

Static Mixers

Accessories

Static Mixers

General Description:

EMC² stocks and supplies thousands of static mixers for our customers. We sell both TAH and Con-protec brands of dispensing mixers with a large inventory of both brands. Most orders shipped same day.

Features:

- Common mating features on all mixer sizes
- Numerous mixing element options (6, 12, 24, etc.)
- Multiple diameter mixing housings to match any flow rate
- Assorted tip configurations
- Low cost
- Disposable – no solvent required
- Round and Square designs available
- Laminar flow mixing
- Low pressure drop

Options:

- One-Piece Mixer shrouds
- Two-Piece Mixer shrouds (Specials)
- Aluminum, Steel or Nylatron shroud materials
- Luer Lok Fitting & Luer needle tips
- Matching marrying block or manifold
- Overnight cap for marrying block
- Ratio check splitter block
- Support Washer



dispensing
DEFINED

METER, MIX, DISPENSE SINCE 1977

WWW.EMCSQUARED.COM

6855 19 MILE RD. STERLING HEIGHTS MI 48314 586.254.1525

EMC²
INCORPORATED

Catalog 110 • May 2000

Motionless Mixers for Adhesives and Sealants

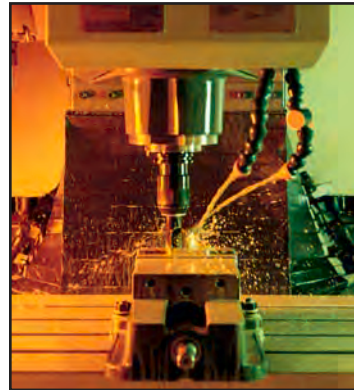


Mission Statement

TAH Industries, Inc. is a worldwide supplier of motionless mixers and related equipment. We are a partnership of customers, suppliers and employees committed to providing quality products. Our mission is to continually improve our products and services and to ultimately exceed our customers' needs, allowing us to prosper as a business.



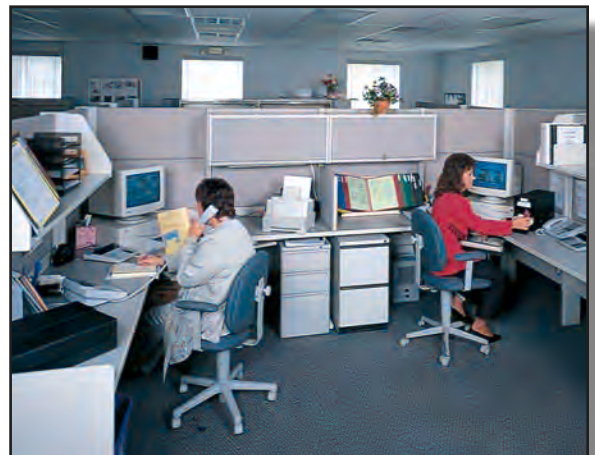
Our engineering staff utilizes modern Unigraphics & CAD/CAM Technology.



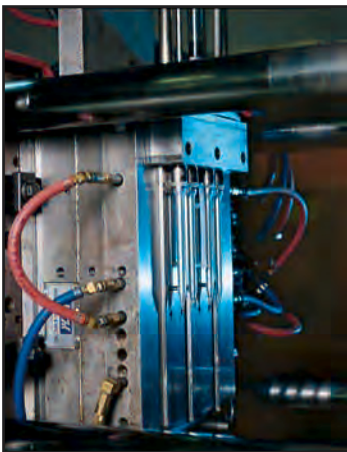
CNC equipment for all our machining needs.



Our state-of-the-art molding machines run 24 hours a day.



Superior Customer Service!



Complex in-house mold manufacturing.



Dedicated R&D lab for adhesive testing & stringent quality control.

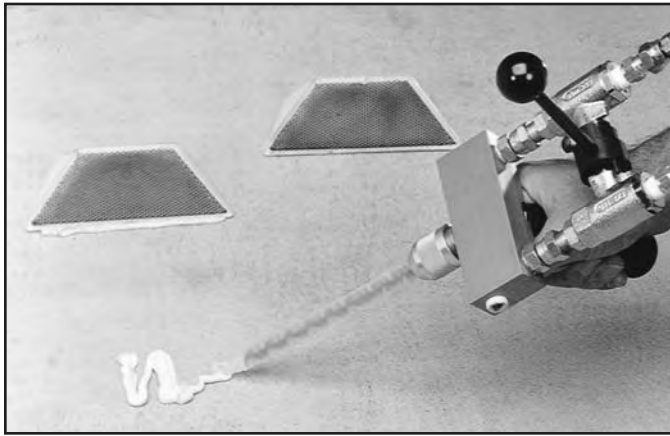
For mixing reactive adhesives and sealants, TAH Industries offers a complete line of mixers. Our mixers have proven to be reliable, cost-effective and simple to maintain. This range of products, combined with our knowledge of meter/mix equipment, gives us the capability to serve your total mixing requirements.

Maintaining a mixer used with reactive resins can be a time-consuming and expensive task. A plugged mixer means lost production. A partially plugged mixer means an inadequate mix and poor product quality. In addition, solvents used to flush the mixers are expensive and potentially hazardous.

TAH Industries recognizes these problems and has developed a line of mixers that is simple to maintain. We specialize in both disposable mixers and modular metal mixers that can be disassembled and cleaned.

Today, TAH Industries is the only company that offers this complete line of motionless mixers. We have supplied mixers to the **Construction, Electrical, Automotive, and Assembly Industries**, and have the experience to assist you in selecting the right model for your application.

Whatever the mixing job - high or low pressure, solvent flush or disposable — **TAH's Motionless Mixers** are your most cost-effective solution.



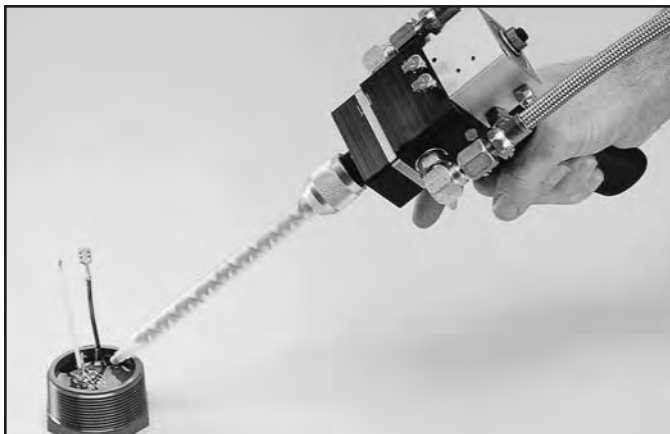
CONSTRUCTION

Bonding highway markers



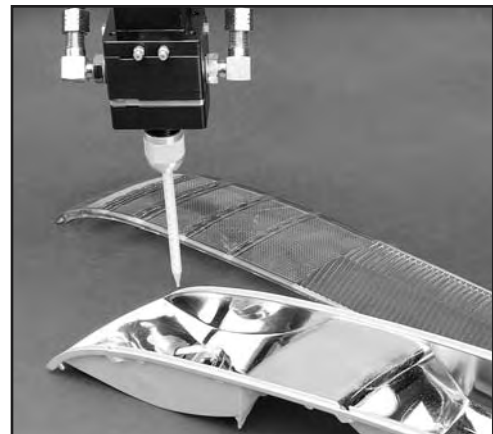
ASSEMBLY

Bonding golf club components



ELECTRICAL

Potting and Encapsulating



AUTOMOTIVE

Bonding headlight components

The **Spiral “KnifeEdged” Mixers** were developed for mixing adhesives and sealants. These mixers consist of a series of left and right hand helixes, the ends of which are knife edged. This patented feature provides a more streamlined geometry. Consider these advantages:

- **LONGER LIFE**
- **30% GREATER FLOW RATE**
- **FLUSHES WITH LESS SOLVENT**

A complete line of disposable plastic nozzles and high-pressure pipe mixers is available.



Application

The Spiral Mixer™ is recommended for most adhesive applications. Typical applications are designated in the table to the right.

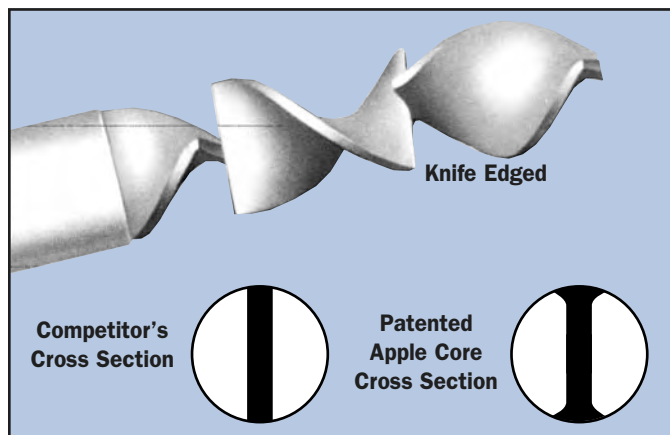
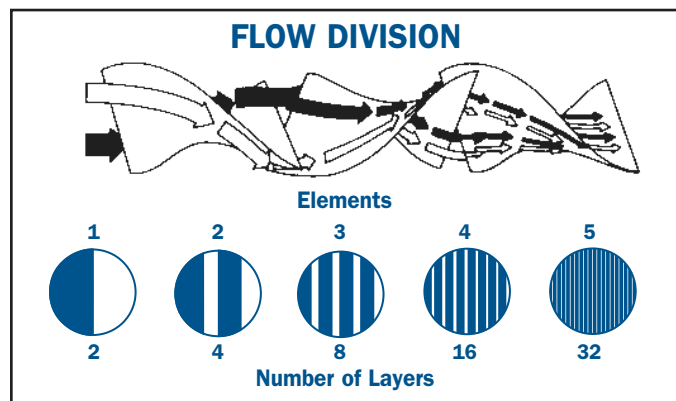
| Application | Number of Elements |
|--------------|--------------------|
| Silicones | 20-30 |
| Polysulfides | 24-32 |
| Urethanes | 24-36 |
| Epoxies | 15-24 |
| Acrylics | 8-20 |

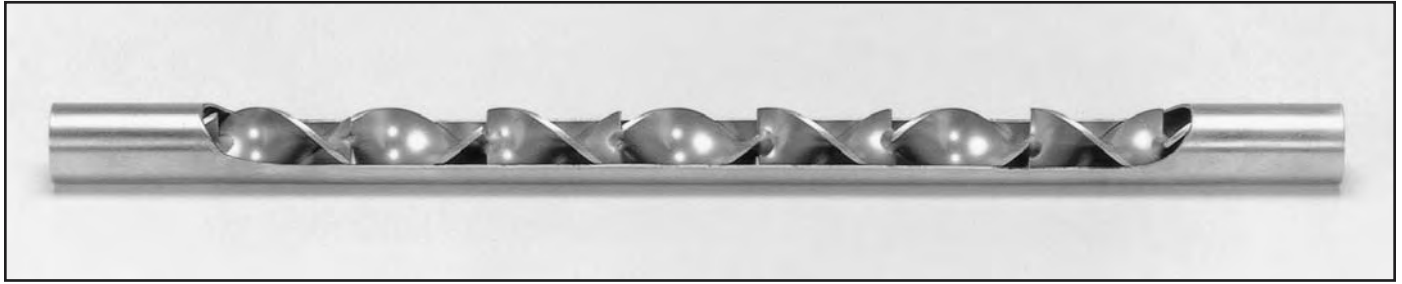
Technology

The mixer consists of a series of left and right hand helical elements. When fluids are pumped through the mixer, they are progressively divided and recombined. The process is called inversion and results in a layering phenomenon. The number of layers or striations produced is exponential to the base 2ⁿ, where n is the number of elements.

