

# Functional Diameter Thread Roll Gages Rotary Shouldered Pin Connections

## MRP-5500 Series



**MRP-5500  
Functional Diameter  
Thread Roll Gage**



**Measures External Diameters  
Rotary Shouldered  
Pin Connections**

### HOW TO ORDER

1. Select the 5500 Series gage model, based on the size of connections being measured
2. Select the thread roll model, based on the thread form (sold separately)
3. Specify the yoke size: 1 1/4", 1 1/2", 2" or 3" TPF
4. Select the setting standard: Round/Frame Style setting standards or MIC TRAC are available.

The MRP-5500 Series of gages measures external diameters of rotary shouldered connections. These functional diameter gages inspect the effects of all thread element variations and report deviations. The MRP-5500 gages must be preset to size before inspecting parts. A variety of setting standards are available. To ensure maximum accuracy, the tapered arms of 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 API specifications to measure a specific thread form. Thread rolls are sold separately.

### Features

- Measures external threads for a range of diameters .
- Uses interchangeable thread rolls for measurement of unlimited diameters for specific thread forms.
- Replaces conventional ring gages.
- Provides functional measurement by inspecting the effects of thread element variations such as: lead, taper, thread height and pitch diameter.
- Works in conjunction with fixed element type inspection gages.
- Eliminates wear on threads caused from ring gages.
- Durable construction allows for the use in a manufacturing or field environment.
- Requires presetting using setting standards or Gagemaker's MIC TRAC measurement center.

### MRP-5500 Series Gages

Model No.	Description	Range
MRP-5501	External Tool Joints	2 3/8" – 5 1/2"
MRP-5502	External Tool Joints	5 1/2" – 7 5/8"
MRP-5503	External Tool Joints	8 5/8"

### MRP-5500 Thread Rolls (Sold Separately)

Model No.	Description	
TR-415	P.A.C. Connections, 2 3/8" – 3 1/2" 2 3/8" – 4 1/2" American Open Hole	
TR-4238	4" API Full Hole 2 7/8" – 5" Hughes Xtra Hole 2 3/8" – 4 1/2" Hughes Slim Hole 2 3/8" – 5 1/2" API INT Flush	API Numbered Connections #23 - #50 5 1/2" & 6 5/8" API Full Hole 6 5/8" API REG
TR-4338	5 1/2", 7 5/8", 8 5/8" API REG API Numbered Connections #56 - #77	
TR-5340	2 3/8" – 4 1/2" API REG 3 1/2", 4 1/2" API Full Hole	
TR-61555	API Numbered connections #10, #12, #13, #16 M.T. (Macaroni Tubing)	
TR-352H9	3 1/2" – 6 5/8" Hughes H-90	
TR-353H9	7" – 8 5/8" Hughes H-90	
TR-312H9	2 3/8" – 3 1/2" Hughes Slim Line	

### MRP-5500 Taper Arms



Model No.	Description
MRP55-125T	1 1/4" TPF Taper Arms (Set of 2)
MRP55-15T	1 1/2" TPF Taper Arms (Set of 2)
MRP55-20T	2" TPF Taper Arms (Set of 2)
MRP55-30T	3" TPF Taper Arms (Set of 2)

### Specifications

Model No.	Dimensions	Weights
MRP-5501	15 in X 3 in X 9 in (381.0 mm X 76.2mm X 228.6 mm)	5.5 lb. (2.5 kg)
MRP-5502	18 in X 3 in X 9 in (457.2 mm X 76.2mm X 228.6 mm)	5.5 lb. (2.5 kg)
Taper Arms	2.25 in X 0.5 in X 1.5 in (57.1 mm X 12.7 mm X 38.1mm)	0.5 lb. (.23 kg)

