work adjustments needed
- With foamed products more uniform bubble diameters and distribution in the foam
- Better surface quality
- Improved mechanical behaviour
- Less distortion
- Our melt blenders SMB are **free of any welded parts!**

### Applications:

- Sheets
- Co-extrusion
- Blown film
- Rods, pipes
- Foamed sheets and foils
- Coating
- Profiles
- Fibres, mono-filaments
- Bottles made of polyolefines

### Static Melt Blender SMB-R (DN 12 – DN 200)



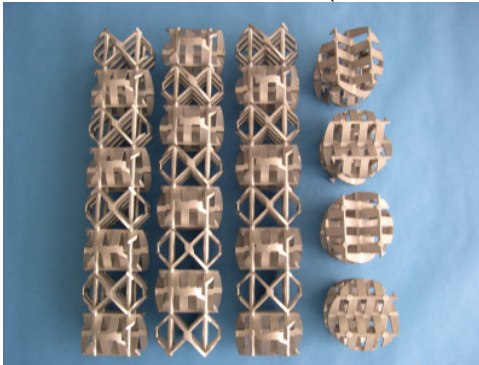
The most cost-effective execution, available from stock.

### Static Melt Blender SMB-S (DN 12 – DN 200)



Mixing elements brazed together in a vacuum stove.

### Static Melt Blender SMB-GXS (DN 25 – DN 125)



Cast in one piece.

\* The Static Melt Blender SMB-GXS is not offered for sale in the USA.

### Static Melt Blender SMB-H (DN 5 – DN 100)



Machined from a solid rod of round bar stock material in one piece, without any welding. Available in any diameter up to DN 100 and any L/D of the Mixing Element.

For more detailed information: see our technical data sheets.

For enquiries, please send us a completely filled in specification sheet "Extrusion Melt Blender SMB". On your request we shall mail you a copy of this specification sheet. You can also download directly this sheet from our website [www.stamixco.com](http://www.stamixco.com) → "Downloads".