



**STANDARD EXTERNAL CUTTERS**

**Overview**

The automatic spring-fed knives feature of this tool prevents excessive strain from being applied from the rig floor that could cause the knives to burn or break before the cut is completed.

**Construction**

The tool consists of a top sub, body, guide, knives, spring dog assembly, thrust washer, thrust bearing, preload sleeve, feed ring, main spring, and shear pins.

**Spring Dog Assembly**

The Spring Dog Assembly is standard equipment on all Logan External Cutters. The Spring Dog Assembly catches square shouldered collars or couplings and retains the cut off section after the cut is made. A variety of pipe sizes can be caught by each assembly for each different size of cutter.

**Ratchet Pawl Assembly**

The Ratchet Pawl Assembly is designed to catch tapered upset integral tool joints. They are also capable of catching square shouldered collars or couplings. Ratchet Pawl Assemblies fit only one particular size of pipe and will be provided upon request.

*Special Note:*

*Single Pawl Spacer is required when using a Ratchet Pawl Assembly.*

**Slip Assembly**

This optional assembly is designed to cut and retain pipe with external tool joints. The slips will grip the pipe at any point and retain the cut-off section after making the cut. Slip assemblies will be provided upon request.

**Operation**

Run the cutter to the desired depth. Apply enough pull load on the work string to pull the spring dog assembly (or ratchet pawl assembly if used) up against a coupling or upset of a tool joint. This will apply load to the thrust bearings, preload ring, and main spring that will shear the pins on the feed ring. This allows the main spring to apply sufficient load on the knives so the cut can be made.

