

TAH Catalog Contents



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Sales Terms and Conditions



Terms and Conditions may vary. See your local office for specific details (can also be found on the back of all invoices). Payment terms are Net 30 Days. Minimum order requirement is \$150 US; £100; or € 150. Expediting fees may apply.

Credit Cards Accepted

Visa, MasterCard (worldwide);
American Express (US only)
Prepaid and COD Terms are also available.

Return Policy

6 months and must be authorized.

Restocking Fee

(on standard product only)

\$250 or less	=	25%
\$250 - \$500	=	20%
\$500 - \$1000	=	15%
\$1000 or more	=	10%

Medical/Dental



CPI/Water Treatment



Did You Know?

TAH offers products for the Medical/Dental (shown left) and Chemical Processing/Waste Water Treatment Industries (shown right). Call our Technical Service or Sales Dept. for a catalog and more information.



Welcome

At TAH, we believe that our products should be innovative, easy-to-use, and of excellent quality and that our service should be fast and efficient. So, to make ordering easy for you, we developed this catalog as a guide to our new secure website, www.tah.com. There you'll find the most up-to-date listing of our product line, including:

- Cartridge Systems—cartridges, mixers and dispensers for adhesive packaging for use in automotive, construction, industrial, medical and dental applications
- Meter Mix/Dosing—valves and mixers, both disposable plastic and in-line metal, for high pressure, low pressure and all applications in between.

Since 1976, TAH has provided more than mixers—we've provided mixing solutions:



- Two-component cartridge systems from 1.75 to 600mL capacities
- Revolutionary u-TAH™ universal two-component cartridge that fits into a professional caulking gun available in 1:1, 2:1, and 10:1 ratios
- Complete line of plastic and metal mixers for low- and high-pressure applications
- Three mixer geometries: Stata-tube, Spiral, and Turbo
- Designed and manufactured in the U.S.A. and ISO 9001:2000 certified.
- Competitive pricing, high quality, fast delivery, and superior customer service



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If you have any questions about our products or require further information, please contact our Technical Service or Sales Department. We are grateful for the opportunity to introduce you to our product line, and hope your experience with TAH is a positive one. Give us a try. You'll be glad you did.

Terry A. Horner

CHAIRMAN OF THE BOARD AND CEO

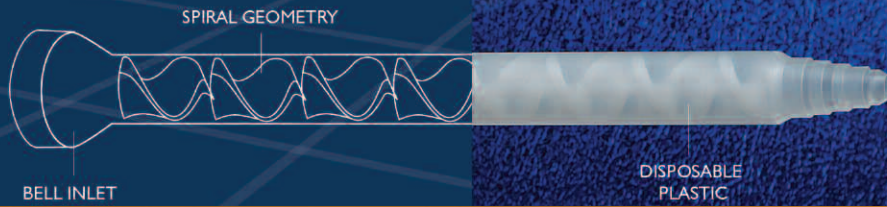
Our Quality Statement

TAH is a company committed to creating and manufacturing motionless mixers and adhesive packaging solutions that help our customers prosper. We strive to achieve the highest levels of customer satisfaction and to continually improve our internal processes to maximize our efficiency, effectiveness and long term profitability.



Get More from TAH at www.tah.com

You can request samples, application notes, and technical papers, and get up-to-date information through TAH's website at www.tah.com



cartridges
mixers
dispensers
more...



cartridge systems



Cartridge Systems



TAH has developed a range of high-quality, two-component side x side cartridge systems, disposable static mixers, and cartridge dispensers. See individual cartridge pages for available systems. Also, we offer our u-TAH™ Universal Cartridge System that is designed to fit a professional caulking gun. Benefits of our cartridge systems include:

- ▶ Reduced mess, increased accuracy, less waste
- ▶ Reduced exposure to hazardous resins
- ▶ Guaranteed accuracy of mixing
- ▶ Low-cost dispensing tools
- ▶ Available with open-end or closed-end outlets
- ▶ Can be molded in a variety of customized colors

Applications

Some applications of TAH cartridges:

- ▶ **Industrial:** Structural bonding, potting, insulating, and sealing
- ▶ **Automotive:** Plastic repair, seam and joint sealing, bonding of door skins, body panels, glass repair, and windshield replacement
- ▶ **Construction:** Chemical anchors into concrete, brick, stone, and wood; crack repair; and joint sealing
- ▶ **Medical/Dental:** Dental impressions, dental composite bonding, and auditory applications. We have a specific line of products for such applications. Contact our Technical Service or Sales Department for a catalog.



Automotive

Construction

MiniMix™ Cartridge

1.75mL-600mL

u-TAH™ Cartridge

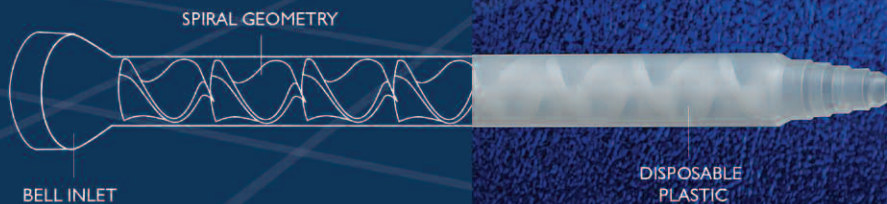
Materials

TAH cartridges are used with the following two-component materials:

- ▶ Epoxies
- ▶ Urethanes
- ▶ Methacrylates
- ▶ Silicones
- ▶ Polyesters
- ▶ Polyvinyl Siloxanes
- ▶ Temporary Cements

CARTRIDGE SYSTEM QUICK REFERENCE

PAGE	SYSTEM	AVAILABLE RATIOS	FEATURES	SUITABLE MIXERS
6	1.75-3mL MiniMix	1:1	Self-contained or Reusable Dispenser	Series 193
7	9mL Micro Dispensing	1:1	Open End	Series 190
8	50mL Bayonet Cartridge	1:1, 2:1, 4:1, 10:1	Open End or Closed End	Series 190, Series 295
10	50mL Twist Lok™ Cartridge	1:1	Twist Lok Mixer Connection, Open End	Series CM
13	180-280mL u-TAH™ Universal Cartridge	1:1 (250mL), 2:1 (180mL), 10:1 (280mL)	Open End	Series 160, 260, 160AA, 180A, 280AN, 281N
14	200mL Cartridge	1:1, 2:1	Open End or Closed End	Series 160, 260, 160AA, 180A, 280AN, 281N
14	300mL Cartridge	1:1	Closed End	Series 160, 260, 160AA, 180A, 280AN, 281N
12	400mL Cartridge	1:1	Open End or Closed End	Series 160, 260, 160AA, 180A, 280AN, 281N
12	600mL Cartridge	1:1	Closed End	Series 160, 260, 160AA, 180A, 280AN, 281N



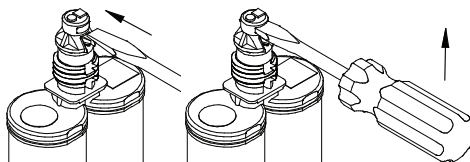
Outlets

Open End Outlet



Open End Outlet

- ▶ Provided pre-assembled with traditional nose plugs and retaining nuts
- ▶ Many can be molded in polypropylene (PP) or nylon. Our u-TAH Universal Cartridges can also be molded in high-density polyethylene (HDPE). See specific cartridge descriptions or contact our Technical Service or Sales Department for material options.



Pry-off Cap Instructions

- ▶ Insert flat head of screwdriver into slot and pry upward
- ▶ Cap can be re-inserted to seal a partially used cartridge. To avoid cross contamination, match up the circles and squares on the cap and top of cartridge body
- ▶ For 50mL Cartridges, the cap can be easily snapped off with your thumb and forefinger in the same upward motion

Closed End Outlet



Closed End Outlet

Closed End Outlet with Cap



- ▶ Features a patented "pry-off" closure
- ▶ Molded in one operation of polypropylene or nylon
- ▶ Cost-effective alternative to open cartridges

Pistons

Multi-Seal Prestaged Center Bleed Plug Piston



TAH offers three styles of pistons:

- ▶ Solid O-ring
- ▶ Solid Multi-Seal Pistons
- ▶ Multi-Seal Pistons with a Center Bleed Plug (shown left)

Pistons are inserted after cartridges are back-filled with adhesive—a process that can trap air causing off-ratio surging into the mixer and "after drool." When using our Solid Multi-Seal Piston, a shim is required to allow entrapped air to bleed past the pistons during insertion. Call our Technical Services or Sales Dept. for recommendations.

Alternatively, our Multi-Seal Piston with Center Bleed Plug is a revolutionary piston style which bleeds air from the cartridge during piston insertion without the need of a shim, making the process easier and more efficient. All of our pistons are available in nylon or Polypropylene (PP) and can be made with silicone or EPDM O-rings upon request.



Piston Insertion Equipment

We've developed piston insertion equipment for our unique Multi-Seal Piston with Prestaged Center Bleed Plug. This labor-saving equipment installs TAH's pistons into the cartridge in one simple operation. Contact our Technical Services or Sales Dept. for more information.

2-K Made Simple: Package. Mix. Dispense.

