

GX Family of Static Mixers

The designation GX represents the Stamixco Ltd. family of static mixers that have the characteristic feature of a crossing bar structure. These mixing elements are considered the best available technology for mixing/dispersing viscous materials. They are available in 2 configurations described below:

GX Mixing Elements (1st Generation Technology)

The designation GX means: G (the mixing element is a Grid structure) and X (the structure of the grid is an X shape). The design was invented by Bayer AG mid 1970ies (BKM mixer) which was subsequently licensed to Sulzer Chemtech and Koch Engineering Company. The GX configuration is Stamixco's version of the Sulzer Chemtech SMX¹⁾ brand Static Mixer*.

GXM: Metal mixing element structure in cast or welded sheet/plate construction (Figure #1.1).

GXP: Plastic mixing element construction (Figure #1.2)

GXS: Extra strong metal mixing element construction where the entire unit is cast as one piece (Figure #1.3)

GXR Mixing Elements (2nd Generation Technology)

The designation GXR means: G (the mixing element is a Grid structure), X (the structure of the grid is an X shape), and R (there is an integral support ring around the mixing element grid). This 2nd generation design with the mixer grid was also invented by Bayer AG and has been 2003 licensed to Stamixco. The ring adds tremendous strength to the fundamental GX mixing element grid structure by supporting the outside mixing bars that hang unsupported near the wall (can break off during process excursions). The ring also allows for safe and easy installation and removal from housings by pressing on the robust support ring instead of the more delicate mixing grid structure.

GXR-M: Metal mixing element construction with integral cast support ring on the outside diameter (Figure #2.1)

GXR-P: Plastic mixing element structure with integral injection molded support ring (Figure #2.2)

GXF: Foldable plastic mixing element structure with integral injection molded support ring (Figure #2.3)

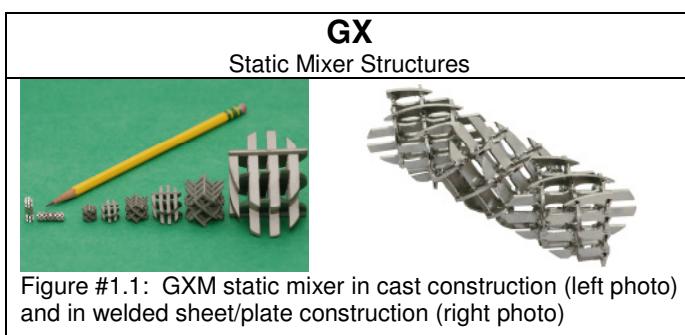


Figure #1.1: GXM static mixer in cast construction (left photo) and in welded sheet/plate construction (right photo)

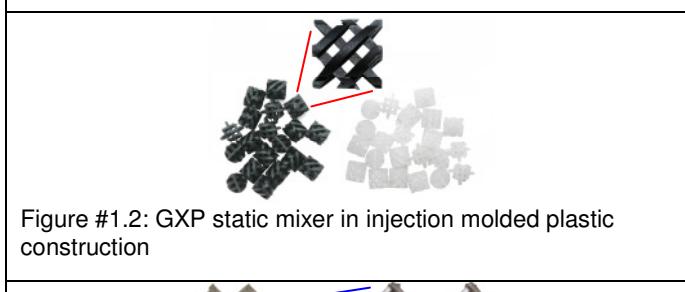


Figure #1.2: GXP static mixer in injection molded plastic construction

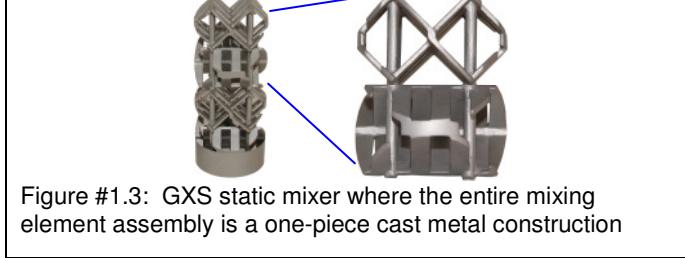


Figure #1.3: GXS static mixer where the entire mixing element assembly is a one-piece cast metal construction



Figure #2.1: GXR-M metal static mixing element with grid/ring structure (left) and complete assembly (right)



Figure #2.2: GXR-P static mixer in injection molded plastic construction.

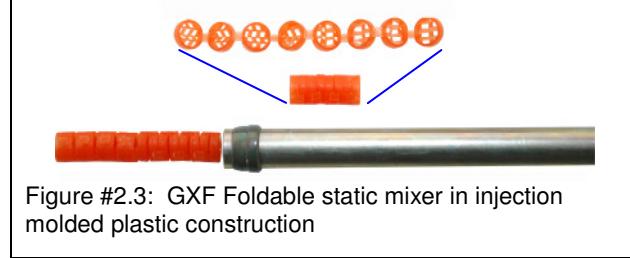


Figure #2.3: GFxF Foldable static mixer in injection molded plastic construction

* Stamixco is not a distributor of, authorized by or affiliated with Sulzer Chemtech or Koch Engineering Company.

1) SMX is since February 2005 a brand of Sulzer Chemtech.