# LOGAN GENERAL CATALOG

OIL TOOLS

## STANDARD EXTERNAL CUTTERS

<b>TUBING/CASING SIZE TO CUT</b>	1.050 to 1.315 Tbg	1.315 to 2-3/8 Tbg	1.660 to 2-3/8 Tbg	1.900 to 2-7/8 Tbg	2-1/16 to 3-1/2 Tbg	2-3/8 to 3-1/2 Tbg	2 3/8 to 4 Tbg	
<b>MAX SIZE WILL PASS OVER</b>	1.552	3-1/16	3-1/8	3-3/4	4-1/4	4-1/2	4-3/4	
<b>INSIDE DIAMETER (CUTTER)</b>	1-5/8	3-1/8	3-1/4	3-7/8	4-3/8	4-5/8	4-7/8	
<b>OUTSIDE DIAMETER (CUTTER)</b>	2-5/16	3-7/8	4-1/2	4-11/16	5-5/8	5-7/8	6-1/16	
<b>MINIMUM SIZE HOLE TO RUN IN</b>	2-7/16	4-1/8	4-3/4	4-15/16	5-7/8	6-1/8	6-1/4	
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>410-231</b>	<b>410-388</b>	<b>410-450</b>	<b>410-468</b>	<b>410-563</b>	<b>410-588</b>	<b>410-606</b>
<b>w/SPRING DOG</b>	<b>Bowen No.</b>	32848	47127	47167	47210	47309	47264	47360
<b>TOP SUB</b>	<b>Logan Part No.</b>	<b>P1000</b>	<b>P1001</b>	<b>P1002</b>	<b>P1003</b>	<b>P1004</b>	<b>P1005</b>	<b>P1006</b>
	<b>Bowen No.</b>	13626	47128	47168	47211	33574	47265	33648
<b>BODY</b>	<b>Logan Part No.</b>	<b>P2000</b>	<b>P2001</b>	<b>P2002</b>	<b>P2003</b>	<b>P2004</b>	<b>P2005</b>	<b>P2006</b>
	<b>Bowen No.</b>	13627	47129	47169	47212	47310	47266	47361
<b>THRUST WASHER</b>	<b>Logan Part No.</b>	<b>P3000</b>	<b>P3001</b>	<b>P3002</b>	<b>P3003</b>	<b>P3004</b>	<b>P3005</b>	<b>P3006</b>
	<b>Bowen No.</b>	13633	32904	47171	33083	36484	47268	33650
<b>THRUST BEARING</b>	<b>Logan Part No.</b>	<b>P4000</b>	<b>P4001</b>	<b>P4002</b>	<b>P4003</b>	<b>P4004</b>	<b>P4005</b>	<b>P4006</b>
	<b>Bowen No.</b>	32852	32905	47172	33084	33595	47269	33651
<b>PRELOAD SLEEVE</b>	<b>Logan Part No.</b>	<b>P5000</b>	<b>P5001</b>	<b>P5002</b>	<b>P5003</b>	<b>P5004</b>	<b>P5005</b>	<b>P5006</b>
	<b>Bowen No.</b>	32891	45844	47173	47214	33582	47270	47362
<b>SPRING SEAT</b>	<b>Logan Part No.</b>	<b>P6000</b>	<b>P6001</b>	<b>P6002</b>	<b>P6003</b>	<b>P6004</b>	<b>P6005</b>	<b>P6006</b>
	<b>Bowen No.</b>	80149	14209	47174	47215	33583	49254	47363
<b>MAIN SPRING</b>	<b>Logan Part No.</b>	<b>P7000</b>	<b>P7001</b>	<b>P7002</b>	<b>P7003</b>	<b>P7004</b>	<b>P7005</b>	<b>P7006</b>
	<b>Bowen No.</b>	13634	14217	33020	33085	9994	39164	33652
<b>FEED RING</b>	<b>Logan Part No.</b>	<b>P8000</b>	<b>P8001</b>	<b>P8002</b>	<b>P8003</b>	<b>P8004</b>	<b>P8005</b>	<b>P8006</b>
	<b>Bowen No.</b>	13635	32907	47175	33086	33579	47577	33653
<b>SHEAR PIN</b>	<b>Logan Part No.</b>	<b>P9000</b>	<b>P9000</b>	<b>P9002</b>	<b>P9000</b>	<b>P9004</b>	<b>P9004</b>	<b>P9006</b>
	<b>Bowen No.</b>	14205	14205	47578	14205	33580	33580	33654
	<b>No. Req'd</b>	2	2	2	2	2	2	2
<b>KNIFE</b>	<b>Logan Part No.</b>	<b>P10000</b>	<b>P10001</b>	<b>P10002</b>	<b>P10003</b>	<b>P10004</b>	<b>P10004</b>	<b>P10006</b>
	<b>Bowen No.</b>	13637	32909	33023	33088	34553	34553	33655
	<b>No. Req'd</b>	5	5	5	5	5	5	5
<b>KNIFE PIN</b>	<b>Logan Part No.</b>	<b>P11000</b>	<b>P11001</b>	<b>P11002</b>	<b>P11003</b>	<b>P11004</b>	<b>P11004</b>	<b>P11006</b>
	<b>Bowen No.</b>	37015	32910	33024	33089	34554	34554	33656
	<b>No. Req'd</b>	5	5	5	5	5	5	5
<b>KNIFE PIN SET SCREW</b>	<b>Logan Part No.</b>	...	<b>P12001</b>	<b>P12002</b>	<b>P12003</b>	<b>P12004</b>	<b>P12004</b>	<b>P12006</b>
	<b>Bowen No.</b>	...	32911	23687	23664	23703	23703	23685
	<b>No. Req'd</b>	...	5	5	5	5	5	5
<b>GUIDE</b>	<b>Logan Part No.</b>	<b>P13000</b>	<b>P13001</b>	<b>P13002</b>	<b>P13003</b>	<b>P13004</b>	<b>P13005</b>	<b>P13006</b>
	<b>Bowen No.</b>	13628	14203	47176	33093	33584	39169	33660

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### Special Notes:

- (1) Assembly includes one Spring Dog assembly, which differs from Ratchet Pawl or Slip assemblies; see chart above.
- (2) Connections other than API available upon request.
- (3) Single Pawl Spacer is required when using Ratchet Pawl Assembly.