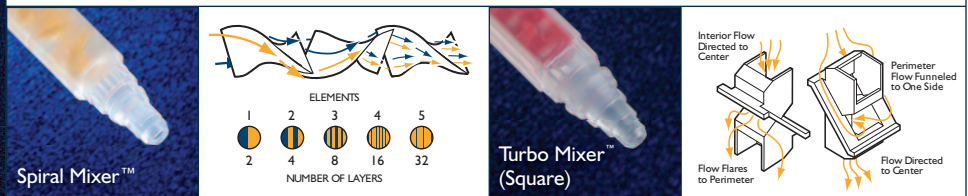


Static Mixers



Since 1976, TAH Industries has pioneered the design and manufacture of disposable mixers. We thoroughly understand mixing technology and have built our manufacturing platform to design, mold, and assemble mixing and packaging solutions. We offer a complete line of mixers for adhesive systems. We also produce custom systems. Often these custom packages incorporate standard components, significantly reducing the capital expenditures and unit price for our customers.

Geometries



TAH offers a variety of disposable static mixers made of a strong, solvent-resistant plastic comprised of mixing elements molded from either acetal or polypropylene and housings of either polypropylene or nylon. All of our mixers divide and combine material into a homogeneous stream as it passes through a series of alternately-angled elements. Our cartridge mixer geometries include:

- ▶ **Spiral Mixer:** Our patented Spiral Mixers use a simple yet time-proven geometry. The elements in these mixers are 180° helical 'twists' alternating in either right- or left-hand rotation. These alternating elements are joined so that their leading and trailing edges are mutually perpendicular.
- ▶ **Turbo (Square) Mixer:** TAH's newest line of disposable static mixers, the Series 180A and Series 295 Turbo Mixers, use our Turbo (square) geometry. This patented design consists of a series of alternating left- and right-hand elements with intermittent flow inverters which effectively channel the fluids from the walls into the center of the mixer.

Turbo (square) mixers are designed for 50mL or larger side x side and u-TAH™ cartridges. For spiral mixers, Bayonet inlets are designed for 9 and 50mL cartridges; Twist Lok™ inlets are for 50mL Twist Lok™ cartridges; and Bell inlets—both standard and integral nut—are designed for larger side x side or u-TAH cartridges. The standard bell is generally used with the open end cartridges while the integral nut mixer is used with the closed end cartridges.

Inlet Connections

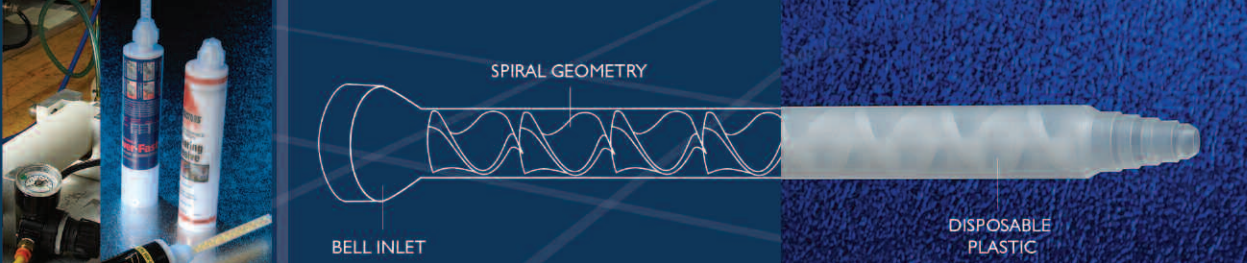
- ▶ Bayonet
- ▶ Bell: Standard and Integral Nut (threaded)
- ▶ Twist Lok™

DISPOSABLE MIXERS MIXER QUICK REFERENCE

PAGES	SERIES NO.	DESCRIPTION	ELEMENT	HOUSING	GEOMETRY
6	Series 193	1.75-3.0mL MiniMix™	Acetal	Polypropylene	Spiral
9	Series 190	9-50mL Cartridge Spiral Bayonet Mixer	Acetal	Polypropylene	Spiral
9	Series 295	9-50mL Cartridge Turbo Bayonet Mixer	Polypropylene	Polypropylene	Turbo (square)
10	Series CM	50mL Cartridge Twist Lok™ Mixer	Acetal	Polypropylene	Spiral
15	Series 160	200-600mL Cartridge Spiral Bell Mixer	Acetal	Polypropylene	Spiral
16	Series 260	200-600mL Cartridge Spiral Bell Mixer	Polypropylene	Polypropylene	Spiral
17	Series 160A	200-600mL Cartridge Spiral Bell Mixer for ProTips™	Acetal	Polypropylene	Spiral
17	Series 180A	200-600mL Cartridge 8.7mm Turbo Bell Mixer	Acetal, Polypropylene	Polypropylene	Turbo (square)
18	Series 280AN	200-600mL Cartridge 11.2mm Turbo Bell Mixer	Acetal, Polypropylene	Polypropylene	Turbo (square)
18	Series 281N	200-600mL Cartridge 14.3mm Turbo Bell Mixer	Acetal, Polypropylene	Polypropylene	Turbo (square)
19	Series 160AA	200-600mL Cartridge Low-Pressure, Air-Assisted Spray Mixer	Acetal	Polypropylene	Spiral

Did You Know?

To determine the number of splits and blends your material will go through as it passes in and out of our mixer use a simple formula of 2^n where n = the number of elements. (Example: 24 elements provide 16,777,216 splits.)



Dispensers



TAH offers dispensers as a part of most of our cartridge systems. Details for dispensers are included with each system description. Some systems have a choice of dispensers—including a manual dispenser or low-cost caulking gun conversion kit for 50mL cartridge systems and your choice of manual or pneumatic dispensers for our 200-600mL cartridge systems.

Types

u-TAH™ Universal Cartridge System

- ▶ Your existing 1/10th gallon or 310mL caulking gun
- ▶ Your existing pneumatic (rod-driven) and battery-powered caulking tools

1.75-9mL Micro-Dispensing Syringe Systems

- ▶ Self-contained syringe system with thumb plunger
- ▶ Reusable dispenser

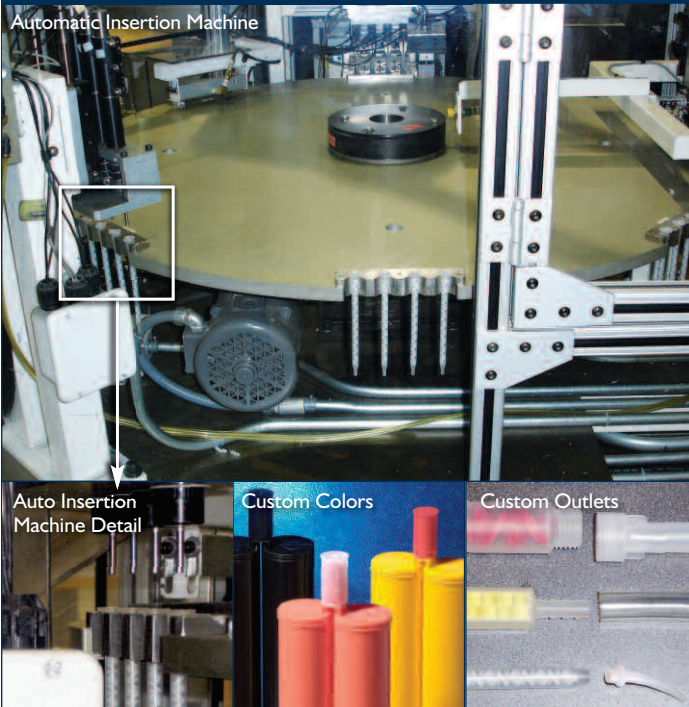
50mL Bayonet and Twist Lok™ Cartridge Systems

- ▶ 50mL manual dispenser
- ▶ Caulking gun conversion kit

200-600mL Cartridge Systems

- ▶ High-performance manual and pneumatic dispenser

Custom Cartridge System Products



The products that you see in this catalog are our standard offerings as of the printing date of April, 2007. TAH is constantly coming out with new products, so if you don't see what you are looking for, please contact our Sales Dept. as there is a chance that we now carry it.

TAH has also done a significant amount of custom and proprietary cartridge system projects. The following list will give you an idea of our capabilities:

- ▶ Complete cartridge system projects from scratch (i.e. our MiniMix™ System was created through a joint venture with Dentsply International, a major dental manufacturer). We can also customize a mixer with your name in the housing.
- ▶ Let TAH do your molding—we will work with your own existing tooling to improve quality and service at a competitive price.
- ▶ TAH can create the ideal outlet for any of our standard mixers (i.e. if you need a barb or thread to attach tubing or simply need a smaller outlet opening).
- ▶ TAH can mold most products in your custom color simply provide us with a sample of the color or PMS number.
- ▶ Save cost and ensure proper fit by having TAH mold and assemble your mixer housing and elements. You can avoid many problems from assembling TAH elements into your own housings—such as a loose fit which causes a poor mix or tight fit which causes broken elements and waste. Let TAH do the whole thing for you at or below your total cost.

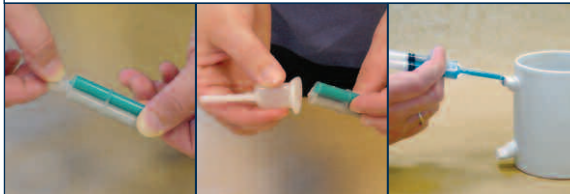
NOTE: All above custom projects do require that the volumes are high enough to justify the costs involved by both parties. Consult the Sales Dept. to discuss your requirements.



1.75-3mL MiniMix™ Micro Dispensing Syringe



EASY ASSEMBLY



Break the snap-off tab

Place the mixer over the cartridge outlets

Insert the plungers and dispense

Description

Use MiniMix™ anywhere you need a simple dispenser for a single job. TAH MiniMix is the perfect two-component packaging and dispensing system for all low-volume, single-use applications, including:

- ▶ Consumer adhesives
- ▶ Single-use assembly or repair kits
- ▶ Small DIY jobs
- ▶ Emergency kits
- ▶ Carded system makes a great point of purchase product

Mixers

The MiniMix uses our ultra-secure, single-use Series 193 static mixers.

