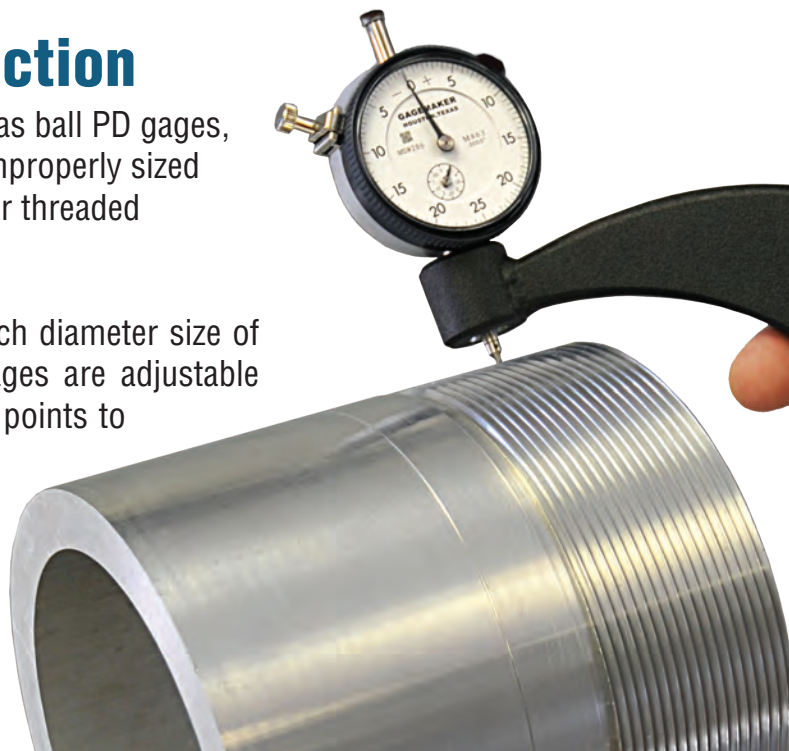




Thread Pitch Diameter Inspection

Gagemaker pitch diameter gages, commonly known as ball PD gages, verify that your part is within allowable tolerances. Improperly sized pitch diameters compromise the load capacity of your threaded components.

The ball pitch diameter gages indicate the pitch diameter size of the product's external and internal threads. The gages are adjustable within a size range and use interchangeable contact points to measure different pitch threads. Setting dimensions for the pitch diameter gages are provided by the TDWIN Thread Disk™ software.



External Pitch Diameter Gages (0" to 12" Diameters)

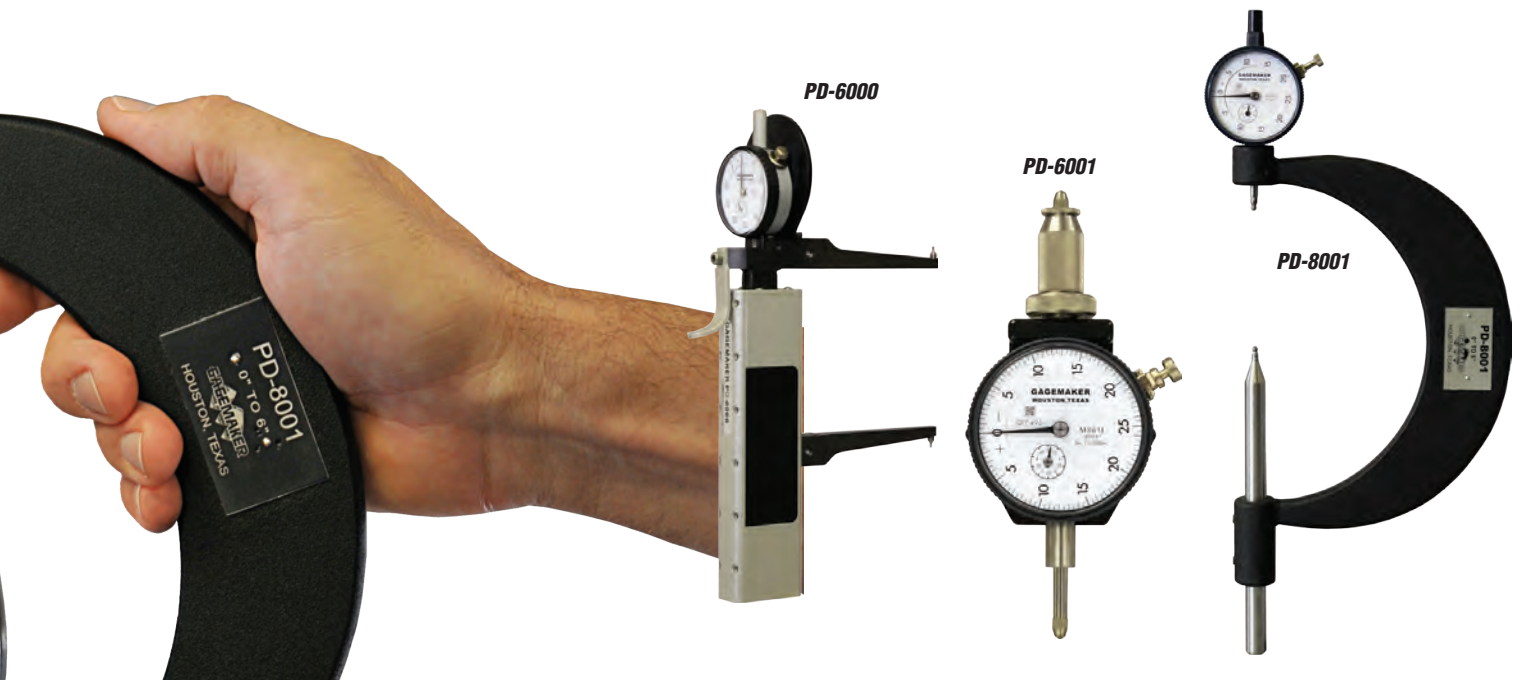
These inspection gages measure external thread pitch diameters. **Software (see page 10) and contact points (see page 15 or 124-125) are sold separately.** For gages with ranges greater than 12", please see page 114. Higher resolution indicators are available.