Mixers of this configuration produce plug flow, wherein the fluid particles pass through the mixer in the same sequence in which they enter. To ensure a uniform output, each component must be metered in proper ratio and free of air.

Competitive mixers have a flat edge, where material can accumulate and cause plugging problems. Our **Knife Edged** design is more streamlined. In addition to the Knife Edge, TAH’s plastic mixers have an **Apple Core cross section**. This patented feature allows complete mixing in a shorter length.





The **70 Series** Spiral Mixers are designed for high-pressure applications with two component adhesives and sealants. The mixers consist of a series of left and right hand spiral elements, which have been “edgesealed” into a tube. The spiral tube mixer is available in four diameters and with 15 to 48 elements. The elements have been microbrazed along their complete length and *cannot be removed from the tube*. Consider the advantages of this all-stainless steel assembly:

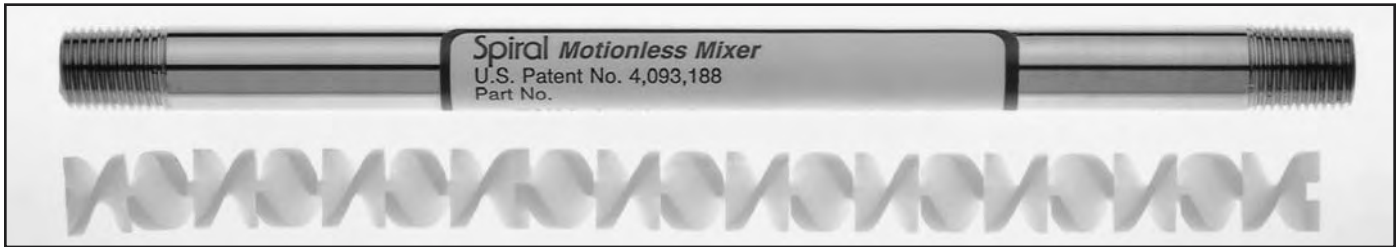
- **Moderate Price** — Offers significant savings over competitive mixers.
- **Streamline Geometry** — The contour of the elements ensures that the mixer flushes clean with less solvent.
- **Resists Furnace Warpage** — The tube mixers are manufactured with heavy walled tubing, which resists warpage during furnace cleaning and increases the life of the mixer. The maximum furnace temperature should not exceed 1250° F (676° C).

SPECIFICATION:

Elements: 316 Stainless Steel, non-removable

Housing: 304 Stainless Steel with plain ends

| PART NO. | ELEMENT | | | HOUSING | | | | | |
|----------|----------|-------|-----------------|---------|-------|------------------|-------|---------------------|-------------|
| | Diameter | | Mixing Elements | Length | | Outside Diameter | | Pressure Limitation | |
| | inch | mm | | inch | cm | inch | mm | psi @ 300°F | bar @ 150°C |
| 070-317 | .113 | 2.87 | 17 | 4.88 | 12.40 | .187 | 4.75 | 6900 | 476 |
| 070-321 | .113 | 2.87 | 21 | 6.00 | 15.24 | .187 | 4.75 | 6900 | 476 |
| 070-327 | .113 | 2.87 | 27 | 7.50 | 19.05 | .187 | 4.75 | 6900 | 476 |
| 070-421 | .187 | 4.75 | 21 | 7.00 | 17.78 | .250 | 6.35 | 4200 | 290 |
| 070-427 | .187 | 4.75 | 27 | 9.25 | 23.50 | .250 | 6.35 | 4200 | 290 |
| 070-434 | .187 | 4.75 | 34 | 11.50 | 29.21 | .250 | 6.35 | 4200 | 290 |
| 070-448 | .187 | 4.75 | 48 | 13.00 | 33.02 | .250 | 6.35 | 4200 | 290 |
| 070-621 | .292 | 7.42 | 21 | 11.00 | 27.94 | .375 | 9.53 | 3600 | 248 |
| 070-627 | .292 | 7.42 | 27 | 14.00 | 35.56 | .375 | 9.53 | 3600 | 248 |
| 070-815 | .418 | 10.62 | 15 | 11.88 | 30.18 | .500 | 12.70 | 2800 | 193 |
| 070-821 | .418 | 10.62 | 21 | 16.38 | 41.61 | .500 | 12.70 | 2800 | 193 |
| 070-832 | .418 | 10.62 | 32 | 24.75 | 62.87 | .500 | 12.70 | 2800 | 193 |



SPECIFICATION:

Elements: Polyplas™, removable
Housing: 304 Stainless Steel

The **85 Series** is designed for high-pressure applications. The mixer features a sturdy metal housing with disposable plastic mixing elements. The housing is made from heavy walled stainless pipe that resists dents and distortion. For routine maintenance, the mixer can be pushed out and cleaned or replaced. Consult factory for replacement mixers.

| PART NO. | ELEMENT | | | HOUSING | | | | | | |
|------------|----------|-------|-----------------|-----------|--------|-------|------------------|-------|---------------------|------------|
| | Diameter | | Mixing Elements | Ends MNPT | Length | | Outside Diameter | | Pressure Limitation | |
| | inch | mm | | | inch | cm | inch | mm | psi @ 75°F | bar @ 23°C |
| 084-206 | .094 | 2.39 | 6 | Plain | 1.25 | 3.18 | .127 | 3.23 | 5000 | 345 |
| 084-212 | .094 | 2.39 | 12 | Plain | 1.25 | 3.18 | .127 | 3.23 | 5000 | 345 |
| 084-218 | .094 | 2.39 | 18 | Plain | 1.83 | 4.65 | .127 | 3.23 | 5000 | 345 |
| 084-224 | .094 | 2.39 | 24 | Plain | 2.40 | 6.10 | .127 | 3.23 | 5000 | 345 |
| 084-230 | .094 | 2.39 | 30 | Plain | 2.99 | 7.59 | .127 | 3.23 | 5000 | 345 |
| 084-312 | .125 | 3.18 | 12 | Plain | 1.50 | 3.81 | .187 | 4.75 | 5800 | 400 |
| 084-318 | .125 | 3.18 | 18 | Plain | 2.20 | 5.59 | .187 | 4.75 | 5800 | 400 |
| 084-324 | .125 | 3.18 | 24 | Plain | 2.80 | 7.11 | .187 | 4.75 | 5800 | 400 |
| 084-330 | .125 | 3.18 | 30 | Plain | 3.50 | 8.89 | .187 | 4.75 | 5800 | 400 |
| 084-408 | .189 | 4.80 | 8 | Plain | 1.50 | 3.81 | .250 | 6.35 | 4300 | 297 |
| 084-416 | .189 | 4.80 | 16 | Plain | 2.70 | 6.86 | .250 | 6.35 | 4300 | 297 |
| 084-424 | .189 | 4.80 | 24 | Plain | 4.00 | 10.16 | .250 | 6.35 | 4300 | 297 |
| 084-432 | .189 | 4.80 | 32 | Plain | 5.30 | 13.46 | .250 | 6.35 | 4300 | 297 |
| 085-108 | .248 | 6.30 | 8 | 1/8" | 2.38 | 6.05 | .405 | 10.29 | 7700 | 530 |
| 085-116 | .248 | 6.30 | 16 | 1/8" | 4.38 | 11.13 | .405 | 10.29 | 7700 | 530 |
| 085-124 | .248 | 6.30 | 24 | 1/8" | 6.38 | 16.21 | .405 | 10.29 | 7700 | 530 |
| 085-132 | .248 | 6.30 | 32 | 1/8" | 8.38 | 21.29 | .405 | 10.29 | 7700 | 530 |
| 085-32-012 | .314 | 8.00 | 12 | 1/4" | 4.10 | 10.41 | .540 | 13.72 | 8400 | 580 |
| 085-32-018 | .314 | 8.00 | 18 | 1/4" | 6.00 | 15.24 | .540 | 13.72 | 8400 | 580 |
| 085-32-024 | .314 | 8.00 | 24 | 1/4" | 7.70 | 19.56 | .540 | 13.72 | 8400 | 580 |
| 085-32-030 | .314 | 8.00 | 30 | 1/4" | 9.50 | 24.13 | .540 | 13.72 | 8400 | 580 |
| 085-212 | .366 | 9.30 | 12 | 1/4" | 4.20 | 10.67 | .540 | 13.72 | 8500 | 585 |
| 085-218 | .366 | 9.30 | 18 | 1/4" | 6.20 | 15.75 | .540 | 13.72 | 8500 | 585 |
| 085-224 | .366 | 9.30 | 24 | 1/4" | 8.20 | 20.83 | .540 | 13.72 | 8500 | 585 |
| 085-230 | .366 | 9.30 | 30 | 1/4" | 10.00 | 25.40 | .540 | 13.72 | 8500 | 585 |
| 085-312 | .497 | 12.62 | 12 | 3/8" | 5.50 | 13.97 | .675 | 17.15 | 7250 | 500 |
| 085-318 | .497 | 12.62 | 18 | 3/8" | 8.00 | 20.32 | .675 | 17.15 | 7250 | 500 |
| 085-324 | .497 | 12.62 | 24 | 3/8" | 10.70 | 27.18 | .675 | 17.15 | 7250 | 500 |
| 085-330 | .497 | 12.62 | 30 | 3/8" | 13.12 | 33.32 | .675 | 17.15 | 7250 | 500 |
| 085-410 | .630 | 16.00 | 10 | 1/2" | 5.80 | 14.73 | .840 | 21.34 | 7250 | 500 |
| 085-420 | .630 | 16.00 | 20 | 1/2" | 11.10 | 28.19 | .840 | 21.34 | 7250 | 500 |
| 085-430 | .630 | 16.00 | 30 | 1/2" | 16.40 | 41.66 | .840 | 21.34 | 7250 | 500 |
| 085-608 | .784 | 19.91 | 8 | 3/4" | 5.80 | 14.73 | 1.050 | 26.67 | 6000 | 415 |
| 085-616 | .784 | 19.91 | 16 | 3/4" | 11.10 | 28.19 | 1.050 | 26.67 | 6000 | 415 |
| 085-624 | .784 | 19.91 | 24 | 3/4" | 16.40 | 41.66 | 1.050 | 26.67 | 6000 | 415 |
| 085-632 | .784 | 19.91 | 32 | 3/4" | 21.70 | 55.12 | 1.050 | 26.67 | 6000 | 415 |



SPECIFICATION:

Elements: 316 Stainless Steel, removable

Housing: 304 Stainless Steel Pipe
Male Threaded Ends-NPT

This all-stainless mixer is rugged and reliable. The interior elements are available with either a Teflon® coating or plain stainless elements. The **100 Series** is modular. Each diameter is available in two lengths, with either six or twelve elements. For most applications, two modules should be coupled together using a pipe connector.