Dispensers

- ▶ Self-contained syringe system with thumb plunger
- ▶ Reusable dispenser

Features

- ▶ Small enough to fit in a pocket or emergency repair kit
- ▶ Single-use, break-off plastic tab securely contains cartridge contents until use
- ▶ 1:1 ratio for compatibility with most two-component reactive chemistries
- ▶ Three available cartridge sizes: 1.75, 2.5 and 3.0 mL (0.2 mL remains in mixer after use)

TAH MINIMIX™ CARTRIDGE

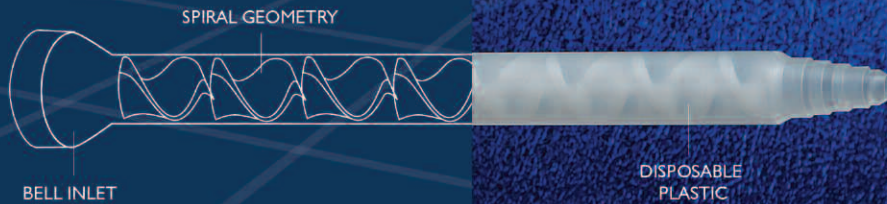
PART NO.	DESCRIPTION	RATIO	MATERIAL	COLOR
B-023-00	1.75 mL Cartridge Body	1:1	COC	Natural
B-023-10	1.75 mL Cartridge Body	1:1	PP	Natural
B-023-04	1.75 mL Cartridge Body	1:1	COC	White
B-025-00	2.5 mL Cartridge Body	1:1	COC	Natural
B-025-10	2.5 mL Cartridge Body	1:1	PP	Natural
B-025-04	2.5 mL Cartridge Body	1:1	COC	White
B-055-00	3.0 mL Cartridge Body	1:1	COC	Natural
B-055-03	3.0 mL Cartridge Body	1:1	COC	Purple
B-317-01	0.250" Piston for 3.0mL Cartridge	1:1	LDPE	Black
B-318-01	0.225" Piston for 1.75 and 2.5mL Cartridges	1:1	LDPE	Black

TAH MINIMIX™ MIXER AND DISPENSER

PART NO.	DESCRIPTION	MATERIAL	COLOR
193-312	Mix-Tip for Reusable Dispenser	HDPE Body/Acetal Element	Natural
193-F-312	Winged Mix-Tip for Disposable Plunger	HDPE Body/Acetal Element	Natural
UD-100-TAH	Reusable Syringe Dispenser	Polyetherimide	Blue
UD-110-01	HDPE Plunger for 0.225" and 0.250" Bores	PP	Natural
UD-110-02	Glass-filled PP Plunger for 0.250" Bore	Glass	Natural
UD-120-01	Plunger w/Integral Lip Seals for 0.225" Bore	PP	Natural

Patent Pending. Manufactured under license from Dentsply International.

For the latest products from TAH, visit www.tah.com



9mL Micro Dispensing Syringe



Cartridges

The 9mL Micro Dispenser Cartridge System is designed for those special jobs requiring a tiny amount of material and precise material placement. There is no better way to mix and dispense your temporary and permanent cements, resins, and sealers. This system is ideal for many applications including medical, electronic, and DIY markets.

The open 9mL cartridge is available with two retaining cap options: plug and gasket. The retainer with plug reduces cross contamination during filling and storage and features a molded polyethylene (PE) plug with two ears. Each ear extends down into the cartridge creating a seal. This durable plug is inert to most adhesives such as acrylics, silicones, epoxies, and urethanes.

- ▶ **Ratio Available:** 1:1, 4.5mL capacity on each side
- ▶ **Ease-of-Use:** No more measuring materials in separate syringes or tubes
- ▶ **Superior Plug Closure:** Eliminates cross contamination
- ▶ **Outlet Option:** Industry standard bayonet mount
- ▶ **Mixers Available:** Micro-mixers leave minimal waste, less than 0.10mL
- ▶ **Plunger Style:** Designed for easy dispensing

Pistons



TAH offers solid pistons with silicone or EPDM O-rings. A shim is required in order to evacuate the trapped air during piston insertion. You may also pre-insert the pistons all

the way into the barrels and fill through the nose to prevent air entrapment.

Mixers



TAH molds some of the smallest mixers in the world. These micro mixers are used with the 9mL cartridge and are part of a complete line of our Series 190 bayonet mixers

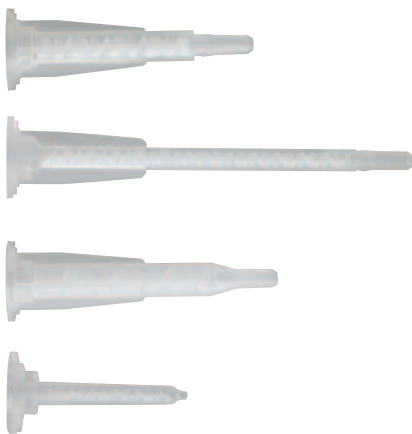
including 190-208, 190-212, 190-312H, 190-324H, 190-408H, 190-408BT.

For more specific information on these mixers see page 9.

9 mL MICRO DISPENSING CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	COLOR
BS-302-01	Cartridge Body w/White Retainer (PP) & Plug (PE)	Black
BS-302-02	Cartridge Body w/White Retainer (PP) & Plug (PE)	White
B-113-01	Cartridge Body (PP)	Black
B-113-02	Cartridge Body (PP)	White
B-604-01	Plunger (PP)	Black
B-604-02	Plunger (PP)	White
B-315-02	Piston (PP) with Silicone O-Ring	White
B-315-03	Piston (PP) with EPDM O-Ring	White
B-415-01*	Retainer (PP) with Plug (PE)	White
B-416-03	Retainer (PP) with Silicone Gasket	White

* This component is included and installed with system part numbers BS-302-01 and BS-302-02



Series 190 Mixers

cartridge systems



Fast Service

Our High Speed u-TAH Assembly Machine (HSUA) is just one of the many tools we use to prepare your product in a timely and cost-efficient manner.



50mL Bayonet Cartridge System



Cartridges

Our 50mL Bayonet Cartridge System is available in 1:1, 2:1, 4:1, and 10:1 ratios in an open-ended configuration with a plug closure. Our 1:1 and 2:1 ratios are also offered with a hermetically-sealed closed end.

- ▶ **Ratios Available:** 1:1, 2:1, 4:1, 10:1
- ▶ **Specifications:** Polypropylene and nylon
- ▶ **Superior Plug Closure:** Pre-assembled for efficiency, inert to most adhesives such as epoxies, urethanes, acrylics, or silicones
- ▶ **Closed End:** This feature reduces costs and ensures a longer shelf life for your adhesives.

Pistons (See page 3 for more info)

- ▶ Solid O-ring
- ▶ Solid Multi-Seal Pistons
- ▶ Multi-Seal Pistons with a Prestaged Center Bleed Plug which prevents trapped air when inserting the piston without using a shim

Mixers

- ▶ Series 190 Spiral Mixers (opposite page)
- ▶ Series 295 Turbo Bayonet Mixers (opposite page)

Dispensers

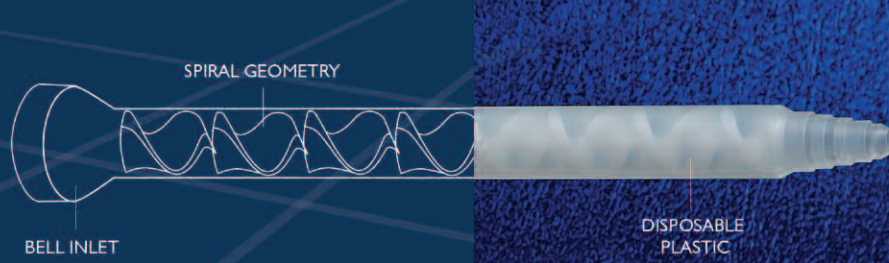


- ▶ 50mL manual dispenser (page 11)
- ▶ Caulking gun conversion kit (page 11)