### When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and type of top connection
- (3) Any desired options by name and number
- (4) Any desired spares by name and number

### Recommended Spare Parts:

- (1) 2 sets Knife Pins
- (2) 1 Feed Ring
- (3) 24 Shear Pins
- (4) 6 sets of Knives
- (5) 2 Spring Dog, Ratchet Pawl, or Slip Assemblies
- (6) 1 set Knife Pin Screws

## STANDARD EXTERNAL CUTTERS

<b>TUBING/CASING SIZE TO CUT</b>	1.050 to 1.315 Tbg	1.315 to 2-3/8 Tbg	1.660 to 2-3/8 Tbg	1.900 to 2-7/8 Tbg	2-1/16 to 3-1/2 Tbg	2-3/8 to 3-1/2 Tbg	2 3/8 to 4 Tbg	
<b>MAXIMUM SIZE WILL PASS OVER</b>	1.552	3-1/16	3-1/8	3-3/4	4-1/4	4-1/2	4-3/4	
<b>INSIDE DIAMETER (CUTTER)</b>	1-5/8	3-1/8	3-1/4	3-7/8	4-3/8	4-5/8	4-7/8	
<b>OUTSIDE DIAMETER (CUTTER)</b>	2-5/16	3-7/8	4-1/2	4-11/16	5-5/8	5-7/8	6-1/16	
<b>MINIMUM SIZE HOLE TO RUN IN</b>	2-7/16	4-1/8	4-3/4	4-15/16	5-7/8	6-1/8	6-1/4	
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>410-231</b>	<b>410-388</b>	<b>410-450</b>	<b>410-468</b>	<b>410-563</b>	<b>410-588</b>	<b>410-606</b>
<b>w/SPRING DOG</b>	Bowen No.	32848	47127	47167	47210	47309	47264	47360

## SPRING DOG ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>11000-000</b>	<b>11000-001</b>	<b>11000-002</b>	<b>11000-003</b>	<b>11000-004</b>	<b>11000-005</b>	<b>11000-006</b>
<i>Consists of:</i>	Bowen No.	13629	47131	47177	47216	47313	47271	47365
<b>SPRING DOG BODY</b>	<b>Logan Part No.</b>	<b>P14000</b>	<b>P14001</b>	<b>P14002</b>	<b>P14003</b>	<b>P14004</b>	<b>P14005</b>	<b>P14006</b>
	Bowen No.	13630	47132	47178	47217	47314	47272	47366
<b>SPRING DOG</b>	<b>Logan Part No.</b>	<b>P15000</b>	<b>P15001</b>	<b>P15002</b>	<b>P15003</b>	<b>P15004</b>	<b>P15004</b>	<b>P15006</b>
	Bowen No.	13631	32917	47179	33103	33644	33644	33663
	No. Req'd	6	6	6	6	6	6	6
<b>RIVET</b>	<b>Logan Part No.</b>	<b>P16000</b>	<b>P16001</b>	<b>P16002</b>	<b>P16003</b>	<b>P16004</b>	<b>P16002</b>	<b>P16004</b>
	Bowen No.	13632	45626	47180	45842	44803	47180	44803
	No. Req'd	12	12	12	12	12	12	12

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### Special Notes:

- (1) Assembly includes one Spring Dog assembly, which differs from Ratchet Pawl or Slip assemblies; see chart above.
- (2) Connections other than API available upon request.
- (3) Single Pawl Spacer is required when using Ratchet Pawl Assembly.

### When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and type of top connection
- (3) Any desired options by name and number
- (4) Any desired spares by name and number

### Recommended Spare Parts:

- (1) 2 sets Knife Pins
- (2) 1 Feed Ring
- (3) 24 Shear Pins
- (4) 6 sets of Knives
- (5) 2 Spring Dog, Ratchet Pawl, or Slip Assemblies
- (6) 1 set Knife Pin Screws

## STANDARD EXTERNAL CUTTERS

<b>TUBING/CASING SIZE TO CUT</b>	1.050 to 1.315 Tbg	1.315 to 2-3/8 Tbg	1.660 to 2-3/8 Tbg	1.900 to 2-7/8 Tbg	2-1/16 to 3-1/2 Tbg	2-3/8 to 3-1/2 Tbg	2 3/8 to 4 Tbg	
<b>MAXIMUM SIZE WILL PASS OVER</b>	1.552	3-1/16	3-1/8	3-3/4	4-1/4	4-1/2	4-3/4	
<b>INSIDE DIAMETER (CUTTER)</b>	1-5/8	3-1/8	3-1/4	3-7/8	4-3/8	4-5/8	4-7/8	
<b>OUTSIDE DIAMETER (CUTTER)</b>	2-5/16	3-7/8	4-1/2	4-11/16	5-5/8	5-7/8	6-1/16	
<b>MINIMUM SIZE HOLE TO RUN IN</b>	2-7/16	4-1/8	4-3/4	4-15/16	5-7/8	6-1/8	6-1/4	
<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>410-231</b>	<b>410-388</b>	<b>410-450</b>	<b>410-468</b>	<b>410-563</b>	<b>410-588</b>	<b>410-606</b>
<b>w/SPRING DOG</b>	Bowen No.	32848	47127	47167	47210	47309	47264	47360

