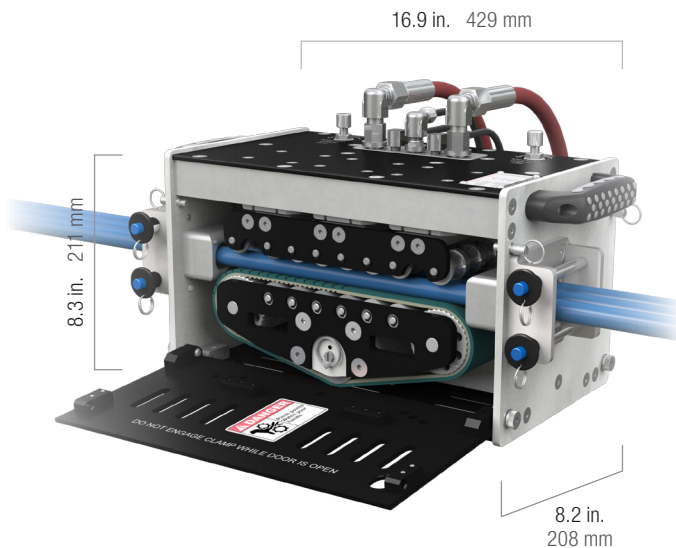


# AUTOBOX ABX-3L

## 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.

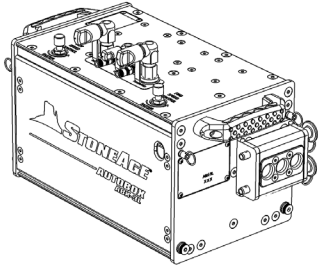
Paired with StoneAge Banshee rotary tube cleaning nozzles and our Lightweight Positioner, the ABX-3L offers safe and efficient tube cleaning in the harshest exchanger environments.

### COMPETITIVE ADVANTAGES

- **Run hoses from 3/2 to 8/4** without component changes
- **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

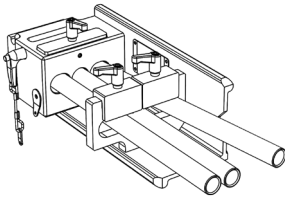
FEATURES	BENEFITS
<ul style="list-style-type: none"><li>• Handles hose sizes from 3/2 to 8/4 without component changes</li></ul>	<ul style="list-style-type: none"><li>• Minimize downtime when switching between hose sizes</li></ul>
<ul style="list-style-type: none"><li>• Steel-reinforced drive belt with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

# AUTOBOX ABX-3L OVERVIEW



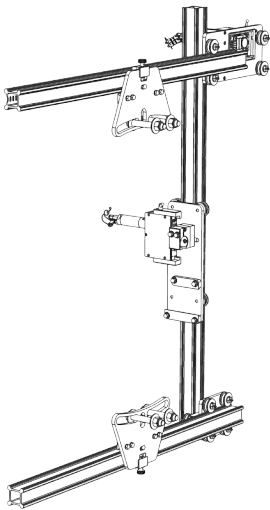
## ABX-3L HOSE TRACTOR

- 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

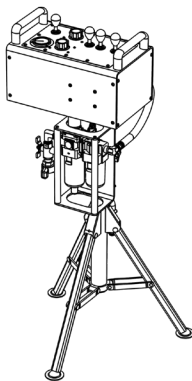


## LIGHTWEIGHT POSITIONER

- 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

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## 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](http://WWW.STONEAGETOOLS.COM)**

