

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears



OVERVIEW

Logan Full Circle Releasing Spears are used to internally engage and retrieve all sizes of tubing, drill pipe, and casing. It may be used with internal cutters for cut and pull operations. Full Circle Releasing Spears are designed to evenly distribute expansion strain over a long vertical section of a fish and ensure positive internal engagement. The design of the slips and the effect of the body tapers upon the slips permits tremendous pulling and jarring strains with no danger of distortion to the fish.

CONSTRUCTION

The Logan Full Circle Releasing Spear consists of a body, sleeve (integral with body), slip, unitizer, stop, safety ring, friction block, retainer screw and retainer set, and a mill type nut. Sub, bullnose, and sidehill type nuts are also available. The size and type of the upper box connection is furnished according to customer specification. Construction of the Full Circle Releasing Spear varies slightly according to size. Tubing and drill pipe Spears with four-inch nominal tubing and above, and all casing Spears, utilize Friction Block Assemblies as the friction grip mechanism.

Body

The body has a series of large tapers on the outside diameter that match similar tapers on the inside of the slips. During operation, the tapers cause the slips to expand and contact the fish. Lugs near the upper end of the body hold the upper ends of the slips in position.

Slips

The design of the full circle slips allows easy entry into or withdrawal from the fish. The slips form an almost complete diameter when retracted resulting in more slip engagement than most other spears. This design feature reduces any distortion to the fish.

Unitizer

The lower ends of the slips are held in position by the unitizer that fits around the lower end of the body. The unitizer is kept in place by the stop, safety ring, and nut at the lower end of the body.

Safety Ring

The safety ring prevents the Spear from entering a fish with an inside diameter that is too small for the retracted slips to enter.

Friction Blocks

The friction grip mechanism is a friction block assembly that includes inner and outer block springs. Friction blocks and springs contact the inner wall of the fish and hold the unitizer, retainer set, and slips in place until the shoulders of the tapers on the downwardly traveling body contact the ends of the slips and the assembly is pushed into the fish to the desired depth.

Nut

The nut guides the Spear into the fish. A mill type nut is used to cut away the distorted end of a fish to ensure that the Spear enters the fish. If the fish is embedded in the side wall of a hole or is badly out of line, a sidehill type nut can be used to align the Spear to the fish. When the use of other tools is required below the Spear, such as an internal cutter, a sub type nut can provide the necessary connection.

Assembly

Connect the Spear to the bottom of the fishing string. The Spear should be in the retracted position with the upper and lower end of the slips engaged with the lugs on the body and the unitizer. The retracted slips will not engage the pipe as the Spear is run in.

ENGAGING AND PULLING THE FISH

Slowly lower the fishing string until the Spear enters the fish at the desired depth. Rotate the fishing string at least one-sixth of a turn to the left for a left-hand spear (to the right for a right-hand spear). In deep or crooked holes, it may be necessary to rotate the string more than one-sixth of a turn. Additional rotation will not harm the operation of the Spear. Pull on the fish by raising the fishing string.

RELEASING THE FISH

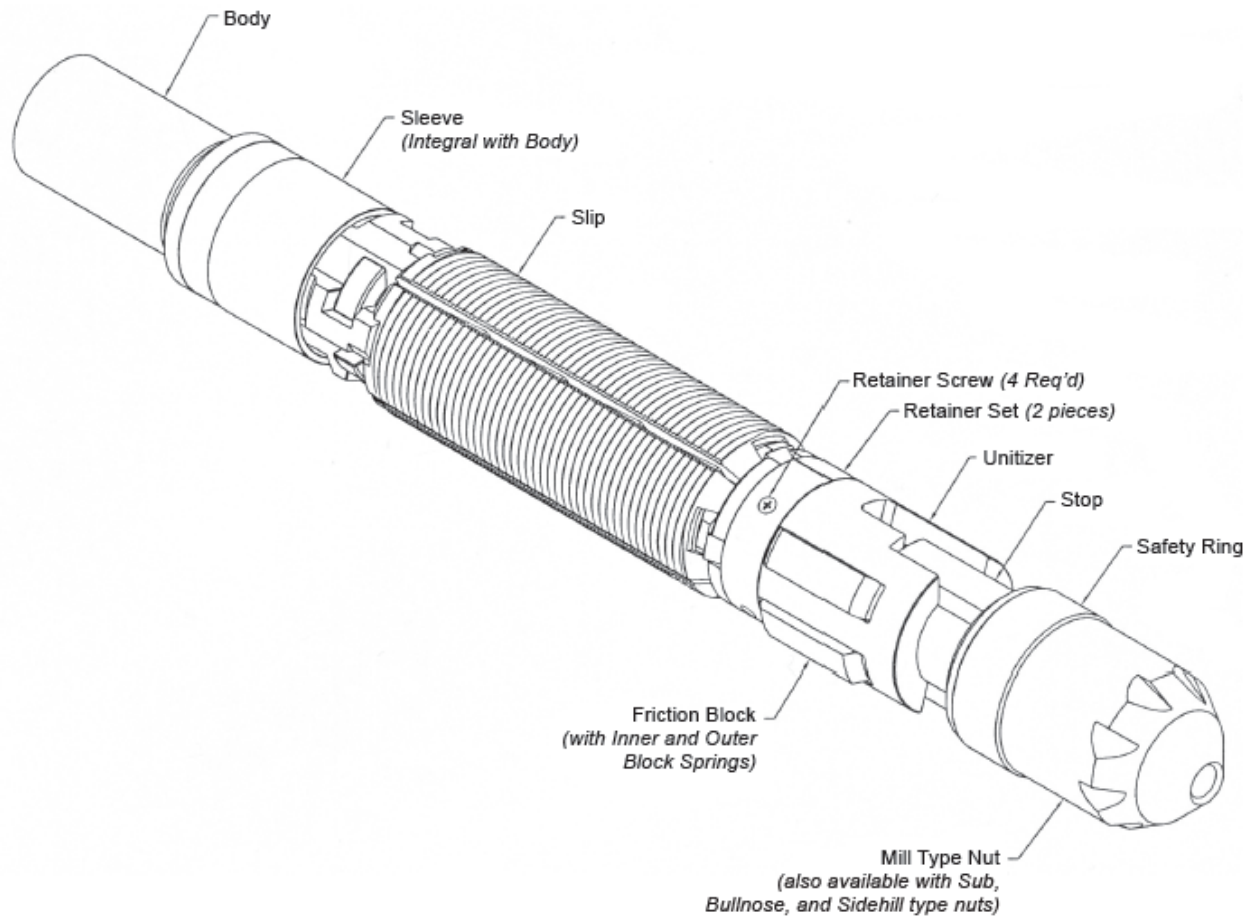
Bump down the full weight of the fishing string. Rotate the string at least one-sixth of a turn to the right for left-hand spears (to the left for right-hand spears). In deep or crooked holes, it may be necessary to rotate the string more than one-sixth of a turn. Additional rotation will not harm the operation of the Spear. Elevate the fishing string until it clears the fish. If the Spear will not release from the fish, bump down, and then simultaneously rotate the string to the right and slowly raise the string until the Spear clears the fish. It is important to combine rotation with elevation.