Model	Description	Range	Resolution	Travel
PD-8001	External Ball Pitch Diameter Gage	0" - 6" (0 mm - 152.4 mm)	.0005"	1/2"
PD-8002	External Ball Pitch Diameter Gage	6" - 12" (152.4 mm - 304.8 mm)	.0005"	1/2"

Internal Pitch Diameter Gages (1½" to 24" Diameters)

These inspection gages measure internal thread pitch diameters. **Software (see page 10) and contact points (see page 15 or 124-125) are sold separately.** Higher resolution indicators are available.

Model	Description	Range	Resolution	Travel
PD-6000	Internal Pitch Diameter Gage ("V" & Acme)	1½" - 9" (38.1 mm - 228.6 mm)	.0005"	1/2"
PD-6001	Internal Pitch Diameter Gage	6" - 24" (152.4 mm - 609.6mm)	.0005"	1/2"



Contact Points

UN Series (60° “V”) Threads

These contact points are used to inspect the pitch diameter of machined parts with 60° “V” thread forms. Two are required per gage. Sold individually.

Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch
T562	1	T128	4.5	T072	8	T032	18
T288	2	T115	5	T057	10		
T188	3 & 3½	T105	5½	T050	11½ & 12		
T144	4	T096	6	T041	14 & 16		

Acme or Stub Acme Threads

These truncated contact points are used to inspect the pitch diameter of machined parts with 29° Acme and Stub Acme thread forms. Two are required per gage. Sold individually.

Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch
T531T	1	T188T	3	T090T	6 & 7	T032T	16
T344T	1½	T144T	3½	T062T	8		
T266T	2	T128T	4	T050T	10		
T219T	2½	T105T	5	T041T	12 & 14		

7° x 45° Buttress Series Contact Points

These contact points are used to inspect the pitch diameter of machined parts with 7° x 45° Buttress thread forms. Two are required per gage. Sold individually.

Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch	Model	Thread Pitch
T562	1	T219	2½	T115	5	T050	12
T437	1¼	T188	3	T096	6	T032	16 & 18
T375	1½	T156	3½	T072	8		
T281	2	T144	4	T057	10		

For Trapezoidal or ISO Metric contact points please see pages 125.



Thread Pitch Diameter Inspection

Now, operators are able to inspect both new and used pipe threads using precision Pitch Diameter Gages that allow them to pinpoint early signs of stress, perform preventative maintenance, and extend the life of their drill string connections. By measuring the pitch diameters, the operators can directly control the connection's size during manufacturing, as well as ensure that the thread cones go into interference properly when the connections are torqued together.

In the past, pitch diameter has been ignored as long as the ring or plug gage threaded to an acceptable standoff. Using a pin location profile (LPP) and a PD-8000-RSC Series gage(pin) or a box location profile (LPB) with an IT-5104-RSC (box) provides you plenty of control. The process of locating and measuring the pitch diameter takes less than a minute. This minute of inspection quickly decides the difference between good quality and bad quality.



Pitch Diameter Location Templates

Pitch diameter location templates locate the point on the connection where the pitch diameter is measured. When applied properly to the connection, the template's special layout mark indicates the proper thread to measure the pitch diameter. A simple mark with a felt tip marking pen allows the operator or inspector to accurately position the gage and read a diameter. Please specify the threads per inch (TPI), taper per foot (TPF), and thread form when ordering.

Box Pitch Diameter Location Templates

Model	Thread Form	Model	Thread Form
LPB-3-1.25-SLH9	3 TPI, 1.25 TPF, 90-V-0.084	LPB-4-3-50	4 TPI, 3 TPF, V-0.0.050
LPB-3.5-2-H9	3.5 TPI, 2 TPF, 90-V-0.050	LPB-4-3.375-A-0.094	4 TPI, 3.375 TPF, A-0.094
LPB-3.5-3-H9	3.5 TPI, 3 TPF, 90-V-0.050	LPB-5-3-40	5 TPI, 3 TPF, V-0.040
LPB-4-1.5-76	4 TPI, 1.50 TPF, V-0.076	LPB-6-1.0-55	6 TPI, 1.0 TPF, V-0.055
LPB-4-2-38	4 TPI, 2 TPF, V-0.038R	LPB-6-1.5-55	6 TPI, 1.50 TPF, V-0.055
LPB-4-2-50	4 TPI, 2 TPF, V-0.050	LPB-6-2-32	6 TPI, 2 TPF, V-0.032
LPB-4-3-38	4 TPI, 3 TPF, V-0.038R		