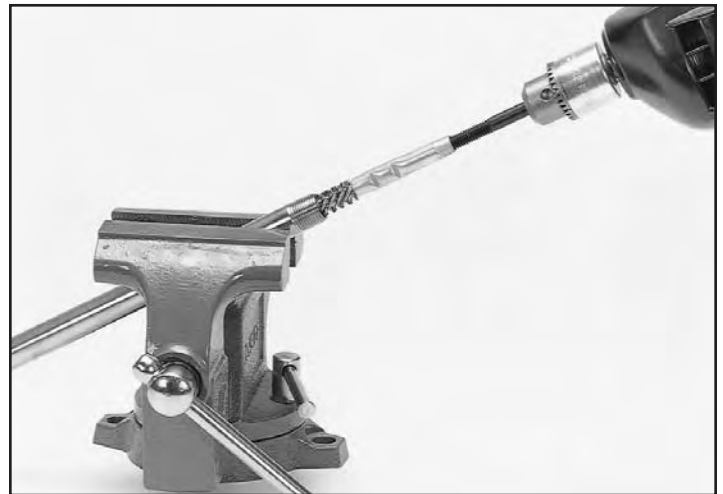
| PART NO. | | ELEMENT | | | HOUSING | | | | | | |
|--------------------|-------------------------|----------|-------|-----------------|-----------|--------|-------|------------------|-------|---------------------|-------------|
| Stainless Elements | Teflon® Coated Elements | Diameter | | Mixing Elements | Ends MNPT | Length | | Outside Diameter | | Pressure Limitation | |
| | | inch | mm | | | inch | cm | inch | mm | psi @ 300°F | bar @ 150°C |
| 100-106 | 102-106 | .267 | 6.78 | 6 | 1/8" | 2.75 | 6.99 | .405 | 10.29 | 8750 | 600 |
| 100-112 | 102-112 | .267 | 6.78 | 12 | 1/8" | 5.38 | 13.67 | .405 | 10.29 | 8750 | 600 |
| 100-206 | 102-206 | .363 | 9.22 | 6 | 1/4" | 3.75 | 9.53 | .540 | 13.72 | 8500 | 585 |
| 100-212 | 102-212 | .363 | 9.22 | 12 | 1/4" | 7.00 | 17.78 | .540 | 13.72 | 8500 | 585 |
| 100-306 | 102-306 | .494 | 12.55 | 6 | 3/8" | 5.00 | 12.70 | .675 | 17.15 | 7250 | 500 |
| 100-312 | 102-312 | .494 | 12.55 | 12 | 3/8" | 9.50 | 24.13 | .675 | 17.15 | 7250 | 500 |
| 100-406 | 102-406 | .623 | 15.83 | 6 | 1/2" | 5.75 | 14.61 | .840 | 21.34 | 7250 | 500 |
| 100-412 | 102-412 | .623 | 15.83 | 12 | 1/2" | 11.00 | 27.94 | .840 | 21.34 | 7250 | 500 |
| 100-606 | 102-606 | .779 | 19.79 | 6 | 3/4" | 7.75 | 19.69 | 1.050 | 26.67 | 6000 | 415 |
| 100-612 | 102-612 | .779 | 19.79 | 12 | 3/4" | 14.75 | 37.47 | 1.050 | 26.67 | 6000 | 415 |
| 100-806 | 102-806 | 1.032 | 26.21 | 6 | 1" | 9.50 | 24.13 | 1.315 | 33.40 | 4500 | 310 |
| 100-812 | 102-812 | 1.032 | 26.21 | 12 | 1" | 18.50 | 46.99 | 1.315 | 33.40 | 4500 | 310 |
| 101-206 | 103-206 | 1.580 | 40.13 | 6 | 1 1/2" | 14.00 | 35.56 | 1.900 | 48.26 | 3000 | 207 |
| 101-212 | 103-212 | 1.580 | 40.13 | 12 | 1 1/2" | 27.25 | 69.22 | 1.900 | 48.26 | 3000 | 207 |
| 101-606 | 103-606 | 2.035 | 51.69 | 6 | 2" | 17.50 | 44.45 | 2.375 | 60.33 | 2500 | 170 |
| 101-612 | 103-612 | 2.035 | 51.69 | 12 | 2" | 34.50 | 87.63 | 2.375 | 60.33 | 2500 | 170 |

Pipe Connector — The modular **100 Series** Pipe Mixers are coupled together with hex pipe connectors.

Example: To order a 3/4" Pipe Mixer with 24 Teflon® coated elements, order two Part No. 102-612 and one Pipe Connector Part No. 108-065C

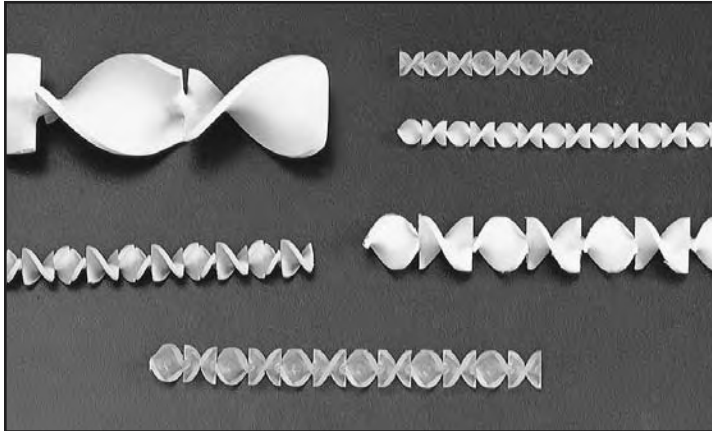


Wire Brush — After the elements have been removed, a residue remains on the inside wall of the pipe. As illustrated, this residue can be removed with a wire brush attached to an electric drill. Brush bristles are stainless steel to prevent contamination.



| PART NO. | FEMALE THREADS NPT Inch | MATERIAL |
|----------|----------------------------|--------------|
| 108-015C | 1/8 | 316SS |
| 108-025C | 1/4 | 316SS |
| 108-035C | 3/8 | 316SS |
| 108-036C | 3/8 | Carbon Steel |
| 108-045C | 1/2 | 316SS |
| 108-046C | 1/2 | Carbon Steel |
| 108-065C | 3/4 | 316SS |
| 108-066C | 3/4 | Carbon Steel |
| 108-085C | 1 | 316SS |
| 108-086C | 1 | Carbon Steel |

| PART NO. | PIPE OD | | LENGTH | |
|-----------|---------|-------|--------|------|
| | inch | mm | inch | cm |
| 109-106WB | .405 | 10.29 | 5.0 | 12.7 |
| 109-112WB | .405 | 10.29 | 8.0 | 20.3 |
| 109-206WB | .540 | 13.72 | 6.0 | 15.2 |
| 109-212WB | .540 | 13.72 | 9.0 | 22.9 |
| 109-306WB | .675 | 17.15 | 7.0 | 17.8 |
| 109-312WB | .675 | 17.15 | 12.0 | 30.5 |
| 109-406WB | .840 | 21.34 | 8.0 | 20.3 |
| 109-412WB | .840 | 21.34 | 13.0 | 33.0 |
| 109-606WB | 1.050 | 26.67 | 10.0 | 25.4 |
| 109-612WB | 1.050 | 26.67 | 16.0 | 40.6 |
| 109-806WB | 1.315 | 33.40 | 12.0 | 30.5 |
| 109-812WB | 1.315 | 33.40 | 21.0 | 53.3 |



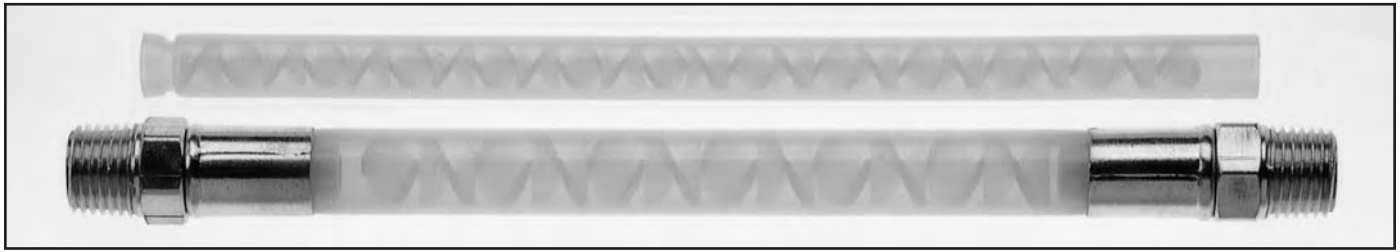
The plastic spiral elements were developed for adhesive and sealant mixing applications. The mixer consists of a series of left and right hand spiral elements. TAH's mixers have the patented "Apple Core" cross section. This patented geometry ensures:

- **LONGER LIFE**
- **30% GREATER FLOW RATE**
- **FLUSHES CLEAN WITH LESS SOLVENT**

The elements are injection molded in one operation. This procedure ensures excellent quality control and low unit cost. For adhesive and sealant applications, our Polyplas™ material is recommended. If required, TAH also offers these elements in other engineered plastics, such as Polypropylene and Kynar™ (consult factory for details).