## OPTIONAL RATCHET PAWL ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	<b>11000-009</b>	<b>11000-010</b>	<b>11000-011</b>	<b>11000-012</b>	<b>11000-013</b>	<b>11000-014</b>	<b>11000-015</b>
<i>Consists of:</i>	Bowen No.	13666	47138	47181	47218	47315	47275	47367
<b>PAWL BODY</b>	<b>Logan Part No.</b>	<b>P17000</b>	<b>P17001</b>	<b>P17002</b>	<b>P17003</b>	<b>P17004</b>	<b>P17005</b>	<b>P17006</b>
	Bowen No.	13667	47139	47182	47219	47316	47276	47368
<b>RATCHET PAWL</b>	<b>Logan Part No.</b>	<b>P18000</b>	<b>P18001</b>	<b>P18002</b>	<b>P18003</b>	<b>P18004</b>	<b>P18005</b>	<b>P18006</b>
	Bowen No.	13668	32946	47183	47220	47317	47277	47369
	No. Req'd	6	6	6	6	6	6	6
<b>PAWL SPRING</b>	<b>Logan Part No.</b>	<b>P19000</b>	<b>P19001</b>	<b>P19002</b>	<b>P19003</b>	<b>P19002</b>	<b>P19002</b>	<b>P19002</b>
	Bowen No.	14213	15656	14829	18729	14829	14829	14829
	No. Req'd	6	6	6	6	6	6	6
<b>PAWL PIN</b>	<b>Logan Part No.</b>	<b>P20000</b>	<b>P20001</b>	<b>P20002</b>	<b>P20001</b>	<b>P20004</b>	<b>P20005</b>	<b>P20002</b>
	Bowen No.	37011	33128	37019	33128	37031	47253	37019
	No. Req'd	6	6	6	6	6	6	6
<b>SINGLE PAWL SPACER</b>	<b>Logan Part No.</b>	<b>P27000</b>	<b>P27001</b>	<b>P27002</b>	<b>P27003</b>	<b>P27004</b>	<b>P27005</b>	<b>P27006</b>
<i>(See Note 3)</i>	Bowen No.	32890	47141	47190	47227	47326	47286	47378

## OPTIONAL SLIP ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No.</b>	...	<b>11000-019</b>	<b>11000-020</b>	<b>11000-021</b>	<b>11000-022</b>	<b>11000-023</b>	<b>11000-024</b>
<i>Consists of:</i>	Bowen No.	...	47133	47185	47221	47319	47279	47371
<b>SLIP</b>	<b>Logan Part No.</b>	...	<b>P21001</b>	<b>P21002</b>	<b>P21003</b>	<b>P21004</b>	<b>P21005</b>	<b>P21006</b>
	Bowen No.	...	47134	47186	47222	47320	47280	47372
<b>SLIP BOWL</b>	<b>Logan Part No.</b>	...	<b>P22001</b>	<b>P22002</b>	<b>P22003</b>	<b>P22004</b>	<b>P22005</b>	<b>P22006</b>
	Bowen No.	...	47135	47187	47223	47321	47281	47373
<b>SLIP BOWL RETAINER</b>	<b>Logan Part No.</b>	...	<b>P23001</b>	<b>P23002</b>	<b>P23003</b>	<b>P23004</b>	<b>P23005</b>	<b>P23006</b>
	Bowen No.	...	47136	47188	47224	47322	47282	47374
<b>SLIP SPRING</b>	<b>Logan Part No.</b>	...	<b>P24001</b>	<b>P24002</b>	<b>P24003</b>	<b>P24004</b>	<b>P24005</b>	<b>P24006</b>
	Bowen No.	...	47137	47189	47225	47323	47283	47375
<b>SLIP BOWL SHEAR PIN</b>	<b>Logan Part No.</b>	...	<b>P25001</b>	<b>P25001</b>	<b>P25001</b>	<b>P25004</b>	<b>P25004</b>	<b>P25004</b>
	Bowen No.	...	47208	47208	47208	47324	47324	47324
	No. Req'd	...	4	4	4	4	4	4
<b>SLIP ADAPTER</b>	<b>Logan Part No.</b>	...	<b>P26001</b>	<b>P26002</b>	<b>P26003</b>	<b>P26004</b>	<b>P26005</b>	<b>P26006</b>
	Bowen No.	...	47130	47170	47213	47311	47267	47364