When ordering, please specify:

- Complete assembly or part number
- Size and type of top connection
- Size and type of fish to be caught

PRODUCT LINEFishing & Intervention | Internal
Catch**PRODUCT**

Full Circle Releasing Spears

**INNOVEX**
LOGAN FISHING TOOLS**Optional Nuts**

Bullnose Type Nut



Sidehill Type Nut



Sub Type Nut

PRODUCT LINE
PRODUCT

INNOVEX
LOGAN FISHING TOOLS

Fishing & Intervention | Internal
Catch

Full Circle Releasing Spears

Nominal Size		2-.3/8 DP	2-3/8 Tbg	2-7/8 DP	2-7/8 Tbg	3-1/2 DP	3-1/2 Tbg	4 DP
Recommend Catching Range *		2-3/8 DP	2-3/8 Tbg	2-7/8 DP	2-7/8 Tbg	3-1/2 DP	3-1/2 Tbg	4 DP
OD Smallest Slips Retracted		1-11/16	1-29/32	2	2-5/16	2-7/16	2-13/16	3-3/32
Expansion Slips Over Safety Ring		11/32	11/32	3/8	3/8	13/32	13/32	15/32
Slip Engagement Area (Sq inches)		55	59	74	87	95	115	126
Complete Assembly	Logan Part No.	204-000	204-001	204-002 †	204-003 ††	204-004	204-005	204-006
	Bowen No.	6175	6693	6246	6684	7640	6701	7648
Top Sub	Logan Part No.	AV1000	AV1001	AV1002	AV1003	AV1004	AV1005	AV1006
(Includes Protector)	Bowen No.	6176	5858	6247	5774	6363	6702	6676
Protector	Logan Part No.	AV2000	AV2001	AV2002	AV2003	AV2004	AV2005	AV2006
	Bowen No.	6176-1	5858-1	6247-1	5774-1	6363-1	6702-1	6676-1
Body	Logan Part No.	AV3000	AV3001	AV3002	AV3003	AV3004	AV3005	AV3006
	Bowen No.	6177	6694	6248	6685	7641	6703	7649
Slip	Logan Part No.	AV4000	AV4001	AV4002	AV4003	AV4004	AV4005	AV4006
(Includes Fingers)	Bowen No.	6178	6695	3249	6686	C7642	6704	7650
	No. Req'd	3	3	3	3	3	3	3
Unitizer	Logan Part No.	AV5000	AV5001	AV5002	AV5003	AV5004	AV5005	-
	Bowen No.	6179	6696	6250	6687	A7643	A6705	-
Friction Retainer	Logan Part No.	AV6000	AV6001	AV6002	AV6003	AV6004	AV6005	-
(Includes Springs)	Bowen No.	6546F	6697F	A6542F	6688F	7644F	A6706F	-
Friction Retainer	Logan Part No.	AV7000	AV7000	AV7000	AV7000	AV7000	AK9004-001	-
Screws	Bowen No.	6423	6423	6423	6423	6423	23508	-
	No. Req'd	4	4	4	4	4	4	-
Friction Retainer	Logan Part No.	AV8000	AV8000	AV8001	AV8001	AV8002	AV8002	-
Springs	Bowen No.	8951	8951	8945	8945	A8952	A8952	-
	No. Req'd	8	8	10	10	12	12	-
Friction Block Assembly	Logan Part No.	-	-	-	-	-	-	AV90000
	Bowen No.	-	-	-	-	-	-	14931
Consists of:								
Unitizer	Logan Part No.	-	-	-	-	-	-	AV10000
	Bowen No.	-	-	-	-	-	-	14932
Retainer Set	Logan Part No.	-	-	-	-	-	-	AV11000
(2 Pieces)	Bowen No.	-	-	-	-	-	-	14633
Friction Block	Logan Part No.	-	-	-	-	-	-	AV12000
	Bowen No.	-	-	-	-	-	-	14934
	No. Req'd	-	-	-	-	-	-	2
Retainer Screw	Logan Part No.	-	-	-	-	-	-	AV13000
	Bowen No.	-	-	-	-	-	-	15964
	No. Req'd	-	-	-	-	-	-	4
Outer Block Spring	Logan Part No.	-	-	-	-	-	-	AV14000
	Bowen No.	-	-	-	-	-	-	14935
	No. Req'd	-	-	-	-	-	-	4
Inner Block Spring	Logan Part No.	-	-	-	-	-	-	AV15000
	Bowen No.	-	-	-	-	-	-	14936
	No. Req'd	-	-	-	-	-	-	4
Stop	Logan Part No.	AV16000	AV16001	AV16002	AV16003	AV16004	AV16005	AV16006
	Bowen No.	7638	6961	7639	A7452	A7645	7647	7653
Safety Ring	Logan Part No.	AV17000	AV17001	AV17002	AV17003	AV17004	AV17005	AV17006
	Bowen No.	6547	6545	6543	6424	6541	6707	6681
Nut	Logan Part No.	AV18000	AV18001	AV18002	AV18003	AV18004	AV18005	AV18006
	Bowen No.	6180	5864	6251	6345	6267	6708	6682
Nut Set Screw	Logan Part No.	AV19000	AV19000	AV19001	AV19001	AV19001	AV19002	AV19003
	Bowen No.	23330	23330	17762	17762	17762	23358	23345
	No. Req'd	2	2	2	2	2	2	2

Innovex reserves the right to change or discontinue designs without prior notice.

† 204-002 dressed for 2-7/8" 8.7 lb tubing will not go in completely. The top sub O.D. is 3-5/8" and will not fit into tubing.

†† 204-003 dressed for 2-7/8" 8.7 lb tubing will not go in completely. The top sub O.D. is 2-5/16" and will not fit into tubing.