Pin Pitch Diameter Location Templates

Model	Thread Form	Model	Thread Form
LPP-3-1.25-SLH9	3 TPI, 1.25 TPF, 90-V-0.084	LPP-4-3-50	4 TPI, 3 TPF, V-0.050
LPP-3.5-2-H9	3.5 TPI, 2 TPF, 90-V-0.050	LPP-4-3.375-A-0.094	4 TPI, 3.375 TPF, A-0.094
LPP-3.5-3-H9	3.5 TPI, 3 TPF, 90-V-0.050	LPP-5-3-40	5 TPI, 3 TPF, V-0.040
LPP-4-1.5-76	4 TPI, 1.50 TPF, V-0.076	LPP-6-1.0-55	6 TPI, 1.0 TPF, V-0.055
LPP-4-2-38	4 TPI, 2 TPF, V-0.038R	LPP-6-1.5-55	6 TPI, 1.50 TPF, V-0.055
LPP-4-2-50	4 TPI, 2 TPF, V-0.050	LPP-6-2-32	6 TPI, 2 TPF, V-0.032
LPP-4-3-38	4 TPI, 3 TPF, V-0.038R		



Internal Pitch Diameter Gages

Gagemaker's internal pitch diameter gages measure variation in internal thread pitch diameters. Pitch diameter gages are shipped with one set of contact points, please see the chart below to request proper points. Setting dimensions for the pitch diameter gages are provided by the **TDWIN Taper™** software package. Gages require setting with either a standard or a MIC TRAC™. **Software (page 42), MIC TRAC™ (pages 87-93), contact points, and standards (page 113) are sold separately.**

Model	Description	Range
IT-5104-RSC	Internal Pitch Diameter Gage	4" (101.6 mm) Depth, 1½" - 10" (38.1 mm - 254 mm) Diameter

External Pitch Diameter Inspection Gages

The ball pitch diameter gages indicate the pitch diameter size of the product's external thread. The gages are adjustable within a size range and use interchangeable contact points to measure different pitch threads. Gages ship with one set of contact points, please see the chart below to request proper points. Gages require setting with either a standard or a MIC TRAC™. **Software (page 42), MIC TRAC™ (pages 87-93), contact points, and standards (page 113) are sold separately.**

Model	Description	Range
PD-8001-RSC	External Pitch Diameter Gage	0" - 6" (0 mm - 152.4 mm)
PD-8002-RSC	External Pitch Diameter Gage	6" - 12" (152.4 mm - 304.8 mm)

API Contact Points for Pitch Diameter Gages

Gagemaker's standard ball contact points are manufactured with carbide balls. All RSC inspection gages use threaded shank contact points. Threaded shanks are #4-48 UNF. Pitch diameter gages require two contact points. Sold individually.

Model	Point Diameter	Threads Per Inch	Connection Type
T235	0.235"	3	Hughes Slim Line H-90
T200	0.200"	3½	All Hughes H-90
T144	0.144"	4	API Rotary Shouldered Connections
T115	0.115"	5	API Rotary Shouldered Connections
T096	0.096"	6	API Rotary Shouldered Connections



Thread Diameter Gages

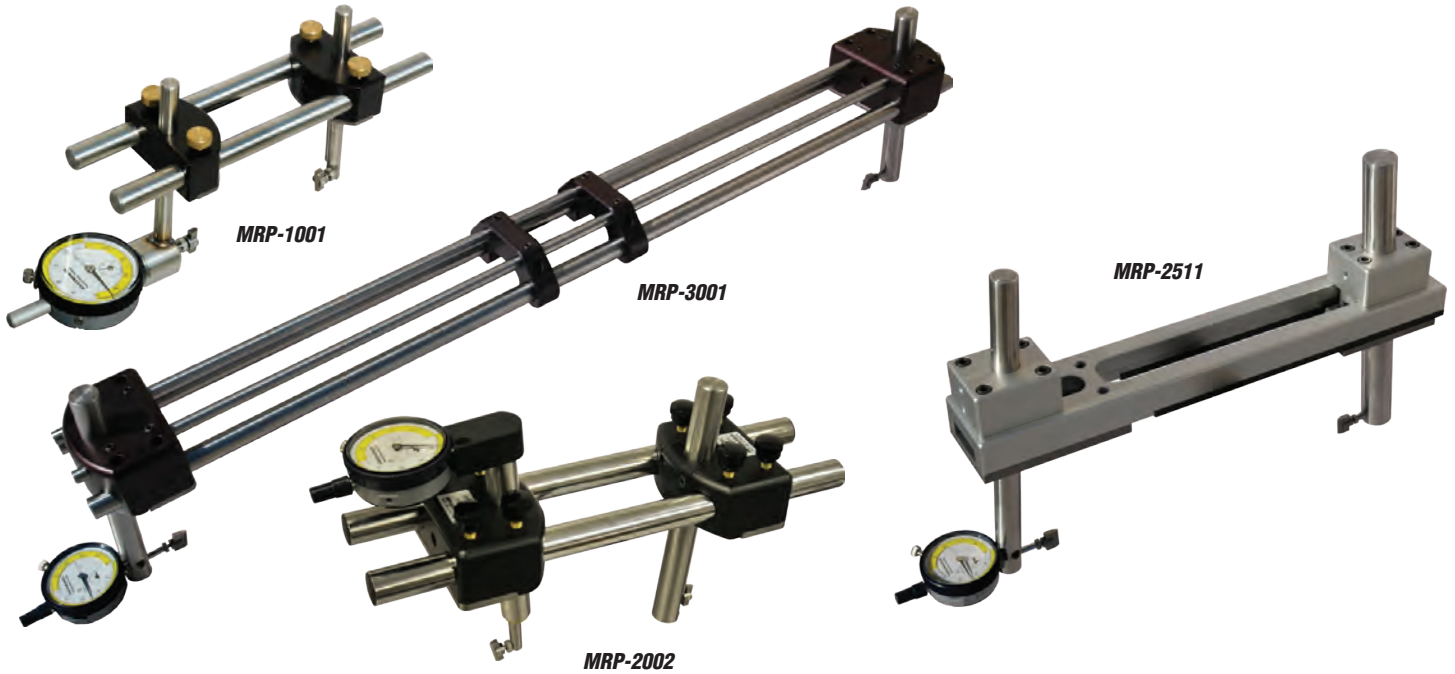
A variety of comparative style thread inspection gages are available for the proprietary market. We provide gages that will meet your requirements of size range, accuracy, affordability, and delivery.



