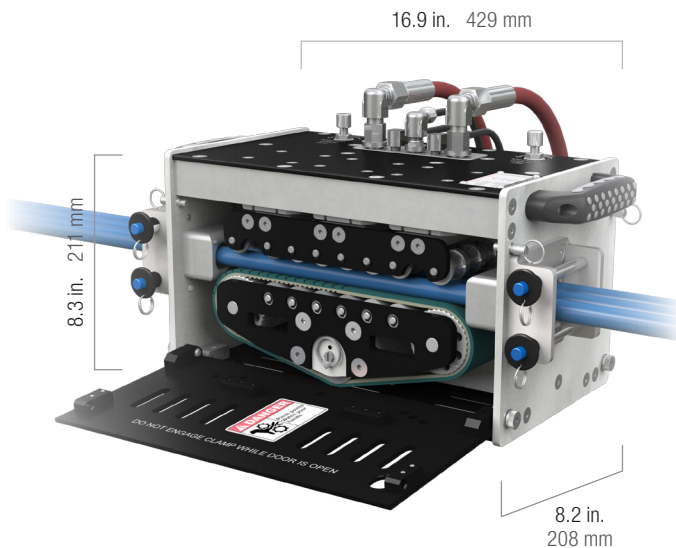


AUTOBOX ABX-3L

Automated Heat Exchanger Tube Cleaning



OVERVIEW

The StoneAge AutoBox ABX-3L is an automated system for hands-free heat exchanger tube cleaning applications. It is designed to run **triple, dual, or single flex lance** setups with an emphasis on portability, ease of setup, and safety.

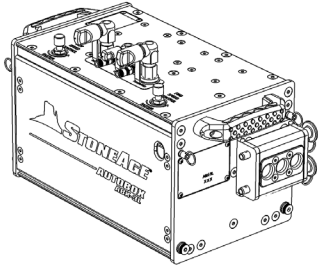
Paired with StoneAge Banshee rotary tube cleaning nozzles and our lightweight positioner, the ABX-3L offers safe and efficient tube cleaning in the harshest exchanger environments.

COMPETITIVE ADVANTAGES

- **Run hoses from 3/2 to 8/4** without component changes
- **Cost of ownership is greatly reduced** as compared to competitive equipment through simple maintenance and affordable replacement parts
- **All parts are stocked and ready to ship** same day to minimize work interruption
- **Hose clamp pressure and feed rates can be quickly adjusted** for repeatable, consistent cleaning
- **Modular compact design** is easy to transport and quick to set up — all components under 50 lbs
- Proven to **operate reliably in corrosive environments**
- **High visibility guide tube assembly** for easy indexing — no tools or adapters required for guide tube adjustment
- **Full line of accessories available** to help you make the most of your investment

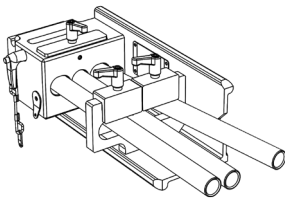
FEATURES	BENEFITS
<ul style="list-style-type: none">• Handles hose sizes from 3/2 to 8/4 without component changes	<ul style="list-style-type: none">• Minimize downtime when switching between hose sizes
<ul style="list-style-type: none">• Steel-reinforced drive belt with durable polyurethane cover	<ul style="list-style-type: none">• Reliable for hundreds of hours of operation• Replacement takes minutes and costs a fraction of competing drive systems
<ul style="list-style-type: none">• Triple, dual, or single lance operation	<ul style="list-style-type: none">• Easily adapt to specific application requirements
<ul style="list-style-type: none">• Independent forward/reverse speed control from 0.3–3.0 ft/sec	<ul style="list-style-type: none">• Consistent cleaning in both directions produces better results in less time
<ul style="list-style-type: none">• Remotely adjustable hose clamp	<ul style="list-style-type: none">• Adjust to changing conditions on the fly and minimize hose wear without interrupting workflow
<ul style="list-style-type: none">• Modular, lightweight positioner	<ul style="list-style-type: none">• System is easy to set up on different exchanger sizes and mounting options with no additional tools
FULL RANGE OF HOSE STOPS, COLLETS, GUIDE TUBES, AND BANSHEE NOZZLES AVAILABLE	

AUTOBOX ABX-3L OVERVIEW



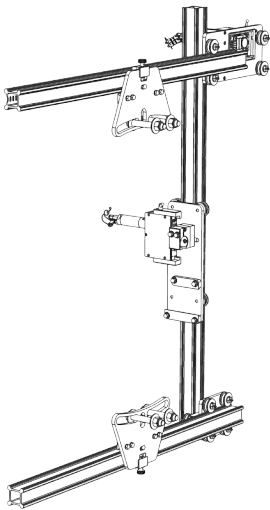
ABX-3L HOSE TRACTOR

- Accommodates full hose range from 3/2–8/4 – *no modifications or additional components required*
- Features long-life, low-cost belt drive system
- Maintains traction in difficult operating conditions
- Can be used in single, dual or triple lance applications
- Quick pin attachment to guide assembly
- Hinged side doors for easy access to belt and air motors
- Lightweight and compact design