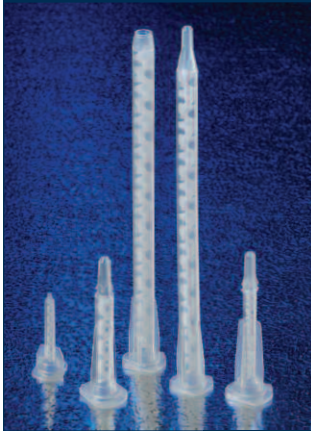
50mL BAYONET CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	VOLUMETRIC RATIO	MAXIMUM VOLUME	MATERIAL
BS-101-01	Open Body Cartridge w/Retainer & Plug	1:1	50mL	PP
B-101-21	Closed Cartridge Body w/Protective Cap	1:1	50mL	PP
B-301-05	EPDM O-Ring Piston (Short)	1:1	-	PP
B-302-11	EPDM O-Ring Piston (Tall)	1:1	-	PP
B-304-11	Multi-Seal Piston w/Prestaged Center Bleed Plug	1:1	-	PP
BS-101-06	Open Body Cartridge w/Retainer & Plug	1:1	50mL	Nylon
B-101-22	Closed Cartridge Body w/Protective Cap	1:1	50mL	Nylon
B-302-21	EPDM O-Ring Piston (Tall)	1:1	-	Nylon
B-304-12	Spiral Bleed Single Lip Multi-Seal Piston	1:1	-	Nylon
BS-102-01	Open Body Cartridge w/Retainer & Plug	2:1	50mL	PP
B-102-21	Closed Cartridge Body w/Protective Cap	2:1	50mL	PP
B-306-01	EPDM O-Ring Piston (Large)	2:1	-	PP
B-310-01	EPDM O-Ring Piston (Small)	2:1	-	PP
BS-102-06	Open Body Cartridge w/Retainer & Plug	2:1	50mL	Nylon
B-102-22	Closed Cartridge Body w/Protective Cap	2:1	50mL	Nylon
B-306-21	EPDM O-Ring Piston (Large)	2:1	-	Nylon
B-310-21	EPDM O-Ring Piston (Small)	2:1	-	Nylon
BS-104-01	Open Body Cartridge w/Retainer & Plug	4:1	42mL	PP
B-306-01	EPDM O-Ring Piston (Large)	4:1	-	PP
B-312-01	EPDM O-Ring Piston (Small)	4:1	-	PP
BS-104-06	Open Body Cartridge w/Retainer & Plug	4:1	42mL	Nylon
B-306-21	EPDM O-Ring Piston (Large)	4:1	-	Nylon
B-312-21	EPDM O-Ring Piston (Small)	4:1	-	Nylon
BS-110-01	Open Body Cartridge w/Retainer & Plug	10:1	37mL	PP
B-306-01	EPDM O-Ring Piston (Large)	10:1	-	PP
B-314-01	EPDM O-Ring Piston (Small)	10:1	-	PP
BS-110-06	Open Body Cartridge w/Retainer & Plug	10:1	37mL	Nylon
B-306-21	EPDM O-Ring Piston (Large)	10:1	-	Nylon
B-314-21	EPDM O-Ring Piston (Small)	10:1	-	Nylon

For the latest products from TAH, visit www.tah.com



Series 190 Disposable Plastic Spiral Bayonet Mixer



Description

Featuring a standard Bayonet connection, the Series 190 mixer is designed for use with 9mL or 50mL two-component cartridges. Typical applications include mixing epoxies, urethanes, acrylics, and silicones.

The Series 190 has five diameters available with four outlet styles: Slip Luer, Full Bore, H-Tapered, and Stepped. The Slip Luer is our standard offering. The Full Bore ensures maximum flow with minimal back pressure. The H-Tapered outlet is offered where precise placement of the adhesives is required. In order to connect Luer Needles or extensions, it is molded with a new interlocking connection. This requires the attachment of a Luer Lok Adapter (Locking Hub—Part No. 160-HUB) which must be ordered separately.

Specification

- ▶ **Elements:** Acetal
- ▶ **Housing:** Polypropylene

Accessories

- ▶ Luer Lok Adapter (page 11)
- ▶ Luer Needle (page 11)

To order a Luer Lok fitting, simply add "LL" to the part number.

SERIES 190 SPIRAL BAYONET MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (IN. / MM)	ELEMENT LENGTH (IN. / CM)	HOUSING OUTLET	RETAINED VOLUME (ML)
190-208	8	0.093 / 2.36	1.1 / 2.8	Slip Luer	0.07
190-212	12	0.093 / 2.36	1.5 / 3.8	Slip Luer	0.10
190-312H	12	0.125 / 3.18	2.1 / 5.3	H Tapered	0.20
190-324H	24	0.125 / 3.18	3.4 / 8.6	H Tapered	0.40
190-408H	8	0.187 / 4.75	2.1 / 5.3	H Tapered	0.40
190-408BT	8	0.187 / 4.75	1.6 / 4.1	Full Bore	0.40
190-416	16	0.187 / 4.75	3.4 / 8.6	Slip Luer	0.90
190-416H	16	0.187 / 4.75	3.4 / 8.6	H Tapered	0.90
190-416BT	16	0.187 / 4.75	2.9 / 7.4	Full Bore	0.80
190-507	7	0.213 / 5.40	2.3 / 5.8	Slip Luer	0.90
190-517	17	0.213 / 5.40	4.4 / 11.2	Slip Luer	1.90
190-521	21	0.213 / 5.40	5.3 / 13.5	Slip Luer	2.40
190-521-01	21	0.213 / 5.40	5.3 / 13.5	Stepped	2.40
190-612	12	0.250 / 6.35	3.9 / 9.9	Slip Luer	1.90
190-612H	12	0.250 / 6.35	3.9 / 9.9	H Tapered	1.90
190-612D	12	0.250 / 6.35	3.3 / 8.4	Full Bore	1.80
190-616-01	16	0.250 / 6.35	4.8 / 12.2	Stepped	2.50
190-620	20	0.250 / 6.35	5.9 / 15.0	Slip Luer	3.00
190-620-01	20	0.250 / 6.35	5.9 / 15.0	Stepped	3.00
190-620H	20	0.250 / 6.35	5.9 / 15.0	H Tapered	3.00
190-620BT	20	0.250 / 6.35	5.3 / 13.5	Full Bore	2.80

Series 295 Disposable Plastic Turbo Bayonet Mixer



Description

The patented Series 295 Turbo Mixer™ ensures superior mixing performance and can be about 2/3rds the length of comparative spiral mixers allowing the operator to be closer to the work piece.

Features

- ▶ Consistent high-quality mixing
- ▶ Cost savings due to reduced adhesive waste
- ▶ Improved service life compared to competitive square mixers
- ▶ Bell detail fits on standard meter mix manifolds

SERIES 295 TURBO BAYONET MIXER

PART NO.	MIXING ELEMENTS	ELEMENT WIDTH (INCH / MM)	HOUSING LENGTH (INCH / CM)	HOUSING OUTLET	RETAINED VOLUME (ML)
295-620	20	0.203 / 5.15	4.05 / 10.2	Slip Luer	1.4
295-620BT	20	0.203 / 5.15	3.63 / 9.2	Full Bore	1.4
295-620LL	20	0.203 / 5.15	4.05 / 10.2	Luer Lok	1.4



50mL Twist Lok™ Cartridge System



Cartridges

The unique design of our Twist Lok™ Cartridge System fits in both manual and pneumatic dispensers. Currently, this cartridge is offered in a 1:1 ratio, but future expansion is open to 2:1, 4:1 and 10:1 ratios. This reliable cartridge system offers the following exclusive features:

- ▶ **Stronger Mixer Connection:** Rugged 4-pin Twist Lok design is less prone to leaking
- ▶ **Reduces Cross Contamination:** Divider molded between the A and B outlet ports fits securely into a non-rotating cap which substantially reduces the chance of cross contamination
- ▶ **Greater Flow:** The larger outlet ports create less resistance and more flow

Dispensers

- ▶ 50mL manual dispenser (opposite page)
- ▶ Caulking gun conversion kit (opposite page)

50mL TWIST LOK™ CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	RATIO	MATERIAL
BK-201-01	Cartridge w/EPDM O-Ring & Cap	1:1	PP
B-111-01	Cartridge Body	1:1	PP
B-302-11	Piston	1:1	PE
B-409-01	Cap Assembly	—	—

Series CM Disposable Twist Lok™ Mixer



Description

The Series CM is designed for the 50mL Twist Lok Cartridge System. We offer two different lengths and three different outlet styles for our Twist Lok Mixer. The 3/16" (0.1875" / 4.8 mm) mixer is available with our Slip Luer or Luer Lok outlet. The 1/4" (0.25" / 6.3 mm) diameter mixer is molded with our Slip Luer, Luer Lok, or Blunt outlet.

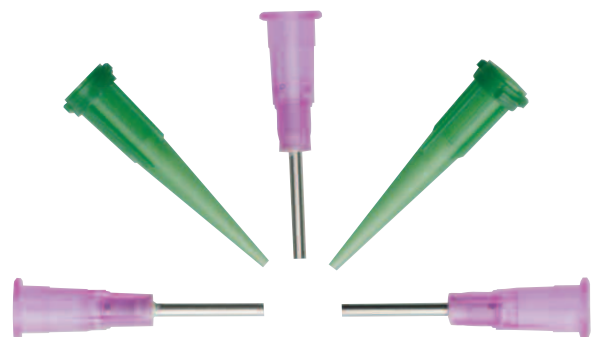
Accessories

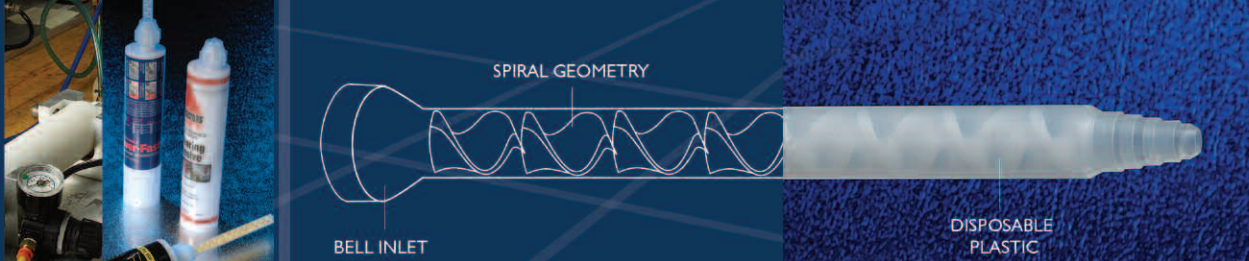
- ▶ Luer Needle (opposite page)

SERIES CM MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	LENGTH (INCH / CM)	OUTLET TIP STYLE
CM-416	16	0.1875 / 4.8	3.7 / 9.4	Slip Luer
CM-416RTLL	16	0.1875 / 4.8	3.7 / 9.4	Luer Lok
CM-612BT	12	0.2500 / 6.3	3.7 / 9.4	Blunt
CM-620	20	0.2500 / 6.3	6.1 / 15.5	Slip Luer
CM-620RTLL	20	0.2500 / 6.3	6.1 / 15.5	Luer Lok

Standard and Tapered Luer Needles





LuerLok™ Adapter and Luer Needle



Luer Lok Adapters

Luer Lok Adapters (locking hubs) are used for attaching needles to mixers (see blue nut in photo).

