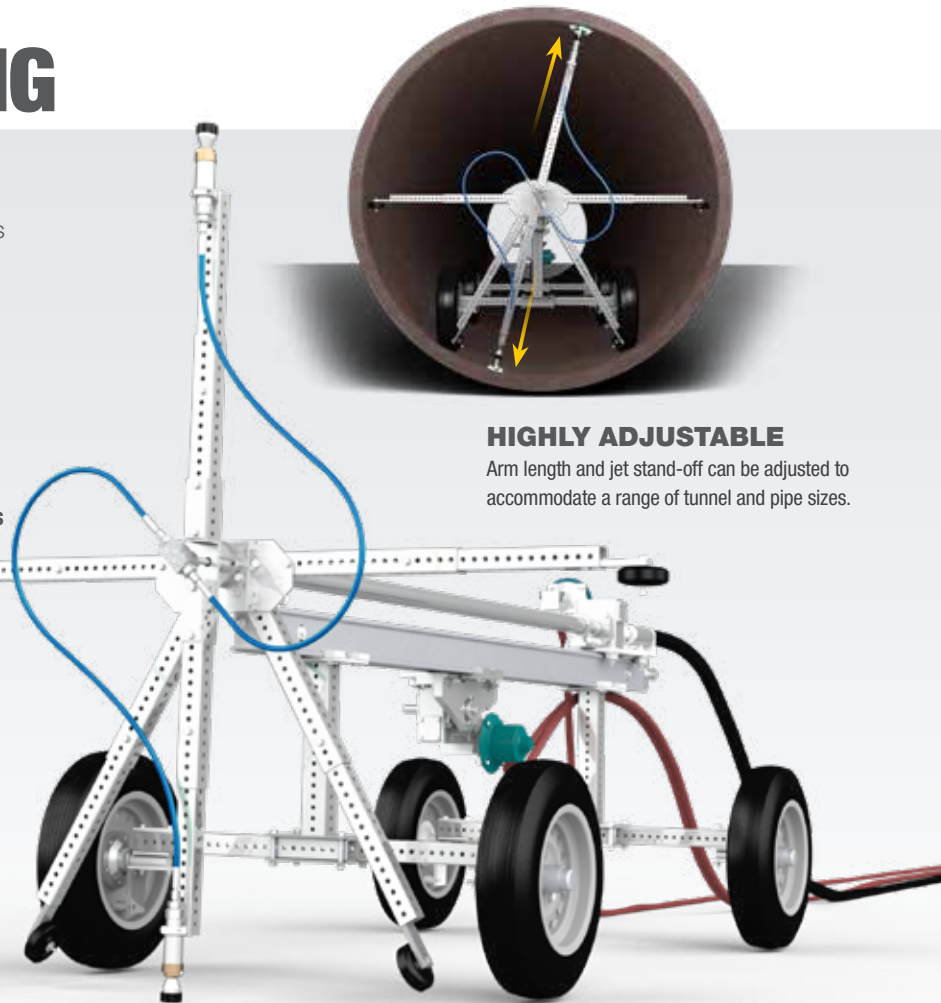


CUSTOM SOLUTIONS TUNNEL CLEANING

TUNNEL CLEANER

The StoneAge Tunnel Cleaner automates the process of cleaning large tunnels or pipes like those found in city sewers and power plant intake lines. The device can be configured to maintain optimal jet stand-off distance and uses controlled rotation and traverse to achieve the highest material removal rate possible.

- ✔ Two arm, four arm and six arm variations available
- ✔ Different arm lengths are available to adapt to various sizes of tunnel diameters
- ✔ Air, hydraulic or self-rotary powered
- ✔ Use higher flows for better jet penetration
- ✔ Adjustable jet rotation and traverse speeds
- ✔ Available size ranges are from 60 in (152.4 cm) up to 12 ft. (3.65 m)



HIGHLY ADJUSTABLE

Arm length and jet stand-off can be adjusted to accommodate a range of tunnel and pipe sizes.

CUSTOM SOLUTIONS UNIVERSAL CAMERA

UNIVERSAL CAMERA

The Universal Camera is a versatile utility camera system that can be mounted to a wide variety of StoneAge cleaning equipment to provide the operator with a clear view of the work from safely outside the blast zone.

- ✔ The Universal Camera comes standard with:
 - Boiler Tube Cleaner (BTC-200)
 - Domed Bundle Cleaner (DBP-100)
 - ProPositioner Domed Bundle Cleaning Kit
- ✔ The Universal Camera system is easily adaptable as an optional accessory for many StoneAge cleaning systems including:
 - AutoBox flex lancing tractors
 - Striker surface cleaning systems
 - Light Weight Positioner



CUSTOM SOLUTIONS DOMED BUNDLE CLEANING

DOMED BUNDLE POSITIONER

The DBP-100 Domed Bundle Positioner is an air-powered tube indexer that can be paired with the ABX-3L tractor for vertical evaporator cleaning applications where the vessel dome cannot be removed. In these applications, the top of the exchanger is left in place, resulting in limited access to a confined space. Many plants are implementing safety regulations requiring operators to remain outside the vessel while high pressure water is being applied. The unique geometry of the DBP-100 allows for secure installation and the ability to access and clean 100% of the tubes remotely. *The DBP-100 includes the Universal Camera System, page 6.9.*



- ✔ Meet plant safety requirements for cleaning tubes while remaining outside of the vessel while high-pressure water is being applied
- ✔ Designed for access tubes located around the outer edge of the exchanger, where a standard square frame would not allow
- ✔ Portable, maneuverable and easy to set up
- ✔ Integrated camera system offers visibility from the control panel
- ✔ Adjustable for a range of exchanger diameters
- ✔ Fewer operators required, freeing up labor for other operations

DBP-100	ICM EVAPORATOR PACKAGE	DELTA-T ADD-ON PACKAGE
TUBE BUNDLE DIAMETER	69–84 in. 1753–2134 mm	84–96 in. 2134–2438 mm
OPERATING PRESSURE	10–20k psi 700–1380 bar	10–20k psi 700–1380 bar
FLEX LANCE CAPACITY	2 Lances	2 Lances
FLEX LANCE SIZE	6/2 (15k), 6/4 (20k)	6/2 (15k), 6/4 (20k)
FLEX LANCE LENGTH	50 ft 15 m	70 ft 21 m
UNIT WEIGHT, ASSEMBLED	100 lb 45 kg	130 lb 59 kg