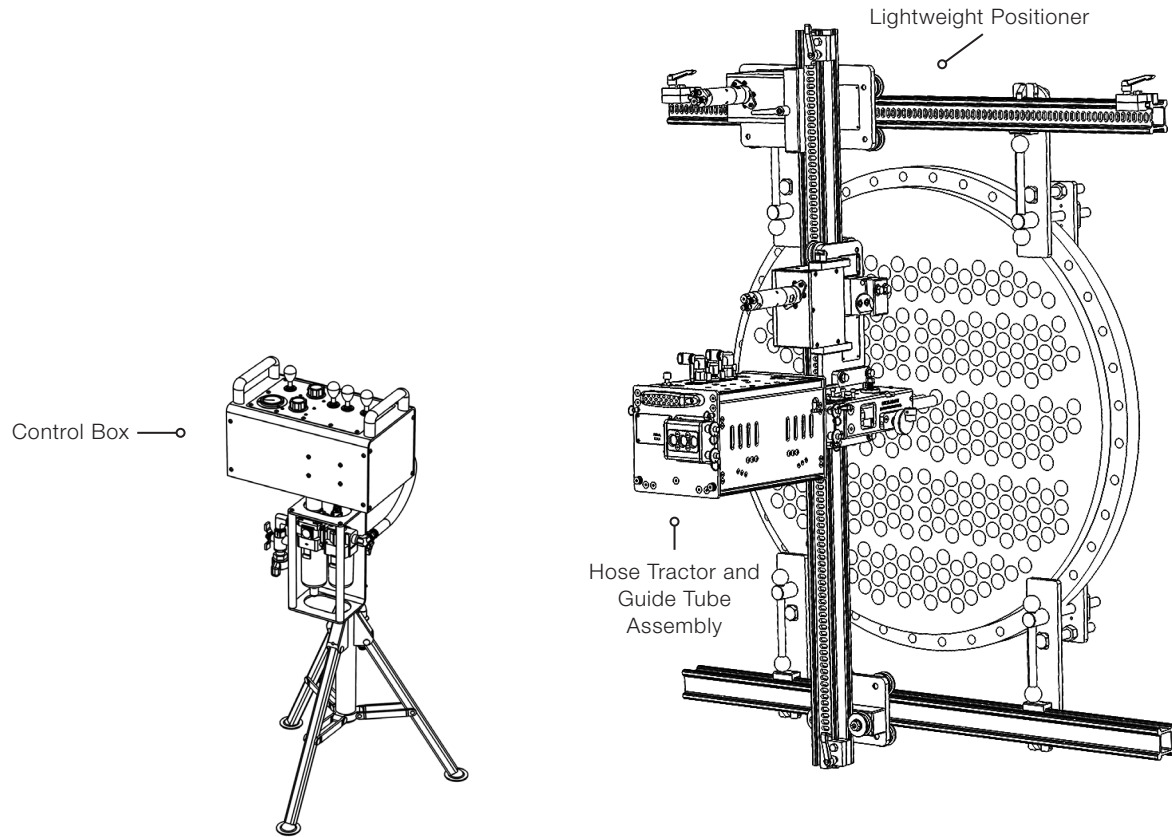
## IMPORTANT!

**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

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## 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:

- |  |  |
|--|--|
| • 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) |  |

## ORDERING INFORMATION

StoneAge offers two base packages for the AutoBox ABX-3L hose tractor: a complete package that contains all available hose stop and guide tube kits, or a single package for running one size of hose.

ABX-3L packages can be configured to the specifications of your job with the addition of customized options, as listed on the following pages. Fully custom solutions are possible by contacting StoneAge Customer Service.

### ABX-3L Complete Package – All sizes

QTY	DESCRIPTION	PART ID
1	AutoBox, Belt Track Drive Assy 3 Lance	<b>ABX-3L</b>
1	Control Panel Assy, CBX	<b>CBX-ABX</b>
1	Guide Assembly, 3L, High-Visibility	<b>ABX-301</b>
1	Kit, Hose Stop Collets, 3L, (1ea size range ABX 171 .297-.625)	<b>ABX 671</b>
1	Kit, Hose Stops, (3ea size range HS 121-27-61)	<b>HS 622</b>
1	Kit, 12in Guide Tubes w/Adapters, (3 ea ABX 115, 116, 117, 119)	<b>ABX 631-12</b>
1	Lightweight Positioner, 6ft, 48in/1220mm Flange	<b>LWP-500-6-V2</b>
1	Kit, Quick Clamp Assy (Clamp to flange, 4 Pcs.)	<b>LWP 621</b>
1	Kit, Plate Clamp Assy (Bolted to flange, 2 Pcs.)	<b>LWP 622</b>
1	Y Manifold, MP12, 3XMP9, SS, Engraved	<b>ABX 369-MP12</b>

### ABX-3L Single Size Package

QTY	DESCRIPTION	PART ID
1	AutoBox, Belt Track Drive Assy 3 Lance	<b>ABX-3L</b>
1	Control Panel Assy, CBX	<b>CBX-ABX</b>
1	Guide Assembly, 3L, High-Visibility	<b>ABX-301</b>
1	Hose Stop Collet, .297, 3L	<b>ABX 171-297</b>
1	Hose Stop, Clamp Style, .34-.42", 8.6-10.7mm (3/6, 4/4, 5/2, 2448D)	<b>HS 121-34-42</b>
3	Guide Tube, .546ID, 12.5"/315.7mm L (BN13)	<b>ABX 116-12</b>
1	Lightweight Positioner, 6ft, 48in/1220mm Flange	<b>LWP-500-6-V2</b>
1	Kit, Plate Clamp Assy (Bolted to flange, 2 Pcs.)	<b>LWP 622</b>
1	Y Manifold, MP12, 3XMP9, SS, Engraved	<b>ABX 369-MP12</b>

