



2026

# AUTOMATED GAUGING UNIT

## V5

Automated  
In-Process  
High-Speed  
Non-Contact  
Thread Inspection  
for OCTG

## Highlights

- API, Semi-Premium, Premium Connections
- OD Threads, Face and ID Features
- Lab-Grade Accuracy & Repeatability
- Sub 30 Seconds Cycle Time
- 13 Years of Trust & Reliability in the Field



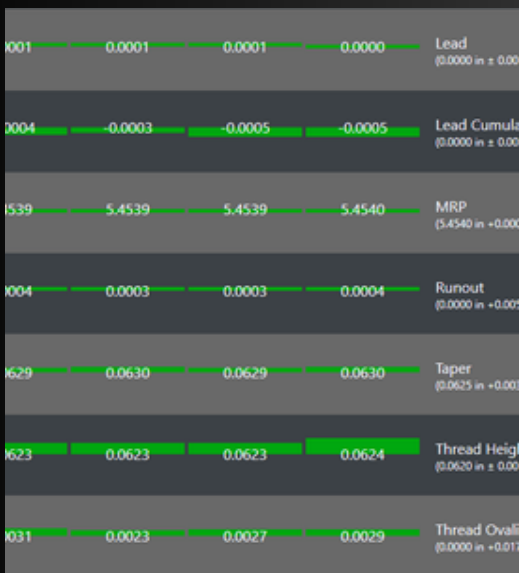


Learn More At  
[autonetics.com](http://autonetics.com)

# Overview

The AGU is an in-process, high-speed, non-contact measurement system designed and engineered to automate the process of OCTG thread inspection. The system utilizes industrial robotics, cutting-edge sensor technology and industry-vetted analytics to produce fast, accurate and reliable inspection results. A small, modular cell design allows for installation in any manufacturing line layout. Standardized communication protocols ensures quick and easy integration with L1 and L2 systems allowing for 100% data retention and traceability.

## Features



HMI Trend Charts

- Measures OD threads for API, semi-premium and premium threaded connections
- Pipe face and ID features supported via optional gauge head attachments
- 100% measured features coverage
- Sub 30-second cycles times
- Sub 10% gage R&R capability
- Autonomous pipe finding and centering
- Pipe diameters: 2-3/8" tubing up to 16" casing
- Direct integration with threader for real-time, closed-looped tool offsetting
- EtherNet/IP, Profinet L1 support
- Standardized JSON L2 interface for 100% data retention and traceability
- Ruggedized, factory-floor-proven hardware
- 99.8% uptime

## Proven Technology

13 Years on the Factory Floor  
Worldwide Adoption  
Millions of Connections Gauged



+1 (919) 542-4417



[sales@autonetics.com](mailto:sales@autonetics.com)



Learn More At  
[autonetics.com](http://autonetics.com)

# Measured Features

- Addendum
- Bevel Diameter
- Black Threads
- Chamfer Angle
- Face Width
- Internal Diam.
- L4
- Lc Distance
- Leads
- MRP
- Pilot Diameter
- Pitch Diameter
- Runout
- Seal Lengths
- Seal Taper
- Stepped Threads
- Standoff
- Tapers
- Thread Height
- Thread Ovality
- Thread Pullout
- Thread Width
- Wedge Lockup
- + Custom Features

## Pipe Cleaning & Auto Deburr

Pipe threads must be clean, dry and free of debris prior to inspection with the AGU. Autonetics offers a proven, turnkey solution with the Automated Pipe Cleaning (APC) system.

The APC is a standalone station with an integrated vacuum system that removes coolant and loose debris from both the interior and exterior of the pipe.

An optional attachment simultaneously deburrs the first thread on the pipe, automating yet another, historically manual, step in the finishing process.



Automated Pipe Cleaning System





Learn More At  
[autonetics.com](http://autonetics.com)



## Why Autonetics?

Autonetics provides automated, in-process inspection units for a variety of industrial applications including aerospace, Gas & Oil/Oil Country Tubular Goods (OCTG) and the automotive OEM and aftermarket industry. Since our founding in 2009, our team has been at the forefront of industrial metrology, determined to deliver the industrial automation solutions your company needs. Contact us today to learn about our products and to start developing your custom solution today.



+1 (919) 542-4417



[sales@autonetics.com](mailto:sales@autonetics.com)