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# LOGAN GENERAL CATALOG

OIL TOOLS

## STANDARD EXTERNAL CUTTERS

TUBING/CASING SIZE TO CUT	3-1/2, 4, 4-1/2 & 5 DP	4 to 5-3/4 Csg
MAXIMUM SIZE WILL PASS OVER	6-1/4	6-1/2
INSIDE DIAMETER (CUTTER)	6-3/8	6-5/8
OUTSIDE DIAMETER (CUTTER)	7-5/8	8-1/8
MINIMUM SIZE HOLE TO RUN IN	8-1/4	8-5/8
<b>COMPLETE ASSEMBLY w/SPRING DOG</b>	<b>Logan Part No. 410-763</b> Bowen No. 47422	<b>410-813</b> 47541
<i>Consists of:</i>		
<b>TOP SUB</b>	<b>Logan Part No. P1007</b> Bowen No. 33885	<b>P1008</b> 33959
<b>BODY</b>	<b>Logan Part No. P2007</b> Bowen No. 47423	<b>P2008</b> 47542
<b>THRUST WASHER</b>	<b>Logan Part No. P3007</b> Bowen No. 33887	<b>P3008</b> 33961
<b>THRUST BEARING</b>	<b>Logan Part No. P4007</b> Bowen No. 33888	<b>P4008</b> 33962
<b>PRELOAD SLEEVE</b>	<b>Logan Part No. P5007</b> Bowen No. 47424	<b>P5008</b> 47543
<b>SPRING SEAT</b>	<b>Logan Part No. P6007</b> Bowen No. 49255	<b>P6008</b> 49258
<b>MAIN SPRING</b>	<b>Logan Part No. P7007</b> Bowen No. 33889	<b>P7008</b> 33963
<b>FEED RING</b>	<b>Logan Part No. P8007</b> Bowen No. 33890	<b>P8008</b> 33964
<b>SHEAR PIN</b>	<b>Logan Part No. P9007</b> Bowen No. 33891 No. Req'd 2	<b>P9008</b> 33965 2
<b>KNIFE</b>	<b>Logan Part No. P10004</b> Bowen No. 34553 No. Req'd 5	<b>P10008</b> 44802 5
<b>KNIFE PIN</b>	<b>Logan Part No. P11004</b> Bowen No. 34554 No. Req'd 5	<b>P11008</b> 33966 5
<b>KNIFE PIN SET SCREW</b>	<b>Logan Part No. P12004</b> Bowen No. 23703 No. Req'd 5	<b>P12008</b> 23705 5
<b>GUIDE</b>	<b>Logan Part No. P13007</b> Bowen No. 33897	<b>P13008</b> 33969

TUBING/CASING SIZE TO CUT	3-1/2, 4, 4-1/2 & 5 DP	4 to 5-3/4 Csg
MAXIMUM SIZE WILL PASS OVER	6-1/4	6-1/2
INSIDE DIAMETER (CUTTER)	6-3/8	6-5/8
OUTSIDE DIAMETER (CUTTER)	7-5/8	8-1/8
MINIMUM SIZE HOLE TO RUN IN	8-1/4	8-5/8

## SPRING DOG ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	<b>Logan Part No. 11000-007</b> <i>Consists of:</i> Bowen No. 33949	<b>11000-008</b> 47545
<b>SPRING DOG BODY</b>	<b>Logan Part No. P14007</b> Bowen No. 33950	<b>P14008</b> 47546
<b>SPRING DOG</b>	<b>Logan Part No. P15007</b> Bowen No. 50192 No. Req'd 6	<b>P15007</b> 50192 6
<b>RIVET</b>	<b>Logan Part No. P16004</b> Bowen No. 44803 No. Req'd 12	<b>P16008</b> 50191 12

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### Special Notes:

- (1) Assembly includes one Spring Dog Assembly which differs from Ratchet Pawl or Slip Assemblies. See table on next page.
- (2) Connections other than API available upon request.
- (3) Single Pawl Spacer is required when using Ratchet Pawl Assembly. It is not included in the Complete Assembly.

