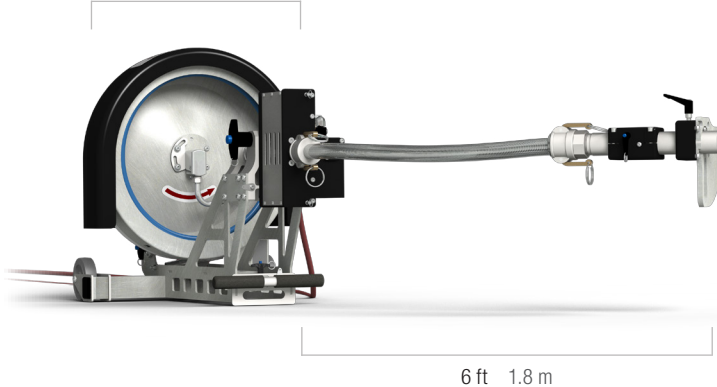


# NAVIGATOR

## Effective Cleaning for Small Process Pipe

35 x 21 x 24 in.  
890 x 533 x 610 mm



### OVERVIEW

The StoneAge Navigator is specialized for cleaning welded process piping, drain lines, and tubes 2–4 inches (51–102 mm) ID. Hose rotation enables access through multiple bends in small diameter conduit.

### COMPETITIVE ADVANTAGES

- Lightweight, modular design for single operator setup and use
- Controlled hose rotation pushes tool through bends
- Contains up to 100 feet (30 m) of hose
- Adjustable feed rate to optimize cleaning
- Snout and mounting assemblies are common to AutoBox ABX-PRO for quick, versatile setup

FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>• Controlled hose rotation</li> </ul>	<ul style="list-style-type: none"> <li>• Allows nozzles to pass multiple bends in welded joint pipe as small as 2 inches (51 mm) ID</li> <li>• Bid new jobs to clean process piping, drain lines, and other small ID conduit that may have been inaccessible in the past</li> </ul>
<ul style="list-style-type: none"> <li>• Hose containment</li> </ul>	<ul style="list-style-type: none"> <li>• Increases job site safety and greatly reduces hose wear and costly replacement</li> <li>• Holds 100 ft (30 m) of hose for 85 ft (26 m) reach</li> </ul>
<ul style="list-style-type: none"> <li>• ABX-PRO hose drive</li> </ul>	<ul style="list-style-type: none"> <li>• System can function as a RHD or a stand-alone ultra-portable single lance pipe cleaner</li> </ul>
<ul style="list-style-type: none"> <li>• Lightweight, modular system</li> </ul>	<ul style="list-style-type: none"> <li>• Portability and easy assembly</li> <li>• Requires only a single operator to move, set up and run, freeing up crew to man other jobs</li> </ul>
<ul style="list-style-type: none"> <li>• Adjustable forward and reverse feed rate</li> </ul>	<ul style="list-style-type: none"> <li>• Customize dwell time for consistent cleaning in both directions</li> <li>• Better results in less time</li> </ul>
<ul style="list-style-type: none"> <li>• Integrated snout with versatile flange mount and cam-lock attachment</li> </ul>	<ul style="list-style-type: none"> <li>• Simplifies attaching to pipes and increases safety</li> <li>• Quick setup in varied application environments</li> </ul>
<ul style="list-style-type: none"> <li>• Intuitive and ergonomic control box</li> </ul>	<ul style="list-style-type: none"> <li>• Operate all features from outside the blast zone for safety and better line of sight</li> </ul>

## NAVIGATOR OVERVIEW

### CONSIDERATIONS

- What size hose are you using? Collet size will be determined by hose size.
- Does the pipe have a flange? If no flange, a strap mount will be required to mount the system.
- Will you require a splash plate (if using strap mount)?

### ADDITIONAL INFORMATION

- 4-wrap hose is required for use with the Navigator in applications with hose rotation for passing multiple bends. The length of hose crimp may limit the bend radius through which a tool can pass. 5/4 or 6/4 hose with shorter crimp is recommended for cleaning past elbows.
- The Navigator is designed to work with smooth, welded joint elbows. Threaded connections have inherent irregularities that disrupt the traversal of a rotary tool through the line.
- Feed rate is a function of 1) pipe size, 2) number of elbows, 3) desired level of cleanliness. **Speeds no greater than 14 in/sec (356 mm/sec) are recommended for cleaning pipes with elbows.**
- Use tools with right-hand thread for additional safety – the rotation of the device will correlate with tightening the tool in case of resistance in the pipe.
- The Navigator is well suited for Beetle and 2" Badger tools.

