



**OPERATING WATERBLASTING EQUIPMENT CAN BE POTENTIALLY HAZARDOUS.**  
SEE PAGE 121 FOR IMPORTANT SAFETY INFORMATION

# STRAIGHT PIPE CLEANING

## RAPTOR™

### Rotary Cleaning for Straight Pipes

The Raptor 2-D self-rotating tool is used to clean process drains, totes, closed head drums, water well screens, ducts, and exhaust stacks. Combined with a centralizer, it cleans pipes from 3–12 in. (76–305 mm) in diameter and can clean straight tubes as small as 2.25 in. (57 mm) in diameter.

The Raptor uses viscous fluid speed control and operates with 2, 4, or 6 jets in balance. We recommend using a centralizer to protect the tool and improve jet action on the wall being cleaned.

#### FEATURES:

- High flow range aids in removing thick, tough deposits
- Controlled rotation for longer jet dwell times for difficult deposits
- Multiple jetting options allows for fine tuning heads to optimize cleaning
- Optional pull ring connection aids in jobs where tool needs to be pulled through the pipe
- Multiple head options available
- Optional entering devices available



Tool Model	Pressure Range	Flow Range	Rotation Speed	Inlet Connection	Length	Weight
RPT	Up to 22k psi 1500 bar	Up to 60 gpm 230 l/min	15-60 rpm (Slow Fluid) 50-250 rpm (Fast Fluid)	1/2 NPT, 9/16 MP or M24	9.5 in. 240 mm	5.5 lbs 2.5 kg



**RPT 070**  
For 4", 5", 6", 8", 10" and 12" pipes.

**RPT 075**  
For 3" or 4.5" pipes.

**OPTIONAL CENTRALIZERS**  
A centralizer helps to protect the tool as it passes through the pipe and balances jet standoff distance for more consistent cleaning. In cases where the pipe size is more than 1.5 times the diameter of the tool, a centralizer is an important safety device, preventing the tool from turning around and thrusting backwards out of the pipe.

#### RAPTOR HEAD SPECIFICATIONS

HEAD	RPT 043-P2-6	RPT 044-P4-6
Diameter	2.0 in. 51 mm	2.5 in. 64 mm
Nozzles	6 or 7 x AP2	6 x AP4

#### RAPTOR HEAD SELECTION

PRESSURE	Head Offset		R30		R18		R11	
	5k psi	350 bar	10-23 gpm	38-87 l/min	16-38 gpm	60-140 l/min	25-60 gpm	95-230 l/min
	10k psi	700 bar	10-18 gpm	38-68 l/min	15-31 gpm	57-120 l/min	25-51 gpm	95-190 l/min
	15k psi	1000 bar	10-17 gpm	38-64 l/min	16-28 gpm	60-110 l/min	26-47 gpm	98-180 l/min
	22k psi	1500 bar	10-16 gpm	38-60 l/min	17-26 gpm	64-100 l/min	27-43 gpm	100-160 l/min