GUIDE ASSEMBLY

- High visibility design for efficient indexing
- Quick clamps for easy pitch adjustment with no additional tools
- Quick-change guide tubes are common material – *no adapters required*
- 17-4 SS hose stop collets for anti-withdrawal protection

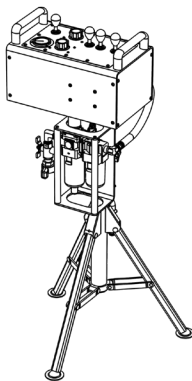


LIGHTWEIGHT POSITIONER

- Modular and expandable
- Quick-install drive carriages enable assembly without air supply
- Utilizes lightweight 2.5" box rail
- Durable stainless steel air motors
- Variety of clamp and bolt-on attachment options are available
- Compatible with full line of AutoBox systems (ABX-3L, ABX-2L, ABX-PRO)

CONTROL BOX

- Small, lightweight, ergonomic design that includes a portable stand and filter-regulator-lubricator assembly
- Controls forward/reverse hose feed, clamp pressure
- Positioner controls: left/right and up/down
- Pneumatic dump control switch



TOOL SPECIFICATIONS

MODEL	ABX-3L
Hose Feed Rate	0.3–3.0 ft/sec 0.09–0.90 m/sec
Hose Size	3/2–8/4
Max. Hose Crimp Ø	0.74 in. 19 mm
Push/Pull Force	5–150 lb 2.3–68 kg
Pitch Adjustment	Dual: 0.6–3.0 in. 16–76 mm Triple: 0.6–1.5 in. 16–38 mm
Max. Air Pressure	100 psi 0.70 MPa
Dimensions	8.3 in. H x 16.9 in. L x 8.2 in. W 211 mm x 429 mm x 208 mm
Tractor Weight	49 lbs 22 kg

ADDITIONAL INFORMATION

- **The ABX-3L is fitted with 2 motors**

Having 2 motors allows the ABX-3L to be optimized for feeding 1, 2 or 3 lances. The ABX-3L is designed to limit unnecessary wear and tear on the hoses and/or the drive belt. Two motors also translate to higher machine operational reliability, as the ABX-3L can function well with a single motor drive, although push/pull forces will be reduced.

The motors are plumbed in parallel so both motors are always operating. The overall force the motors can deliver is regulated (via motor exhaust) using the CB. Rental and Production versions of the CB will be annotated to show “optimal settings” for 1, 2 or 3 lance work. The early field test/demo units out now have a dial-type regulator (just like the clamp) that allows operators to adjust the motor torque by turning the regulator knob.

- **Compatible Banshee Models**

The ABX-3L system was designed to accommodate up to three simultaneous flex lances ranging in size from 3/2 to 8/4 matched with the appropriate size Banshee model tool. Compatible models are BN 9.5, BN13, BN15, and BN18.

- **Material type variances**

We offer two types of belts for use based on the material being removed – a “standard” belt for most applications, and an “oily” belt for applications where more traction is required.

- **Maintenance requirements**

Belt and roller life can vary significantly as a function of application and machine setup. The ABX-3L is designed to exceed 300 hours of maintenance-free operation with proper use.

Belt replacement is quick (appx. 2 minutes) and requires only a pair of needle nose pliers.

Tool manuals and training videos are available on our website:

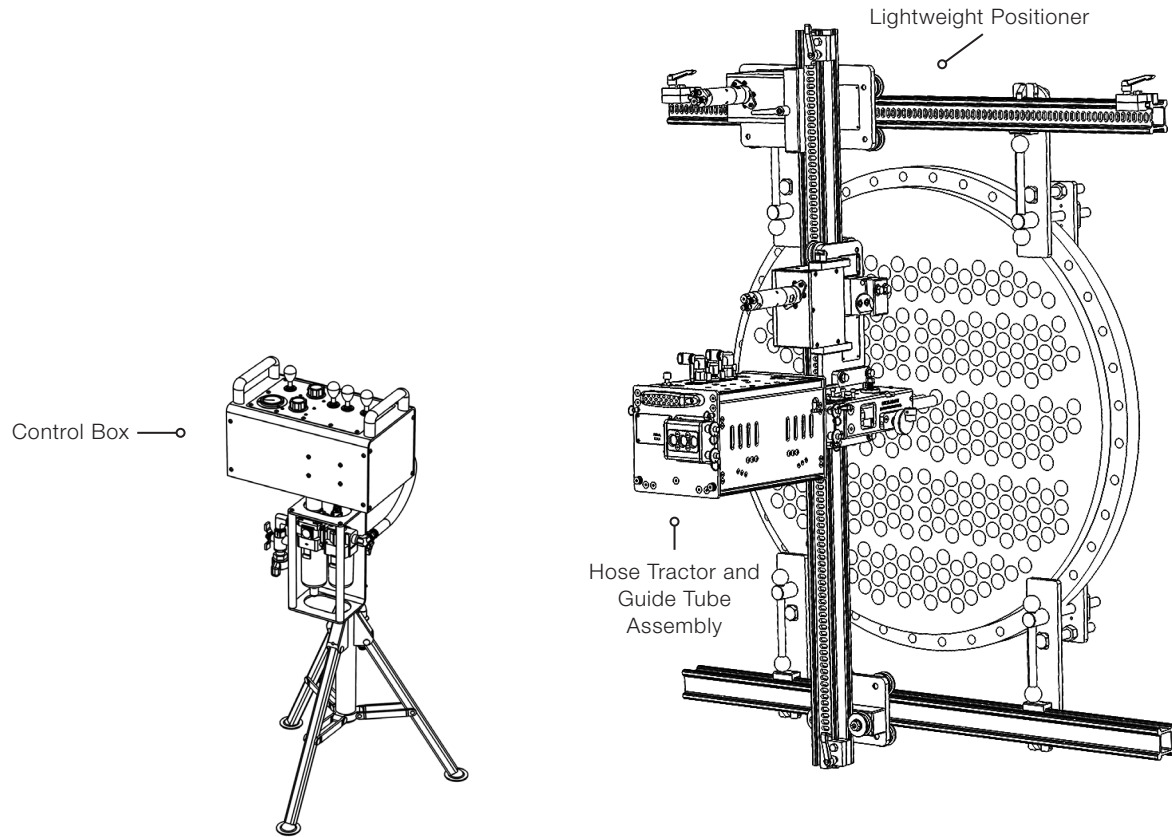
WWW.STONEAGETOOLS.COM

IMPORTANT!

The maximum crimp diameter that will fit through the ABX-3L is 0.74”.

No adjustments or component changes are required to use hoses sized between Ø 0.27” OD and 0.61”OD (3/2 to 8/4). However, **hose ends must be Blast Pro or Pro Lance** (reduced diameter sleeves for heat exchanger tube cleaning) to ensure hoses will fit through the machine.

AUTOBOX ABX-3L CONFIGURATION



A complete AutoBox ABX-3L configuration includes the following components:

- | | |
|------------------------|-------------------|
| 1. ABX-3L hose tractor | 4. Backout collet |
| 2. Guide tube assembly | 5. Hose feed stop |
| 3. Guide tubes | 6. Control box |

The following items may also be required:

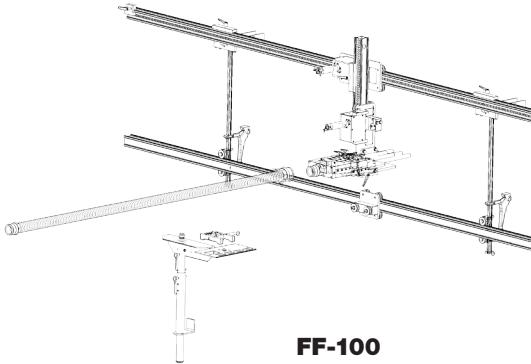
- | | |
|---|-------------------|
| • Positioner, with appropriate length of drive rail | • Banshee nozzles |
| • Flex lances | • Y manifold |
| • Positioner mounting clamps | |

To configure an AutoBox ABX-3L, the following information should be obtained:

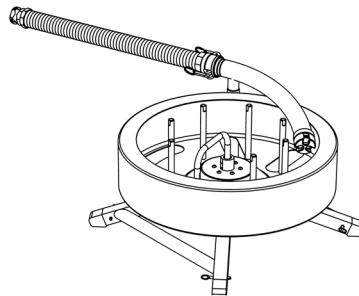
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|--|--|
| • Size of rotary tool | • Length of guide tubes required – standard 12.5" and 36" lengths, custom lengths also available |
| • Size of hose | • Preferred mounting clamp(s) for positioner |
| • Diameter of tube bundle (positioner window size) | |

ACCESSORIES

The following accessory systems are available for the AutoBox ABX-3L. See the Tool Talks for these systems for complete configuration information.



FF-100
Fin Fan Accessory
AVAILABLE IN 2017!



HCS-3L
Hose Containment System



AST-100-2L
AutoStroke

PART ID	DESCRIPTION
FF-100	Fin Fan Accessory - AVAILABLE IN 2017! Adapts system for fin fan exchanger cleaning
HCS-3L	Hose Containment System increases job site safety and prolongs hose life
AST-100-2L	AutoStroke Extends nozzle life and increases productivity when cleaning plugged tubes

Visit our website for Tool Talks and specifications:

WWW.STONEAGETOOLS.COM

For questions or help with a specific application, configuration or tool repairs, please contact StoneAge Customer Service.