### TOOL SPECIFICATIONS

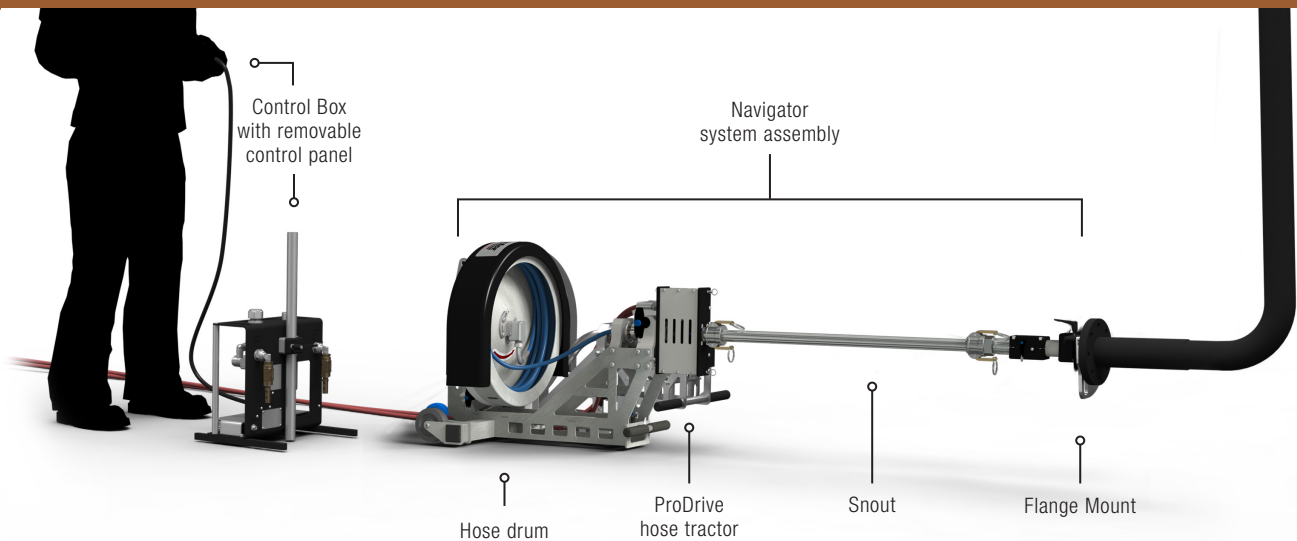
MODEL	NAV-100
Pipe Size	2–4 in. 51–102 mm
Hose Size*	4/4, 5/4, 6/4
Feed Rate	1.0–32 in/sec 25–813 mm/s
Hose Capacity	Storage: 100 ft 30 m Reach: 85 ft 26 m
Maximum Pressure	20k psi 1400 bar
Dimensions	35 in. x 21 in. x 24 in. 89 cm x 53 cm x 61 cm
Snout Length	72 in. 182 cm
Snout Diameter	2 in. 51 mm
Weight	85 lb 38.5 kg

\*4-wrap hose required

Visit our website for tool resources including operation and maintenance videos:

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

# NAVIGATOR CONFIGURATION



## A complete Navigator configuration includes the following components:

1. Navigator hose rotation, feed, and containment system
2. Snout and flange mount assembly (bolted)
3. Collet block and hose stop collet
4. Control box

## The following items may also be requested:

- Hose kit (includes collet)
- Additional collet sizes
- Strap mount assembly
- Splash plate

# NAVIGATOR CONFIGURATION

## ORDERING THE PACKAGE

StoneAge offers a preconfigured Navigator base package that can be ordered in a single Part ID. Optional items can be ordered separately.

The following table shows the configuration of the base package:

PACKAGE PART ID	PACKAGE CONTENTS
<b>NAV-100-PKG</b>	1 x <b>NAV-100</b> Navigator assembly
	1 x <b>BOP 010-2-4-QTR</b> Quarter plate assembly, 2-4in
	1 x <b>BOP 030</b> Collet Block Assy
	1 x <b>BOP 081-6</b> Tube, Snout, SS, 6in
	1 x <b>BOP 084</b> Tube, Snout, Alum, 1.75 x 1.25
	1 x <b>BOP 085</b> Hose Coupling, Alum, 1.25 NPT
	1 x <b>BOP 090</b> Snout, Corrugated, 1.25 Camlocks
	1 x <b>ABX-PRO</b> AutoBox ABX-PRO tractor assembly
	1 x <b>PRO 174-46-K</b> 0.46" Roller Kit
	1 x <b>FF 121-XXX*</b> Hose stop collet
	1 x <b>CB-NAV</b> Control box