CHEMICAL RESISTANCE: Polyplas™ is our proprietary plastic developed to have the toughness and chemical inertness required by the Adhesives and Sealants Industry. Polyplas™ is completely inert to all common solvents, such as MEK, acetone and methylene chloride. Its maximum service temperature is 250° F. Polyplas™ is not recommended for mixing water and acids.

| PART NO. | ELEMENT | | | | | |
|------------|----------|-------|-----------------|--------|-------|-----------|
| | Diameter | | Mixing Elements | Length | | Material |
| | inch | mm | | inch | cm | |
| 121-09-012 | .094 | 2.39 | 12 | 1.13 | 2.87 | Polyplas™ |
| 121-012 | .125 | 3.18 | 12 | 1.30 | 3.30 | Polyplas™ |
| 121-116 | .189 | 4.80 | 16 | 2.56 | 6.50 | Polyplas™ |
| 121-216 | .248 | 6.30 | 16 | 3.96 | 10.06 | Polyplas™ |
| 121-224 | .248 | 6.30 | 24 | 5.94 | 15.09 | Polyplas™ |
| 121-32-012 | .314 | 8.00 | 12 | 3.67 | 9.32 | Polyplas™ |
| 121-312 | .370 | 9.40 | 12 | 3.90 | 9.91 | Polyplas™ |
| 121-324 | .366 | 9.30 | 24 | 7.83 | 19.89 | Polyplas™ |
| 121-412 | .497 | 12.62 | 12 | 5.00 | 12.70 | Polyplas™ |
| 121-418 | .497 | 12.62 | 18 | 7.47 | 18.97 | Polyplas™ |
| 121-510 | .630 | 16.00 | 10 | 5.42 | 13.77 | Polyplas™ |
| 121-608 | .784 | 19.91 | 8 | 5.37 | 13.64 | Polyplas™ |



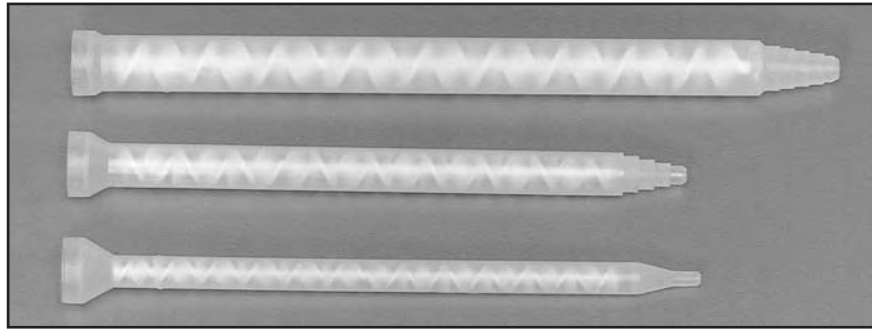
This all-plastic assembly is ideal for messy or short pot life adhesives. Its low cost allows disposal of the mixer instead of purging or burning. The housing is transparent, allowing the operator to inspect the condition of the mixer. The interior mixing elements are molded in Polyplas™. This proprietary plastic has the toughness and chemical resistance to be completely inert to all common solvents.

SPECIFICATION:

Elements: Polyplas™, non-removable

Housing: Nylon or Nylon with brass threaded ends

| PART NO. | ELEMENT | | | HOUSING | | | | | | |
|----------|----------|-------|--------------------|-----------|--------|-------|------------------|-------|---------------------|------------|
| | Diameter | | Number of Elements | Ends MNPT | Length | | Outside Diameter | | Pressure Limitation | |
| | inch | mm | | | inch | cm | inch | mm | psi @ 75°F | bar @ 23°C |
| 140-212 | 0.094 | 2.39 | 12 | Plain | 1.50 | 3.81 | 0.188 | 4.78 | 940 | 65 |
| 140-218 | 0.094 | 2.39 | 18 | Plain | 2.10 | 5.33 | 0.188 | 4.78 | 940 | 65 |
| 140-224 | 0.094 | 2.39 | 24 | Plain | 2.65 | 6.73 | 0.188 | 4.78 | 940 | 65 |
| 140-230 | 0.094 | 2.39 | 30 | Plain | 3.25 | 8.26 | 0.188 | 4.78 | 940 | 65 |
| 140-312 | 0.125 | 3.18 | 12 | Plain | 1.50 | 3.81 | 0.187 | 4.75 | 580 | 40 |
| 140-318 | 0.125 | 3.18 | 18 | Plain | 2.20 | 5.59 | 0.187 | 4.75 | 580 | 40 |
| 140-324 | 0.125 | 3.18 | 24 | Plain | 2.80 | 7.11 | 0.187 | 4.75 | 580 | 40 |
| 140-330 | 0.125 | 3.18 | 30 | Plain | 3.50 | 8.89 | 0.187 | 4.75 | 580 | 40 |
| 140-408 | 0.189 | 4.80 | 8 | Plain | 1.50 | 3.81 | 0.250 | 6.35 | 430 | 30 |
| 140-416 | 0.189 | 4.80 | 16 | Plain | 2.80 | 7.11 | 0.250 | 6.35 | 430 | 30 |
| 140-424 | 0.189 | 4.80 | 24 | Plain | 4.10 | 10.41 | 0.250 | 6.35 | 430 | 30 |
| 140-432 | 0.189 | 4.80 | 32 | Plain | 5.40 | 13.72 | 0.250 | 6.35 | 430 | 30 |
| 140-608 | 0.248 | 6.30 | 8 | Plain | 2.50 | 6.35 | 0.375 | 9.53 | 600 | 41 |
| 140-616 | 0.248 | 6.30 | 16 | Plain | 4.50 | 11.43 | 0.375 | 9.53 | 600 | 41 |
| 140-624 | 0.248 | 6.30 | 24 | Plain | 6.50 | 16.51 | 0.375 | 9.53 | 600 | 41 |
| 140-632 | 0.248 | 6.30 | 32 | Plain | 8.50 | 21.59 | 0.375 | 9.53 | 600 | 41 |
| 145-712 | 0.314 | 8.00 | 12 | 1/4" | 7.10 | 18.03 | 0.437 | 11.10 | 550 | 38 |
| 145-718 | 0.314 | 8.00 | 18 | 1/4" | 9.10 | 23.11 | 0.437 | 11.10 | 550 | 38 |
| 145-724 | 0.314 | 8.00 | 24 | 1/4" | 10.70 | 27.18 | 0.437 | 11.10 | 550 | 38 |
| 145-730 | 0.314 | 8.00 | 30 | 1/4" | 12.70 | 32.26 | 0.437 | 11.10 | 550 | 38 |
| 145-812 | 0.370 | 9.40 | 12 | 1/4" | 7.50 | 19.05 | 0.500 | 12.70 | 460 | 32 |
| 145-818 | 0.370 | 9.40 | 18 | 1/4" | 9.60 | 24.38 | 0.500 | 12.70 | 460 | 32 |
| 145-824 | 0.370 | 9.40 | 24 | 1/4" | 11.50 | 29.21 | 0.500 | 12.70 | 460 | 32 |
| 145-830 | 0.370 | 9.40 | 30 | 1/4" | 13.50 | 34.29 | 0.500 | 12.70 | 460 | 32 |
| 146-212 | 0.497 | 12.62 | 12 | 3/8" | 8.50 | 21.59 | 0.630 | 16.00 | 350 | 24 |
| 146-218 | 0.497 | 12.62 | 18 | 3/8" | 11.10 | 28.19 | 0.630 | 16.00 | 350 | 24 |
| 146-224 | 0.497 | 12.62 | 24 | 3/8" | 13.50 | 34.29 | 0.630 | 16.00 | 350 | 24 |
| 146-230 | 0.497 | 12.62 | 30 | 3/8" | 16.00 | 40.64 | 0.630 | 16.00 | 350 | 24 |
| 146-410 | 0.630 | 16.00 | 10 | 1/2" | 9.40 | 23.88 | 0.760 | 19.30 | 300 | 21 |
| 146-420 | 0.630 | 16.00 | 20 | 1/2" | 14.40 | 36.58 | 0.760 | 19.30 | 300 | 21 |
| 146-430 | 0.630 | 16.00 | 30 | 1/2" | 19.70 | 50.04 | 0.760 | 19.30 | 300 | 21 |
| 146-608 | 0.784 | 19.91 | 8 | 3/4" | 10.00 | 25.40 | 0.920 | 23.37 | 240 | 17 |
| 146-616 | 0.784 | 19.91 | 16 | 3/4" | 15.10 | 38.35 | 0.920 | 23.37 | 240 | 17 |
| 146-624 | 0.784 | 19.91 | 24 | 3/4" | 20.40 | 51.82 | 0.920 | 23.37 | 240 | 17 |
| 146-632 | 0.784 | 19.91 | 32 | 3/4" | 25.60 | 65.02 | 0.920 | 23.37 | 240 | 17 |



SPECIFICATION:

Elements: Polyplas™

Housing: Polypropylene

The **160 Series** Mixers offer significant advantages in meter/mix applications. The nozzles have a common oversized bell inlet. Dispensing valves and manifolds are available to transport the A and B materials into the mixer separately. Clean-up is simple. A metal jacket is recommended if the working pressure inside the nozzle exceeds 150 psi (10 bar).

| OUTLET TIP | | | |
|------------|---------|------|-----------|
| PART NO. | ORIFICE | | STYLE |
| | inch | mm | |
| 160-4XX | .07 | 1.78 | Slip Luer |
| 160-6XX | .09 | 2.29 | Slip Luer |
| 160-7XX | .10 | 2.54 | Stepped |
| 160-8XX | .12 | 3.05 | Stepped |
| 161-2XX | .18 | 4.57 | Stepped |

Test Kit Available

Contains an assortment of various mixers of different models. Includes retaining nuts and sleeves.
Part No. 160-TK