For more information: visit www.innovex-inc.com or contact your local sales office

Domestic and international patents and trademarks granted and/or applied for where applicable

REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

Nominal Size		2-3/8 DP	2-3/8 Tbg	2-7/8 DP	2-7/8 Tbg	3-1/2 DP	3-1/2 Tbg	4 DP
Recommend Catching Range *		2-3/8 DP	2-3/8 Tbg	2-7/8 DP	2-7/8 Tbg	3-1/2 DP	3-1/2 Tbg	4 DP
OD Smallest Slips Retracted		1-11/16	1-29/32	2	2-5/16	2-7/16	2-13/16	3-3/32
Expansion Slips Over Safety Ring		11/32	11/32	3/8	3/8	13/32	13/32	15/32
Slip Engagement Area (Sq inches)		55	59	74	87	95	115	126
Complete Assembly	Logan Part No.	204-000	204-001	204-002 †	204-003 ††	204-004	204-005	204-006
	Bowen No.	6175	6693	6246	6684	7640	6701	7648

OPTIONAL COMPONENTS

Unitizer	Logan Part No.	-	-	-	-	-	-	AV20000
	Bowen No.	-	-	-	-	-	-	7651
Friction Retainer	Logan Part No.	-	-	-	-	-	-	AV21000
(Includes Springs)	Bowen No.	-	-	-	-	-	-	7652F
Friction Retainer	Logan Part No.	-	-	-	-	-	-	AV22000
Screws	Bowen No.	-	-	-	-	-	-	23508
	No. Req'd	-	-	-	-	-	-	4
Friction Retainer	Logan Part No.	-	-	-	-	-	-	AV23000
Springs	Bowen No.	-	-	-	-	-	-	A8953
	No. Req'd	-	-	-	-	-	-	12
Friction Block	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-

OPTIONAL ACCESSORIES

Safety Ring Pack-Off	Logan Part No.	-	-	-	-	-	-	AV10000
	Bowen No.	-	-	-	-	-	-	14932
Extension (3 ft long)	Logan Part No.	-	-	-	-	-	-	AV11000
	Bowen No.	-	-	-	-	-	-	14633
Mill Type Nut	Logan Part No.	-	-	-	-	-	-	AV12000
	Bowen No.	-	-	-	-	-	-	14934
Sub Type Nut	Logan Part No.	-	-	-	-	-	-	AV13000
	Bowen No.	-	-	-	-	-	-	15964
Sidehill Type Nut	Logan Part No.	-	-	-	-	-	-	AV14000
	Bowen No.	-	-	-	-	-	-	14935

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

PRODUCT LINE
PRODUCT

INNOVEX
 LOGAN FISHING TOOLS

 Fishing & Intervention | Internal
 Catch

Full Circle Releasing Spears

Nominal Size		4 Tbg	4-1/2 DP	5-1/2 DP	4-1/2 Csg	5 Csg	5-1/2 Csg	6 Csg
Recommend Catching Range *		4 Tbg	4-1/2 & 5-9/16 DP	5-1/2 & 5 DP	4-1/2 & 4-3/4 Csg	5 Csg	5-1/2 Csg	6 Csg
OD Smallest Slips Retracted		3-5/16	3-15/32	4-1/2	3-25/32	4	4-1/2	5-1/2
Expansion Slips Over Safety Ring		15/32	1/2	9/16	1/2	1/2	9/16	9/16
Slip Engagement Area (Sq inches)		136	178	265	210	217	265	315
Complete Assembly	Logan Part No.	204-007	204-008	204-009	204-010	204-011	204-012	204-013
	Bowen No.	6710	6715	6723	10536	9337	9342	9347
Top Sub	Logan Part No.	AV1007	AV1008	AV1009	-	-	-	-
(Includes Protector)	Bowen No.	5839	6270	6277	-	-	-	-
Protector	Logan Part No.	AV2007	AV2008	AV2008	-	-	-	-
	Bowen No.	5839-1	6270-1	6277-1	-	-	-	-
Body	Logan Part No.	AV3007	AV3008	AV3009	AV3010	3011AV	AV3012	AV3013
	Bowen No.	6711	6716	6724	10537	C9338	9343	9348
Slip	Logan Part No.	AV4007	AV4008	AV4009	AV4010	AV4011	AV4012	AV4013
(Includes Fingers)	Bowen No.	6712	6717	6725	10538	9339	9344	9349
	No. Req'd	3	3	4	3	3	4	4
Unitizer	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
(Includes Springs)	Bowen No.	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
Screws	Bowen No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
Springs	Bowen No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

 For more information: visit www.innovex-inc.com or contact your local sales office

Domestic and international patents and trademarks granted and/or applied for where applicable

REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE
PRODUCT

INNOVEX
LOGAN FISHING TOOLS

Fishing & Intervention | Internal
Catch

Full Circle Releasing Spears

Nominal Size	4 Tbg	4-1/2 DP	5-1/2 DP	4-1/2 Csg	5 Csg	5-1/2 Csg	6 Csg
Recommend Catching Range *	4 Tbg	4-1/2 & 5-9/16 DP	5-1/2 & 5 DP	4-1/2 & 4-3/4 Csg	5 Csg	5-1/2 Csg	6 Csg
OD Smallest Slips Retracted	3-5/16	3-15/32	4-1/2	3-25/32	4	4-1/2	5-1/2
Expansion Slips Over Safety Ring	15/32	1/2	9/16	1/2	1/2	9/16	9/16
Slip Engagement Area (Sq inches)	136	178	265	210	217	265	315
Complete Assembly	Logan Part No.	204-007	204-008	204-009	204-010	204-011	204-012
	Bowen No.	6710	6715	6723	10536	9337	9342
Friction Block Assembly	Logan Part No.	AV90001	AV90002	AV90003	AV90004	AV90005	AV90006
	Bowen No.	14901	14937	14838	14923	14943	14949
Consists of:							
Unitizer	Logan Part No.	AV10001	AV10002	AV10003	AV10004	AV10005	AV10007
	Bowen No.	14902	14938	14839	14924	14944	14962
Retainer Set (2 Pieces)	Logan Part No.	AV11001	AV11002	AV11003	AV11004	AV11005	AV11006
	Bowen No.	14903	14939	14841	14925	14945	14841
Friction Block	Logan Part No.	AV12001	AV12002	AV12003	AV12004	AV12005	AV12006
	Bowen No.	14904	14940	14840	14927	14946	14840
	No. Req'd	2	2	4	2	2	4
Retainer Screw	Logan Part No.	AV13001	AV13000	AV13002	AV13000	AV13002	AV13002
	Bowen No.	23108	15964	25214	15964	25214	25214
	No. Req'd	4	4	4	4	4	4
Outer Block Spring	Logan Part No.	AV14001	AV14002	AV14003	AV14004	AV14005	AV14006
	Bowen No.	14919	14941	14842	14926	14947	14842
	No. Req'd	4	4	8	2	2	4
Inner Block Spring	Logan Part No.	AV15001	AV15002	AV15003	AV15004	AV15005	AV15006
	Bowen No.	14920	14942	14837	16589	14948	14837
	No. Req'd	4	4	8	2	2	4
Stop	Logan Part No.	AV16007	AV16008	AV16009	AV16010	AV16011	AV16009
	Bowen No.	7654	7655	7454	A7603	A7580	7454
Safety Ring	Logan Part No.	AV17007	AV17008	AV17012	AV17010	AV17011	AV17012
	Bowen No.	6539	6720	6485	6733	7581	6485
Nut	Logan Part No.	AV18007	AV18008	AV18012	AV18010	AV18011	AV18012
	Bowen No.	5729	6721	6483	6376	7582	6483
Nut Set Screw	Logan Part No.	AV19004	AV19005	AV19006	AV19005	AV19005	AV19006
	Bowen No.	23366	23368	23379	23368	23368	23379
	No. Req'd	2	2	2	2	2	2