MRP® Pitch Diameter and Ovality Gages

This MRP® series of pitch diameter gages detects variations in pitch diameter by the use of a gage shoe that rests on the crest of the threads. Variation in diameter is detected by the indicator readout. These gages must be set to nominal size with one of a variety of setting options offered. Refer to the setting option section that follows. All of these gages are API approved for use on casing and tubing.

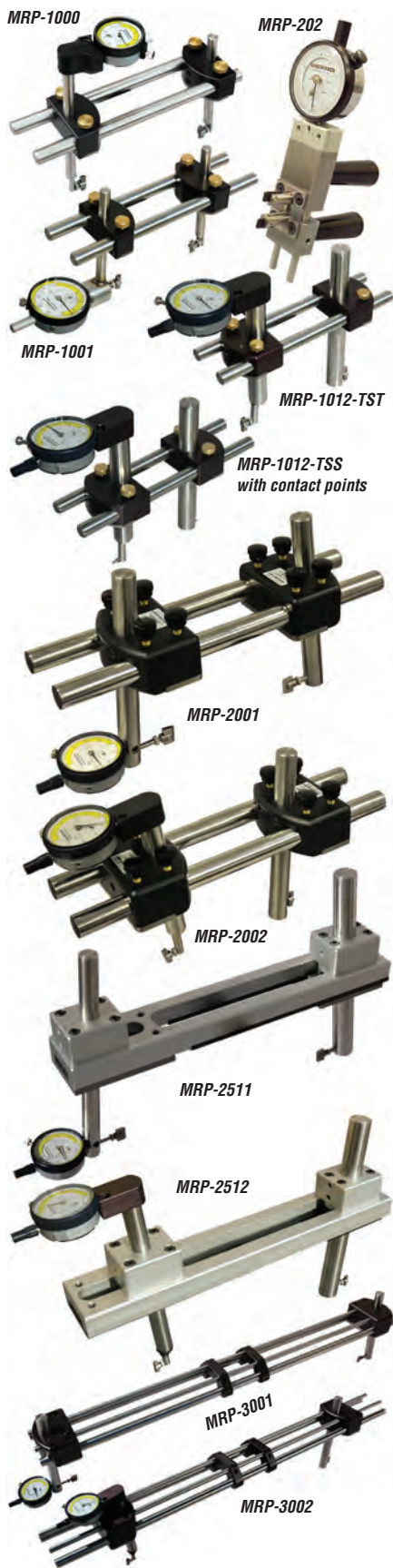
Model	Description	Range
MRP-1000	Internal/External Pitch Diameter Gage	1½" - 4½"
MRP-1001	External Pitch Diameter Gage	External 1½" - 4½"
MRP-1000-45	Internal Seal Diameter Gage. Contacts on a 45° angle. Arms- .375" upper, .375" lower	Internal 1" - 4½"
MRP-1007	Internal Seal Diameter Gage. Contacts on a 45° angle. Arms- .740" upper, .500" lower	Internal 1½" - 4½"
MRP-1008	Internal Seal Diameter Gage. Contacts on a 45° angle. Arms- .740" upper, .740" lower	Internal 1¾" - 4½"
MRP-1009	Internal Seal Diameter Gage. Contacts on a 45° angle. Arms- .740" upper, .500" lower	Internal 1¾" - 4½"
MRP-1012-TSS	Internal/External Pitch Diameter Gage for Two Step Seal. Upper and lower arms are .740" diameter. Upper arm has standard travel of .150". Shipped with T105 pts.	Internal 2¾" - 4½" External 1¾" - 4½"
MRP-1012-TST	Internal/External Pitch Diameter Gage, Two Step Thread, w/ 1.030" Horseshoe standoff for front and rear measurements. Upper and lower arms have .740" diameter. Upper arm has extended travel of .350"	Internal 2¾" - 4½" External 1¾" - 4½"
MRP-1500	Internal/External Pitch Diameter Gage, Solid Body	Internal 1½" - 4½" External 2¾" - 4½"
MRP-2001	External Pitch Diameter Gage	External 2¾" - 20"
MRP-2001-S	External Pitch Diameter Gage, 4½" reach, Straight Blocks	
MRP-2001-7	External Pitch Diameter Gage, 7" reach	
MRP-2001-10	External Pitch Diameter Gage, 10" reach	



MRP® Pitch Diameter and Ovality Gages (Continued)

