

Thread Diameter Measurement Gages Functional Diameter

PG-6000 Series RG-7000 Series



**PG-6000 Series
Thread Diameter Gages**



**RG-7000 Series
Thread Diameter Gages**



Measures Internal Diameters



Measures External Diameters

HOW TO ORDER

1. Select the PG-6000 (internal threads) or RG-7000 (external threads) series gage model, based on the range of diameters being measured.
2. Select the thread roll model, based on the thread form (not included in price of gage). Specify the pitch.

These functional diameter gages inspect the effects of all thread element variations and report deviations. The PG-6000 Series gages inspect internal thread diameters. The RG-7000 Series gages measure external thread diameters.

Before inspecting parts, the gages must be preset to a nominal predetermined dimension using gage blocks, micrometers, or Gagemaker's MIC TRAC measurement center. To ensure maximum accuracy, the gages use matched sets of precision ground thread rolls that seat in the threads during inspection. Each set of thread rolls is designed to ANSI specifications to measure unlimited diameters for a specific thread form. Common pitches ranging from 4 TPI – 20 TPI of the UN Series, ACME, Stub ACME and 1.5mm – 4 mm of the ISO Metric thread rolls are in stock. Whitworth and 7° X 45° Buttress thread rolls are available with short lead time. Special thread forms available upon request. All thread rolls are sold in matched sets of two.

Features

- Measures internal or external threads for a range of diameters (see table below for ranges available).
- Uses interchangeable thread rolls for measurement of different thread forms.
- Replaces conventional ring and plug gages by providing actual diameter readings.
- Provides functional measurement by inspecting the effects of thread element variations such as: lead, taper, thread height and pitch diameter.
- Eliminates unnecessary damage to threads caused by ring and plug gages.
- Durable construction allows use in harsh environments
- Requires presetting using gage blocks, micrometers, or Gagemaker's MIC TRAC measurement center.

PG-6000 Series Gages (Internal Diameters)

Model	Description	Range
PG-6000	Internal Thread Roll Gage, 2 ½" reach	1½" - 9" (38 mm – 228.6 mm)
PG-6001	Internal Thread Roll Gage, 2 ½" reach	9" - 16" (228.6 mm – 406.4 mm)
PG-6002	Internal Thread Roll Gage, 2 ½" reach	16" - 24" (406.4 mm – 609.6 mm)

RG-7000 Series Gages (External Diameters)

Model	Description	Range
RG-7000	External Thread Roll Gage	1" - 4" (25.4 mm – 101.6 mm)
RG-7001	External Thread Roll Gage	4" - 8" (101.6 mm – 203.2 mm)
RG-7002	External Thread Roll Gage	8" - 12" (203.2 mm – 304.8 mm)
RG-7003	External Thread Roll Gage	12" - 16" (304.8 mm – 406.4 mm)
RG-7004	External Thread Roll Gage	16" - 20" (406.4 mm – 508 mm)
RG-7005	External Thread Roll Gage	20" - 24" (508 mm – 609.6 mm)

PG-6000 and RG-7000 Thread Rolls

UN Series Thread Rolls

These thread rolls inspect the functional fit of machined threaded parts with 60° "V" thread forms. Sold in matched sets of 2 rolls.



Model	Description	Model	Description
TRVI-4P	4 pitch internal 60° "V"	TRVE-4P	4 pitch external 60° "V"
TRVI-5P	5 pitch internal 60° "V"	TRVE-5P	5 pitch external 60° "V"
TRVI-6P	6 pitch internal 60° "V"	TRVE-6P	6 pitch external 60° "V"
TRVI-8P	8 pitch internal 60° "V"	TRVE-8P	8 pitch external 60° "V"
TRVI-10P	10 pitch internal 60° "V"	TRVE-10P	10 pitch external 60° "V"
TRVI-12P	12 pitch internal 60° "V"	TRVE-12P	12 pitch external 60° "V"
TRVI-14P	14 pitch internal 60° "V"	TRVE-14P	14 pitch external 60° "V"
TRVI-16P	16 pitch internal 60° "V"	TRVE-16P	16 pitch external 60° "V"
TRVI-18P	18 pitch internal 60° "V"	TRVE-18P	18 pitch external 60° "V"
TRVI-20P	20 pitch internal 60° "V"	TRVE-20P	20 pitch external 60° "V"



Prices subject to change without notice.
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ACME and Stub ACME Thread Rolls

These thread rolls inspect the functional fit of machine threaded parts with 29° ACME and Stub ACME thread forms. Sold in matched sets of 2 rolls.