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

For more information: visit www.innovex-inc.com or contact your local sales office

Domestic and international patents and trademarks granted and/or applied for where applicable

REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE
PRODUCT

INNOVEX
LOGAN FISHING TOOLS

Fishing & Intervention | Internal
Catch

Full Circle Releasing Spears

Nominal Size	4 Tbg	4-1/2 DP	5-1/2 DP	4-1/2 Csg	5 Csg	5-1/2 Csg	6 Csg
Recommend Catching Range *	4 Tbg	4-1/2 & 5-9/16 DP	5-1/2 & 5 DP	4-1/2 & 4-3/4 Csg	5 Csg	5-1/2 Csg	6 Csg
OD Smallest Slips Retracted	3-5/16	3-15/32	4-1/2	3-25/32	4	4-1/2	5-1/2
Expansion Slips Over Safety Ring	15/32	1/2	9/16	1/2	1/2	9/16	9/16
Slip Engagement Area (Sq inches)	136	178	265	210	217	265	315
Complete Assembly	Logan Part No.	204-007	204-008	204-009	204-010	204-011	204-012
	Bowen No.	6710	6715	6723	10536	9337	9342

OPTIONAL COMPONENTS

Unitizer	Logan Part No.	AV20001	AV20002	AV20003	AV20004	AV20005	AV20006	AV20007
	Bowen No.	B6713	6718	3726	10539	B9340	9345	9350
Friction Retainer	Logan Part No.	AV21001	AV21002	AV21003	AV21004	AV21005	AV21006	AV21007
(Includes Springs)	Bowen No.	6714F	6719F	6727F	10540	9341	9346	9351
Friction Retainer	Logan Part No.	AV22000	AV22000	AV22001	AV22001	AV22001	AV22001	AV22002
Screws	Bowen No.	23508	23508	25214	25214	25214	25214	23518
	No. Req'd	4	4	4	4	4	4	4
Friction Retainer	Logan Part No.	AV23000	AV23000	AV23001	AV23002	AV23002	AV23002	AV23003
Spring	Bowen No.	A8953	A8953	9818	10541	10541	10541	9606
	No. Req'd	12	14	16	14	14	16	18
Friction Block	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-

OPTIONAL ACCESSORIES

Safety Ring Pack-Off	Logan Part No.	AV25007	AV25008	AV25009	AV25010	AV25011	AV25009	AV25012
	Bowen No.	5730	3722	3484	3734	A7583	6484	6041
Extension (3 ft long)	Logan Part No.	AV26007	AV26008	AV26009	-	-	-	-
	Bowen No.	5839-6711	6270-6716	3277-6724	-	-	-	-
Mill Type Nut	Logan Part No.	AV18007-A	AV18008-A	AV18009-A	AV18010-A	AV18011-A	AV18012-A	AV18013-A
	Bowen No.	5729A	6721A	6483A	6376A	7582A	6483A	6040A
Sub Type Nut	Logan Part No.	AV18007-B	AV18008-B	AV18009-B	AV18010-B	AV18011-B	AV18012-B	AV18013-B
	Bowen No.	5729B	6721B	6483B	6376B	7582B	6483B	6040B
Sidehill Type Nut	Logan Part No.	AV18007-C	AV18008-C	AV18009-C	AV18010-C	AV18011-C	AV18012-C	AV18013-C
	Bowen No.	5729C	6721C	6483C	6376C	7582C	6483C	6040C

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

For more information: visit www.innovex-inc.com or contact your local sales office

Domestic and international patents and trademarks granted and/or applied for where applicable

REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE
PRODUCT

INNOVEX
LOGAN FISHING TOOLS

Fishing & Intervention | Internal
Catch

Full Circle Releasing Spears

Nominal Size		6-5/8 Csg	7 Csg	7-5/8 Csg	8-5/8 Csg	9-5/8 Csg	10-3/4 Csg	11-3/4 Csg
Recommend Catching Range *		6-5/8 Csg	7 Csg	7-5/8 & 9 Csg	8-5/8 & 10 Csg	9-5/8 Csg	10-3/4 & 12 Csg	11-3/4 Csg
OD Smallest Slips Retracted		5-1/2	5-3/4	6-7/16	7-1/4	8-3/16	9-1/2	10-9/16
Expansion Slips Over Safety Ring		5/8	5/8	5/8	11/16	3/4	13/16	13/16
Slip Engagement Area (Sq inches)		350	365	430	485	580	690	785
Complete Assembly	Logan Part No.	204-014	204-015	204-016	204-017	204-018	204-019	204-020
	Bowen No.	9796	9352	10608	6318	10473	6067	6073
Top Sub	Logan Part No.	-	-	-	-	-	-	-
(Includes Protector)	Bowen No.	-	-	-	-	-	-	-
Protector	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-
Body	Logan Part No.	AV3014	AV3015	AV3016	AV3017	AV3018	AV3019	AV3020
	Bowen No.	9797	9353	10609	6319	10474	6068	6074
Slip	Logan Part No.	AV4014	AV4015	AV4016	AV4017	AV4018	AV4019	AV4020
(Includes Fingers)	Bowen No.	9798	9354	10610	6320	10475	6069	6075
	No. Req'd	4	4	4	4	4	6	6
Unitizer	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
(Includes Springs)	Bowen No.	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
Screws	Bowen No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-
Friction Retainer	Logan Part No.	-	-	-	-	-	-	-
Spring	Bowen No.	-	-	-	-	-	-	-
	No. Req'd	-	-	-	-	-	-	-
Friction Block Assembly	Logan Part No.	AV90008	AV90009	AV90010	AV90011	AV90012	AV90013	AV90014
	Bowen No.	14956	14958	14964	14970	14976	14981	14986
Consists of:								
Unitizer	Logan Part No.	AV10008	AV10009	AV10010	AV10011	AV10012	AV10013	AV10014
	Bowen No.	14957	14959	14965	14971	14977	14982	14987
Retainer Set	Logan Part No.	AV11008	AV11009	AV11010	AV11011	AV11012	AV11013	AV11014
(2 Pieces)	Bowen No.	14834	14960	14966	14972	14978	14983	14988
Friction Block	Logan Part No.	AV12008	AV12009	AV12010	AV12011	AV12012	AV12013	AV12014
	Bowen No.	14835	14961	14967	14973	14979	14984	14989
	No. Req'd	4	4	4	4	4	4	6
Retainer Screw	Logan Part No.	AV13001	AV13001	AV13004	AV13004	AV13004	AV13004	AV13004
	Bowen No.	23108	23108	25221	25221	25221	25221	25221
	No. Req'd	4	4	4	4	4	4	4
Outer Block Spring	Logan Part No.	AV14008	AV14008	AV14009	AV14010	AV14011	AV14011	AV14014
	Bowen No.	14836	14836	14968	14974	17694	17694	14990
	No. Req'd	8	8	8	8	12	12	18
Inner Block Spring	Logan Part No.	AV15006	AV15006	AV15008	AV15009	AV15010	AV15010	-
	Bowen No.	14837	14837	14969	14975	11816	11816	-
	No. Req'd	8	8	8	8	12	12	-
Stop	Logan Part No.	AV16013	AV16014	AV16015	AV16016	AV16018	AV16017	AV16019
	Bowen No.	B6965	7609	7626	7494	7531	7627	7628
Safety Ring	Logan Part No.	AV17014	AV17015	AV17016	AV17017	AV17018	AV17019	AV17020
	Bowen No.	6488	6522	6524	6528	6531	6533	6535
Nut	Logan Part No.	AV18014	AV18015	AV18016	AV18017	AV18018	AV18019	AV18020
	Bowen No.	6108	6046	6054	6321	6062	6071	6079
Nut Set Screw	Logan Part No.	AV19006	AV19006	AV19007	AV19007	AV19007	AV19008	AV19008
	Bowen No.	23379	23379	23386	23386	23386	41056	41056
	No. Req'd	2	2	2	2	2	2	2

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

For more information: visit www.innovex-inc.com or contact your local sales office
Domestic and international patents and trademarks granted and/or applied for where applicable
REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE

 Fishing & Intervention | Internal
Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
LOGAN FISHING TOOLS

Nominal Size		6-5/8 Csg	7 Csg	7-5/8 Csg	8-5/8 Csg	9-5/8 Csg	10-3/4 Csg	11-3/4 Csg
Recommend Catching Range *		6-5/8 Csg	7 Csg	7-5/8 & 9 Csg	8-5/8 & 10 Csg	9-5/8 Csg	10-3/4 & 12 Csg	11-3/4 Csg
OD Smallest Slips Retracted		5-1/2	5-3/4	6-7/16	7-1/4	8-3/16	9-1/2	10-9/16
Expansion Slips Over Safety Ring		5/8	5/8	5/8	11/16	3/4	13/16	13/16
Slip Engagement Area (Sq inches)		350	365	430	485	580	690	785
Complete Assembly	Logan Part No.	204-014	204-015	204-016	204-017	204-018	204-019	204-020
	Bowen No.	9796	9352	10608	6318	10473	6067	6073

OPTIONAL COMPONENTS

Unitizer	Logan Part No.	AV20008	AV20009	AV20010	AV20011	AV20012	AV20013	AV20014
	Bowen No.	9799	9355	10611	7493	10476	6070	6078
Friction Retainer (Includes Springs)	Logan Part No.	AV21008	AV21009	AV21010	AV21011	AV21012	AV21013	AV21014
	Bowen No.	9800	9356	10612	7495F	B10477	6532F	6534
Friction Retainer Screws	Logan Part No.	AV22003	AV22003	AV22004	AV22004	AV22004	AV22004	AV22004
	Bowen No.	6964	6964	25175	25175	25175	25175	25175
	No. Req'd	4	4	4	4	4	4	4
Friction Retainer Springs	Logan Part No.	AV23003	AV23003	AV23004	AV23005	AV23005	AV23011	AV23012
	Bowen No.	9606	9606	10613	8948	8948	A9631	9631
	No. Req'd	18	20	16	14	16	16	18
Friction Block	Logan Part No.	-	-	-	AV2400	-	-	AV24001
	Bowen No.	-	-	-	15001	-	-	15000

OPTIONAL ACCESSORIES

Safety Ring Pack-Off	Logan Part No.	AV25013	AV25015	AV25014	AV25016	AV25017	AV25018	AV25019
	Bowen No.	6487	6047	6055	6529	6063	6072	6080
Extension (3 ft long)	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-
Mill Type Nut	Logan Part No.	AV18014-A	AV18015-A	AV18016-A	AV18017-A	AV18018-A	AV18019-A	AV18020-A
	Bowen No.	6108A	6046A	6054A	6321A	6062A	6071A	6079A
Sub Type Nut	Logan Part No.	AV18014-B	AV18015-B	AV18016-B	AV18017-B	AV18018-B	AV18019-B	AV18020-B
	Bowen No.	6108B	6046B	6054B	6321B	6062B	6071B	6079B
Sidehill Type Nut	Logan Part No.	AV18014-C	AV18015-C	AV18016-C	AV18017-C	AV18018-C	AV18019-C	AV18020-C
	Bowen No.	6108C	6046C	6054C	6321C	6062C	6071C	6079C

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

 For more information: visit www.innovex-inc.com or contact your local sales office

Domestic and international patents and trademarks granted and/or applied for where applicable

REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINE
PRODUCT

INNOVEX
LOGAN FISHING TOOLS

Fishing & Intervention | Internal
Catch

Full Circle Releasing Spears

Nominal Size	13-3/8 Csg						
Recommend Catching Range *	13 to 13-3/8 Csg						
OD Smallest Slips Retracted	12						
Expansion Slips Over Safety Ring	13/16						
Slip Engagement Area (Sq inches)	890						
Complete Assembly	Logan Part No.	204-021					
	Bowen No.	6081					
Top Sub	Logan Part No.	-					
(Includes Protector)	Bowen No.	-					
Protector	Logan Part No.	-					
	Bowen No.	-					
Body	Logan Part No.	AV3021					
	Bowen No.	6082					
Slip	Logan Part No.	AV4021					
(Includes Fingers)	Bowen No.	6083					
	No. Req'd	6					
Unitizer	Logan Part No.	-					
	Bowen No.	-					
Friction Retainer	Logan Part No.	-					
(Includes Springs)	Bowen No.	-					
Friction Retainer	Logan Part No.	-					
Screws	Bowen No.	-					
	No. Req'd	-					
Friction Retainer	Logan Part No.	-					
Spring	Bowen No.	-					
	No. Req'd	-					
Friction Block Assembly	Logan Part No.	AV90015					
	Bowen No.	14991					
Consists of:							
Unitizer	Logan Part No.	AV10015					
	Bowen No.	14992					
Retainer Set	Logan Part No.	AV11015					
(2 Pieces)	Bowen No.	14993					
Friction Block	Logan Part No.	AV12015					
	Bowen No.	14994					
	No. Req'd	6					
Retainer Screw	Logan Part No.	AV13004					
	Bowen No.	25221					
	No. Req'd	4					
Outer Block Spring	Logan Part No.	AV14015					
	Bowen No.	14996					
	No. Req'd	18					
Inner Block Spring	Logan Part No.	-					
	Bowen No.	-					
	No. Req'd	-					
Stop	Logan Part No.	AV16020					
	Bowen No.	7629					
Safety Ring	Logan Part No.	AV17021					
	Bowen No.	6537					
Nut	Logan Part No.	AV18021					
	Bowen No.	6087					
Nut Set Screw	Logan Part No.	AV19008					
	Bowen No.	41056					
	No. Req'd	2					

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

For more information: visit www.innovex-inc.com or contact your local sales office
Domestic and international patents and trademarks granted and/or applied for where applicable
REV- DECEMBER 2021

**NO
BARRIERS**

PRODUCT LINEFishing & Intervention | Internal
Catch**PRODUCT**

Full Circle Releasing Spears

**INNOVEX**
LOGAN FISHING TOOLS

Nominal Size	13-3/8 Csg						
Recommend Catching Range *	13 to 13-3/8 Csg						
OD Smallest Slips Retracted	12						
Expansion Slips Over Safety Ring	13/16						
Slip Engagement Area (Sq inches)	890						
Complete Assembly	Logan Part No.	204-021					
	Bowen No.	6081					
OPTIONAL COMPONENTS							
Unitizer	Logan Part No.	AV20015					
	Bowen No.	6086					
Friction Retainer	Logan Part No.	AV21015					
(Includes Springs)	Bowen No.	6536F					
Friction Retainer	Logan Part No.	AV22004					
Screws	Bowen No.	25175					
	No. Req'd	4					
Friction Retainer	Logan Part No.	AV23013					
Springs	Bowen No.	8950					
	No. Req'd	16					
Friction Block	Logan Part No.	AV24002					
	Bowen No.	14995					
OPTIONAL ACCESSORIES							
Safety Ring Pack-Off	Logan Part No.	AV25020					
	Bowen No.	6088					
Extension (3 ft long)	Logan Part No.	-					
	Bowen No.	-					
Mill Type Nut	Logan Part No.	AV18021-A					
	Bowen No.	6087A					
Sub Type Nut	Logan Part No.	AV18021-B					
	Bowen No.	6087B					
Sidehill Type Nut	Logan Part No.	AV18021-C					
	Bowen No.	6087C					

Innovex reserves the right to change or discontinue designs without prior notice.

*Size and weight of pipe to be caught

When ordering, please specify:

Complete assembly or part number

Size and type of top connection

Size and type of fish to be caught

Recommended Spare Parts:

2 x sets of Slips for each size

1 x Safety Ring for each size

1 x Unitizer and 2 x Friction Retainers on 2-3/8" to 3-1/2" Tubing Spears or 2 x friction block assemblies on 4" Tubing Spears and larger

1 x Stop

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

FULL CIRCLE RELEASING SPEAR SKIRTS

Nominal Size of Spear Skirt Size (inches)		2-3/8	2-7/8	3-1/2	4	4-1/2	5-1/2	6-5/8
4 OD	Logan Part No.	AV27000-128	AV27001-128	-	-	-	-	-
	Bowen No.	4644	4646	-	-	-	-	-
4-1/2 OD	Logan Part No.	AV27000-144	AV27001-144	AV27002-144	AV27003-144	-	-	-
	Bowen No.	4645	4647	4649	19446	-	-	-
5 OD	Logan Part No.	-	AV27001-160	AV27002-160	AV27003-160	-	-	-
	Bowen No.	-	4648	4650	19447	-	-	-
5-1/2 OD	Logan Part No.	-	AV27001-176	AV27002-176	AV27003-176	AV27004-176	-	-
	Bowen No.	-	4778	4651	19448	4652	-	-
6 OD	Logan Part No.	-	-	AV27002-192	AV27003-192	AV27004-192	-	-
	Bowen No.	-	-	19441	19449	19454	-	-
6-5/8 OD	Logan Part No.	-	-	AV27002-212	AV27003-212	AV27004-212	AV27005-212	-
	Bowen No.	-	-	5495	19450	4653	4655	-
7 OD	Logan Part No.	-	-	AV27002-224	AV27003-224	AV27004-224	AV27005-224	-
	Bowen No.	-	-	5494	19451	4654	5497	-
7-5/8 OD	Logan Part No.	-	-	AV27002-244	AV27003-244	AV27004-244	AV27005-244	AV27006-244
	Bowen No.	-	-	4772	19452	4864	5497	4658
8-5/8 OD	Logan Part No.	-	-	AV27002-276	AV27003-276	AV27004-276	AV27005-276	AV27006-276
	Bowen No.	-	-	4773	19453	5496	4657	4659
9-5/8 OD	Logan Part No.	-	-	AV27002-308	-	AV27004-308	-	AV27005-308
	Bowen No.	-	-	56829	-	39190	-	4661
10-3/4 OD	Logan Part No.	-	-	-	-	-	-	-
	Bowen No.	-	-	-	-	-	-	-

Nominal Size of Spear Skirt Size (inches)		7-5/8					
4 OD	Logan Part No.	-					
	Bowen No.	-					
4-1/2 OD	Logan Part No.	-					
	Bowen No.	-					
5 OD	Logan Part No.	-					
	Bowen No.	-					
5-1/2 OD	Logan Part No.	-					
	Bowen No.	-					
6 OD	Logan Part No.	-					
	Bowen No.	-					
6-5/8 OD	Logan Part No.	-					
	Bowen No.	-					
7 OD	Logan Part No.	-					
	Bowen No.	-					
7-5/8 OD	Logan Part No.	-					
	Bowen No.	-					
8-5/8 OD	Logan Part No.	-					
	Bowen No.	-					
9-5/8 OD	Logan Part No.	-					
	Bowen No.	-					
10-3/4 OD	Logan Part No.	AV27007-344					
	Bowen No.	79749					

