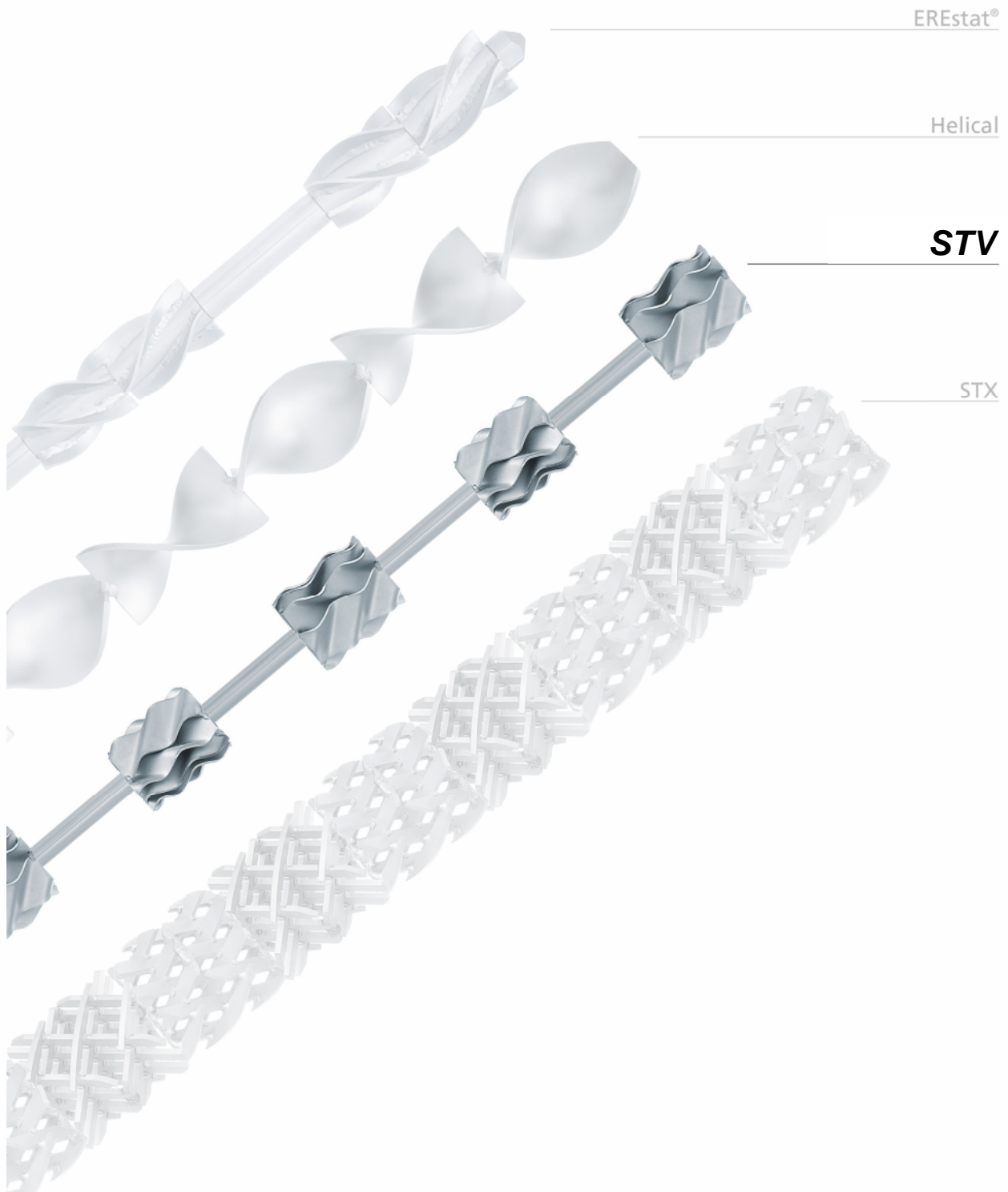




VERFAHRENSTECHNIK

Static Mixers **STV**

For low-viscosity media



EREstat®

Helical

STV

STX

Static Mixers **STV**

For low-viscosity media



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The individual mixing elements are constructed from corrugated sheet sections. They are arranged offset toward each other so that the channels of the individual flutes cross. The height of the flute and the length of the mixing element thereby depend on the application. The design type permits a large variety of materials.

A static mixer, equipped with mixing elements of the **STV** type, is superbly suited for the homogeneous merging of turbulently flowing media (gasses, watery liquids).

STV – for mixing gasses

The **STV** type mixer is superbly suited for the homogenizing of gas flows. With density or temperature differences, the **STV** prevents a laminar flow and provides a stable mix over a very short mixing segment at a low pressure loss. The extremely short size is often particularly advantageous with large nominal diameters.

STV – for insoluble liquids

The process of inline dispersing includes the merging of insoluble liquids. The **STV** mixer creates a homogenous drop dispersion while the drop size is very uniform. The drop size itself can be demonstrated based on our internal calculations. The required length of the **STV** mixer is thereby defined, which in turn affects the contact duration of the media.

STV – for gas/liquid applications

The shear forces generated in the **STV** mixing element ensure very fine bubble distribution of the added gasses. The turbulence created in the interaction with a constant regeneration of the phase limit areas thereby ensures a convincing substance transfer.

The static mixer must be appropriately dimensioned for all applications: This is done in close consultation with the customer and always specifically for the individual scenario, because the range of the **STV** applications is quite large.