Luer Needles

TAH offers two types of Luer Needles—standard and tapered. The standard needle features stainless steel tubing with a burr-free blunt end and plastic hub. The tapered needle is a one-piece, plastic molded part. The needles are color-coded and pre-packaged with 50 needles per bag.

LUER NEEDLES

PART NO.	DESCRIPTION	ORIFICE DIAMETER (INCH / MM)	COLOR
205-TK	Test Kit	Assorted Diameters	Assorted
205-14-1/2	Standard	0.063 / 1.60	White
205-14-TT	Tapered	0.063 / 1.60	Clear
205-16-1/2	Standard	0.047 / 1.19	Purple
205-16-TT	Tapered	0.047 / 1.19	Grey
205-18-1/2	Standard	0.033 / 0.84	Pink
205-18-TT	Tapered	0.033 / 0.84	Green
205-20-1/2	Standard	0.023 / 0.58	Yellow

50mL Cartridge Manual Dispensers



Description

Our 50mL Manual Dispenser is compact, durable, and well-balanced providing trouble-free point-of-use dispensing and is made to fit TAH and competitive cartridge systems. Custom colors and distinctive labeling are available upon request.

- ▶ **Better Ergonomics:** Lighter, more compact
- ▶ **Lower Cost and Better Delivery**
- ▶ **More Versatile:** Accepts all ratios/sizes
- ▶ **Durable:** Designed to eliminate cartridge cracking

50mL MANUAL DISPENSER

PART NO.	DESCRIPTION
DK-104	Dispenser & 1:1 Plunger
DK-105	Dispenser & 2:1 Plunger
DK-106	Dispenser & 4:1 Plunger
DK-107	Dispenser & 10:1 Plunger
DK-101-01	Dispenser Only
D-102	1:1 Plunger Only
D-103	2:1 Plunger Only
D-104	4:1 Plunger Only
D-105	10:1 Plunger Only

50mL Cartridge Caulking Gun Conversion Kit



Description

TAH's Caulking Gun Conversion Kit accepts most multi-ratio 50mL cartridge systems (1:1, 2:1, 4:1, and 10:1) including competitive 50mL bayonet cartridges. A different plunger is required for each ratio.

- ▶ **Versatile:** Can be used with 1/10 gallon and 310mL caulking guns
- ▶ **Practical:** Great for DIY/home repair, field installations, occasional industrial uses, and sampling your adhesive products

50mL CAULKING GUN KIT

PART NO.	DESCRIPTION
DK-117	Sleeve & 1:1 Plunger
DK-118	Sleeve & 2:1 Plunger
DK-119	Sleeve & 4:1 Plunger
DK-120	Sleeve & 10:1 Plunger
D-106	Sleeve Only
D-107	1:1 Plunger Only
D-108	2:1 Plunger Only
D-109	4:1 Plunger Only
D-110	10:1 Plunger Only

2K Made Simple: Mix, Package, Dispense



u-TAH™ Universal Cartridge System

Description



Our u-TAH™ Universal Cartridge System is a breakthrough in two-component cartridge design.

The u-TAH looks identical to standard caulking cartridges—in fact, you might not realize it is two-component until you begin to dispense your product. It is the only cartridge system that maintains accurate ratio control and fits into your existing 1/10th gallon or 310mL caulking gun. This system also fits into pneumatic (rod-driven) and battery-powered caulking tools.

Quality Tested for Robustness

The cartridge body is molded of a rigid plastic that won't burst during most

demanding applications. The interior components are fully assembled and each cartridge is air tested. This 100% factory-inspected process guarantees that, after filling, the cartridge will maintain a superior shelf life and provide trouble-free applications in the field.

Options

- ▶ 1:1 Ratio, 250mL volume
- ▶ 2:1 Ratio, 180mL volume
- ▶ 10:1 Ratio, 280mL volume

Filling



TAH has established a worldwide network of Preferred/Focus Fillers in order to provide you with TAH-approved filling at a competitive price. To find a filler near you, log on to our website or call our Sales Dept. For those who will be filling in-house, TAH has developed special proprietary equipment and techniques to perform the filling operation quickly and inexpensively. With either option, TAH has authored all engineering protocols and QC instructions to provide support to the success of

your program. Call our Technical Service or Sales Dept. for more info.

Free Samples

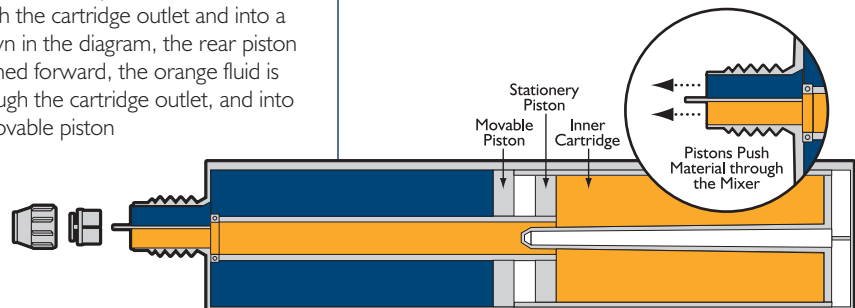
The ease and convenience of the u-TAH cartridge system can only be appreciated with your own adhesive formula. If you are a qualified adhesive supplier, TAH or one of our Preferred Fillers will fill two u-TAH Cartridges with your product free of charge. Call our Technical Service or Sales Dept. to find out more.

Technology



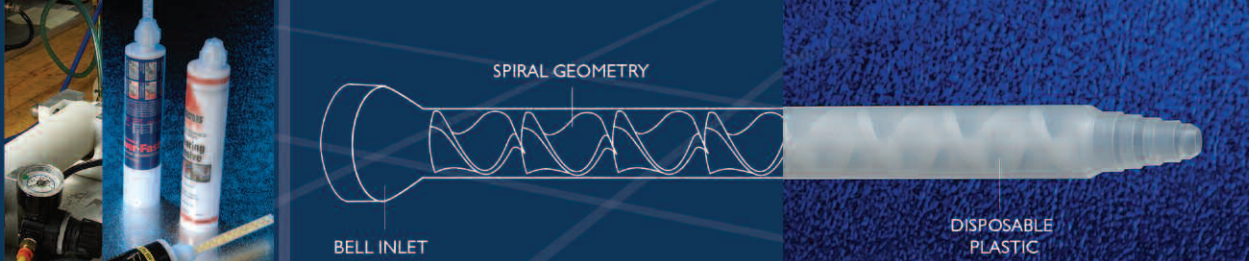
Our patented u-TAH cartridge stores one component in front of the other but both are extruded through the cartridge outlet and into a static mixer simultaneously. As shown in the diagram, the rear piston is stationary. As the inner can is pushed forward, the orange fluid is extruded into the center tube, through the cartridge outlet, and into the mixer. At the same time, the movable piston causes the blue fluid to be extruded through the cartridge outlet and into the mixer.

The cartridge in the diagram shows a 1:1 ratio, although 2:1 and 10:1 ratio cartridges are also available. With the 2:1 cartridge, the stationary piston and inner cartridge have a smaller diameter and cross sectional area.



Venting Options

The standard u-TAH cartridge contains bleed vents to allow air to escape during filling. When using low viscosity materials (less than 1,000 cps), TAH developed a "non-vented" version of the u-TAH cartridges. Please contact our Technical Service or Sales Department to find out which option is best for your product.



Mixers



Options

- ▶ Series 160 Spiral Bell Mixers (page 15)
- ▶ Series 160 Spiral Integral Nut Mixers (page 16)
- ▶ Series 260 Spiral Bell Mixers (page 16)
- ▶ Series 260 Spiral Integral Nut Mixers (page 16)
- ▶ Series 180A Turbo Bell Mixers (page 17)
- ▶ Series 180A Turbo Integral Nut Mixers (page 17)
- ▶ Series 160AA Low-Pressure Air-Assisted Mixer (page 19)

Ratio Check Cap



The ratio check cap was originally designed as a QC tool for our Preferred Fillers to make sure no air was entrapped in the cartridge. However, many customers use it as a proportioning device when only a small amount of material is needed. Simply attach the cap, dispense the amount needed into a small cup and mix by hand. Then remove the cap and re-seal the u-TAH Cartridge for later use.

Low Viscosity Fluids

Flow Restrictor



Special non-vented versions of these cartridges are available to handle very low viscosity fluids. TAH also recommends the use of our Flow Restrictor when dispensing u-TAH Cartridges filled with low-viscosity fluid. Thin adhesives are often too free flowing and can cause cross-contamination, lead/lag problems, and plugging. Our low-cost, plastic

Flow Restrictor eliminates these issues by slowing the thinner component's flow. TAH recommends using the smallest orifice possible. For example, with fluids less than 100 cps, we recommend the 0.062 inch orifice (Part. No. B-806-01).