\*Specify collet size based on hose

## Hose Options

PART ID	DESCRIPTION
<b>NAV 192-75</b>	Hose, 4/4, 9/16 Type M x 3/8 RH HP Male, 75 ft
<b>NAV 192-100</b>	Hose, 4/4, 9/16 Type M x 3/8 RH HP Male, 100ft
<b>NAV 190-75*</b>	Hose, 5/4, 9/16 Type M x 3/8 RH Male Blastpro, 75ft
<b>NAV 190-100*</b>	Hose, 5/4, 9/16 Type M x 3/8 RH Male Blastpro, 100ft
<b>NAV 191-75*</b>	Hose, 6/4, 9/16 Type M x 3/8 RH Male Blastpro, 75ft
<b>NAV 191-100*</b>	Hose, 6/4, 9/16 Type M x 3/8 RH Male Blastpro, 100ft

\*Recommended for multiple bends due to shorter crimp size

## Hose Stop Options

PART ID	DESCRIPTION
<b>FF 121-438</b>	Hose Stop, Collet Style, Single, .438
<b>FF 121-460</b>	Hose Stop, Collet Style, Single, .460
<b>FF 121-484</b>	Hose Stop, Collet Style, Single, .484
<b>FF 121-516</b>	Hose Stop, Collet Style, Single, .516
<b>NAV 621</b>	Kit (Extended), Hose Stop Collets, .438-.516

## Other Options

PART ID	DESCRIPTION
<b>PRO 174-46-K</b>	Kit, Roller, Poly Urethane, .46 (2 rollers)
<b>BOP 010-4-8</b>	Flange Mount Plate Assy, 4in-8in
<b>BOP 050</b>	Strap Mount Assy
<b>BOP 090</b>	Snout, Corrugated, 1.25 Camlocks
<b>BOP 030</b>	Collet Block Assy
<b>BOP 081-6</b>	Tube, Snout, SS, 6in
<b>BOP 084</b>	Tube, Snout, Alum, 1.75 x 1.25
<b>BOP 085</b>	Hose Coupling, Alum, 1.25 NPT
<b>BOP 090</b>	Snout, Corrugated, 1.25 Camlocks
<b>BOP 010-2-4-QTR</b>	Quarter Plate Assy, 2in-4in
<b>BT18-MP6R-A</b>	Beetle Tube Spinner, 22k psi (8.5-11gpm)
<b>BT25-MP6R-A</b>	Banshee Tube Spinner, 22k psi (13-20gpm)
<b>BT25-MP6R-C</b>	Banshee Tube Spinner, 22k psi (12-15gpm)
<b>ABX-PRO</b>	AutoBox ABX-PRO Tractor Assy

Custom Navigator configurations are outlined on the following pages.

# NAVIGATOR CONFIGURATION

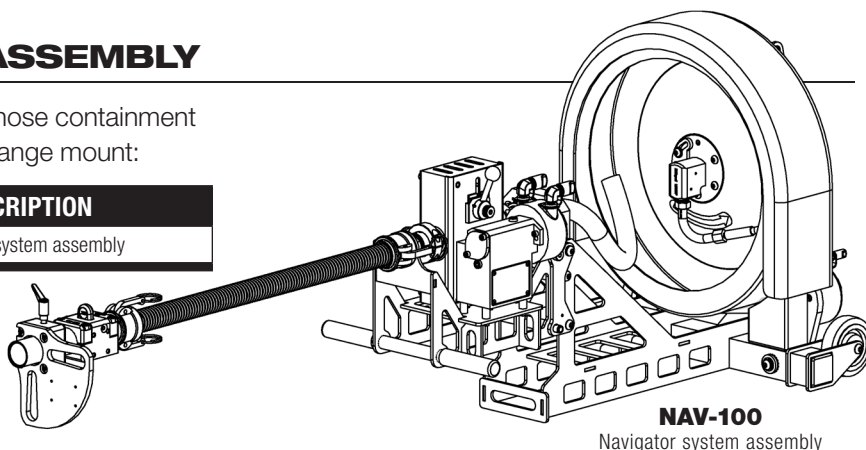
## ORDERING BY LINE ITEM

A complete Navigator system can be configured by line item by following the steps outlined below. Contact StoneAge Customer Service for questions about specific applications.

