

**CASING ROLLERS**

**Overview**

The Logan Casing Roller repairs and restores dented, collapsed, or buckled tubing or casing of any size and weight to its original inside diameter and roundness.

**Construction**

The Logan Casing Roller is composed of a mandrel with eccentric roll surfaces, three heavy-duty, precision ground rollers, a nose cone, and rugged ball bearings. Special wear resistant alloy steels are used in the manufacture of the tool. The rollers are hardened to improve their wear resistance. The rollers are secured to the mandrel by the nose cone that is retained by rugged ball bearings. Circulation capabilities are provided by a through bore.

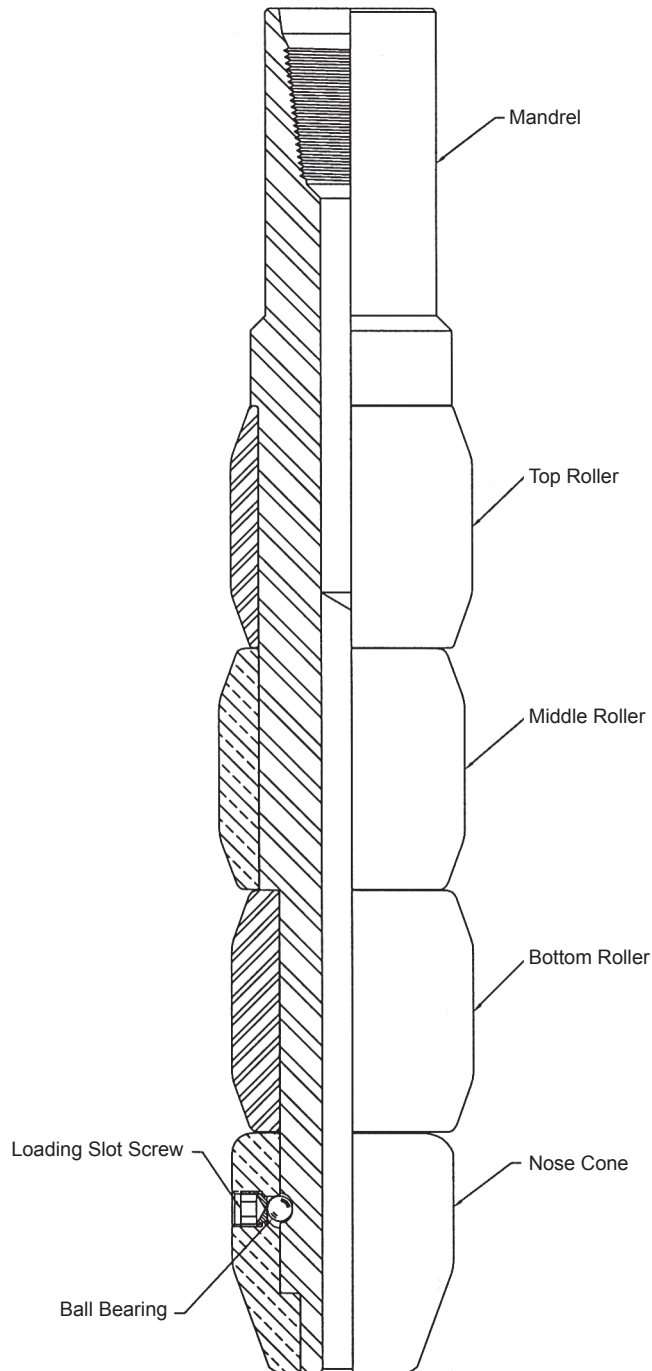
Logan Casing Rollers can be redressed with larger size rollers to restore larger size casing. The casing roller can be used in right-hand or left-hand rotation and can be ordered with either right- or left-hand connections. Special nose cones can be ordered with a tool joint connection so that lower stinger assemblies can be run if desired.

**Operation**

Good fluid circulation and slow rotary speeds make the operation of the Logan Casing Roller a simple, effective process. The casing roller is made up to the bottom of the drill string. Slowly lower and rotate the string until the damaged section is reached. Begin circulation and continue to slowly lower the string while increasing rotation speed. The tapered nose cone will guide the tool and allow it to enter and open the collapsed section. Adequate downward pressure must be maintained. Too little pressure will cause wear on the tool without restoring the casing. If string weight is insufficient for downward progress, add drill collars.

**When ordering, please specify:**

- (1) Name and number of assembly or part
- (2) Casing O.D. and weight
- (3) Top connection, if other than standard