Remove Plug

Insert Restrictor

Attach Mixer

Hanging Bracket



Complete your packaging with our Hanging Bracket—designed to hang our disposable, 11.2mm Series 280AN Turbo Mixer™ around the neck of the u-TAH cartridge. This bracket is a security feature which protects your store inventory.

u-TAH CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	VOLUME	VENT	MATERIAL
CK-800-01A	1:1 u-TAH Cartridge System	250mL	Vented	Polypropylene
CK-800-03A	1:1 u-TAH Cartridge System	250mL	Vented	Nylon
CK-800-NVA	1:1 u-TAH Cartridge System	250mL	Non-Vented	Polypropylene
CK-820-01A	2:1 u-TAH Cartridge System	180mL	Vented	Polypropylene
CK-820-NVA	2:1 u-TAH Cartridge System	180mL	Non-Vented	Polypropylene
CK-870-03	10:1 u-TAH Cartridge System	280mL	Vented	Nylon

U-TAH RATIO CHECK CAP

PART NO.	DESCRIPTION	ORIFICE (IN / MM)	COLOR
B-808-01	Single Ratio-Check Cap	0.125 / 3.0	Translucent
B-808-01/25	Package of 25 Caps	0.125 / 3.0	Translucent

FLOW RESTRICTOR

PART NO.	ORIFICE (IN / MM)	COLOR
B-806-01	0.062 / 1.5	Translucent
B-806-02	0.092 / 2.4	Black

HANGING BRACKET

PART NO.	DESCRIPTION
HGR-A1	Hanging Bracket for Series 280AN 11.2 mm Turbo Mixers

Mixers with our "A" detail can be used with our Series 163A ProTips™



cartridge systems

Please visit our website for a video showing the u-TAH™ Universal Cartridge in action at www.tah.com.



200-600mL Cartridge Systems

200ML



300ML



400ML



600ML



200mL CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	RATIO	MAX. VOLUME	MATERIAL
CK200SS-01	Open Cartridge w/Installed Nose Plug & 3/8" Nut	1:1	215mL	PP
CK200SS-02	Open Cartridge w/Installed Nose Plug & 1/2" Nut	1:1	215mL	PP
C201SS-01	Closed Cartridge w/Protective Cap	1:1	215mL	PP
B-222-21*	Solid Multi-Seal Piston	1:1	–	PP
B-321-31*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	PP
C201SS-02	Closed Cartridge w/Protective Cap	1:1	215mL	Nylon
B-222-22*	Solid Multi-Seal Piston	1:1	–	Nylon
B-321-32*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	Nylon
C221SS-01	Closed Cartridge w/Protective Cap	2:1	222mL	PP
B-226-21*	Solid Multi-Seal Piston (Small)	2:1	–	PP
B-227-21*	Solid Multi-Seal Piston (Large)	2:1	–	PP
B-323-31*	Multi-Seal Piston w/Prestaged Bleed Plug (Small)	2:1	–	PP
B-325-31*	Multi-Seal Piston w/Prestaged Bleed Plug (Large)	2:1	–	PP

300mL CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	RATIO	MAX. VOLUME	MATERIAL
C301SS-01	Closed Cartridge w/Protective Cap	1:1	323mL	PP
B-222-21*	Solid Multi-Seal Piston	1:1	–	PP
B-321-31*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	PP

400mL CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	RATIO	MAX. VOLUME	MATERIAL
CK400SS-01	Open Cartridge w/Installed Nose Plug & 3/8" Nut	1:1	406mL	PP
CK400SS-02	Open Cartridge w/Installed Nose Plug & 1/2" Nut	1:1	406mL	PP
C401SS-01	Closed Cartridge w/Protective Cap	1:1	406mL	PP
B-242-21*	Solid Multi-Seal Piston	1:1	–	PP
B-341-31*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	PP
C401SS-02	Closed Cartridge w/Protective Cap	1:1	406mL	Nylon
B-242-22*	Solid Multi-Seal Piston	1:1	–	Nylon
B-341-32*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	Nylon

600mL CARTRIDGE SYSTEM

PART NO.	DESCRIPTION	RATIO	MAX. VOLUME	MATERIAL
C601SS-01	Closed Cartridge w/Protective Cap	1:1	630mL	PP
B-262-21*	Solid Multi-Seal Piston	1:1	–	PP
B-361-31*	Multi-Seal Piston w/Prestaged Bleed Plug	1:1	–	PP

* Multi-Seal Pistons available with O-Rings. Please consult our Technical Service or Sales Dept.

Cartridges

Open end outlet



TAH offers large cartridges in 200, 300, 400 and 600mL sizes. The size relates to the total volume capacity of both sides of the cartridges—for instance, the 200mL

holds 100mL in each side. These systems feature:

- ▶ High quality, sturdy one-piece design
- ▶ Fits industry standard dispensers
- ▶ 200 and 400mL 1:1 cartridges are available with open or closed outlet; all others are only available with closed outlet

Pistons (See page 3 for more info)

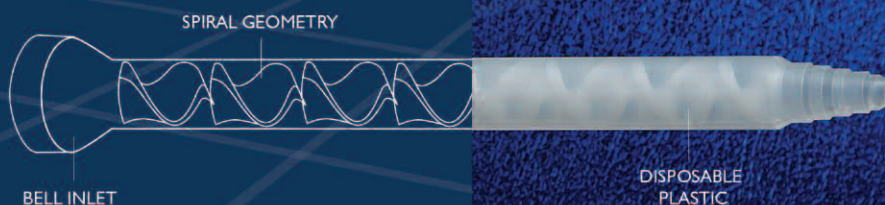
- ▶ Solid Multi-Seal Pistons
- ▶ Multi-Seal Pistons with a Prestaged Center Bleed Plug—which prevents trapped air when inserting the piston without using a shim

Mixers (See pages 16, 17 and 19 for more info)

- ▶ Series 260 Spiral Bell and Integral Nut Mixers
- ▶ Series 180A Turbo Bell and Integral Nut Mixers
- ▶ Series 160AA Low-Pressure Air-Assisted Mixer

Dispensers (See page 20 for more info)

TAH offers high-performing manual and pneumatic dispensers for 200, 400 and 600mL cartridges. Our 300mL cartridge uses industry standard dispensers.



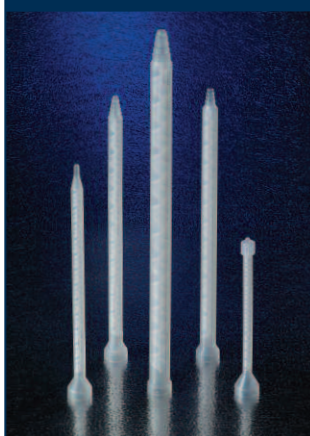
Flow Restrictor

Our low-cost, plastic Flow Restrictor for 200-600mL cartridges eliminates problems caused by low-viscosity fluids by slowing the thinner component's flow. For closed-end side x side cartridges only.

FLOW RESTRICTOR

PART NO.	ORIFICE (IN / MM)
B-426-01	0.062 / 1.5
B-426-02	0.092 / 2.4

Series 160 Disposable Plastic Spiral Bell Mixer



DESCRIPTION

Our disposable Series 160 mixing nozzles are manufactured of a strong solvent-resistant plastic and feature an industry-standard bell inlet and our patented spiral geometry. The elements in these mixers are 180° helical 'twists' alternating in either right- or left-hand rotation. These alternating elements are joined so that their leading and trailing edges are mutually perpendicular.



Specification

- ▶ Element: Acetal
- ▶ Housing: Polypropylene

Accessories

- ▶ Luer Lok Adapter (page 11)
- ▶ Luer Needle (page 11)

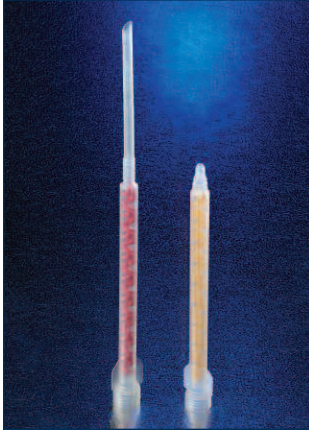
When ordering a Luer Lok fitting, simply add "LL" to the part number.

SERIES 160 MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	HOUSING, OUTSIDE DIA. (INCH / MM)	OUTLET TIP ORIFICE (INCH / MM)	OUTLET TIP STYLE	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
160-408	8	0.189 / 4.80	2.62 / 6.65	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
160-416	16	0.189 / 4.80	3.90 / 9.91	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
160-424	24	0.189 / 4.80	5.18 / 13.16	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
160-432	32	0.189 / 4.80	6.48 / 16.46	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
160-448	48	0.189 / 4.80	9.04 / 22.96	0.300 / 7.62	0.07 / 1.78	Slip Luer	500 / 34
160-608	8	0.248 / 6.30	3.56 / 9.04	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
160-616	16	0.248 / 6.30	5.46 / 13.87	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
160-624	24	0.248 / 6.30	7.46 / 18.95	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
160-632	32	0.248 / 6.30	9.49 / 24.10	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
160-648	48	0.248 / 6.30	13.14 / 33.38	0.370 / 9.40	0.09 / 2.29	Slip Luer	360 / 25
160-718	18	0.314 / 8.00	6.96 / 17.68	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
160-724	24	0.314 / 8.00	8.84 / 22.45	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
160-732	32	0.314 / 8.00	11.44 / 29.06	0.461 / 11.71	0.10 / 2.54	Stepped	330 / 23
160-812	12	0.366 / 9.30	5.48 / 13.92	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-818	18	0.366 / 9.30	7.28 / 18.49	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-824	24	0.366 / 9.30	9.15 / 23.24	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-830	30	0.366 / 9.30	11.24 / 28.55	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-840	40	0.366 / 9.30	14.14 / 35.92	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-860	60	0.366 / 9.30	22.4 / 56.90	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
160-864	64	0.366 / 9.30	24.0 / 60.96	0.510 / 12.95	0.12 / 3.05	Stepped	300 / 21
161-212	12	0.497 / 12.65	6.71 / 17.04	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
161-218	18	0.497 / 12.65	9.08 / 23.06	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
161-224	24	0.497 / 12.65	11.60 / 29.46	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
161-230	30	0.497 / 12.65	14.09 / 35.79	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19
161-236	36	0.497 / 12.65	16.63 / 42.24	0.660 / 16.76	0.18 / 4.57	Stepped	270 / 19