Model	Description	Range
MRP-2002	Internal Pitch Diameter Gage, 4 1/4" reach	Internal 2 3/8" - 20"
MRP-2002-S	Internal Pitch Diameter Gage, 4 1/4" reach, Straight Blocks	
MRP-2002-7	Internal Pitch Diameter Gage, 7" reach	Internal 3 1/2" - 20"
MRP-2002-10	Internal Pitch Diameter Gage, 10" reach	
MRP-2003	Internal/External Pitch Diameter Gage, 4 1/4" reach	2 3/8" - 20"
MRP-2003-S	Internal/External Pitch Diameter Gage, 4 1/4" reach, Straight Blocks	
MRP-2003-7	Internal/External Pitch Diameter Gage, 7" reach	Internal 3 1/2" - 20" External 2 3/8" - 20"
MRP-2003-10	Internal/External Pitch Diameter Gage, 10" reach	
MRP-2511	External Pitch Diameter Gage, 4" reach	External 4 1/2" - 9 5/8"
MRP-2511-7	External Pitch Diameter Gage, 7" reach	
MRP-2512	Internal Pitch Diameter Gage, 3 3/8" reach	Internal 4 1/2" - 9 5/8"
MRP-2512-7	Internal Pitch Diameter Gage, 7" reach	
MRP-2521	External Pitch Diameter Gage, 4" reach	External 4 1/2" - 13 3/8"
MRP-2522	Internal Pitch Diameter Gage, 3 3/8" reach	Internal 4 1/2" - 13 3/8"
MRP-2513	Internal/External PD Gage, 3 3/8" reach	4 1/2" - 9 5/8"
MRP-2523	Internal/External PD Gage, 3 3/8" reach	4 1/2" - 13 3/8"
MRP-3001	External Pitch Diameter Gage, 3 3/8" reach	External 8 5/8" - 24"
MRP-3002	Internal Pitch Diameter Gage, 3 3/8" reach	Internal 8 5/8" - 24"
MRP-3003	Internal/External Pitch Diameter Gage, 3 3/8" reach	8 5/8" - 24"
MRP-3004	Internal/External Pitch Diameter Gage, 3 3/8" reach	20" - 36"
MRP-3501	External Pitch Diameter Gage, w/ 6 1/4" reach	External 8 5/8" - 24"
MRP-3502	Internal Pitch Diameter Gage, w/ 6 1/4" reach	Internal 8 5/8" - 24"
MRP-3503	Internal/External PD Gage, w/ 6 1/4" reach	8 5/8" - 24"

Gage parts and accessories can be found on page 105.

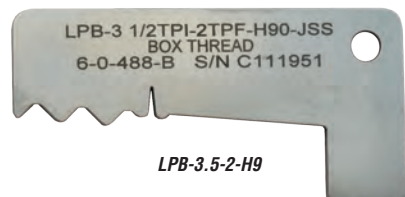


Pitch Diameter and Ovality Gages

MRP® Pitch Diameter and Ovality Gages

This MRP® series of pitch diameter (or crest diameter) gages detects variations in pitch diameter by the use of a gage shoe that rests on the crest of the threads. Variation in diameter is detected by the indicator readout. These gages must be set to nominal size with one of a variety of setting options offered. All of these gages are API approved for use on tubing and casing.

Model	Description	Range
MRP-202	Internal Small Pitch Diameter Thread Gauge	Internal 1" - 2½"
MRP-1001	External Pitch Diameter Gauge	External 1½" - 4½"
MRP-1000-45	Internal Seal Diameter Gauge. Contacts on a 45° angle. Arms: ¾" upper arms, ¾" lower arms	Internal 1" - 4½"
MRP-1003	External/Internal Pitch Diameter Gauge	1½" - 4½"
MRP-1007	Internal Seal Diameter Gauge. Contacts on a 45° angle. Arms: .740" upper, ½" lower	Internal 1½" - 4½"
MRP-1008	Internal Seal Diameter Gauge. Contacts on a 45° angle. Arms: .740" upper, .740" lower	Internal 1¾" - 4½"
MRP-1009	Internal Seal Diameter Gauge. Contacts on a 45° angle. Arms: .740" upper, .500" lower	Internal 1¾" - 4½"
MRP-1012-TSS	Internal/External Pitch Diameter Gauge for Two Step Seal. Upper and lower arms are .740" diameter. Upper arm has standard travel of .150". Shipped with T105 pts.	Internal 2¾" - 4½" External 1¾" - 4½"
MRP-1012-TST	Internal/External Pitch Diameter Gauge, Two Step Thread, w/ 1.030" Horseshoe standoff for front and rear measurements. Arms have .740" diameter. Upper arm has extended travel of .350"	Internal 2¾" - 4½" External 1¾" - 4½"
MRP-1500	Internal/External Pitch Diameter Gauge, Solid Body	Internal 1½" - 4½" External 2¾" - 4½"
MRP-2001	External Pitch Diameter Gauge, 4½" reach	External 2¾" - 20"
MRP-2001-S	External Pitch Diameter Gauge, 4½" reach, Straight Blocks	
MRP-2001-7	External Pitch Diameter Gauge, 7" reach	
MRP-2001-10	External Pitch Diameter Gauge, 10" reach	
MRP-2002	Internal Pitch Diameter Gauge, 4¼" reach	Internal 2¾" - 20"
MRP-2002-S	Internal Pitch Diameter Gauge, 4¼" reach, Straight Blocks	
MRP-2002-7	Internal Pitch Diameter Gauge, 7" reach	
MRP-2002-10	Internal Pitch Diameter Gauge, 10" reach	
MRP-2003	Internal/External Pitch Diameter Gauge, 4¼" reach	2¾" - 20"
MRP-2003-S	Internal/External Pitch Diameter Gauge, 4¼" reach, Straight Blocks	
MRP-2003-7	Internal/External Pitch Diameter Gauge, 7" reach	
MRP-2003-10	Internal/External Pitch Diameter Gauge, 10" reach	
MRP-2511	External Pitch Diameter Gauge, 4" reach	External 4½" - 9¾"
MRP-2511-7	External Pitch Diameter Gauge, 7" reach	
MRP-2521	External Pitch Diameter Gauge, 4" reach	
MRP-2512	Internal Pitch Diameter Gauge, 3¾" reach	
MRP-2512-7	Internal Pitch Diameter Gauge, 7" reach	Internal 4½" - 9¾"
MRP-2522	Internal Pitch Diameter Gauge, 3¾" reach	
MRP-2513	Internal/External PD Gauge, 3¾" reach	
MRP-2523	Internal/External PD Gauge, 3¾" reach	
MRP-3001	External Pitch Diameter Gauge, 3¾" reach	External 8¾" - 24"
MRP-3002	Internal Pitch Diameter Gauge, 3¾" reach	Internal 8¾" - 24"
MRP-3003	Internal/External Pitch Diameter Gauge, 3¾" reach	8¾" - 24"
MRP-3004	Internal/External Pitch Diameter Gauge, 3¾" reach	20" - 36"
MRP-3501	External Pitch Diameter Gauge, w/ 6¼" reach	External 8¾" - 24"
MRP-3502	Internal Pitch Diameter Gauge, w/ 6¼" reach	Internal 8¾" - 24"
MRP-3503	Internal/External PD Gauge, w/ 6¼" reach	8¾" - 24"