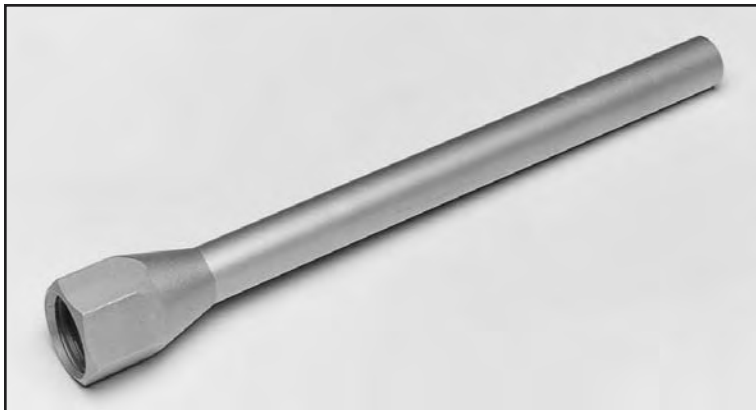
| PART NO. | ELEMENT | | | HOUSING | | | | | |
|----------|----------|-------|--------------------|---------|-------|------------------|-------|---------------------|------------|
| | Diameter | | Number of Elements | Length | | Outside Diameter | | Pressure Limitation | |
| | inch | mm | | inch | cm | inch | mm | psi @ 75°F | bar @ 23°C |
| 160-408 | 0.189 | 4.80 | 8 | 2.62 | 6.65 | 0.300 | 7.62 | 500 | 34 |
| 160-416 | 0.189 | 4.80 | 16 | 3.90 | 9.91 | 0.300 | 7.62 | 500 | 34 |
| 160-424 | 0.189 | 4.80 | 24 | 5.18 | 13.16 | 0.300 | 7.62 | 500 | 34 |
| 160-432 | 0.189 | 4.80 | 32 | 6.48 | 16.46 | 0.300 | 7.62 | 500 | 34 |
| 160-448 | 0.189 | 4.80 | 48 | 9.04 | 22.96 | 0.300 | 7.62 | 500 | 34 |
| 160-608 | 0.248 | 6.30 | 8 | 3.56 | 9.04 | 0.370 | 9.40 | 360 | 25 |
| 160-616 | 0.248 | 6.30 | 16 | 5.46 | 13.87 | 0.370 | 9.40 | 360 | 25 |
| 160-624 | 0.248 | 6.30 | 24 | 7.46 | 18.95 | 0.370 | 9.40 | 360 | 25 |
| 160-632 | 0.248 | 6.30 | 32 | 9.49 | 24.10 | 0.370 | 9.40 | 360 | 25 |
| 160-648 | 0.248 | 6.30 | 48 | 13.14 | 33.38 | 0.370 | 9.40 | 360 | 25 |
| 160-718 | 0.314 | 8.00 | 18 | 6.96 | 17.68 | 0.461 | 11.71 | 330 | 23 |
| 160-724 | 0.314 | 8.00 | 24 | 8.84 | 22.45 | 0.461 | 11.71 | 330 | 23 |
| 160-732 | 0.314 | 8.00 | 32 | 11.44 | 29.06 | 0.461 | 11.71 | 330 | 23 |
| 160-812 | 0.366 | 9.30 | 12 | 5.48 | 13.92 | 0.510 | 12.95 | 300 | 21 |
| 160-818 | 0.366 | 9.30 | 18 | 7.28 | 18.49 | 0.510 | 12.95 | 300 | 21 |
| 160-824 | 0.366 | 9.30 | 24 | 9.15 | 23.24 | 0.510 | 12.95 | 300 | 21 |
| 160-830 | 0.366 | 9.30 | 30 | 11.24 | 28.55 | 0.510 | 12.95 | 300 | 21 |
| 160-840 | 0.366 | 9.30 | 40 | 14.14 | 35.92 | 0.510 | 12.95 | 300 | 21 |
| 161-212 | 0.497 | 12.65 | 12 | 6.71 | 17.04 | 0.660 | 16.76 | 270 | 19 |
| 161-218 | 0.497 | 12.65 | 18 | 9.08 | 23.06 | 0.660 | 16.76 | 270 | 19 |
| 161-224 | 0.497 | 12.65 | 24 | 11.60 | 29.46 | 0.660 | 16.76 | 270 | 19 |
| 161-230 | 0.497 | 12.65 | 30 | 14.09 | 35.79 | 0.660 | 16.76 | 270 | 19 |
| 161-236 | 0.497 | 12.65 | 36 | 16.63 | 42.24 | 0.660 | 16.76 | 270 | 19 |



Retaining Nut

Aluminum retaining nuts are available to hold the **160 Series** nozzles onto adapters, manifolds and valves. These retaining nuts are used when a metal jacket is not required.

| RETAINING NUT PART NO. | | DESCRIPTION / MIXING NOZZLE PART NO. |
|-------------------------------|------------------------------|---|
| TAH Standard 7/8–14 Thread | Alternative* 7/8–9 Thread | |
| 165-36N | 165-36N-A-9S | Aluminum Nut for 160-4XX & 160-6XX Mixers |
| 165-37N | 165-37N-A-9S | Aluminum Nut for 160-7XX & 160-8XX Mixers |
| 165-38N | 165-38N-A-9S | Aluminum Nut for 161-2XX Mixers |



One Piece Jacket

If the working pressure inside the **160 Series** nozzle is greater than 150 psi (10 bar), then we recommend that a metal jacket be used over the nozzle. TAH offers a new range of low cost, all one piece, jackets for our **160 Series** mixers. They are ideal for robotic applications, where repeatable positioning is required. All TAH manifolds and valves have a 7/8 – 14 thread. Consult factory for more details.

| JACKET PART NUMBER | | DESCRIPTION / MIXING NOZZLE PART NO. |
|----------------------------------|---------------------------|--------------------------------------|
| TAH Standard 7/8–14 Inlet Thread | Alternative* 7/8–9 Thread | |
| 165-616JL | 165-616JL-9 | Aluminum Jacket for 160-616 mixer |
| 165-624JL | 165-624JL-9 | Aluminum Jacket for 160-624 mixer |
| 165-632JL | 165-632JL-9 | Aluminum Jacket for 160-632 mixer |
| 165-648JL | 165-648JL-9 | Aluminum Jacket for 160-648 mixer |
| 165-718JL | 165-718JL-9 | Aluminum Jacket for 160-718 mixer |
| 165-724JL | 165-724JL-9 | Aluminum Jacket for 160-724 mixer |
| 165-732JL | 165-732JL-9 | Aluminum Jacket for 160-732 mixer |
| 165-818JL | 165-818JL-9 | Aluminum Jacket for 160-818 mixer |
| 165-824JL | 165-824JL-9 | Aluminum Jacket for 160-824 mixer |
| 165-830JL | 165-830JL-9 | Aluminum Jacket for 160-830 mixer |
| 165-840JL | 165-840JL-9 | Aluminum Jacket for 160-840 mixer |
| 166-218J | 166-218J-9 | CS nut/Alum Jacket for 161-218 mixer |
| 166-224J | 166-224J-9 | CS nut/Alum Jacket for 161-224 mixer |
| 166-230J | 166-230J-9 | CS nut/Alum Jacket for 161-230 mixer |
| 166-236J | 166-236J-9 | CS nut/Alum Jacket for 161-236 mixer |

* See page 14 for more details (Bell Inlet)



Manifold

Two component manifolds are available which separately port the resin/hardener into the mixing nozzle. Clean up simply involves wiping the manifold face after the nozzle has been removed. To prevent back flow or cross contamination of reactive material, in-line check valves are available. Stainless steel manifolds are also available. Consult factory for details.

| PART NO. | DESCRIPTION |
|------------|--|
| 175-43M | Aluminum Hand Held Manifold with two 1/8" FNPT Inlets |
| 175-411M | Aluminum Block Manifold with two 1/8" FNPT Inlets |
| 175-412M | Aluminum Block Manifold with two 1/8" FNPT Inlets & 1/4" FNPT Solvent Port |
| 175-421M | Aluminum Block Manifold with two 1/4" FNPT Inlets |
| 175-422M | Aluminum Block Manifold with two 1/4" FNPT Inlets & 1/4" FNPT Solvent Port |
| 165-RC/01 | Teflon® Ratio Check Cap and Nut |
| 165-Cap/01 | Teflon® Night Cap and Nut |
| 200-61CV | Brass Check Valve with 1/8" MNPT Ports |
| 200-51CV | Stainless Steel Check Valve with 1/8" MNPT Ports |
| 200-62CV | Brass Check Valve with 1/4" MNPT Ports |
| 200-52CV | Stainless Steel Check Valve with 1/4" MNPT Ports |
| 501-131 | Brass Solvent Check Valve with 1/4" MNPT x 1/8" FNPT Inlet |
| 501-131SS | Stainless Steel Solvent Check Valve with 1/4" MNPT x 1/8" FNPT Inlet |



Adapter

The **160 Series** Nozzles can be connected to some existing manifolds or valves with the following pipe adapters:

| PART NO. | DESCRIPTION |
|----------|--|
| 170-32A | CS Adapter with 1/4" Male NPT Inlet |
| 170-33A | CS Adapter with 3/8" Male NPT Inlet |
| 170-34A | CS Adapter with 1/2" Male NPT Inlet |
| 170-36A | CS Adapter with 3/4" Male NPT Inlet |
| 170-31A | CS Adapter with 11/16" x 16 Female NPT Inlet (For Venus Gun) |



Luer Lock Fitting

In order to attach a needle, a male Luer lock is offered on the **160 Series** mixers. When ordering, simply add the suffix "LL" to the mixer part number (e.g. 160-818LL). If you want to use a metal jacket with the 160-4XX and 160-6XX mixers then you need to order the mixer and the Luer lock fitting as two separate items unassembled. Please consult factory for details.



Support Washers

For added strength, a support washer can be added to the **160 Series** Mixers. With high pressure drops (greater than 250 psi), the washer supports the mixers and prevents crushing. When ordering, add the suffix “W” to the mixer part number.



Luer Needles

Two types of Luer needles are available. The standard needles have stainless tubing* with burr-free blunt ends and plastic hubs. The tapered needles are a one-piece, plastic molded part. The needles are color-coded and pre-packaged, 50 needles per bag.

| PART NO. | COLOR | DESCRIPTION |
|------------|--------|---|
| 205-14-1/2 | White | 0.063" (1.6 mm) Dia outlet orifice - Standard |
| 205-14-TT | Clear | 0.063" (1.6 mm) Dia outlet orifice - Tapered |
| 205-16-1/2 | Purple | 0.047" (1.2 mm) Dia outlet orifice - Standard |
| 205-16-TT | Grey | 0.047" (1.2 mm) Dia outlet orifice - Tapered |
| 205-18-1/2 | Pink | 0.033" (0.8 mm) Dia outlet orifice - Standard |
| 205-18-TT | Green | 0.033" (0.8 mm) Dia outlet orifice - Tapered |
| 205-20-1/2 | Yellow | 0.023" (0.6 mm) Dia outlet orifice - Standard |
| 205-TK | | Test Kit - Assortment 30 Needles |

* All standard needles consist of a 1/2" (12 mm) long SS tube shaft



Bell Inlet

Non-TAH Manifolds and Cartridges - TAH offers the best quality and lowest cost mixing nozzles, replacing more expensive competitive mixers is **AS EASY AS 1, 2, 3 . . .**

1. Bell Detail - Some competitive mixing nozzles have a smaller inlet bell. TAH offers plastic sleeves which press fit into the standard 160 Series bell to convert our mixers to their size. Order Part No. 160-SLV.

2. Retaining Nut - The mixing nozzle is held onto the manifold with a retaining nut. All TAH manifolds and adapters have a 7/8 – 14 thread. Some competitors have a 7/8 – 9 thread. TAH offers plastic and aluminum nuts to fit their equipment. Consult Factory.

3. Jacket - Metal jackets are recommended if the working pressure inside the nozzle exceeds 150 psi. The jacket must fit the mixing nozzle snugly. Usually competitive jackets do not fit TAH mixing nozzles, therefore TAH offers a complete selection of low cost one-piece jackets. See page 12 for details.



The **230 Series** Multi-Core Mixers are designed for high-pressure meter/mix applications with messy adhesives. Consider these advantages:

- **EASY TO CLEAN**
- **COMPACT**
- **ECONOMICAL**

Even if a multi-core mixer is completely potted with cured resin, it can be disassembled. The elements can always be pushed out of the “non-stick” Polyplas™ body.

DESCRIPTION: The mixing path is serpentine. There are three mixing stages. Each stage has eight or twelve elements and they are connected with U-bends. The end cap and body are held together with three socket head cap screws.

