

Casing Rollers

CASING ROLLERS

Overview

The 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 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.

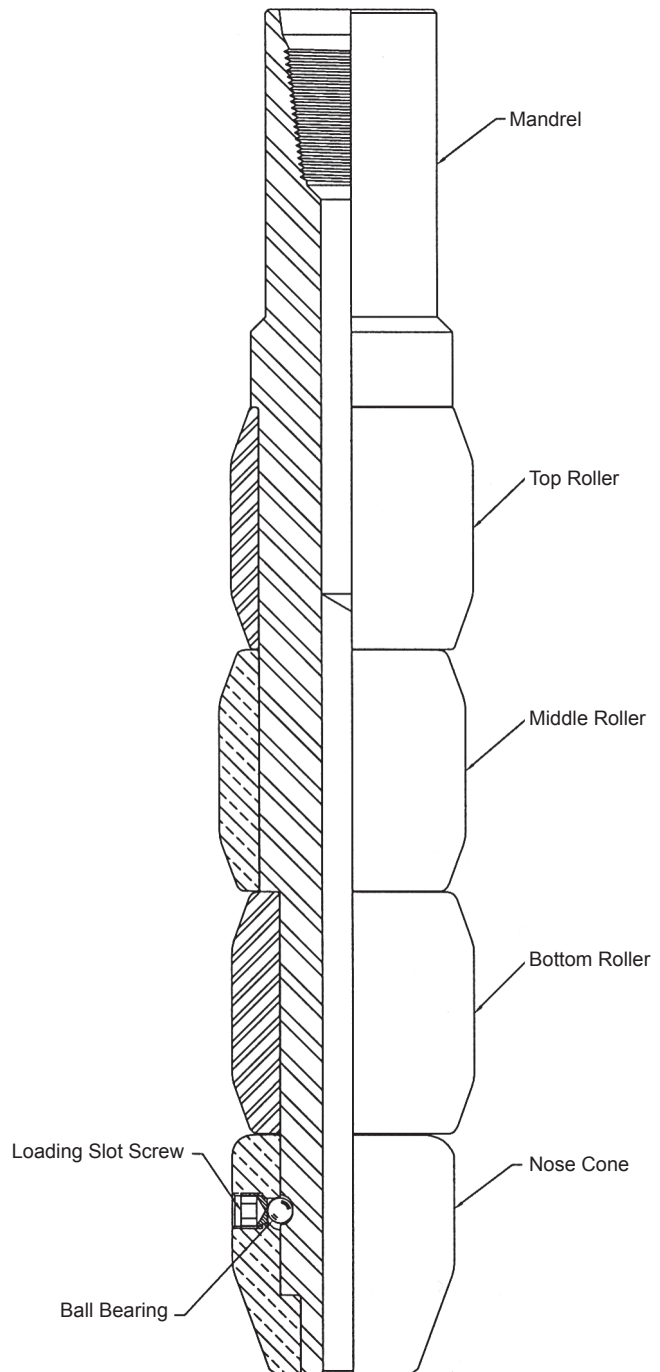
Casing Rollers can be redressed with larger size rollers to restore larger size casing. The casing roller can be used in right-hand or left-hand rotation and can be ordered with either right- or left-hand connections. Special nose cones can be ordered with a tool joint connection so that lower stinger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

Operation

Good fluid circulation and slow rotary speeds make the operation of the 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



Casing Rollers

CASING ROLLERS

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

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