LPP on a Pin with blue line marking proper thread



LPB on a Box cutout

Pitch Diameter

Pitch Diameter is one of the most important inspections for nearly any thread. In the past, pitch diameter was ignored as long as the ring or plug gage threaded. Now, using Gagemaker gages, you have more control over threading connections of marginal quality. The process of locating and measuring the pitch diameter takes less than a minute. This minute of inspection quickly decides the difference between good and bad.

Rotary Shouldered Connection Pitch Diameter Location Profiles

Pitch diameter location templates locate the point on the connection where the pitch diameter is measured. When applied properly to the connection, the template's special layout mark indicates the proper thread to measure the pitch diameter. A simple mark with a felt tip marking pen allows the operator or inspector to accurately position the gage and read a diameter. Please specify the threads per inch (TPI), taper per foot (TPF), and thread form when ordering.

Box Profiles

Model	Description
LPB-3-1.25-SLH9	Box Location Profile template for 3 TPI, 1.25 TPF, 90-V-0.084 thread form
LPB-3.5-2-H9	Box Location Profile template for 3.5 TPI, 2 TPF, 90-V-0.050 thread form
LPB-3.5-3-H9	Box Location Profile template for 3.5 TPI, 3 TPF, 90-V-0.050 thread form
LPB-4-1.5-76	Box Location Profile template for 4 TPI, 1.50 TPF, V-0.076 thread form
LPB-4-2-38	Box Location Profile template for 4 TPI, 2 TPF, V-0.038R thread form
LPB-4-2-50	Box Location Profile template for 4 TPI, 2 TPF, V-0.050 thread form
LPB-4-3-38	Box Location Profile template for 4 TPI, 3 TPF, V-0.038R thread form
LPB-4-3-50	Box Location Profile template for 4 TPI, 3 TPF, V-0.050 thread form
LPB-4-3.375-A094	Box Location Profile template for 4 TPI, 3.375 TPF, A-0.094 thread form
LPB-5-3-40	Box Location Profile template for 5 TPI, 3 TPF, V-0.040 thread form
LPB-6-1.0-55	Box Location Profile template for 6 TPI, 1.0 TPF, V-0.055 thread form
LPB-6-1.5-55	Box Location Profile template for 6 TPI, 1.50 TPF, V-0.055 thread form
LPB-6-2-32	Box Location Profile template for 6 TPI, 2 TPF, V-0.032 thread form

Pin Profiles

Model	Description
LPP-3-1.25-SLH9	Pin Location Profile template for 3 TPI, 1.25 TPF, 90-V-0.084 thread form
LPP-3.5-2-H9	Pin Location Profile template for 3.5 TPI, 2 TPF, 90-V-0.050 thread form
LPP-3.5-3-H9	Pin Location Profile template for 3.5 TPI, 3 TPF, 90-V-0.050 thread form
LPP-4-1.5-76	Pin Location Profile template for 4 TPI, 1.50 TPF, V-0.076 thread form
LPP-4-2-38	Pin Location Profile template for 4 TPI, 2 TPF, V-0.038R thread form
LPP-4-2-50	Pin Location Profile template for 4 TPI, 2 TPF, V-0.050 thread form
LPP-4-3-38	Pin Location Profile template for 4 TPI, 3 TPF, V-0.038R thread form
LPP-4-3-50	Pin Location Profile template for 4 TPI, 3 TPF, V-0.050 thread form
LPP-4-3.375-A094	Pin Location Profile template for 4 TPI, 3.375 TPF, A-0.094 thread form
LPP-5-3-40	Pin Location Profile template for 5 TPI, 3 TPF, V-0.040 thread form
LPP-6-1.0-55	Pin Location Profile template for 6 TPI, 1.0 TPF, V-0.055 thread form
LPP-6-1.5-55	Pin Location Profile template for 6 TPI, 1.50 TPF, V-0.055 thread form
LPP-6-2-32	Pin Location Profile template for 6 TPI, 2 TPF, V-0.032 thread form

RSC Box Pitch Diameter Gages

Gagemaker's internal diameter and groove gages measure variation in internal bore diameters. Pitch diameter gages are shipped with two 0.144" diameter contact points (T144) as standard. Setting dimensions for the pitch diameter gages are provided by the TDWIN Taper™ software. **Software is sold separately (see page 129).** Refer to page 124 for the proper contact point for your particular connection.