Since the elements are supported in three places within the mixer, the maximum allowable pressure drop is over 1,000 psi. Refer to 120 Series for replacement elements.

SPECIFICATION:

Elements: Polyplas™

Housing: Body: Polyplas™, Aluminum or 303 Stainless Steel

Gasket: Viton or EPDM

End Caps: Aluminum or 303 Stainless Steel

The models indicated below are popular. However, several options are available from stock. For example:

Different Inlet and Outlet – Each size is available with 1/8", 1/4", 3/8" or 1/2" female NPT.

Different Materials – 303 Stainless Steel End Caps and Bodies

| PART NO. | ELEMENT | | | HOUSING | | | | | |
|----------------|----------|-------|-----------------|---------|-------|----------------|-----------------|---------------------|------------|
| | Diameter | | Mixing Elements | Length | | Inlet End FNPT | Outlet End FNPT | Pressure Limitation | |
| | inch | mm | | inch | cm | | | psi @ 75°F | bar @ 23°C |
| 230-124P-32A-V | .248 | 6.30 | 24 | 4.40 | 11.18 | 3/8" | 1/4" | 1360 | 94 |
| 230-124A-32A-V | .248 | 6.30 | 24 | 4.40 | 11.18 | 3/8" | 1/4" | 3760 | 259 |
| 230-136P-32A-V | .248 | 6.30 | 36 | 5.40 | 13.72 | 3/8" | 1/4" | 1360 | 94 |
| 230-136A-32A-V | .248 | 6.30 | 36 | 5.40 | 13.72 | 3/8" | 1/4" | 3760 | 259 |
| 230-224P-43A-V | .366 | 9.30 | 24 | 5.20 | 13.21 | 1/2" | 3/8" | 1200 | 83 |
| 230-224A-43A-V | .366 | 9.30 | 24 | 5.20 | 13.21 | 1/2" | 3/8" | 3300 | 228 |
| 230-236P-43A-V | .366 | 9.30 | 36 | 6.50 | 16.51 | 1/2" | 3/8" | 1200 | 83 |
| 230-236A-43A-V | .366 | 9.30 | 36 | 6.50 | 16.51 | 1/2" | 3/8" | 3300 | 228 |
| 230-324P-43A-V | .497 | 12.62 | 24 | 6.00 | 15.24 | 1/2" | 3/8" | 1200 | 83 |
| 230-324A-43A-V | .497 | 12.62 | 24 | 6.00 | 15.24 | 1/2" | 3/8" | 3300 | 228 |
| 230-336P-43A-V | .497 | 12.62 | 36 | 7.75 | 19.69 | 1/2" | 3/8" | 1200 | 83 |
| 230-336A-43A-V | .497 | 12.62 | 36 | 7.75 | 19.69 | 1/2" | 3/8" | 3300 | 228 |

Other TAH Products and Catalogs Available

TAH Plus™ Cartridge System

The ever-expanding TAH Plus™ Cartridge System offers a number of innovative choices. For our 50 ml cartridge line, you can choose from our new closed ended bayonet connection (no cap/plug required), standard open ended bayonet connection and our original Twist Lok™ design. These cartridges conveniently fit in standard manual and pneumatic dispensers, as well as our patented caulking gun conversion kit. Available in 1:1, 2:1, 4:1 and 10:1 ratios with an assortment of mixers.



Dispensing Valves

When used with metering equipment, these valves are ideal for solventless systems. The resin and hardener are separately ported through the valve body. The fluids do not meet until they are inside the disposable mixing nozzle.

Three models are available: pneumatic 400 Autovalve for high flow, pneumatic 450 Autovalve featuring snuff back for low flow and the 550 LP valve is economically priced for manual use.



CPI Mixers

TAH Industries also offers a complete line of process mixers (Stata-tube™ and Spiral™) for the Petroleum, Chemical and Waste Water Treatment Industries. Typical applications include inline blending for pH control, gas-liquid contacting and extraction. Process mixers are available in diameters ranging from 1/8" to 30" and materials of construction include PVC, Kynar and stainless steel. Mixers for plastics processing and heat exchange are also available. Consult factory for details.



TAH Plus™ is a trademark of TAH Industries, Inc. Manufactured under U.S. Patent Number 5,535,922.

Stata-tube™ is a trademark of TAH Industries, Inc. Manufactured under U.S. Patent Number 4,093,188.

Spiral Mixer™ is a trademark of TAH Industries, Inc. Manufactured under U.S. Patent Numbers 4,840,493 and 4,850,705. Other U.S. and foreign patents pending.

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Distributed by:

Statomix™

The Line of High Quality Motionless Mixers



MOVING AHEAD

0607 4451

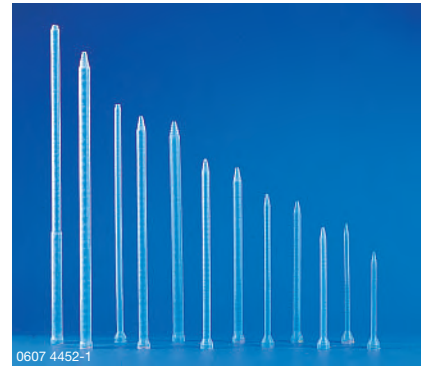
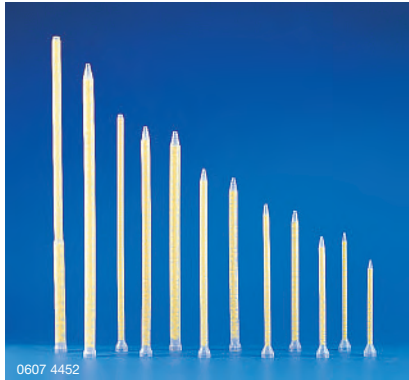
■ Contents

| | |
|--|----|
| ME and MS Series Bell Mouth Mixers | 4 |
| SH Series Shrouds | 5 |
| SM Series Stainless Steel Mixers | 6 |
| AE Series Stainless Steel Mixers with Removable Elements | 7 |
| KS Series Steel / Fibreglass Mixers | 8 |
| FM Series Flexible Plastic Mixers | 9 |
| MR Series Rotary Mixers | 10 |
| Luer Lock Adapters | 11 |

ME & MS Series

Bell Mouth Mixers

Statomix™ ME & MS Series plastic disposable mixers, when used with meter-mix and dispense equipment, provide a low cost solution for 2-component mixing. The mixer element is moulded in polyacetal to allow for a high pressure differential associated with meter-mix equipment.

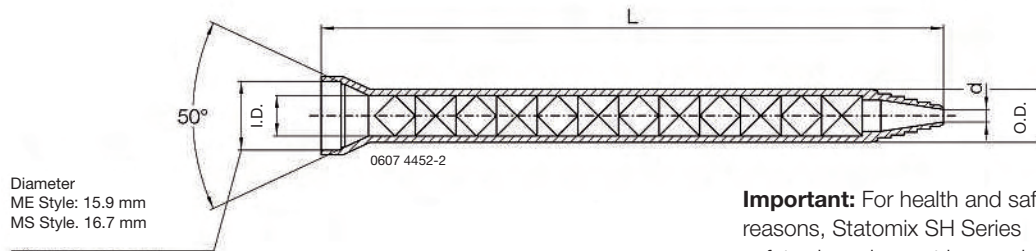


Statomix™ ME & MS Series mixers are provided with stepped ends which can be cut off to increase the outlet diameter.

Note: The only functional difference between ME series and MS series mixers is the inner diameter of the bell mouth housing; ME = 15.9 mm and MS = 16.7 mm (see illustration below)

Technical Data

| | |
|-------------------------|--------------------------|
| Material Housing | Polypropylene (PP) |
| Material Elements | Polyacetal (POM) |
| Max. allowable pressure | According to table below |



Important: For health and safety reasons, Statomix SH Series safety shrouds must be used at all times

Bell Mouth Mixers

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Outlet Dia. d (mm) | Max. Operating Pressure at 40 °C (bar) | Length L (mm) | No. of Elements | Part Number |
|----------------------|----------------------|--------------------|--|---------------|-----------------|----------------|
| 5 | 8 | 1.5 | 33 | 149 | 24 | ME or MS 05-24 |
| | | | | 188 | 32 | ME or MS 05-32 |
| 6.4 | 9.8 | 1.8 | 30 | 186 | 24 | ME or MS 06-24 |
| | | | | 235 | 32 | ME or MS 06-32 |
| | | 2.4 | | 334 | 48 | ME or MS 06-48 |
| | | | | 378 | 56 | MS 06-56 |
| 8 | 11.8 | 2.4 | 27 | 223 | 24 | ME or MS 08-24 |
| | | | | 289 | 32 | ME or MS 08-32 |
| 10 | 14 | 3 | 22 | 214 | 18 | MS 10-18 |
| | | | | 276 | 24 | ME or MS 10-24 |
| | | | | 355 | 32 | ME or MS 10-32 |
| 13 | 17 | 4 | 17 | 293 | 24 | ME or MS 13-24 |
| | | | | 378 | 32 | ME or MS 13-32 |

Bell Mouth Combo Mixers

| | | | | | | |
|-------|-------|-----|----|-----|---------|--------------------|
| 10/8 | 14/12 | 2.4 | 22 | 409 | 12 + 32 | ME or MS 1012-0832 |
| 13/10 | 17/14 | 7.2 | 17 | 499 | 12 + 32 | ME or MS 1312-1032 |

SH Series

Shrouds



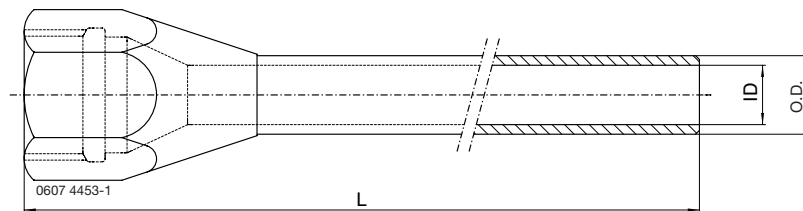
High quality safety shrouds are available for use with Statomix™ type ME & MS mixers. High pressures, which are associated with dispensing equipment, require the use of shrouds.

Important:

For health and safety reasons, Statomix™ shrouds must be used at all times.

