

SM-23G

Remote Inspection Robot

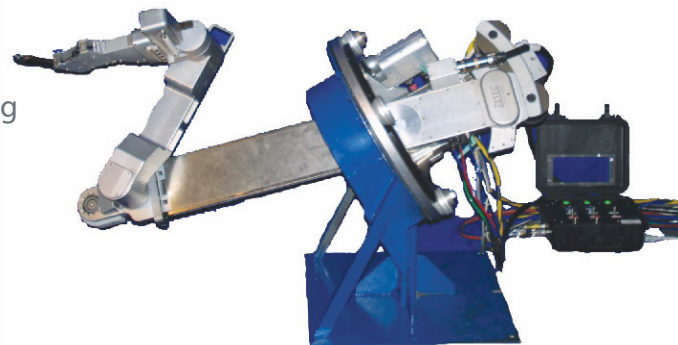
Zetec's SM-23G remote fixture mechanically positions inspection probes or custom tooling at a steam generator's tubesheet. The SM-23G incorporates a motorized manway for fast, accurate fixture installations. Zetec fixtures can inspect 100% of the tubesheet without exclusion/no test zones or manually moving the fixture. Additionally, the SM-23G incorporates the auto-latching tool changer into the tool head.

Installation of the SM-23G using five major components - the manway mount, support plate, trunk, arm and camera head - is specifically designed to be easily handled and assembled by two operators.

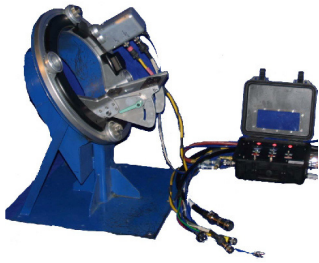
Enhanced capabilities, such as "Trunk Roll" and "Trunk Swing" provide remote trunk positioning from the Fixture Control workstation. During an inspection, these control features allow operators to quickly optimize trunk position and eliminate manual adjustments.

FEATURES & BENEFITS

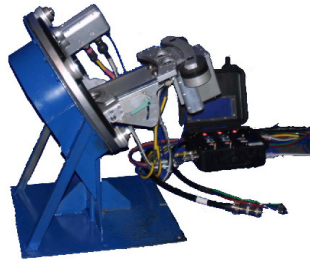
- ▶ **Modular Form Factor**
 - Five modules increases reliability and simplifies handling
- ▶ **Unique design**
 - No cables or cords enter the bowl
- ▶ **Simplified Set-up and Tear-down**
 - Manway assembly has a Pneumatic Locking system for quick installation and removal
 - Separate Manway/Trunk component for easy installation
 - All-in-one extruded trunk with internal tilt mechanisms
- ▶ **Non-entry fixture**
 - No manual entry required
- ▶ **Mechanical drive swing, roll, and tilt for auto-leveling**
- ▶ **Real-time graphic representation**
- ▶ **Machine Vision**



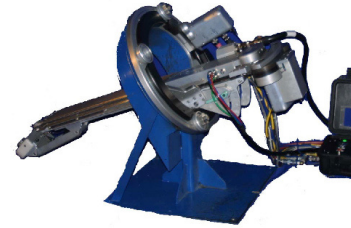
The modular design of the SM-23G allows the robot to be easily installed by one person



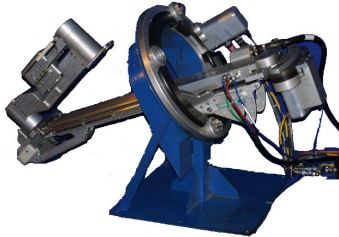
Installation of the Manway



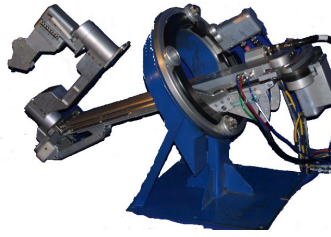
Installation of the Support Plate



Installation of the Trunk



Installation of the Arm/Pole



Installation of the Toolhead

Materials

Stainless Steel & Aluminum

Motor Types

Arm and Pole:	Brushed DC motor
Roll and Swing:	Brushless Servo motor
Lift, Tilt, Guidetube, Camera:	24 volts DC
Light Source:	LED Array
Controller:	UFC-1

Weights

Manway	60 lbs (27.2 kg)
Support Plate	33 lbs (15.0 kg)
Trunk	61 lbs (27.7 kg)
Camera Arm (w/out Camera Head)	33 lbs (15.0 kg)
Camera Head/Guidetube Assembly	4 lbs (1.8 kg)
Arm/Pole	30 lbs (13.6 kg)
Toolhead	3 lbs (1.3 kg)
Total	224 lbs (101.6 kg)

Ordering Information

SM-23G Remote Inspection Robot

Robot Modules

Installation Toolkit

10' Fixture Breakout Cable

Operating Guide (English)

Shipping Case

1 Year Warranty (Contact Zetec for details)

Additional Accessories:

UFC-1 Controller



Zetec holds ISO 9001 and ISO/IEC 17025 certifications



Zetec, Inc.
8226 Bracken Pl. SE | Suite 100
Snoqualmie, WA 98065
Toll Free: 800.643.1771
P: 425.974.2700