



MRP-5001
U.S. Patent No.
5,182,862

MRP-5001
Side View

MRP-5000
Taper Arm

MRP-501

MRP-5000 FUNCTIONAL ROLL GAGES FOR TAPERED THREADS

The MRP-5000 series of thread pitch diameter gages use hardened and ground thread rolls to inspect functional size of tapered threaded connectors. The MRP-5000 gages are adjustable within a size range and have interchangeable thread rolls for inspection of all API thread forms. The gages must be preset to size using one of a variety of setting methods available. Refer to the setting options that follow. *Please specify preferred taper arms when ordering. Thread rolls are sold separately.*

Model	Description	Resolution	Range
MRP-501*	External Sizes by Taper, Single Taper Gage*	.0001"	1" - 2¼"
MRP-502*	Internal Sizes by Taper, Single Taper Gage*	.0001"	1" - 2¼"
MRP-5001	Internal/External Tubing and Casing Connectors	.0005"	2¾" - 5½"
MRP-5002	Internal/External Tubing and Casing Connectors	.0005"	2¾" - 13¾"
MRP-5003	Internal/External Tubing and Casing Connectors	.0005"	13¾" - 20"
MRP-5004	Internal/External Tubing and Casing Connectors and Internal Tool Joints	.0001"	2¾" - 9¾"

*Please specify taper when ordering. Built to one specific taper. One taper per gage. Set of thread rolls included.

REPLACEMENT PARTS

Model	Description*
MRP5-10	Positioning Springs (Set of 2)
MRP5-11	Retainer Washers (Set of 2)
MRP5-12	Lock Screws (Set of 2)
MRP5-75T	¾" TPF Taper Arms (Set of 2)
MRP5-10T	1" TPF Taper Arms (Set of 2)
MRP5-125T	1¼" TPF Taper Arms (Set of 2)
MRP5-15T	1½" TPF Taper Arms (Set of 2)
MRP5-20T	2" TPF Taper Arms (Set of 2)
MRP5-30T	3" TPF Taper Arms (Set of 2)

*Taper arm price does not include thread rolls. To determine the thread rolls required, refer to thread roll chart below.

MRP-5000 THREAD ROLLS

The product thread form determines the thread roll set that will be used. Thread roll sets consist of 2 rolls supplied in a labeled storage tube.

Model	Description
TR-8R	All API 8 Round Tubing
TR-10R	All API 10 Round Tubing
TR-8LP	8V API Line Pipe, American Standard NPT
TR-11LP	11½" V API Line Pipe, American Standard NPT
TR-B10I	API Buttress Casing, Internal, 16" - 20"
TR-B10E	API Buttress Casing, External, 16" - 20"
TR-B75I	API Buttress Casing, Internal, 4½" - 13¾"
TR-B75E	API Buttress Casing, External, 4½" - 13¾"
TR-41576	P.A.C. Connections, 2¾" - 3½", 2¾" - 4" American Open Hole
TR-4238	4", 5½", & 6¾" API Full Hole 2¾" - 5" Hughes Xtra Hole 2¾" - 4½" Hughes Slim Hole 3½" & 4½" API EXT Flush 2¾" - 6¾" API INT Flush API Numbered Connections #23 - #50 3½" - 5½" Double Streamline 6¾" API REG
TR-4338	5½", 7¾", 8¾" API REG, API Numbered Connections #56 - #77
TR-5340	2¾" - 4½" API REG, 3½", 4½" API Full Hole
TR-6232	2¾" & 2¾" External Flush
TR-61555	API Numbered Connections #10, #12, #13, #16 M.T. (Macaroni Tubing)
TR-352H9	3 ½" - 6¾" Hughes H-90
TR-353H9	7" - 8¾" Hughes H-90
TR-312SLH9	2¾" - 3½" Hughes Slim Line
TR-BL	Blank thread roll set

MRP-5500 FUNCTIONAL ROLL GAGES FOR TAPERED THREADS

The MRP-5500 gage is for rotary shouldered connections. The MRP-5000 series of thread pitch diameter gages use hardened and ground thread rolls to inspect functional size of tapered threaded connectors. The MRP-5000 gages are adjustable within a size range and have interchangeable thread rolls for inspection of all API thread forms. The gages must be preset to size using one of a variety of setting methods available. Refer to the setting options that follow. *Please specify preferred taper arms when ordering. Thread rolls are sold separately.*

Model	Description	Resolution	Range
MRP-5501	External Tool Joints	.0001"	2 ³ / ₈ " - 5 ¹ / ₂ "
MRP-5502	External Tool Joints	.0001"	5 ¹ / ₂ " - 7 ⁵ / ₈ "
MRP-5503	External Tool Joints	.0001"	8 ⁵ / ₈ "
MRP-5012	Internal Tunneling Drill Pipe	.0001"	3/4" - 2"
MRP-5512	External Tunneling Drill Pipe (Please specify taper when ordering. Built to one specific taper. One taper per gage.)	.0001"	3/4" - 2"

REPLACEMENT PARTS

Model	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)

*Taper arm price does not include thread rolls. To determine the thread rolls required, refer to thread roll chart below.

MRP-5500 THREAD ROLLS

The product thread form determines the thread roll set that will be used. Thread roll sets consist of 2 rolls supplied in a labeled storage tube.

Model	Description	
TR-41576	P.A.C. Connections, 2 ³ / ₈ " - 3 ¹ / ₂ ", 2 ³ / ₈ " - 4 ¹ / ₂ " American Open Hole	
TR-4238	4", 5 ¹ / ₂ ", & 6 ⁵ / ₈ " API Full Hole 2 ⁷ / ₈ " - 5" Hughes Xtra Hole 2 ³ / ₈ " - 4 ¹ / ₂ " Hughes Slim Hole 3 ¹ / ₂ " & 4 ¹ / ₂ " API EXT Flush	2 ³ / ₈ " - 6 ⁵ / ₈ " API INT Flush API Numbered Connections #23 - #50 3 ¹ / ₂ " - 5 ¹ / ₂ " Double Streamline 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-6232	2 ³ / ₈ " & 2 ¹ / ₂ " External Flush	
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-312SLH9	2 ³ / ₈ " - 3 ¹ / ₂ " Hughes Slim Line	
TR-BL	Blank thread roll set	



Using the MRP-5501

U.S. Patent No. 5,182,862

MRP-5501

MRP-5500 Taper Arm