Model	Description	Model	Description
TRA-3P	3 pitch 29° ACME	TRSA-3P	3 pitch 29° Stub ACME
TRA-4P	4 pitch 29° ACME	TRSA-4P	4 pitch 29° Stub ACME
TRA-5P	5 pitch 29° ACME	TRSA-5P	5 pitch 29° Stub ACME
TRA-6P	6 pitch 29° ACME	TRSA-6P	6 pitch 29° Stub ACME
TRA-8P	8 pitch 29° ACME	TRSA-8P	8 pitch 29° Stub ACME
TRA-10P	10 pitch 29° ACME	TRSA-10P	10 pitch 29° Stub ACME
TRA-12P	12 pitch 29° ACME	TRSA-12P	12 pitch 29° Stub ACME
TRA-14P	14 pitch 29° ACME	TRSA-14P	14 pitch 29° Stub ACME
TRA-16P	16 pitch 29° ACME	TRSA-16P	16 pitch 29° Stub ACME
TRA-18P	18 pitch 29° ACME	TRSA-18P	18 pitch 29° Stub ACME

ISO Metric Series Thread Rolls

These thread rolls inspect the functional fit of machine threaded parts with ISO Metric 60° "V" thread forms. Sold in matched sets of 2 rolls.



Model	Description	Model	Description
TRMI-4P	4 mm pitch internal 60° "V"	TRME-4P	4 mm pitch external 60° "V"
TRMI-35P	3.5 mm pitch internal 60° "V"	TRME-35P	3.5 mm pitch external 60° "V"
TRMI-3P	3 mm pitch internal 60° "V"	TRME-3P	3 mm pitch external 60° "V"
TRMI-25P	2.5 mm pitch internal 60° "V"	TRME-25P	2.5 mm pitch external 60° "V"
TRMI-2P	2 mm pitch internal 60° "V"	TRME-2P	2 mm pitch external 60° "V"
TRMI-175P	1.75 mm pitch internal 60° "V"	TRME-175P	1.75 mm pitch external 60° "V"
TRMI-15P	1.5 mm pitch internal 60° "V"	TRME-15P	1.5 mm pitch external 60° "V"

7° X 45° Buttress Series Thread Rolls

These thread rolls inspect the functional fit of machine threaded parts with 7° X 45° Buttress thread forms. Sold in matched sets of 2 rolls.

Model	Description
TRB745-2P	2 pitch 7° X 45° Buttress
TRB745-3.5P	3.5 pitch 7° X 45° Buttress
TRB745-4P	4 pitch 7° X 45° Buttress
TRB745-6P	6 pitch 7° X 45° Buttress
TRB745-8P	8 pitch 7° X 45° Buttress
TRB745-10P	10 pitch 7° X 45° Buttress
TRB745-12P	12 pitch 7° X 45° Buttress
TRB745-16P	16 pitch 7° X 45° Buttress

PG-6000 and RG-7000 Series Gages Optional Equipment

	Model	Description
	PG-6000-17	Locking T-nut for Arms
	PG-6000-SA	Replacement Arm Set
	PG-6000-XA	PG-6000 Extended Reach Arms, 4 1/2" reach (Set of 2)
	TD-WIN	<p>The Thread Disk for Windows Software calculates critical setting dimensions for UN Series, ACME, Stub ACME, ISO Metric and 7° x 45° Buttress thread forms.</p> <p>Also, TDWIN can calculate ball mic settings for any tapered surface geometry.</p> <p>Easily print thread dimension reports.</p> <p>Online help is available.</p>



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