



## Straight Thread Inspection System



**Cover a wide range of diameters and thread types...  
Save time and money with better accuracy...  
Replace ring & plug gages...**



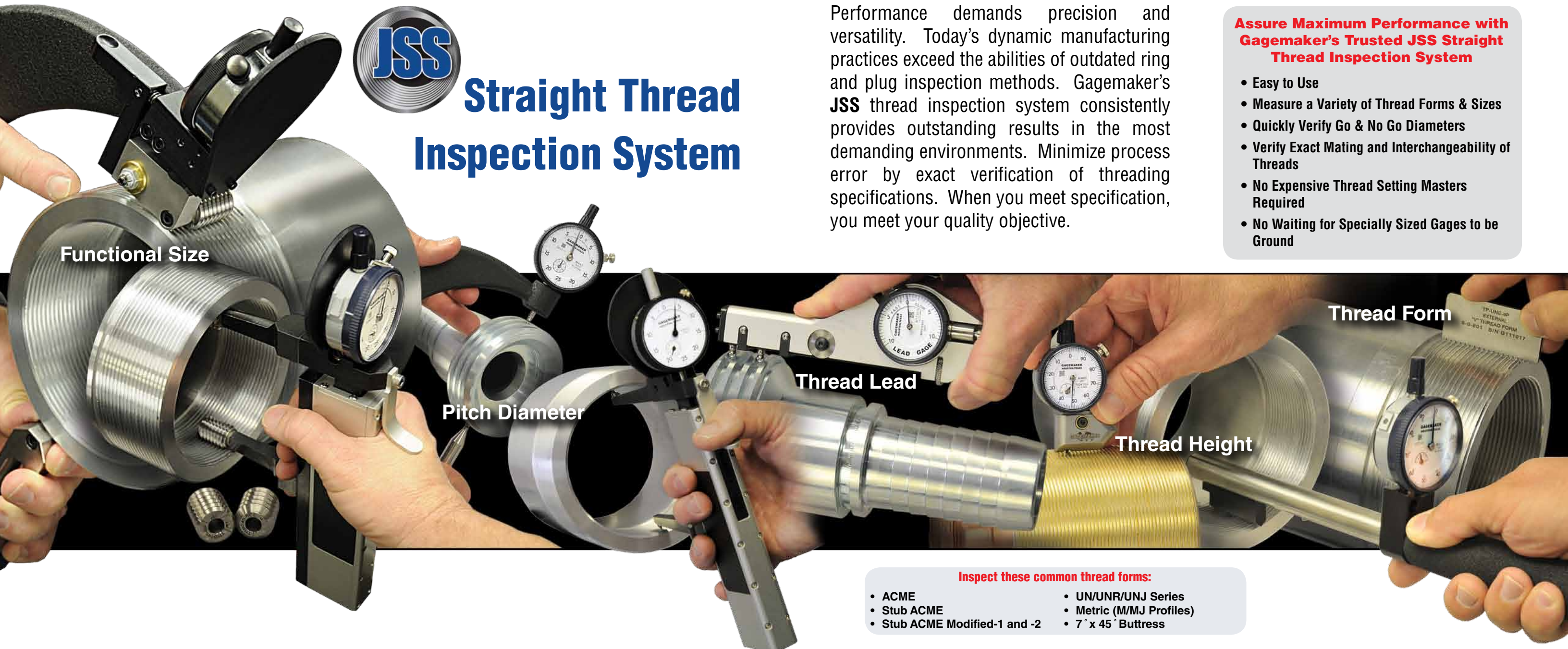


## Straight Thread Inspection System

Performance demands precision and versatility. Today's dynamic manufacturing practices exceed the abilities of outdated ring and plug inspection methods. Gagemaker's **JSS** thread inspection system consistently provides outstanding results in the most demanding environments. Minimize process error by exact verification of threading specifications. When you meet specification, you meet your quality objective.

**Assure Maximum Performance with Gagemaker's Trusted JSS Straight Thread Inspection System**

- Easy to Use
- Measure a Variety of Thread Forms & Sizes
- Quickly Verify Go & No Go Diameters
- Verify Exact Mating and Interchangeability of Threads
- No Expensive Thread Setting Masters Required
- No Waiting for Specially Sized Gages to be Ground



Functional Size

Pitch Diameter

Thread Lead

Thread Height

Thread Form

**Inspect these common thread forms:**

- ACME
- Stub ACME
- Stub ACME Modified-1 and -2
- UN/UNR/UNJ Series
- Metric (M/MJ Profiles)
- 7° x 45° Buttress

### Functional Size

Functional thread inspection gages measure thread diameters using thread rolls that are similar to traditional ring and plug gages. Thread rolls take into account the cumulative effects of diameter, lead, taper, and form. These precision gages are adjustable within a diameter range and use interchangeable rolls to measure various pitch threads. The indicator on the gage reveals the exact size of the thread and guarantees the parts will screw together.

### Pitch Diameter

Checking pitch diameter verifies that your part is within allowable tolerances. Improperly sized pitch diameters compromise the load capacity of your threaded components. These adjustable gages offer a high degree of accuracy and can be used for both internal and external threads. Pitch Diameter Gages use interchangeable contact points which enable these gages to work with most any thread style and pitch.

### Thread Lead

Thread lead is a very important thread element and should be checked on every part. Lead error is a problem that causes other problems and it is generally caused by machine tool error or improperly maintained machines with worn ball. Lead gages inspect both internal and external threads to ensure threads have been machined to specification. Gagemaker has both two-point and three-point system lead gages that are designed to accurately inspect lead for various thread pitches.

### Thread Height

Thread height affects interchangeability as well as the integrity of the thread assembly. A shallow thread may pull apart under load. For this reason it is important to inspect the height of the threads with a thread height gage. The height of the thread is a function of the threading insert cutting the thread. If the insert is worn or chipped, thread height can be inaccurate. We offer thread height gages for internal as well as external threads.

### Thread Form

Form inspection provides a complete picture of several thread elements at the same time including shape and pitch. Thread form is checked with the use of a profile template. These templates are precision machined to match the thread form being threaded. Doing a quick check using a Gagemaker thread profile gage not only verifies the thread form meets the specified standard, but also checks for burrs and debris.



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# ASME/ANSI & ISO THREAD GAGES

## System Essentials

### Thread Data Software

TDWIN Thread Data software takes number crunching out of calculating thread dimensions. TDWIN is for anyone that needs to calculate critical thread dimensions based on ANSI tables and formulae. This software provides dimensions and tolerances for product threads, ring gages, set plugs, plug gages, and Gagemaker's gages.



### MIC TRAC Calibration Center

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.

*Thread Check Inc. is an authorized distributor of*

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