

TUBING & CASING PERFORMANCE



Get Fast, Accurate, Repeatable Readings Every Time...
Ensure Stronger Connections and Optimize Performance...
Take the Guesswork out of Inspecting Tubing or Casing!

www.gagemaker.com

Gagemaker's Tubing & Casing Inspection System

Gagemaker's Tubing & Casing Thread Inspection System takes the guesswork out of inspecting tubing and casing. The Gagemaker's Tubing and Casing Thread Inspection Gages inspect all required thread elements - *Thread Form, Ovality, Crest Diameter, Thread Lead, Thread Height, and Thread Taper* — all with the precise accuracy required in today's demanding industry.

Inspect with the Acclaimed Gagemaker Tubing & Casing System to Optimize Performance

- Inspect both Standard and Non-Standard connections — all using the same gages
- Protect against mechanical forces such as tension and leakage that tend to destroy tubing & casing
- Inspect any type of tubing or casing connector including API round thread, long thread, short thread, line pipe, and buttress
- Scrutinize ALL thread elements with precision and accuracy
- Ensure proper thread interference when pipe and coupling make-up
- Pinpoint thread errors that cause expansion of the coupling and compression of the pipe end thread



Thread Form

Correct Thread Form is important for a pipe end and coupling to make up properly. Doing a quick check using a Gagemaker Thread Profile Gage verifies the thread form is correct.

Pitch Diameter/ Crest Cone Diameter

Pitch Diameter governs the strength of the actual thread assembly and ensures API dimensional measurement specs are met. The Gagemaker MRP gages measure the internal and external pitch diameters of tapered threaded connectors. Any slight variations in diameter are immediately detected with these precision gages granting you total control over your quality.

Thread Lead

Verifying Thread Lead is within tolerance is a required inspection according to API. The Gagemaker Lead Gage inspects both internal and external thread lead. Lead variation has a direct impact on diameter and make up.

Thread Height

Proper Thread Height maximizes the performance of the connection. Thread height is also an API requirement. Gagemaker thread height gages inspect external or internal thread height for a variety of thread forms. A shallow thread height may allow the connection to pull apart under stress.

Thread Taper

Thread Taper is also a required API Spec 5B inspection. For more accurate taper inspections, the Gagemaker Thread Taper Gages confirm that the coupling and an end will have matching tapers. As connections are made up, taper errors induce high stresses that can eventually lead to connection failure.

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System Essentials



TDWIN TAPER
THREAD DISK for TAPERED THREADS

TDWIN TAPER is the perfect accessory to Gagemaker's Tubing and Casing API Inspection Gages. It is the only software program dedicated to the manufacturing and inspection of downhole tubular connections. It has everything you need to machine, inspect, and document tubular connection threads.

TDWIN TAPER displays connection drawings, inspection gage information, and setup and inspection reports. Simply, it is a must have for any machine shop.



Maintain the highest quality. Save time and money by calibrating gages in-house. Our MIC TRAC calibration packages are perfect for any and all in-house calibration needs. The MT-3000 is excellent for the shop floor, while the MT-4000 can meet higher precision requirements.

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