# AUTOBOX ABX-3L CONFIGURATION

## HOSE STOP OPTIONS

Hose stops are required safety mechanisms and come in collet and clamp styles. A working ABX-2L configuration requires one (1) backout collet and two (2) clamp-style hose stops.

HOSE OD	SPIR STAR	PARKER	COLLET SIZE	COLLET PART ID	CLAMP SIZE	CLAMP PART ID
0.27–0.41 in. 7–10 mm	3/2	2240D-02	0.297 in. 8 mm	<b>ABX 121-297</b>	0.27–0.34 in. 7–9 mm	<b>HS 121-27-34</b>
	3/4, 4/2	2240D-025, 2440D-02	0.328 in. 8 mm	<b>ABX 121-328</b>		
	3/6, 5/2	2240D-03	0.406 in. 10 mm	<b>ABX 121-406</b>	0.34–0.42 in. 9–11 mm	<b>HS 121-34-42</b>
0.44–0.50 in. 11–13 mm	4/4	2448D-025	0.438 in. 11 mm	<b>ABX 121-438</b>		
	4/6, 5/4, 6/2	2240D-04	0.460 in. 12 mm	<b>ABX 121-460</b>	0.42–0.50 in. 11–13 mm	<b>HS 121-42-50</b>
		2640D-025 2740D-025	0.484 in. 12 mm	<b>ABX 121-484</b>		
	6/4	2440D-04	0.516 in. 13 mm	<b>ABX 121-516</b>	0.50–0.56 in. 13–14 mm	<b>HS 121-50-56</b>
0.52–0.61 in. 13–16 mm	5/6, 8/2	2240D-05, 2740D-03	0.547 in. 14 mm	<b>ABX 121-547</b>		
	8/4		0.594 in. 14 mm	<b>ABX 121-594</b>	0.56–0.61 in. 14–16 mm	<b>HS 121-56-61</b>
		2440D-05	0.625 in. 15 mm	<b>ABX 121-625</b>		

## GUIDE TUBE OPTIONS

TUBE ID	TUBE LENGTH	DESCRIPTION	PART ID
0.46 in. 12 mm	12.5 in. 316 mm	Guide Tube, .459ID, 12.5"/315.7mm L (BN9.5)	<b>ABX 115-12</b>
	36.0 in. 914 mm	Guide Tube, .459ID, 36"/914.4mm L (BN9.5)	<b>ABX 115-36</b>
0.55 in. 14 mm	12.5 in. 316 mm	Guide Tube, .546ID, 12.5"/315.7mm L (BN13)	<b>ABX 116-12</b>
	36.0 in. 914 mm	Guide Tube, .546ID, 36"/914.4mm L (BN13)	<b>ABX 116-36</b>
0.67 in. 17 mm	12.5 in. 316 mm	Guide Tube, .674ID, 12.5"/315.7mm L (BN15)	<b>ABX 117-12</b>
	36.0 in. 914 mm	Guide Tube, .674ID, 36"/914.4mm L (BN15)	<b>ABX 117-36</b>
0.75 in. 19 mm	12.5 in. 316 mm	Guide Tube, .745 ID, 12.5"/317.5mm L (BN18)	<b>ABX 119-12</b>
	36.0 in. 914 mm	Guide Tube, .745 ID, 36"/914.4mm L (BN18)	<b>ABX 119-36</b>
Multiple	12.5 in. 316 mm	Kit, 12in Guide Tubes w/Adapters, (3 ea ABX 115, 116, 117, 119)	<b>ABX 631-12</b>