# LOGAN GENERAL CATALOG

OIL TOOLS

## CASING ROLLERS

<b>CASING SIZE TO ROLL</b>		2-3/8 Tbg	2-7/8 Tbg	3-1/2 Tbg	4 3-1/2 LP 4 Tbg	4-1/2 4-3/4 5	5-1/2 5-3/4 6	6-5/8 7
<b>TOP CONNECTION</b>		...	1-13/16 WFJ	API 1-1/4 Reg	API 2-3/8 Reg	API 2-3/8 Reg	API 2-7/8 Reg	API 3-1/2 Reg
<b>CIRCULATION HOLE</b>		3/8	3/8	5/16	1/4	1/2	5/8	1
<b>ROLLER LENGTH</b>		3	3	3	4	4	5	6
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>502-238</b>	<b>502-288</b>	<b>502-350</b>	<b>502-400</b>	<b>502-450</b>	<b>502-550</b>	<b>502-663</b>
	<b>Bowen No.</b>	28802	26395	29046	28963	20660	20910	20920
<b>MANDREL</b>	<b>Logan Part No.</b>	<b>W1000</b>	<b>W1001</b>	<b>W1002</b>	<b>W1003</b>	<b>W1004</b>	<b>W1005</b>	<b>W1006</b>
	<b>Bowen No.</b>	28803	26396	29501	28964	20661	20911	20921
<b>NOSE CONE</b>	<b>Logan Part No.</b>	<b>W2000</b>	<b>W2001</b>	<b>W2002</b>	<b>W2003</b>	<b>W2004</b>	<b>W2005</b>	<b>W2006</b>
	<b>Bowen No.</b>	28807	26400	29050	28965	20662	20912	20922
<b>BOTTOM ROLLER</b>	<b>Logan Part No.</b>	<b>W3000</b>	<b>W3001</b>	<b>W3002</b>	<b>W3003</b>	<b>W3004</b>	<b>W3005</b>	<b>W3006</b>
	<b>Bowen No.</b>	28806	26399	29049	28966	20663	20913	20923
<b>MIDDLE ROLLER</b>	<b>Logan Part No.</b>	<b>W4000</b>	<b>W4001</b>	<b>W4002</b>	<b>W4003</b>	<b>W4004</b>	<b>W4005</b>	<b>W4006</b>
	<b>Bowen No.</b>	28805	26398	29048	28967	20664	20914	20924
<b>TOP ROLLER</b>	<b>Logan Part No.</b>	<b>W5000</b>	<b>W5001</b>	<b>W5002</b>	<b>W5003</b>	<b>W5004</b>	<b>W5005</b>	<b>W5006</b>
	<b>Bowen No.</b>	28804	26397	29047	28968	20665	20915	20925
<b>BALL BEARINGS</b>	<b>Logan Part No.</b>	<b>W6000</b>	<b>W6000</b>	<b>W6002</b>	<b>W6003</b>	<b>W6003</b>	<b>W6003</b>	<b>W6006</b>
	<b>Bowen No.</b>	17294	17294	27940	20666	20666	20666	20926
	<b>No. Req'd</b>	9	13	9	7	9	13	15
<b>SET SCREW (LOADING SLOT)</b>	<b>Logan Part No.</b>	<b>W7000</b>	<b>W7001</b>	<b>W7002</b>	<b>W7005</b>	<b>W7005</b>	<b>W7005</b>	<b>W7006</b>

<b>CASING SIZE TO ROLL</b>		7-5/8 8-5/8	9 9-5/8 10	10-3/4 11-3/4 12	13 13-3/8	16 18-5/8		
<b>TOP CONNECTION</b>		API 4-1/2 Reg	API 4-1/2 Reg	API 6-5/8 Reg	API 6-5/8 Reg	API 6-5/8 Reg		
<b>CIRCULATION HOLE</b>		1-1/4	1-1/2	1-3/4	2	2		
<b>ROLLER LENGTH</b>		7	8	9	10	11		
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>502-763</b>	<b>502-900</b>	<b>502-1075</b>	<b>502-1300</b>	<b>502-1600</b>		
	<b>Bowen No.</b>	20930	20940	20950	20960	20970		
<b>MANDREL</b>	<b>Logan Part No.</b>	<b>W1007</b>	<b>W1008</b>	<b>W1009</b>	<b>W1010</b>	<b>W1011</b>		
	<b>Bowen No.</b>	20931	20941	20951	20961	20971		
<b>NOSE CONE</b>	<b>Logan Part No.</b>	<b>W2007</b>	<b>W2008</b>	<b>W2009</b>	<b>W2010</b>	<b>W2011</b>		
	<b>Bowen No.</b>	20932	20942	20952	20962	20972		
<b>BOTTOM ROLLER</b>	<b>Logan Part No.</b>	<b>W3007</b>	<b>W3008</b>	<b>W3009</b>	<b>W3010</b>	<b>W3011</b>		
	<b>Bowen No.</b>	20933	20943	20953	20963	20973		
<b>MIDDLE ROLLER</b>	<b>Logan Part No.</b>	<b>W4007</b>	<b>W4008</b>	<b>W4009</b>	<b>W4010</b>	<b>W4011</b>		
	<b>Bowen No.</b>	20934	20944	20954	20964	20974		
<b>TOP ROLLER</b>	<b>Logan Part No.</b>	<b>W5007</b>	<b>W5008</b>	<b>W5009</b>	<b>W5010</b>	<b>W5011</b>		
	<b>Bowen No.</b>	20935	20945	20955	20965	20975		
<b>BALL BEARINGS</b>	<b>Logan Part No.</b>	<b>W6007</b>	<b>W6007</b>	<b>W6007</b>	<b>W6010</b>	<b>W6010</b>		
	<b>Bowen No.</b>	20936	20936	20936	20966	20966		
	<b>No. Req'd</b>	12	16	24	21	28		
<b>SET SCREW (LOADING SLOT)</b>	<b>Logan Part No.</b>	<b>W7007</b>	<b>W7007</b>	<b>W7009</b>	<b>W7010</b>	<b>W7011</b>		
	<b>Bowen No.</b>							

Logan Oil Tools reserves the right to change or discontinue designs without notice.