

AOI

Instrumentation®

AOI Auto-Driller

**State-of-the-art driller
automatically maintains
optimum weight on bit**

- ▶ **Reduces drilling costs**
- ▶ **Increases bit life**
- ▶ **Helps ensure an accurate drilling path**

The AOI Auto-Driller (equivalent to the Satellite® Automatic Driller) automatically maintains deadline tension, enabling a constant penetration rate for fast and efficient drilling.

AOI Auto-Driller components include:

- Deadline tension sensor
- Controller assembly
- Air motor
- Differential gear assembly
- Drum rotation sensor



Benefits

- Rugged design assures reliable results even in extreme environments.
- Easy to install.
- Uses air rig pressure – no external power source required.
- Speed control automatically adjusts to all drilling conditions and formations.
- Precision weight-on-bit control maintains constant penetration rate.
- Advanced air valve provides smooth response even in tough drilling environments.

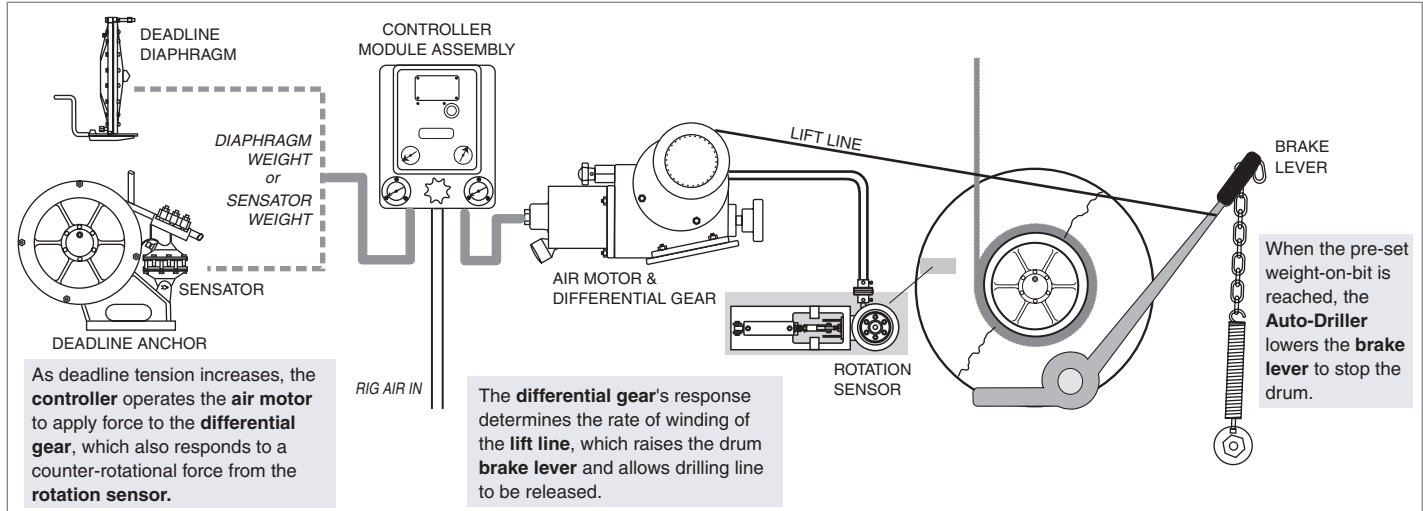
The AOI Advantage



Years of real-world experience working on rigs in the oil and gas drilling industry means AOI personnel understand the tough, demanding requirements of your drilling operations and your critical need for the best, most dependable tools.

AOI has a proven track record of delivering products and services worldwide – backed by the integrity and commitment to provide the individual attention necessary to meet your specific requirements.

AOI Auto-Driller automatically maintains optimum weight on bit

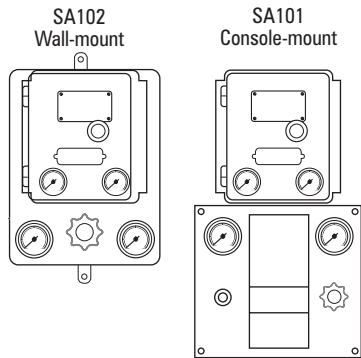


Wall-mount Auto-Drillers

Part Number	Description
SA101	Wall-mount Auto-Driller Controller Assembly
	For use with Deadline Diaphragm
SA101-4-100	Diaphragm with 40" flex shaft
SA101-5-100	Diaphragm with 50" flex shaft
SA101-6-100	Diaphragm with 60" flex shaft
SA101-8-100	Diaphragm with 80" flex shaft
	For use with Sensator Models 50, 75, and 100
SA101-4-1000	Sensator with 40" flex shaft, 1000 psi
SA101-5-1000	Sensator with 50" flex shaft, 1000 psi
SA101-6-1000	Sensator with 60" flex shaft, 1000 psi
SA101-8-1000	Sensator with 80" flex shaft, 1000 psi
	For use with Sensator Model 40
SA101-4-1500	Sensator with 40" flex shaft, 1500 psi
SA101-5-1500	Sensator with 50" flex shaft, 1500 psi
SA101-6-1500	Sensator with 60" flex shaft, 1500 psi
SA101-8-1500	Sensator with 80" flex shaft, 1500 psi

Console-mount Auto-Drillers

Part Number	Description
SA102	Console-mount Auto-Driller Controller Assembly
	For use with Deadline Diaphragm
SA102-4-100	Diaphragm with 40" flex shaft
SA102-5-100	Diaphragm with 50" flex shaft
SA102-6-100	Diaphragm with 60" flex shaft
SA102-8-100	Diaphragm with 80" flex shaft
	For use with Sensator Models 50, 75, and 100
SA102-4-1000	Sensator with 40" flex shaft, 1000 psi
SA102-5-1000	Sensator with 50" flex shaft, 1000 psi
SA102-6-1000	Sensator with 60" flex shaft, 1000 psi
SA102-8-1000	Sensator with 80" flex shaft, 1000 psi
	For use with Sensator Model 40
SA102-4-1500	Sensator with 40" flex shaft, 1500 psi
SA102-5-1500	Sensator with 50" flex shaft, 1500 psi
SA102-6-1500	Sensator with 60" flex shaft, 1500 psi
SA102-8-1500	Sensator with 80" flex shaft, 1500 psi



Specifications

Device	Specification
Controller operating pressure	30 psi
Air Motor operating pressure	100 psi (maximum)
Air Filter pressure	150 psi (maximum)
Speed Regulator pressure	100 psi (maximum)
Air Motor power	1.5 HP @ 2300 RPM
Control Valve type	3-position On/Off control switch
Rig air supply pressure	30 to 150 psi

Shipping information

System	Shipping weight	Shipping crate dimensions
AOI Auto-Driller System with Deadline Diaphragm	215 pounds (including Diaphragm)	4 x 4 x 4 feet
AOI Auto-Driller System for use with Sensator	170 pounds (does not include Sensator)	4 x 4 x 4 feet



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