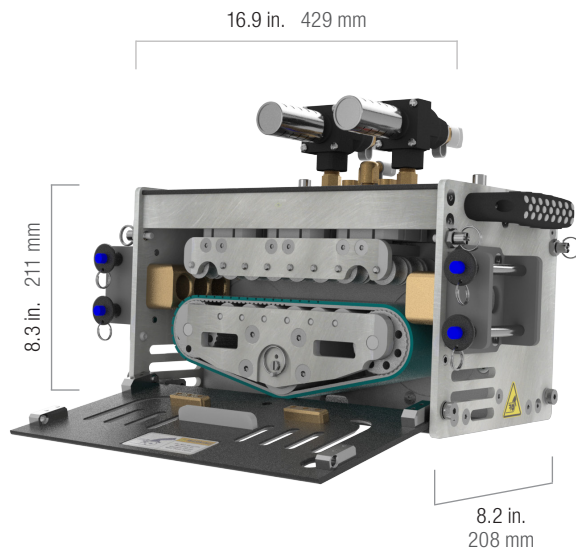


AUTOBOX ABX-3L

Automated Heat Exchanger Tube Cleaning



OVERVIEW

The StoneAge AutoBox ABX-3L is an automated system for hands-free tube bundle and Fin Fan heat exchanger cleaning applications. It is designed to **run triple, dual, or single** flex lance setups with an emphasis on portability, ease of setup, and safety. The ABX-3L can be used with any pressure rated hose ranging in size from 3/2 to 8/4.

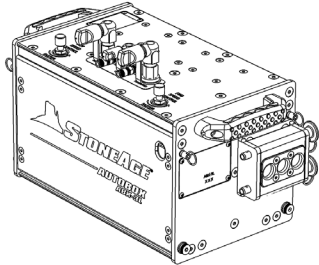
Paired with StoneAge Banshee rotary tube cleaning nozzles and our Lightweight Positioner, the ABX-3L offers safe and efficient tube cleaning in the harshest exchanger environments.

COMPETITIVE ADVANTAGES

- Run hoses from 3/2 to 8/4 without component changes
- 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
- 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
- Full line of accessories available to help you make the most of your investment

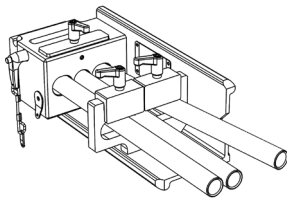
FEATURES	BENEFITS
<ul style="list-style-type: none">• Handles hose sizes from 3/2 to 8/4 without component changes	<ul style="list-style-type: none">• Minimize downtime when switching between hose sizes
<ul style="list-style-type: none">• Steel-reinforced drive belt with durable polyurethane cover	<ul 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

AUTOBOX ABX-3L OVERVIEW



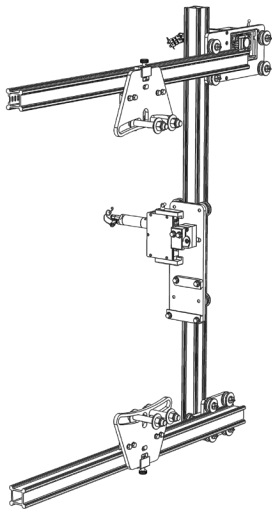
ABX-3L HOSE TRACTOR

- 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
- Turn knob control provides precise pitch adjustment
- Quick-change guide tubes are common material – *no adapters required*
- 17-4 SS hose stop collets for anti-withdrawal protection

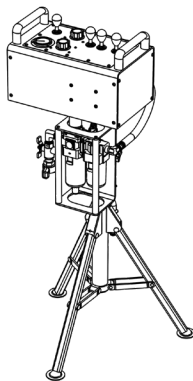


LIGHTWEIGHT POSITIONER

- Modular, lightweight design with quick install drive carriages
- Utilizes lightweight 2.5 in. (64 mm) 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, feed motor pressure selector, and clamp pressure
- Positioner controls: left/right and up/down
- Pneumatic dump control switch



TOOL SPECIFICATIONS

MODEL	ABX-3L-V3
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
Hose Feed Rate	0.3–3.0 ft/sec 0.09–0.9 m/sec
Push/Pull Force	15–150 lb 6–68 kg
Pitch Adjustment	Dual: 0.6–5.0 in. 16–127 mm Triple: 0.6–2.5 in. 16–64 mm
Max. Air Pressure	125 psi 0.86 MPa
Operating 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	48 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:

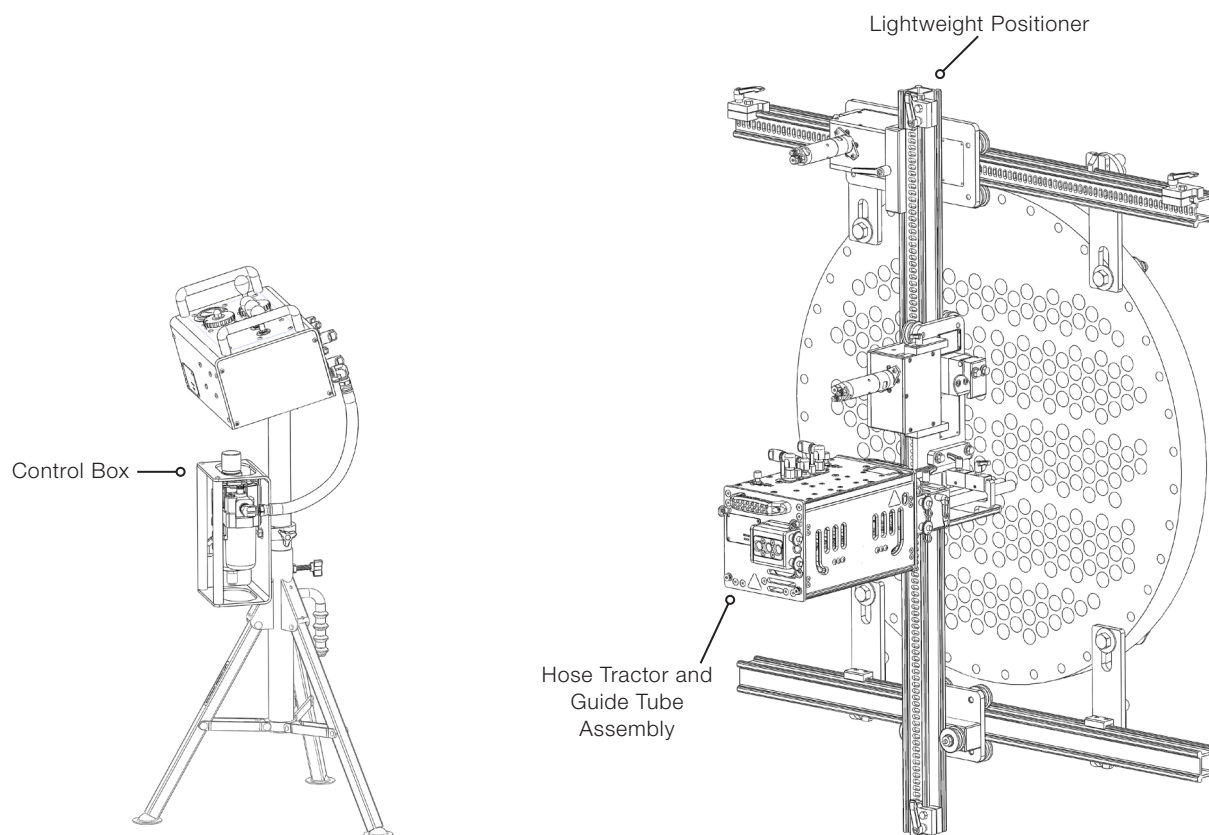
WWW.STONEAGETOOLS.COM

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



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

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

ORDERING THE AUTOPACK

StoneAge offers a complete package for the AutoBox ABX-3L that includes **all the available sizes of all component parts in a portable job box**. The ABX-3L AutoPack configuration is shown below:

PACKAGE PART ID		AUTO-3L-V3-LWPS-PKG
QTY	DESCRIPTION	PART ID
1	Kit, Manifold and Fittings - 22k psi/1500 bar	ABX 64?
1	Kit, 12in Guide Tubes (3 ea ABX 115, 116, 117, 119)	ABX 631-12
1	Guide Assembly, 3L, High-Visibility	ABX-301
1	AutoBox, Belt Track Drive Assy 3 Lance	ABX-3L-V3
1	Control Box Assy, CBX-PL	CBX-ABX-PL
1	Job Box, 3L (V3) and LWPS	GPT 067-3L-003
1	Kit, Hose Stop and Collet 3L	GPT 108
2	Tool Bag, 18in	GPT 310
1	Kit, Quick Clamp Assy (Clamp to flange, 4 Pcs.)	LWP 621
1	Kit, Plate Clamp Assy (Bolted to flange, 2 Pcs.)	LWP 622
1	Lightweight Positioner for Sentinel, No Sensors	LWPS-100-6-NS
1	AutoPack ABX-3L-V3 Spiral Binder 8.5 x 11	PL 706

? - Specify manifold options

Tool manuals and training videos are available on our website:

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