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

FULL CIRCLE RELEASING SPEAR GUIDES

Nominal Size of Spear Guide Size (inches)		4	4-1/2	5	5-1/2	6	6-5/8	7
Over 5 to 6	Logan Part No.	AV28000	AV28001	AV28002	-	-	-	-
	Bowen No.	4662	4663	4664	-	-	-	-
Over 6 to 7	Logan Part No.	AV28000	AV28001	AV28002	AV28003	-	-	-
	Bowen No.	4662	4663	4664	4665	-	-	-
Over 7 to 8	Logan Part No.	-	AV28001	AV28002	AV28003	AV28004	-	-
	Bowen No.	-	4663	4664	4665	4685	-	-
Over 8 to 9	Logan Part No.	-	AV28001	AV28002	AV28003	AV28004	AV28005	AV28006
	Bowen No.	-	4663	4664	4665	4685	4299	3824
Over 9 to 10	Logan Part No.	-	-	-	AV28003	AV28004	AV28005	AV28006
	Bowen No.	-	-	-	4665	4685	4299	3824
Over 10 to 11	Logan Part No.	-	-	-	AV28003	AV28004	AV28005	AV28006
	Bowen No.	-	-	-	4665	4685	4299	3824
Over 11 to 12	Logan Part No.	-	-	-	-	-	AV28005	AV28006
	Bowen No.	-	-	-	-	-	4299	3824
Over 12 to 13	Logan Part No.	-	-	-	-	-	-	AV28006
	Bowen No.	-	-	-	-	-	-	3824
Over 13 to 14	Logan Part No.	-	-	-	-	-	-	AV28006
	Bowen No.	-	-	-	-	-	-	3824

Nominal Size of Spear Guide Size (inches)		7-5/8	8-5/8	9	9-5/8	10-3/4	11-3/4	
Over 5 to 6	Logan Part No.	-	-	-	-	-	-	
	Bowen No.	-	-	-	-	-	-	
Over 6 to 7	Logan Part No.	-	-	-	-	-	-	
	Bowen No.	-	-	-	-	-	-	
Over 7 to 8	Logan Part No.	-	-	-	-	-	-	
	Bowen No.	-	-	-	-	-	-	
Over 8 to 9	Logan Part No.	-	-	-	-	-	-	
	Bowen No.	-	-	-	-	-	-	
Over 9 to 10	Logan Part No.	AV28007	-	-	-	-	-	
	Bowen No.	4666	-	-	-	-	-	
Over 10 to 11	Logan Part No.	AV28007	AV28008	-	-	-	-	
	Bowen No.	4666	4295	-	-	-	-	
Over 11 to 12	Logan Part No.	AV28007	AV28008	AV28009	AV28010	AV28011	AV28012	
	Bowen No.	4666	4295	4667	4668	79750	65526	
Over 12 to 13	Logan Part No.	AV28007	AV28008	AV28009	AV28010	-	-	
	Bowen No.	4666	4295	4667	4668	-	-	
Over 13 to 14	Logan Part No.	AV28007	AV28008	AV28009	AV28010	-	-	
	Bowen No.	4666	4295	4667	4668	-	-	

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE

 Fishing & Intervention | Internal
Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
LOGAN FISHING TOOLS

FULL CIRCLE SPEAR SLIP RANGE FOR DRILLPIPE AND TUBING

Fish Size Weight (lbs/ft)		2-3/8 DP 6.65	2-3/8 DP 4.8, 4.6	2-3/8 Tbg 4.7, 4.6, 4.0	2-7/8 DP 10.4	2-7/8 DP 8.35	2-7/8 DP 6.45	2-7/8 Tbg 6.5, 6.4
Spear Assembly	Logan Part No.	204-000	204-000	204-001	204-002	204-002	204-002	204-003
	Bowen No.	6175	6175	6693	6246	6246	6246	6684
Slip Size Stamped		1-13/16	2	2-1/32	2-5/32	2-11/32	2-1/2	2-7/16
	Logan Part No.	AV4000	AV4000	AV4001	AV4002	AV4002	AV4002	AV4003
	Bowen No.	6178	6178	6695	3249	6249	6249	6686
Safety Ring Size Stamped		1-11/32	1-7/8	1-29/32	2	2-3/16	2-11/32	2-5/16
	Logan Part No.	AV17000	AV17000	AV17001	AV17002	AV17002	AV17002	AV17003
	Bowen No.	6547	6547	6545	6543	6543	6543	6424
Safety Ring Pack-Off Size Stamped		1-11/32	1-7/8	1-29/32	2	2-3/16	2-11/32	2-5/16
	Logan Part No.	AV25000	AV25000	AV25001	AV25002	AV25002	AV25002	AV25003
	Bowen No.	6181	6181	6174	6252	6252	6252	5779

Fish Size Weight (lbs/ft)		3-1/2 DP 15.5	3-1/2 DP 13.3	3-1/2 DP 11.2	3-1/2 DP 8.5	3-1/2 Tbg 10.2, 9.3, 9.2	3-1/2 Tbg 7.7	4 DP 15.7
Spear Assembly	Logan Part No.	204-004	204-004	204-004	204-004	204-005	204-005	204-006
	Bowen No.	7640	7640	7640	7640	6701	6701	7648
Slip Size Stamped		2-5/8	2-25/32	2-15/16	3-3/32	2-31/32	3-1/8	3-9/32
	Logan Part No.	AV4004	AV4004	AV4004	AV4004	AV4005	AV4005	AV4006
	Bowen No.	C7642	C7642	C7642	C7642	6704	6704	7650
Friction Block Size Stamped		-	-	-	-	-	-	-
	Logan Part No.	-	-	-	-	-	-	AV12000
	Bowen No.	-	-	-	-	-	-	14934
Safety Ring Size Stamped		2-7/16	2-19/32	2-3/4	2-29/32	2-13/16	2-15/16	3-3/32
	Logan Part No.	AV17004	AV17004	AV17004	AV17004	AV17005	AV17005	AV17006
	Bowen No.	6541	6541	6541	6541	6707	6707	6681
Safety Ring Pack-Off Size Stamped		2-7/16	2-19/32	2-3/4	2-29/32	2-13/16	2-15/16	3-3/32
	Logan Part No.	AV25004	AV25004	AV25004	AV25004	AV25005	AV25005	AV25006
	Bowen No.	6268	6268	6268	6268	6709	6709	6683

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE

 Fishing & Intervention | Internal
Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
LOGAN FISHING TOOLS

