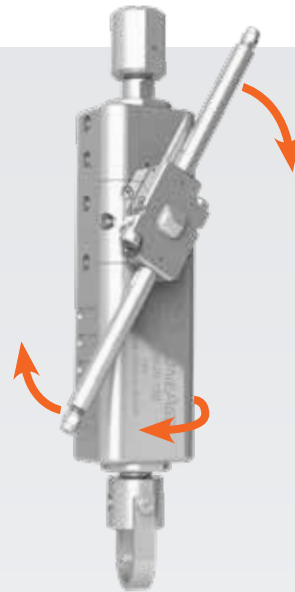


3D TANK CLEANING

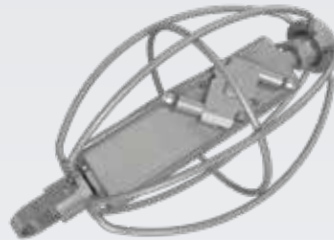
TORUS TR-130

The Torus TR-130 is a powerful and highly adaptable 3-D cleaning tool designed to easily adjust to a wide range of pump capacities, working pressures and cleaning applications. The body of the TR-130 rotates in one axis while the arms rotate in another, providing full cleaning coverage of all tank surfaces without requiring operator entry.



TR 408-SS - CAGE CENTRALIZER

The Torus TR-130 cage-style centralizer. Ideal for applications where debris or internal structures may interfere with the cleaning operation.



EXTENSION NIPPLES

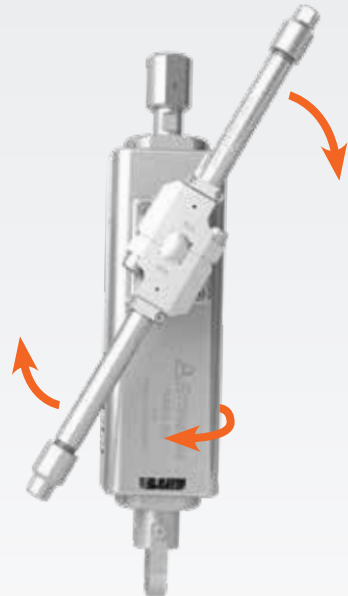
Includes two standard 8 in. (203 mm) extension nipples. Longer nipples can be used up to 48 in. (1200 mm). Custom lengths are available on request.



MODEL	TR-130
PRESSURE RANGE	2–22k psi (138–1500 bar)
FLOW RANGE	10–81 gpm (38–307 l/min)
TOTAL WEIGHT	35 lbs (16 kg)

TORUS TR-200

The Torus TR-200 is the industry's most powerful 3-D tool. It is capable of delivering flows up to 220 gpm (830 l/min) with minimal pressure loss. Applying higher flows allows contractors to remove thicker deposits and deliver longer and harder hitting jets from further distances. Ideal for cleaning hard applications such as large tanks and difficult materials such as coke deposits.



LIFTING ASSEMBLY

The Torus TR-200 comes with a heavy lifting assembly. Includes two quick release pins, two ring attachments and a choice of P16 or MP16 coupling.



MODEL	TR-200
PRESSURE RANGE	8–15k psi (550–1000 bar)
FLOW RANGE	50–220 gpm (190–830 l/min)
TOTAL WEIGHT	100 lbs (45 kg)

- ✓ Small entry diameter enables access to more tanks and vessels
- ✓ If the arms hit an internal obstruction while in operation, the Torus simply stops rotating without damaging the gear mechanism
- ✓ Minimal pressure loss which provides more power delivery than other tools on the market
- ✓ Interchangeable manifolds and couplings allow the operator to use the Torus on different pumps ranging from 10k psi (700 bar) to 20k psi (1500 bar)
- ✓ Wide range of accessories are available including positioning devices, cage centralizers and extensions help adapt the Torus to specific needs and jobs

MAINTENANCE RESOURCES

TOOL	SERVICE KIT	SEAL KIT	OVERHAUL KIT	MANUAL
TR-130	TR130 600	TR 602	TR130 610	PL 556
TR-200	TR200 600	TR200 602	TR200 610	PL 557

2D TANK CLEANING

BJV

The BJV is our most versatile line of controlled rotary tools. The highly configurable design makes them ideal for cleaning tanks or large pipes. A variety of head and jetting options can be combined with extension arms to easily customize the tool for cleaning large diameter vessels.



NEW UPGRADES:

- Backed by the industry's only **THREE YEAR WARRANTY** for maintenance free speed control
- New high pressure seal geometry extends life 3X and can now be replaced in the field in under 3 minutes
- New inlet cartridge design enables quick change from 15K to 20K on the fly
- New long life body is compatible with most existing heads

- ✓ Easy to pair with AutoBox ABX-500 for hands-free tank cleaning
- ✓ Add extension arms to reduce stand off distance in large vessels
- ✓ Can be configured for fast or slow rotation speed depending on the material being cleaned
- ✓ Interchangeable heads allow the tool to be used with any type of pump
- ✓ Simple nozzle changes allow operators to configure for multiple cleaning applications

EXTENSION ARMS

Add custom length extension arms to reduce stand off distance and deliver maximum cleaning power in any size tank or vessel.



TOOL MODEL	PRESSURE RANGE	FLOW RANGE	ROTATION SPEED	INLET CONNECTION	WEIGHT	MAX. WATER TEMPERATURE
BJVE-P16	2–10k psi (140–700 bar)	20–200 gpm (76–757 l/min)	25–95 rpm (Slow) 50–200 rpm (Medium) 85–300 rpm (Fast)	1" NPT	8.5 lbs (3.9 kg)	160 °F (70 °C)
BJVE-P12	2–15k psi (140–1000 bar)	12–100 gpm (45–380 l/min)	20–95 rpm (Slow) 40–190 (Medium) 70–275 rpm (Fast)	3/4" NPT	8.5 lbs (3.9 kg)	160 °F (70 °C)
BJVE-M24	2–22k psi (140–1500 bar)	12–100 gpm (45–380 l/min)	20–95 rpm (Slow) 40–190 (Medium) 70–275 rpm (Fast)	M24	(8.5 lbs (3.9 kg)	160 °F (70 °C)
BJVE-MP12	2–22k psi (140–1500 bar)	10–60 gpm (38–230 l/min)	20–95 rpm (Slow) 40–190 rpm (Medium) 70–275 rpm (Fast)	3/4" MP	8.5 lbs (3.9 kg)	160 °F (70 °C)
BJV-H9	20–40k psi (1400–2800 bar)	3.4–20 gpm (13–76 l/min)	20–60 rpm (Slow Fluid) 90–250 rpm (Fast Fluid)	9/16" HP	9.3 lbs (4.4 kg)	160 °F (70 °C)

OPERATING WATERBLASTING EQUIPMENT CAN BE POTENTIALLY HAZARDOUS.



See page 9.10 for important safety information