### STEP 1 NAVIGATOR ASSEMBLY

The Navigator assembly includes the hose containment drum, hose feed system, snout, and flange mount:

PART ID	DESCRIPTION
NAV-100	Navigator system assembly



**NAV-100**  
Navigator system assembly

### STEP 2 4-WRAP HOSE

4-wrap hose is required for use with the Navigator. The following table lists suitable hose options:

PART ID	DESCRIPTION
NAV 192-75	Hose, 4/4, 9/16 Type M x 3/8 RH HP Male, 75 ft
NAV 192-100	Hose, 4/4, 9/16 Type M x 3/8 RH HP Male, 100ft
NAV 190-75*	Hose, 5/4, 9/16 Type M x 3/8 RH Male Blastpro, 75ft
NAV 190-100*	Hose, 5/4, 9/16 Type M x 3/8 RH Male Blastpro, 100ft
NAV 191-75*	Hose, 6/4, 9/16 Type M x 3/8 RH Male Blastpro, 75ft
NAV 191-100*	Hose, 6/4, 9/16 Type M x 3/8 RH Male Blastpro, 100ft

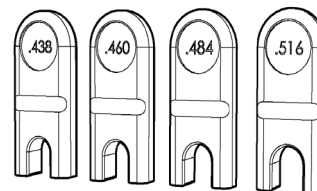
\*Recommended for multiple bends due to shorter crimp size

### STEP 3 HOSE STOP COLLET

The Navigator hose feed assembly comes installed with Ø.46 rollers.

**A collet stop is also required.** Select the appropriate collet based on the hose being used.

ROLLER	HOSE OD	SPIR STAR	PARKER	COLLET
PRO 174-46 Ø 0.46 in.	0.39–0.50 in.	4/4	2440D-025, 2448D-025	<b>FF 121-438</b>
		5/4		<b>FF 121-460</b>
			2440D-03	<b>FF 121-484</b>
		6/4	2440D-04	<b>FF 121-516</b>

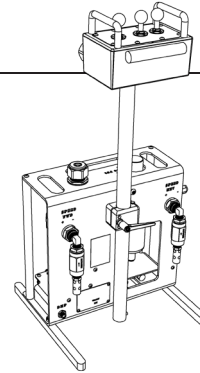


*Please Note: A collet is required when using Banshee and Beetle series tools. It is the responsibility of the user to select proper sizing to ensure the end sleeve of the hose will not pass through the collet.*

## STEP 4 CONTROL BOX

The control box facilitates remote operation of all functions of the Navigator and comes supplied with air hoses.

PART ID	DESCRIPTION
CB-NAV	Navigator control box

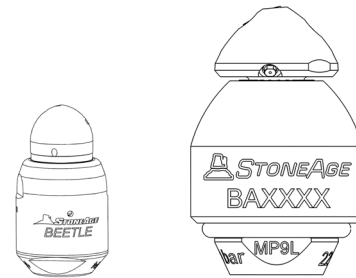


**CB-NAV**  
Control box

## STEP 5 ROTARY TOOL

The Navigator is well suited for Beetle and 2" Badger tools. The following table lists suitable Beetle options:

PART ID	DESCRIPTION
BT25-MP4L-B	Beetle Tube Spinner, 22k psi (6.5-8.5 gpm)
BT25-MP4L-A	Beetle Tube Spinner, 22k psi (8.5-11 gpm)
BT25-MP6L-A	Beetle Tube Spinner, 22k psi (8.5-11 gpm)
BT25-MP6R-A	Beetle Tube Spinner, 22k psi (13-20gpm)

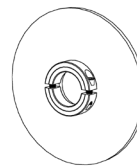


See the 2" Badger Tool Talk for configuration information.

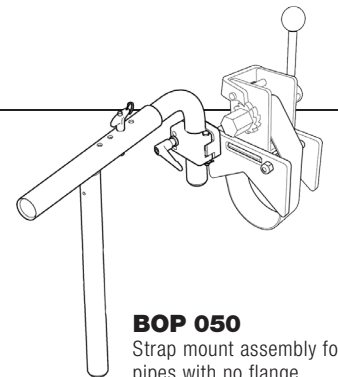
## STEP 6 ACCESSORIES

The following accessories are available for the Navigator:

PART ID	DESCRIPTION
BOP 012	Splash plate, 2-8" pipes
BOP 050	Strap Mount Pipe Attachment Assembly



**BOP 012**  
Splash plate



**BOP 050**  
Strap mount assembly for  
pipes with no flange

## STEP 7 MAINTENANCE RESOURCES

Tool manuals and maintenance 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.