## LIGHTWEIGHT POSITIONER OPTIONS

RAIL LENGTH	DESCRIPTION	PART ID
48 in. 1219 mm	Lightweight Positioner, 4' 24"/610mm Flange	LWP-500-4-V2
72 in. 1829 mm	Lightweight Positioner, 6ft, 48in/1220mm Flange	LWP-500-6-V2
RAIL EXTENSIONS		
24 in. 610 mm	Box Rail, Slotted, Extension Kit, 2.5", 2'	LWP 580-2-001
	Box Rail Extension Kit, 2.5", 2'	LWP 581-2-001
	LWP Rail Extension Kit, 2' (2 Slotted Rail, 1 Box Rail)	LWP 582-2-V2
48 in. 1219 mm	Box Rail, Slotted, Extension Kit, 2.5", 4'	LWP 580-4-001
	Box Rail Extension Kit, 2.5", 4'	LWP 581-4-001
	LWP Rail Extension Kit, 4' (2 Slotted Rail, 1 Box Rail)	LWP 582-4-V2
72 in. 1829 mm	Box Rail, Slotted, Extension Kit, 2.5", 6'	LWP 580-6-001
	Box Rail Extension Kit, 2.5", 6'	LWP 581-6-001
	LWP Rail Extension Kit, 6'	LWP 582-6-V2

Please Note: Extension kits, max total rail length is 120" with standard clamps. Custom solutions available.

## POSITIONER CLAMP OPTIONS

DESCRIPTION	PART ID
Kit, Quick Clamp Assy, Slotted (Bolted to flange, 4 Pcs.)	LWP 620
Kit, Quick Clamp Assy (Clamp to flange, 4 Pcs.)	LWP 621
Kit, Plate Clamp Assy (Bolted to flange, 2 Pcs.)	LWP 622
Kit, Positioner Clamp (3 sets of clamps)	LWP 625

## MANIFOLD OPTIONS

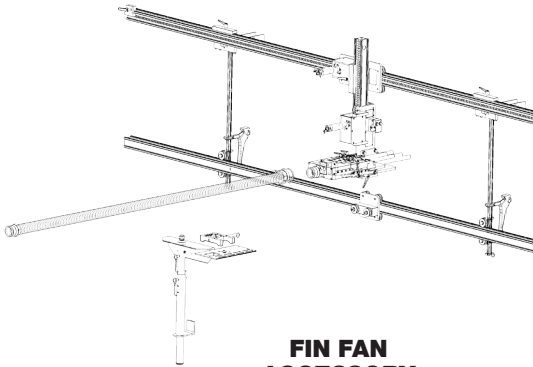
PRESSURE	DESCRIPTION	PART ID
22k psi 1500 bar	Y Manifold, MP12, 3XMP9, SS, Engraved	ABX 369-MP12
40k psi 2800 bar	Y Manifold, H9, 3XH6, SS, Engraved	ABX 369-H9

## BELT OPTIONS

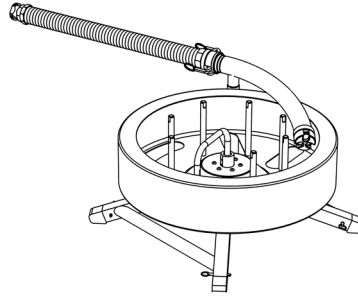
BELT TYPE	DESCRIPTION	PART ID
Standard	Belt, 25mm, 80A, SIPE, black	ABX 305-80
Oily	Belt, 10mm, 70A, SIPE, green	ABX 305-70

## ACCESSORIES

The following accessory systems are available for the AutoBox ABX-3L:



**FIN FAN  
ACCESSORY**



**HCS-3L**  
Hose Containment System



**AST-200**  
AutoStroke

DESCRIPTION	PART ID
<b>Fin Fan Accessory</b> Adapts system for fin fan exchanger cleaning – Direct mount dual lance cleaning	<b>FF-280-2LR3L-10-PKG</b>
<b>Fin Fan Accessory</b> Adapts system for fin fan exchanger cleaning – Snout mount dual lance cleaning	<b>FF-280-2LS3L-10-PKG</b>
<b>Fin Fan Accessory</b> Adapts system for fin fan exchanger cleaning – Snout mount triple lance cleaning	<b>FF-380-3LS3L-10-PKG</b>
<b>Hose Containment System</b> increases job site safety and prolongs hose life	<b>HCS-3L</b>
<b>AutoStroke</b> Extends nozzle life and increases productivity when cleaning plugged tubes	<b>AST-200</b>

## MAINTENANCE RESOURCES

DESCRIPTION	PART ID
ABX-3L Repair Kit, Belt Track Drive Assembly, Bottom	<b>ABX 650</b>
ABX-3L Repair Kit, Belt Track Drive Assembly, Top	<b>ABX 660</b>

Tool manuals and training videos are available on our website:

**[WWW.STONEAGETOOLS.COM](http://WWW.STONEAGETOOLS.COM)**

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