Technical Data

| | |
|-------------------------------|--|
| Material | Housing: Aluminium alloy; Fitting: Aluminium alloy |
| Finish | Anodized |
| ¹ Standard Fitting | 7/8" - 9 UNC Thread |
| ² Optional Fitting | 7/8" - 14 UNC Thread |
| Nut across Flats | 27.0 mm (1 1/16") |
| Tolerances | Length +/- 1 mm |



Shrouds for ME & MS Mixers

| For Mixer Type | Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Length L (mm) | Part Number ¹ | Part Number ² |
|----------------|----------------------|----------------------|---------------|--------------------------|--------------------------|
| ME or MS 05-24 | 8.2 | 11.5 | 146.0 | SH 05-24-09 | SH 05-24-14 |
| ME or MS 05-32 | | | 185.0 | SH 05-32-09 | SH 05-32-14 |
| ME or MS 06-24 | 10.2 | 14.0 | 179.5 | SH 06-24-09 | SH 06-24-14 |
| ME or MS 06-32 | | | 228.5 | SH 06-32-09 | SH 06-32-14 |
| ME or MS 06-48 | 10.7 | 15.0 | 329.0 | SH 06-48-09 | SH 06-48-14 |
| ME or MS 06-56 | | | 383.5 | SH 06-56-09 | SH 06-56-14 |
| ME or MS 08-24 | 12.2 | 16.0 | 215.0 | SH 08-24-09 | SH 08-24-14 |
| ME or MS 08-32 | | | 279.0 | SH 08-32-09 | SH 08-32-14 |
| ME or MS 10-24 | 14.2 | 19.0 | 265.5 | SH 10-24-09 | SH 10-24-14 |
| ME or MS 10-32 | | | 341.5 | SH 10-32-09 | SH 10-32-14 |
| ME or MS 13-24 | 17.2 | 23.0 | 280.5 | SH 13-24-09 | SH 13-24-14 |
| ME or MS 13-32 | | | 365.5 | SH 13-32-09 | SH 13-32-13 |

Shrouds for Combo Mixers

| | | | | | |
|--------------------|-----------|-------|-------|-------------|-------------|
| ME or MS 1012-0832 | 14.2/12.2 | 19/16 | 401.0 | SH 10-44-09 | SH 10-44-14 |
| ME or MS 1312-1032 | 17.2/14.2 | 23/19 | 503.0 | SH 13-44-09 | SH 13-44-14 |

SM Series

Stainless Steel Mixers

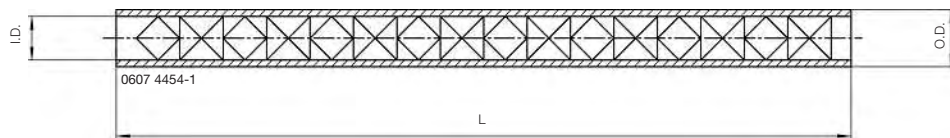


Statomix™ SM Series stainless steel tube mixers are suited for mixing two-component reactive resin systems. These durable stainless steel mixers consist of alternating left and right hand helical elements, which are nickel brazed within the entire length of the tubular mixer housing.

The mixer has to be cleaned immediately after use and it is recommended to briefly flush it with the main component only and then with a mixture of solvent/air. If partial or complete hardening of the components occurs, it can be burned out at 500° to 600° C.

Technical Data

| | |
|-----------------------|--|
| Material | Housing: Stainless steel 1.4571; Elements: Stainless steel 1.4404 or 1.4435 |
| Number of Elements | 24 or 30 |
| Retention of Elements | Brazed with nickel base alloy over entire length of element assembly |
| End Connectors | Plain ends |
| Design Pressure | Max. allowable operating pressure (see table below) according to DIN 2413, scope of application 1, permanent elongation limit 1% at 20° C, safety factor 1.7 |
| Tolerances | O.D. and wall: According to DIN 2391, page 1; Length +/- 1 mm |



Stainless Steel Mixers with Fixed Elements

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Max. Operating Pressure (bar) | Length L (mm) | No. of Elements | Part Number |
|----------------------|----------------------|-------------------------------|---------------|-----------------|-------------|
| 3 | 6 | 700 | 124 | 24 | SM 03-06-24 |
| | | | 154 | 30 | SM 03-06-30 |
| 4 | 6 | 467 | 148 | 24 | SM 04-06-24 |
| | | | 184 | 30 | SM 04-06-30 |
| 5 | 8 | 525 | 185 | 24 | SM 05-08-24 |
| | | | 230 | 30 | SM 05-08-30 |
| 6 | 8 | 350 | 221 | 24 | SM 06-08-24 |
| | | | 275 | 30 | SM 06-08-30 |
| 8 | 10 | 280 | 294 | 24 | SM 08-10-24 |
| | | | 366 | 30 | SM 08-10-30 |
| 10 | 14 | 400 | 368 | 24 | SM 10-14-24 |
| | | | 458 | 30 | SM 10-14-30 |
| 11 | 14 | 300 | 416 | 24 | SM 11-14-24 |
| | | | 518 | 30 | SM 11-14-30 |
| 12 | 16 | 350 | 440 | 24 | SM 12-16-24 |
| | | | 548 | 30 | SM 12-16-30 |
| 15 | 20 | 350 | 550 | 24 | SM 15-20-24 |
| | | | 685 | 30 | SM 15-20-30 |
| 20 | 25 | 280 | 730 | 24 | SM 20-25-24 |
| | | | 910 | 30 | SM 20-25-30 |
| 25 | 30 | 233 | 922 | 24 | SM 25-30-24 |
| | | | 1150 | 30 | SM 25-30-30 |

Stainless Mixers with Removable Elements



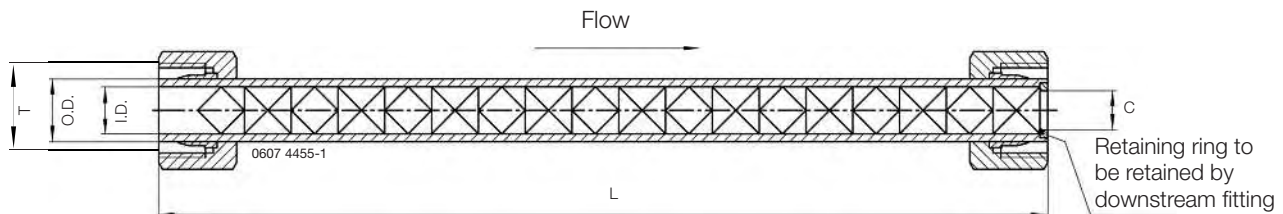
Statomix™ AE Series stainless steel tube mixers are fitted with removable elements and are designed for use with 2-component reactive silicone elastomers, silicone foams and resin systems with fillers where cleaning is not possible by burning out the mixer content.

A retaining ring, positioned at the outlet end of the housing, supports the elements by means of the downstream part of the compression fitting.

This type of mixer should be cleaned immediately after use and it is recommended to flush it with the main component only and then with a mixture of solvent/air. Should further cleaning still be necessary, the elements may be removed and soaked in solvent.

Technical Data

| | |
|-----------------------|--|
| Material | Housing: Stainless steel 1.4571; Elements: Stainless steel 1.4404 or 1.4435 |
| Number of Elements | 12 or 18 |
| Retention of Elements | Retention ring on downstream end of housing |
| End Connectors | ERMETO fitting |
| Design Pressure | Max. allowable operating pressure (see table below) according to DIN 2413, scope of application 1, permanent elongation limit 1% at 20° C, safety factor 1.7 |
| Tolerances | O.D. and wall: According to DIN 2391, page 1; Length +/- 1 mm |



Stainless Steel Mixers with Removable Elements

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Retaining Ring Inner Dia. C (mm) | Max. Operating Pressure (bar) | Length L (mm) | No. of Elements | Part Number | Thread T |
|----------------------|----------------------|----------------------------------|-------------------------------|---------------|-----------------|-------------|------------|
| 8 | 12 | 6 | 467 | 154 | 12 | AE 08-12-12 | M 20 x 1.5 |
| | | | | 226 | 18 | AE 08-12-18 | |
| 10 | 14 | 8 | 400 | 192 | 12 | AE 10-14-12 | M 22 x 1.5 |
| | | | | 282 | 18 | AE 10-14-18 | |
| 12 | 16 | 10 | 350 | 230 | 12 | AE 12-16-12 | M 24 x 1.5 |
| | | | | 338 | 18 | AE 12-16-18 | |
| 15 | 20 | 12 | 350 | 290 | 12 | AE 15-20-12 | M 30 x 2 |
| | | | | 425 | 18 | AE 15-20-18 | |
| 20 | 25 | 16 | 280 | 385 | 12 | AE 20-25-12 | M 36 x 2 |
| | | | | 556 | 18 | AE 20-25-18 | |
| 25 | 30 | 20 | 233 | 486 | 12 | AE 25-30-12 | M 42 x 2 |
| | | | | 714 | 18 | AE 25-30-18 | |

KS Series

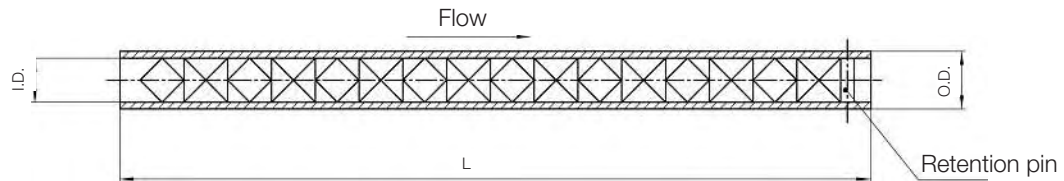
Steel / Fibreglass Mixers



Statomix™ KS Series steel/fibreglass mixers were developed as a low-cost alternative for mixing 2-component reactive resins. The mixing elements are made of a high-grade, solvent resistant plastic. A transverse rod supports the elements at the outlet end of the zinc-plated steel housing. Steel/fibreglass mixers are not suitable for the mixing of extremely high viscosity materials at temperatures above 80 °C.

Technical Data

| | |
|----------------------------|--|
| Material | Housing: Zinc-plated carbon steel St 35 (stainl. steel available on request) Elements: Fibreglass reinforced engineering plastic (PET) |
| Number of Elements | 24 or 36 |
| Retention of Elements | Nickel brazed retention pin across the last element at downstream end of housing |
| End Connectors | Plain ends |
| Max. Operating Temperature | 80 °C |
| Design Pressure | Max. allowable operating pressure (see table below) according to DIN 2413, scope of application 1, permanent elongation limit 1% at 20° C, safety factor 1.7 |
| Tolerances | O.D. and wall: According to DIN 2391, page 1; Length +/- 1 mm |



Steel / Fibreglass Mixers

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Max. Operating Pressure (bar) | Length L (mm) | No. of Elements | Part Number |
|-------------------------|-------------------------|----------------------------------|------------------|-----------------|-------------|
| 8 | 10 | 226 | 203 | 24 | KS 08-10-24 |
| | | | 300 | 36 | KS 08-10-36 |
| 11 | 14 | 242 | 277 | 24 | KS 11-14-24 |
| | | | 411 | 36 | KS 11-14-36 |
| 13 | 16 | 212 | 327 | 24 | KS 13-16-24 |
| | | | 486 | 36 | KS 13-16-36 |
| 16 | 20 | 226 | 402 | 24 | KS 16-20-24 |
| | | | 596 | 36 | KS 16-20-36 |
| 20 | 25 | 226 | 501 | 24 | KS 20-25-24 |
| | | | 744 | 36 | KS 20-25-36 |

FM Series

Flexible Plastic Mixers



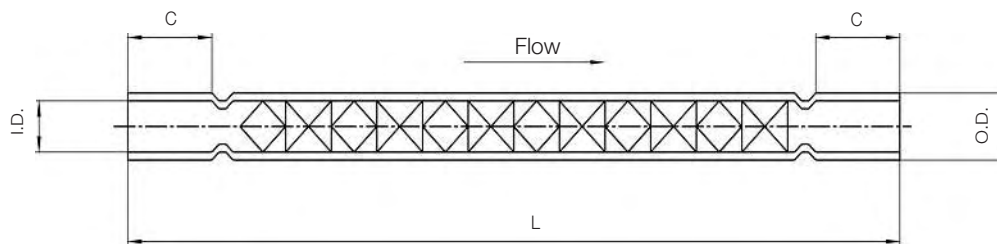
The Statomix™ FM Series mixers were developed for 2-component coatings and other very low viscosity materials. The mixer housing is flexible and made from high-strength Polyamide with low moisture absorption and is suited for a flexible installation.