Model	Description	Range
IT-5104-RSC	Internal Diameter/Groove Gage, 4" (101.6 mm) Depth	1½" - 10" (38.1 mm - 254 mm) Dia.
IT-5104-04	Replacement Lower Arm	4¼" (107.9 mm) Length

RSC Pin Pitch Diameter Gages

The ball pitch diameter gages indicate the pitch diameter size of the product's external thread. The gages are adjustable within a size range and use interchangeable contact points to measure different pitch threads. Gages are shipped with two 0.144" diameter contact points (T144) as standard. Reference page 124 for other connection specific contact points.

Model	Description	Range
PD-8001-RSC	External Ball Pitch Diameter Gage	0" - 6" (0 mm - 152.4 mm)
PD-8002-RSC	External Ball Pitch Diameter Gage	6" - 12" (152.4 mm - 304.8 mm)

Rod Style Setting Standards

Rod style setting standards are used to set many JSS® gages. Specify size or specific connection when ordering. Ex.: RS-3.5-DS-B, RS-NC77-B, RS-2.375-REG-B.

Model	Description
RS-__-DS-B	Rod Standard for Double Streamline (3.5" - 5.5"), Box
RS-__-DS-P	Rod Standard for Double Streamline (3.5" - 5.5"), Pin
RS-__-EF-B	Rod Standard for External Flush (2.375" - 4.5"), Box
RS-__-EF-P	Rod Standard for External Flush (2.375" - 4.5"), Pin
RS-__-FH-B	Rod Standard for Full Hole (2.875" - 6.625"), Box
RS-__-FH-P	Rod Standard for Full Hole (2.875" - 6.625"), Pin
RS-__-H9-B	Rod Standard for H-90 (3.5" - 8.625"), Box
RS-__-H9-P	Rod Standard for H-90 (3.5" - 8.625"), Pin
RS-__-IF-B	Rod Standard for Internal Flush (2.375" - 6.625"), Box
RS-__-IF-P	Rod Standard for Internal Flush (2.375" - 6.625"), Pin
RS-NC__-B	Rod Standard for API Numbered Connections (#10 - #77), Box
RS-NC__-P	Rod Standard for API Numbered Connections (#10 - #77), Pin
RS-__-OH-B	Rod Standard for Open Hole (2.375" - 4.5"), Box
RS-__-OH-P	Rod Standard for Open Hole (2.375" - 4.5"), Pin
RS-__-PAC-B	Rod Standard for PAC (2.375" - 3.5"), Box
RS-__-PAC-P	Rod Standard for PAC (2.375" - 3.5"), Pin
RS-__-SH-B	Rod Standard for Slim Hole (2.375" - 4.5"), Box
RS-__-SH-P	Rod Standard for Slim Hole (2.375" - 4.5"), Pin
RS-__-SLH9-B	Rod Standard for Slimline H-90 (2.375" - 3.5"), Box
RS-__-SLH9-P	Rod Standard for Slimline H-90 (2.375" - 3.5"), Pin
RS-__-REG-B	Rod Standard for Regular (1.0" - 8.625"), Box
RS-__-REG-P	Rod Standard for Regular (1.0" - 8.625"), Pin
RS-__-XH-B	Rod Standard for Xtra Hole (2.875" - 5.0"), Box
RS-__-XH-P	Rod Standard for Xtra Hole (2.875" - 5.0"), Pin
RS-__-WO-B	Rod Standard for Wide Open (2.375" - 4.5"), Pin
RS-__-WO-P	Rod Standard for Wide Open (2.375" - 4.5"), Pin



IT-5104-RSC



PD-8001-RSC



Setting PD-8001-RSC with Rod Standard



PD-8001



PD-6000



PD-6001 and Extension Rods

Straight Thread External Pitch Diameter Gages (0" to 72" Diameters)

The ball pitch diameter gages or "GO/NO GO" gages indicate the pitch diameter size of the product's external thread. The gages are adjustable within a size range and use interchangeable contact points to measure different pitch threads. Setting dimensions for the pitch diameter gages are provided by the TDWIN software. **Software (see page 128) and contact points (see pages 124-125) are sold separately.** Indicators have a 1/2" travel and .0005" resolution, and higher resolutions are available. Models PD-8004 through PD-8016 include a custom wood case.

Model	Description	Range
PD-8000	External Ball Pitch Diameter Gauge	0" - 2 3/8" (0 mm - 60.3 mm)
PD-8001	External Ball Pitch Diameter Gauge	0" - 6" (0 mm - 152.4 mm)
PD-8002	External Ball Pitch Diameter Gauge	6" - 12" (152.4 mm - 304.8 mm)
PD-8004	External Ball Pitch Diameter Gauge	12" - 16" (304.8 mm - 406.4 mm)
PD-8006	External Ball Pitch Diameter Gauge	16" - 20" (406.4 mm - 508 mm)
PD-8008	External Ball Pitch Diameter Gauge	20" - 24" (508 mm - 609.6 mm)
PD-8010	External Ball Pitch Diameter Gauge	24" - 28" (609.6 mm - 711.2 mm)
PD-8012	External Ball Pitch Diameter Gauge	28" - 36" (711.2 mm - 914.4 mm)
PD-8013	External Ball Pitch Diameter Gauge	36" - 44" (914.4 mm - 1117.6 mm)
PD-8014	External Ball Pitch Diameter Gauge	44" - 52" (1117.6 mm - 1320.8 mm)
PD-8015	External Ball Pitch Diameter Gauge	52" - 60" (1320.8 mm - 1524.0 mm)
PD-8016	External Ball Pitch Diameter Gauge	60" - 72" (1524.0 mm - 1828.8 mm)