### When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and type of top connection
- (3) Any desired options by name and number
- (4) Any desired spares by name and number

### Recommended Spare Parts:

- (1) 2 sets Knife Pins
- (2) 1 Feed Ring
- (3) 24 Shear Pins
- (4) 6 sets of Knives
- (5) 2 Spring Dog, Ratchet Pawl, or Slip Assemblies
- (6) 1 set Knife Pin Screws

## STANDARD EXTERNAL CUTTERS

TUBING/CASING SIZE TO CUT	3-1/2, 4, 4-1/2 & 5 DP	4 to 5-3/4 Csg
MAXIMUM SIZE WILL PASS OVER	6-1/4	6-1/2
INSIDE DIAMETER (CUTTER)	6-3/8	6-5/8
OUTSIDE DIAMETER (CUTTER)	7-5/8	8-1/8
MINIMUM SIZE HOLE TO RUN IN	8-1/4	8-5/8

TUBING/CASING SIZE TO CUT	3-1/2, 4, 4-1/2 & 5 DP	4 to 5-3/4 Csg
MAXIMUM SIZE WILL PASS OVER	6-1/4	6-1/2
INSIDE DIAMETER (CUTTER)	6-3/8	6-5/8
OUTSIDE DIAMETER (CUTTER)	7-5/8	8-1/8
MINIMUM SIZE HOLE TO RUN IN	8-1/4	8-5/8

## OPTIONAL RATCHET PAWL ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	Logan Part No.	11000-016	11000-017
Consists of:	Bowen No.	47426	47547
<b>PAWL BODY</b>	Logan Part No.	P17007	P17008
	Bowen No.	47427	47548
<b>RATCHET PAWL</b>	Logan Part No.	P18007	P18008
	Bowen No.	47428	47549
	No. Req'd	6	6
<b>PAWL SPRING</b>	Logan Part No.	P19002	P19008
	Bowen No.	14829	47443
	No. Req'd	6	6
<b>PAWL PIN</b>	Logan Part No.	P20004	P20008
	Bowen No.	37031	47550
	No. Req'd	6	6
<b>SINGLE PAWL SPACER</b>	Logan Part No.	P27007	P27008
(See Note 3)	Bowen No.	47437	47557

## OPTIONAL SLIP ASSEMBLY

<b>COMPLETE ASSEMBLY</b>	Logan Part No.	11000-025	11000-026
Consists of:	Bowen No.	47430	47551
<b>SLIP</b>	Logan Part No.	P21007	P21008
	Bowen No.	47431	47552
<b>SLIP BOWL</b>	Logan Part No.	P22007	P22008
	Bowen No.	47432	47553
<b>SLIP BOWL RETAINER</b>	Logan Part No.	P23007	P23008
	Bowen No.	47433	47554
<b>SLIP SPRING</b>	Logan Part No.	P24007	P24008
	Bowen No.	47434	47556
<b>SLIP BOWL SHEAR PIN</b>	Logan Part No.	P25007	P25008
	Bowen No.	47435	47555
	No. Req'd	4	4
<b>SLIP ADAPTER</b>	Logan Part No.	P26007	P26008
	Bowen No.	47425	47544

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

### Special Notes:

- (1) Assembly includes one Spring Dog Assembly which differs from Ratchet Pawl or Slip Assemblies. See table on next page.
- (2) Connections other than API available upon request.
- (3) Single Pawl Spacer is required when using Ratchet Pawl Assembly. It is not included in the Complete Assembly.

### When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Size and type of top connection
- (3) Any desired options by name and number
- (4) Any desired spares by name and number

### Recommended Spare Parts:

- (1) 2 sets Knife Pins
- (2) 1 Feed Ring
- (3) 24 Shear Pins
- (4) 6 sets of Knives
- (5) 2 Spring Dog, Ratchet Pawl, or Slip Assemblies
- (6) 1 set Knife Pin Screws