The Statomix™ FM Series mixers are not suited for high pressure or for mixing of high viscosity materials.

The mixer should be cleaned immediately after use with a mixture of solvent/air.

Technical Data

| | |
|----------------------------|--|
| Material | Housing: Polyamid (PA 12 free from plasticizer) Elements: Polypropylene (PP) |
| Number of Elements | 24 or 36 |
| Retention of Elements | By means of a crimp on both ends of housing |
| End Connectors | Plain ends |
| Max. Operating Temperature | According to the table below. For higher pressures and temperatures above 40° C it is necessary to use a protective covering |
| Tolerances | Length +/- 1 mm |



Flexible Plastic Mixers

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Notch Recess C (mm) | Max. Operating Pressure at 40°C (bar) | Length L (mm) | No. of Elements | Part Nummer |
|-------------------------|-------------------------|------------------------|---|------------------|--------------------|-------------|
| 6.4 | 9 | 13 | 14 | 188 | 24 | FM 06-09-24 |
| | | | | 263 | 36 | FM 06-09-36 |
| 8.0 | 10 | 20 | 9 | 240 | 24 | FM 08-10-24 |
| | | | | 334 | 36 | FM 08-10-36 |

MR Series

Rotary Mixers



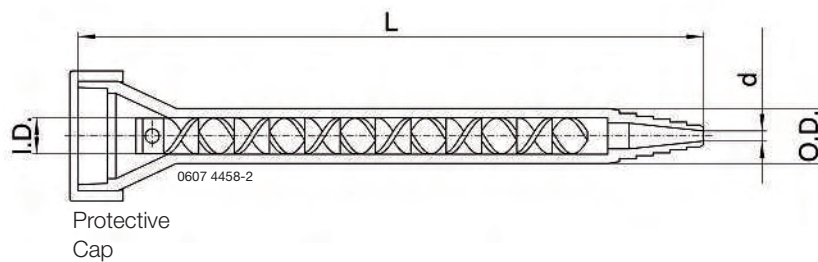
Statomix™ MR Series plastic disposable rotary mixers are suited for mixing low viscosity 2-component reactive resin systems.

The first mixing element is provided with a hole for attachment to the dispensing head driveshaft.

MR Series mixers are provided with stepped ends which can be cut to increase the outlet diameter.

Technical Data

| | |
|-------------------------|---|
| Material | Housing: Polypropylene (PP) Elements: Green Polyacetal (POM) |
| Number of Elements | 12 |
| Mixer Connection | MS style bell mouth (dia. 16.7 mm) for retaining nut or STATOMIX safety shroud with 7/8" - 9 UNC Thread |
| Max. allowable Pressure | According to table below. For higher pressures and temperatures above 40° C, a shroud must be used. |



Rotary Mixers

| Inner Dia. I.D. (mm) | Outer Dia. O.D. (mm) | Outlet Dia. d (mm) | Max. Operating Pressure at 40°C (bar) | Length L (mm) | No. of Elements | Part Number |
|----------------------|----------------------|--------------------|---------------------------------------|---------------|-----------------|-------------|
| 6.4 | 10.0 | 1.8 | 30 | 111.5 | 12 | MR 06-12 |
| 8.0 | 12.0 | 2.4 | 27 | 130.0 | 12 | MR 08-12 |
| 10.0 | 14.0 | 3.0 | 22 | 155.0 | 12 | MR 10-12 |
| 13.0 | 17.0 | 4.0 | 17 | 197.0 | 12 | MR 13-12 |

Luer Lock Adapters

Luer Lock Adapters

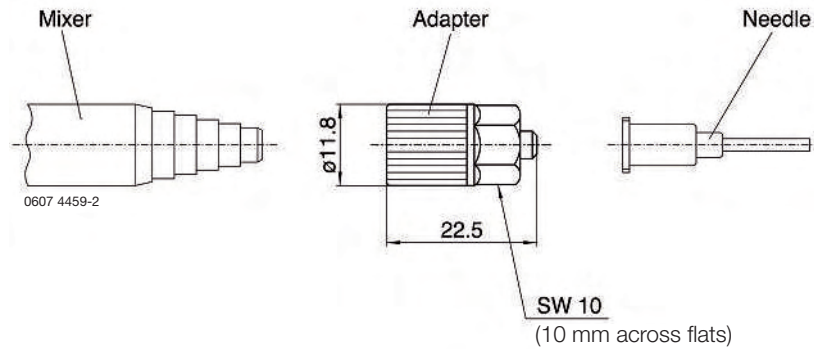


Low-cost Luer Lock Adapters are designed for a wide range of Statomix™ motionless mixers.

These adapters screw to the tip of the mixer and facilitate the attachment of dispensing needles for precise application of fine beads or dots and to reach within small spaces.

Three colour-coded sizes of Luer Lock Needle Adapters are designed to cover the range from I.D. 5 to I.D. 10 mixers and fit all standard Luer Lock type needles.

Technical Data



Luer Lock Adapter

| Mixer Inner Dia. I.D. (mm) | Colour | Part Number |
|----------------------------|--------|-------------|
| 5 | white | LA 05-00 |
| 6 + 8 | grey | LA 06-08 |
| 10 | black | LA 10-00 |

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Sulzer Chemtech Ltd, a member of the Sulzer Corporation, with headquarters in Winterthur, Switzerland, is active in the field of process engineering and employs some 2500 persons worldwide.

Sulzer Chemtech is represented in all important industrial countries and sets standards in the field of mass transfer and static mixing with its advanced and economical solutions.

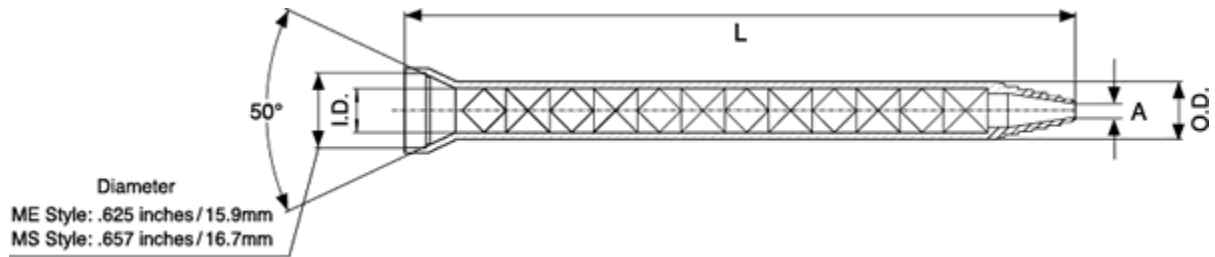
The activity program comprises:

- Process components such as trays, structured and random packings, internals for separation columns and reaction technology
- Engineering services for separation and reaction technology such as optimizing energy consumption, plant optimization studies, pre-engineering for governmental approval, basic engineering
- Separation and purification of organic chemicals by means of crystallization and membranes
- Mixing and reaction technology with static mixers
- Mixing and Cartridges Technology
- Tower field services

CONPROTEC MIXERS

Technical Data

| | |
|----------------|--------------------------|
| Outer Housing | Polypropylene |
| Elements | Polyacetal |
| Retaining Nut: | 7/8"-9 or 7/8"-14 thread |
| Shrouds | See SH Series Page |



Part Numbers

| Part Number | Inner Dia. I.D. inches (mm) | Number of Elements | Outer Dia. O.D. Inches (mm) | Length L inches (mm) | Nozzle Dia. A Inches (mm) | Approx. Content (ml) |
|--------------|-----------------------------|--------------------|-----------------------------|----------------------|---------------------------|----------------------|
| ME 05-24 | .197 (5.00) | 24 | .315 (8.00) | 5.870 (149) | .059 (1.50) | 2.3 |
| ME 05-32 | .197 (5.00) | 32 | .315 (8.00) | 7.400 (188) | .059 (1.50) | 2.8 |
| ME 06-24 | .250 (6.35) | 24 | .394 (10.00) | 7.280 (185) | .074 (1.90) | 4.2 |
| ME 06-32 | .250 (6.35) | 32 | .394 (10.00) | 9.212 (234) | .074 (1.90) | 6.6 |
| ME 06-48 | .250 (6.35) | 48 | .413 (10.50) | 13.150 (334) | .087 (2.20) | 10.0 |
| ME 08-24 | .315 (8.00) | 24 | .472 (12.00) | 8.780 (223) | .094 (2.40) | 8.5 |
| ME 08-32 | .315 (8.00) | 32 | .472 (12.00) | 11.300 (287) | .094 (2.40) | 11.5 |
| ME 10-24 | .394 (10.00) | 24 | .551 (14.00) | 10.870 (276) | .118 (3.00) | 16.0 |
| ME 10-32 | .394 (10.00) | 32 | .551 (14.00) | 13.860 (352) | .118 (3.00) | 23.0 |
| ME 13-24 | .512 (13.00) | 24 | .669 (17.00) | 11.535 (293) | .157 (4.00) | 27.0 |
| ME 13-32 | .512 (13.00) | 32 | .669 (17.00) | 14.921 (379) | .157 (4.00) | 34.5 |
| ME 13-24-L | .512 (13.00) | 24 | .669 (17.00) | 13.800 (350) | .157 (4.00) | 27.0 |
| ME 13-32-L | .512 (13.00) | 32 | .669 (17.00) | 17.756 (451) | .157 (4.00) | 34.5 |
| ME 1012-0832 | .394-.315 (10.00-8.00) | 12 + 32 | .551-.472 (14.00-12.00) | 16.102 (409) | .094 (2.40) | 19.0 |
| ME 1312-1032 | .512-.394 (13.00-10.00) | 12 + 32 | .669-.551 (17.00-14.00) | 19.646 (499) | .283 (7.20) | 37.5 |