Double-Syringe Biomaterial Delivery System
Double-Syringe Biomaterial Delivery System
(K-System)

Field of Application
The main applications for this system are the handling of two-component biomaterials such as tissue-adhesives and sealants as well as materials for wound treatment.

Double-Syringe
MEDMIX offers single-body double-syringes of different volumes and mixing ratios.

<table>
<thead>
<tr>
<th>Syringe Volume (Total)</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>2.5 ml</td>
<td>4:1</td>
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<tr>
<td>5.0 ml</td>
<td>10:1</td>
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*) Other volumes or ratios will be available on request

Separated Outlets and Inlets
Completely separated syringe outlets, as well as mixer and spray nozzle inlets, prevent cross-contamination and curing of the biomaterial in the outlet/inlet area. With the patented unique MEDMIX coding concept and snap-on connection, attaching and re-attaching mixers, spray nozzles or caps in the correct orientation is made easy.

Double-Syringe Filling Adapter
A filling adapter to be attached to the outlet end of the single-body double-syringe allows simultaneous filling of the syringe cylinders if not already pre-filled.
Safety Transfer Devices
MEDMIX offers a number of transfer devices to safely open and transfer liquids from ampoules or vials of different volumes to the double-syringe.

Mixers
Mixers of various diameters and different numbers of mixing elements are available for the mixing of components with different viscosities and/or ratios. The static-mixing method ensures consistent mixing performance.

Spray Nozzles
For spray applications of tissue-adhesives and sealants, MEDMIX has developed low pressure air-assisted and unassisted spray nozzles. The design ensures an even spray pattern on a small spray field and a narrow droplet size distribution. The air-assisted spray nozzle incorporates a pressure-limiting valve.

Application Accessories
For precise placement of mixed biomaterial, especially under constrained space conditions, attachable tips such as spreaders, angled tips or cannulas are available.

Engineering
For customized solutions, MEDMIX offers engineering support.
Standard MEDMIX Medical Mixing and Delivery Systems:

- Bone-Cement Delivery System (P-System)
- Powder / Liquid Mixing System (F-System)
- Bone-Graft Delivery System (G-System)
- Twin-Syringe Biomaterial Delivery System (M-System)
- Double-Syringe Biomaterial Delivery System (K-System)
- Double-Syringe Prefilled Delivery System (L-System)
- Double-Cartridge Prefilled Delivery System (S-System)
- Safety Vial Transfer Device
- Safety Ampoule Transfer Device