Series 260 Disposable Plastic Spiral Bell Mixer



Description	Specification
Our Series 260 Spiral Mixers are available in Standard Bell and Integral Nut inlet connections. TAH is expanding our line to include integral nut mixers with hangers. Call our Technical Service or Sales Dept. for more information.	<ul style="list-style-type: none"> ▶ Element: Acetal ▶ Housing: Polypropylene
Options	Accessories
<ul style="list-style-type: none"> ▶ Series 260 Spiral Bell Mixer ▶ Series 260 Spiral Integral Nut Mixer 	<ul style="list-style-type: none"> ▶ Series I63A ProTip Dispensing Tip (page I9)

SERIES 260 SPIRAL BELL MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	RETAINED VOLUME (ML)
160A-718*	18	0.314 / 8.0	7.0 / 17.8	6
160A-724*	24	0.314 / 8.0	8.9 / 22.6	8
160-812L	12	0.366 / 9.3	12.6 / 32.0	12
160A-818*	18	0.366 / 9.3	7.3 / 18.5	8
160A-824*	24	0.366 / 9.3	9.3 / 23.6	10
260-812-604	16	0.366 / 9.3 and 0.250 / 6.3	12.6 / 32.0	12
260-812-608	20	0.366 / 9.3 and 0.250 / 6.3	12.6 / 32.0	12
261A-218*	18	0.502 / 12.8	9.1 / 23.1	19
261-218BL	18	0.502 / 12.8	14.1 / 35.8	24
261A-224*	24	0.502 / 12.8	11.6 / 29.5	25

SERIES 260 SPIRAL INTEGRAL NUT MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	RETAINED VOLUME (ML)
160AN-718*	18	0.314 / 8.0	7.5 / 19.0	6
160AN-818*	18	0.366 / 9.3	7.8 / 19.8	8
160AN-824*	24	0.366 / 9.3	9.8 / 24.9	10
260N-805	5	0.366 / 9.3	4.9 / 12.4	7
260N-809	9	0.366 / 9.3	7.9 / 20.0	7
260N-812T	12	0.406 - 0.355 / 10.5 - 8.5	8.6 / 21.8	12
261AN-218*	18	0.502 / 12.8	9.6 / 24.4	19
261N-218BL	18	0.502 / 12.8	14.4 / 36.5	24
262-616-01	16	0.789 / 20.0	12.9 / 32.7	71
262-620-01	20	0.789 / 20.0	15.6 / 39.6	88

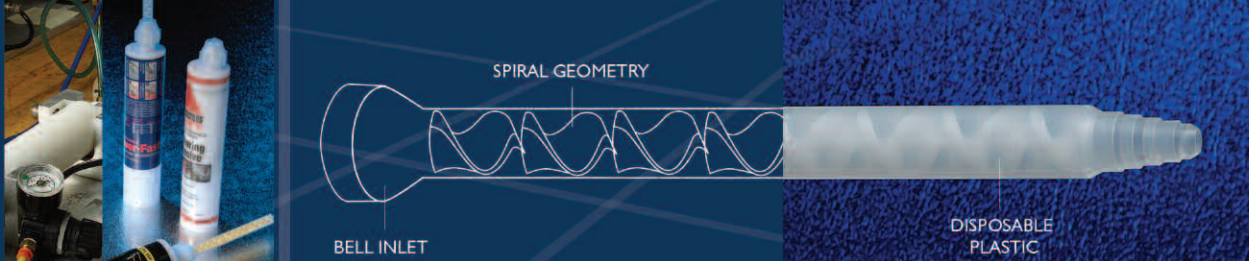
* Accepts TAH's Pro-Tip™ Accessories

Note: Unless otherwise specified, all TAH integral nut mixers contain industry-standard 7/8 - 9 single lead thread.

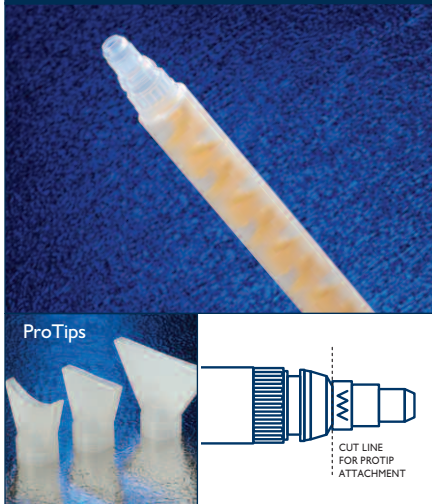


Did You Know?

TAH can mold custom cartridges to your specifications. Contact our Technical Service or Sales Dept. for more information.



Series 160A Disposable Plastic Spiral Bell Mixer for ProTips™



Description

The Series 160A mixing nozzle accepts ProTips, and thus combines the design benefits of the disposable Series 160 static mixer with the advantage of flexibility in adhesive material discharge. These mixers have the TAH "A" tip which allows the user to either mix and apply adhesive in a single small bead or, by attaching the TAH ProTip, discharge material in a variety of widths.

Specification

- ▶ **Element:** Acetal
- ▶ **Housing:** Polypropylene

Accessories

- ▶ Series 163A ProTip™ Dispensing Tip (page 19)

SERIES 160A MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	HOUSING OUTSIDE DIA. (INCH / MM)	OUTLET TIP ORIFICE (INCH / MM)	OUTLET TIP STYLE	PRESSURE LIMIT (PSI@75°F / BAR@23°C)
I60A-718	18	0.314 / 8.00	6.96 / 17.68	0.461 / 11.71	0.10 / 2.54	ProTip™	330 / 23
I60A-724	24	0.314 / 8.00	8.84 / 22.45	0.461 / 11.71	0.10 / 2.54	ProTip™	330 / 23
I60A-818	18	0.366 / 9.30	7.28 / 18.49	0.510 / 12.95	0.12 / 3.05	ProTip™	300 / 21
I60A-824	24	0.366 / 9.30	9.15 / 23.24	0.510 / 12.95	0.12 / 3.05	ProTip™	300 / 21
I61A-218	18	0.497 / 12.65	9.08 / 23.06	0.660 / 16.76	0.18 / 4.57	ProTip™	270 / 19
I61A-224	24	0.497 / 12.65	11.60 / 24.96	0.660 / 16.76	0.18 / 4.57	ProTip™	270 / 19

Series 180A Disposable Plastic Turbo (Square) Bell Mixer



Description

The Series 180A Turbo Mixer's square geometry can provide superior mixing, allowing the operator to be closer to the application, and reducing the retained waste within the mixer. The design consists of a series of alternating left- and right-hand elements with intermittent flow inverters which effectively channel the fluids from the walls into the center of the mixer.

Options

- ▶ Series 180A Turbo Bell Mixers
- ▶ Series 180A Turbo Integral Nut Mixers

Specification

- ▶ **Element:** Acetal
- ▶ **Housing:** Polypropylene

Accessories

- ▶ Series 163A ProTip™ Dispensing Tip (page 19)

SERIES 180A TURBO BELL MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT WIDTH (INCH / MM)	HOUSING LENGTH (INCH / CM)	RETAINED VOLUME (ML)
I80A-818	18	0.344 / 8.7	5.1 / 13.0	6.5
I80A-824	24	0.344 / 8.7	6.3 / 16.0	7.5
I80A-836	36	0.344 / 8.7	8.8 / 24.4	11.0

SERIES 180A TURBO INTEGRAL NUT MIXERS

PART NO.	MIXING ELEMENTS	ELEMENT WIDTH (INCH / MM)	HOUSING LENGTH (INCH / CM)	RETAINED VOLUME (ML)
I80AN-818	18	0.344 / 8.7	5.6 / 14.2	6.5
I80AN-824	24	0.344 / 8.7	6.8 / 17.3	7.5
I80AN-830	30	0.344 / 8.7	8.1 / 20.6	10.0

2-K Made Simple: Package. Mix. Dispense.



Series 280 Disposable Plastic Turbo (Square) Bell Mixer



Description

The Series 280 11.2mm Turbo Mixer™ square geometry can provide superior mixing, allowing the operator to be closer to the application, and reducing the retained waste within the mixer.

The Series 280 Turbo is designed with an 11.2mm element width and includes Integral Nut Bell for easy installation, a molded barbed outlet to accept tube extensions, and our special "A" tip detail to accept our Series 163A ProTip accessories.

Hanging Bracket

The optional "hanging bracket" attaches the Series 280 Mixer to TAH's Cartridge Systems. The double-looped form snaps onto the 11.2mm nozzle's unique ribs and over the neck of a cartridge creating a durable attachment.