Straight Thread Internal Pitch Diameter Gages (1 1/2" to 27" Diameters)

The ball pitch diameter gages or "GO/NO GO" gages indicate the pitch diameter size of the product's internal threads. The gages are adjustable within a size range and use interchangeable contact points to measure different pitch threads. Setting dimensions for the pitch diameter gages are provided by the TDWIN software (sold separately, see page 128). Higher resolution indicators are available. All of the PD-6000 series are sold without contact points. See pages 124-125 for contact points.

Model	Description	Travel	Resolution	Range
PD-6000	Internal Pitch Diameter Gauge ("V" & Acme)	1/2"	.0005"	1 1/2" - 9"
PD-6000-07	Replacement Arm Set			4 1/2" length
PD-6001	Internal Pitch Diameter Gauge	1/2"	.0005"	6" - 24"

PD-6001 Replacement Parts (Extensions have #10-32 threads)

Model	Description	Length
PD-6001-PD4M	Cap	
4-2-617	Indicator Base - Mitutoyo Indicator Only	
PD-6001-CBA	Cap and Base Assembly	
PD-6001-PD3	Adjustment Cap Lock Nut	
PD-6001-PD2	Adjustment Cap	
PD-6001-PD1	Contact Point Adapter	
PD-6001-PDA	Extension Rod	.430"
PD-6001-PDB	Extension Rod	.860"
PD-6001-PDC	Extension Rod	1.290"
PD-6001-PDD	Extension Rod	1.720"
PD-6001-PDE	Extension Rod	3.440"
PD-6001-PDF	Extension Rod	5.590"
PD-6001-PDG	Extension Rod	7.740"
PD-6001-PDH	Extension Rod	10.320"
PD-6001-12E	PD-6001 Internal Pitch Diameter Extension Rod	12"
PD-6001-24E	PD-6001 Internal Pitch Diameter Extension Rod	24"
PD-6001-36E	PD-6001 Internal Pitch Diameter Extension Rod	36"



Functional Size

External Functional Size Thread Inspection Gages ($\frac{1}{8}$ " to 24" Diameters)

These functional thread inspection, or "GO/NO GO" gages, measure external thread diameters. The gages are adjustable within a size range and use interchangeable thread rolls to measure different pitch threads. Setting dimensions for the functional pitch diameter gages are provided by the TDWIN Thread Disk™ software. **The software (see page 129) and thread rolls (see page 117) are sold separately.** Indicators have a $\frac{1}{2}$ " travel and .0005" resolution, and higher resolutions are available.

Model	Description	Range
RG-7000	External Thread Roll Gage	$\frac{1}{8}$ " - 4" (15.9 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)
RG-LAA	Lower Adjustment Arm	

Internal Functional Size Thread Inspection Gages (1½" to 24" Diameters)

Gagemaker also manufactures functional thread inspection gages that inspect internal threads. The gages are adjustable within a size range and use interchangeable thread rolls to measure different pitch threads. Indicators have a $\frac{1}{2}$ " travel and .0005" resolution, and higher resolutions are available. **Thread roll sets not included.** See page 117 for thread rolls.

Model	Description	Range
PG-6000	Internal Thread Roll Gage, 2½" reach	1½" - 9" (38 mm - 228.6 mm)
PG-6001	Internal Thread Roll Gage, 2½" reach	9" - 16" (228.6 mm - 406.4 mm)
PG-6002	Internal Thread Roll Gage, 2½" reach	16" - 24" (406.4 mm - 609.6 mm)
PG-6003	Internal Thread Roll Gage, 2½" reach	24" - 32" (609.6 mm - 812.8 mm)
PG-6000-SA	Replacement Arm Set	2½" reach
PG-6000-XA	Extended Reach Arm Set	4½" reach
PG-6000-17	Locking T-nut for Arms	

Deep Bore Internal Functional Size

The DPG-6000 gage inspects diameters of internal threads using thread rolls. This functional diameter gage inspects the effects of all thread element variations and reports any deviations. **All thread rolls are sold separately.** See page 117 for thread rolls.

Model	Description	Range
DPG-6000	Deep bore thread roll gage assembly for 4 pitch and finer threads only.	3" - 4.300" dia., 6" Reach
DPG-6R	Handle Extension Assemblies	6" Reach
DPG-8R	Handle Extension Assemblies	8" Reach
DPG-12R	Handle Extension Assemblies	12" Reach
DPG-18R	Handle Extension Assemblies	18" Reach
DPG-24R	Handle Extension Assemblies	24" Reach
DPG-1	Diameter Extension Arms	3" to 4.300" dia.
DPG-2	Diameter Extension Arms	4.300" to 5.100" dia.
DPG-3	Diameter Extension Arms	5.100" to 5.900" dia.
DPG-4	Diameter Extension Arms	5.900" to 6.700" dia.
DPG-5	Diameter Extension Arms	6.700" to 7.500" dia.
DPG-6	Diameter Extension Arms	7.500" to 8.300" dia.
DPG-7	Diameter Extension Arms	8.300" to 9.100" dia.

