



The top image shows a top-down view of the RoboBee, revealing its internal mechanical structure. A central vertical shaft is surrounded by a circular arrangement of components, including a gear and several small, gold-colored cylindrical elements. The bottom image shows a side view of the RoboBee, highlighting its orange, hemispherical body and a small, articulated leg assembly at the rear.

- 1. NUMBER OF ARMS** – 10
- 2. POWER SUPPLY** – 60 hrs
- 3. MINIMUM BORE IN STRAIGHT PIPE OF PIPE OD** – 30%
- 4. OPERATING PRESSURE RANGE** – 2500 psi or 172 bar

- + Approximate pressure range.
Consult WPS for operation in low pressure gas lines.
- + Standard configuration.
Electronics engine provides samplings of up to 10 sensors & 20 hall effects.
- + Embedded firmware conserves battery power when unit is idle.

Anomaly Detection Threshold	±0.50% Of Pipe Outer Diameter
Deformation Sensor Type	Low Kinetic Energy Rotary Magnetic Arm Sensors
Data Collection Rate	Up To 835 Samples Per Second
High-Res Deformation Sensors	Yes

Travel Distance Resolution	1.5" (38.1mm)
Odometer Wheels	2
Firmware Algorithm For Instant Wheel Failure Recovery	Yes
Maximum Tool Speed	15ft/Sec (4.6m/Sec)
Tool Transmitter	22hz Extremely Low Frequency
Data Storage	Non-Volatile Micro 16gb SD Card
Defect Location Aids	Agms, On Board Ins & Pipeline Features
Inertial Navigation Sensors	State Of The Art Microelectronic Imu Module
Minimum Bend Radius	1.5D / 3R
Minimum Bore In Straight Pipe	30%
Operating Pressure Range	2500 psi or 172 bar
In-Line Temperature Range	-4 To 140 °f (-20 To 60 °c)