Accessories

- ▶ Series 163A Pro-Tip™ Dispensing Tip (opposite page)
- ▶ Hanging Bracket

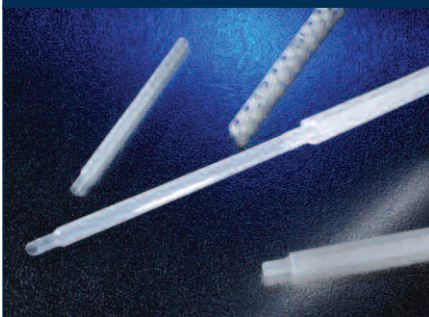
SERIES 280AN TURBO BELL MIXER

PART NO.	MIXING ELEMENTS	INLET	OUTLET	WIDTH (INCH / MM)	ELEMENT LENGTH (INCH / CM)	HOUSING RETAINED VOLUME (ML)
280AN-220	20	7/8 - 9 Integral Nut	A-Detail w/Short Barb	0.442 / 11.2	7.52 / 19.1	15.1
280AN-226	26	7/8 - 9 Integral Nut	A-Detail w/Short Barb	0.442 / 11.2	9.00 / 22.9	17.0
280N-220-1	20	7/8 - 9 Integral Nut	Special Conical Ribbed Outlet	0.442 / 11.2	9.98 / 25.3	17.9

HANGING BRACKET

PART NO.	DESCRIPTION
HGR-A1	Hanger Bracket

Series 281N Disposable Plastic High Flow Turbo Mixer



Description

The 14.3mm High Flow Turbo Mixer™ is our newest square-geometry static mixer. This mixer gets things flowing, enabling higher flow rates with less effort. The square geometry consists of a series of alternating left and right hand elements with intermittent flow inverters which effectively channel the fluids from the walls into the center of the mixer. The High Flow Turbo is designed to fit most disposable cartridges.

Features

- ▶ About half the length of comparative spiral mixers
- ▶ Consistent high quality mixing
- ▶ Cost savings from reduced adhesive waste
- ▶ Improved service life compared to competitive square mixers
- ▶ Snap off extensions

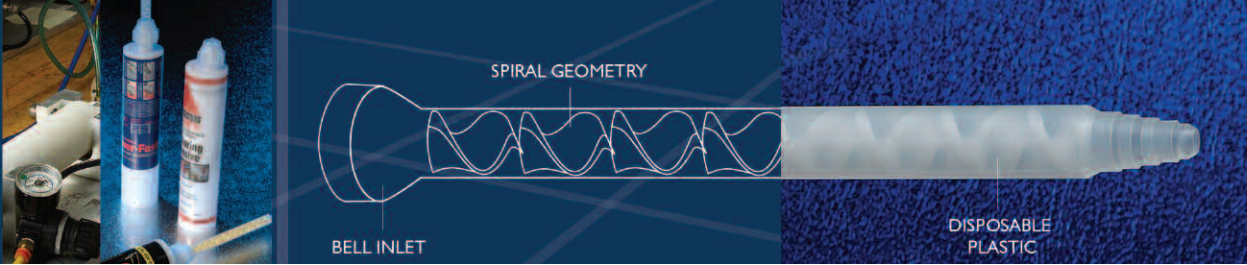
HIGH FLOW TURBO MIXER

PART NO.	MIXING ELEMENTS	ELEMENT DIAMETER (INCH / MM)	HOUSING LENGTH (INCH / CM)	HOUSING RETAINED VOLUME (ML)
281N-519BL-9*	19	0.562 / 14.3	15.3 / 3.89	40.4
281N-519BL2-9	19	0.562 / 14.3	15.3 / 3.89	33.7

* Also available with 7/8 - 14 double lead thread inlet under part number 281N-519BL-14.

Hanging Bracket





ProTip™ Dispensing Tip



Description

The Series 163A ProTip™ Mixer Accessories are designed to provide higher speed, increased control, and an easy and cost-efficient way to apply ribbons or specialized profiles when applying two-component materials. The polyethylene ProTip™ easily snaps onto TAH's "A" Series disposable bell housing mixers. ribbon, half round, and specialty transitional tips are available. The test kit contains an assortment of ProTip™ Accessories.

Mixer Applications

Fits all Series 160 or higher mixers with an "A" in the part number.

- ▶ Series 160A
- ▶ Series 180A
- ▶ Series 260

SERIES 163A PROTIP

PART NO.	STYLE	DESCRIPTION	WIDTH (INCH / MM)	OPENING (INCH)
163A-TK	—	Test Kit	—	—
163A-01	Ribbon	ProTip™	0.5 / 12.70	3/32
163A-02	Ribbon	ProTip™	1.0 / 25.40	3/32
163A-03	Ribbon	ProTip™	1.7 / 43.18	3/32
163A-06	Half Round	ProTip™	0.5 / 12.70	3/32
163A-07	Half Round	ProTip™	1.0 / 25.40	3/32
163A-05	Transitional	1/4" Female NPT	—	—
163A-09	Transitional	Female Luer Adapter	—	—
163A-10	Transitional	1" and 2" Edge Guide	—	—

Series 160AA Disposable Mixers for Quick•Spray System



Description

TAH's Series 160AA Quick•Spray is a low-pressure air-assisted spray mixer for two-component coatings. This disposable static mixer is designed for our Series 171 Quick•Spray LP System and can be used with conventional meter/mix equipment or with TAH's two-component cartridge system. The reactive coating is mixed within the disposable static mixer. At the mixer outlet, air is introduced which atomizes the liquid stream. The degree of atomization can be adjusted by regulating the airflow rate. Since the reactive coating is contained completely within the mixer, cleanup is minimal.

Spray Pattern



Round Spray Pattern

The round air cap produces a full cone pattern, which is completely filled with spray drops. It is used on irregular surfaces, such as truck bed interiors.



Flat Spray Pattern

The flat air cap produces a non-tapered flat pattern which is preferred on flat surfaces. The flat pattern minimizes overspray.

SERIES 160AA SPRAY MIXER

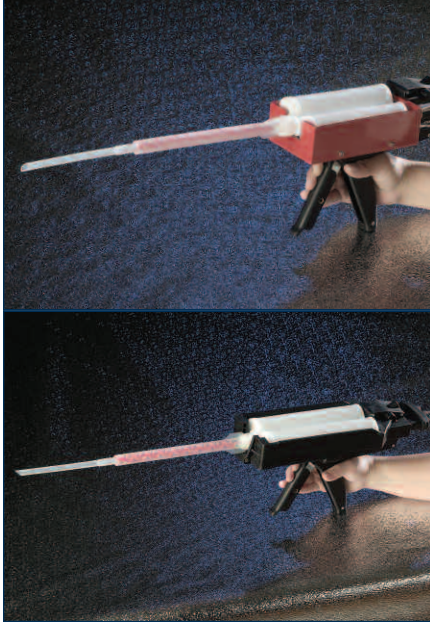
PART NO.	NO. OF ELEMENTS	MIXER DIAMETER (INCH / MM)	PRESSURE LIMITATION (PSI@75°F / BAR@23°C)	MATERIAL	AIR NOZZLE PATTERN ROUND / FLAT
160-624AA-1*	24	0.238 / 6.30	360 / 25	Plastic and metal	171-AN-120 / 171-AN-FI
160-624AA-4**	24	0.238 / 6.30	360 / 25	Plastic	171-AN-200
160-824AA-2*	24	0.366 / 9.30	300 / 21	Plastic and metal	171-AN-150 / 171-AN-F2
161-224AA-3*	24	0.497 / 12.65	270 / 19	Plastic and metal	171-AN-180 / 171-AN-F2

* Includes plastic manifold with metal air cap and retaining nut. ** All plastic manifold and one-piece cap and nut.

For up-to-date information on TAH products, visit www.tah.com



200-600mL Cartridge Manual Dispensers



Description

Operators will appreciate the better balance and lighter weight of our manual dispenser. The drive mechanism uses double gearing, ensuring superior performance with minimum hand force. The front cradle provides a convenient location for two-handed operations. The more economical manual dispenser is generally preferred for occasional applications. TAH also offers other dispensers. Contact our Technical Service or Sales Department for availability. Consider these advantages:

- ▶ **Light Weight and Well Balanced:** Easy to position and hold steady
- ▶ **Double Gearing:** Less operator fatigue
- ▶ **Minimum "After Drool":** Quick-acting brake release
- ▶ **Easy Conversion:** 1:1 to 2:1 cartridges (200mL Only—see top left photo)

200-600mL CARTRIDGE MANUAL DISPENSER

PART NO.	DESCRIPTION	RATIO	WEIGHT (LB / KG)
DK-320-01	200mL	1:1	1.8 / 0.8
DK-322-01	200mL	1:1 & 2:1	3.1 / 1.4
DK-340-01	400mL	1:1	2.9 / 1.3
DK-360-01	600mL	1:1	4.3 / 1.9

200-600mL Cartridge Pneumatic Dispensers

Pneumatic Dispenser



Description

The Pneumatic Dispenser greatly reduces operator fatigue when dispensing large volumes and/or high viscosity materials. When used in conjunction with our ProTip™ accessories (see page 19 for more info.), uniform flat beads or special profiles can be easily extruded. The pneumatic dispenser is recommended for frequent uses that require superior control of the bead profile. Consider these advantages:

- ▶ **Ergonomic Handle**
- ▶ **Minimum "After Drool":** High volume air release
- ▶ **Indicator Rod:** Indicates volume left in cartridge
- ▶ **Convenient Flow Rate Control:** Thumb adjustment of air pressure

200-600mL CARTRIDGE PNEUMATIC DISPENSER

PART NO.	DESCRIPTION	RATIO	WEIGHT (LB / KG)
DK-420-01	200mL	1:1 & 2:1	3.3 / 1.5
DK-440-01	400mL	1:1	4.2 / 1.9
DK-460-01	600mL	1:1	5.8 / 2.6

Pneumatic Dispenser Retrofit Kit for Quick•Spray System



Description

This unit can be used with any of our pneumatic dispensers (shown above) as well as most industry-standard units. After each application, the mixer is discarded but the spray fitting can be reused.

UPGRADE OPTIONS

PART NO.	DESCRIPTION
171-RTR	Retrofit Kit
AR-REG	Air Regulator