FULL CIRCLE SPEAR SLIP RANGE FOR DRILLPIPE AND TUBING

Fish Size Weight (lbs/ft)		4 DP 14	4 Tbg 11	4 Tbg 9.5	4-1/2 DP 20	4-1/2 DP 18.1, 16.6	4-1/2 DP 13.75, 12.75	5-1/2 DP 24.7, 21.9
Spears Assembly	Logan Part No.	204-006	204-007	204-007	204-008	204-008	204-008	204-009
	Bowen No.	7648	6710	6710	6715	6715	6715	6723
Slip Size Stamped		3-11/32	3-1/2	3-19/32	3-11/16	3-7/8	4-1/32	4-3/4
	Logan Part No.	AV4006	AV4007	AV4007	AV4008	AV4008	AV4008	AV4009
	Bowen No.	7650	6712	6712	6717	6717	6717	6725
Friction Block Size Stamped		-	3-1/4	3-1/4	3-5/8	3-5/8	3-5/8	4-3/4
	Logan Part No.	AV12000	AV12001	AV12001	AV12002	AV12002	AV12002	AV12003
	Bowen No.	14934	14904	14904	14940	14940	14940	14840
Safety Ring Size Stamped		3-5/32	3-5/16	3-13/32	3-15/32	3-21/32	3-13/16	4-1/2
	Logan Part No.	AV17006	AV17007	AV17007	AV17008	AV17008	AV17008	AV17009
	Bowen No.	6681	6539	6539	6720	6720	6720	6485
Safety Ring Pack-Off Size Stamped		3-5/32	3-5/16	3-13/32	3-15/32	3-21/32	3-13/16	4-1/2
	Logan Part No.	AV25006	AV25007	AV25007	AV25008	AV25008	AV25008	AV25009
	Bowen No.	6683	5730	5730	6722	6722	6722	6484

Fish Size Weight (lbs/ft)		5-1/2 DP 25.25	5-1/2 DP 22.2	5-1/2 DP 19				
Spears Assembly	Logan Part No.	204-009	204-009	204-009				
	Bowen No.	6723	6723	6723				
Slip Size Stamped		4-3/4	4-7/8	5-1/16				
	Logan Part No.	AV4009	AV4009	AV4009				
	Bowen No.	6725	6725	6725				
Friction Block Size Stamped		4-3/4	4-3/4	4-3/4				
	Logan Part No.	AV12003	AV12003	AV12003				
	Bowen No.	14840	14840	14840				
Safety Ring Size Stamped		4-1/2	4-5/8	4-13/16				
	Logan Part No.	AV17009	AV17009	AV17009				
	Bowen No.	6485	6485	6485				
Safety Ring Pack-Off Size Stamped		4-1/2	4-5/8	4-13/16				
	Logan Part No.	AV25009	AV25009	AV25009				
	Bowen No.	6484	6484	6484				

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE
PRODUCT

Fishing & Intervention | Internal Catch

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

FULL CIRCLE SPEAR SLIP RANGE FOR CASING

Fish Size Weight (lbs/ft)		4-1/2 Csg 13.5, 11.6	4-1/2 Csg 9.5	4-3/4 Csg 16	5 Csg 21	5 Csg 18.0, 17.7	5 Csg 15	5 Csg 13.0, 11.5
Spear Assembly	Logan Part No.	204-010	204-010	204-010	204-011	204-011	204-011	204-011
	Bowen No.	10536	10536	10536	9337	9337	9337	9337
Slip Size Stamped		4	4-5/32	4-5/32	4-7/32	4-11/32	4-15/32	4-19/32
	Logan Part No.	AV4010	AV4010	AV4010	AV4011	AV4011	AV4011	AV4011
	Bowen No.	10538	10538	10538	9339	9339	9339	9339
Friction Block Size Stamped		4-1/2	-	4-1/2	4-5/8	-	-	-
	Logan Part No.	AV12004	-	AV12004	AV12005	-	-	-
	Bowen No.	14927	-	14927	14946	-	-	-
Safety Ring Size Stamped		3-25/32	3-15/16	3-15/16	4	4-1/8	4-1/4	4-3/8
	Logan Part No.	AV17010	AV17010	AV17010	AV17011	AV17011	AV17011	AV17011
	Bowen No.	6733	6733	6733	7581	7581	7581	7581
Safety Ring Pack-Off Size Stamped		3-25-32	3-15/16	3-15/16	4	4-1/8	4-1/4	4-3/8
	Logan Part No.	AV25010	AV25010	AV25010	AV25011	AV25011	AV25011	AV25011
	Bowen No.	6734	6734	6734	A7583	A7583	A7583	A7583

Fish Size Weight (lbs/ft)		5-1/2 Csg 23	5-1/2 Csg 20, 17	5-1/2 Csg 15.5, 14, 13	5-3/4 Csg 22.5, 19.5	5-3/4 Csg 17, 14	6 Csg 23	6 Csg 20, 18
Spear Assembly	Logan Part No.	204-012	204-012	204-012	204-012	204-012	204-012	204-012
	Bowen No.	9342	9342	9342	9342	9342	9347	9347
Slip Size Stamped		4-3/4	4-7/8	5-1/16	5-1/16	5-5/16	5-5/16	5-7/16
	Logan Part No.	AV4012	AV4012	AV4012	AV4012	AV4012	AV4013	AV4013
	Bowen No.	9344	9344	9344	9344	9344	9349	9349
Friction Block Size Stamped		4-3/4	-	-	5-1/16	-	4-3/4	-
	Logan Part No.	AV12006	-	-	AV12006	-	AV12007	-
	Bowen No.	14840	-	-	14840	-	14953	-
Safety Ring Size Stamped		4-1/2	4-5/8	4-13/16	4-13/16	5-1/16	5-1/16	5-3/16
	Logan Part No.	AV17012	AV17012	AV17012	AV17012	AV17012	AV17013	AV17013
	Bowen No.	6485	6485	6485	6485	6485	6520	6520
Safety Ring Pack-Off Size Stamped		4-1/2	4-5/8	4-13/16	4-13/16	5-1/16	5-1/16	5-3/16
	Logan Part No.	AV25009	AV25009	AV25009	AV25009	AV25009	AV25012	AV25012
	Bowen No.	6484	6484	6484	6484	6484	6041	6041

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

FULL CIRCLE SPEAR SLIP RANGE FOR CASING

Fish Size Weight (lbs/ft)		6 Csg 16, 15	6-5/8 Csg 32, 29, 28, 24, 22	6-5/8 Csg 26.2, 26	6-5/8 Csg 20, 17	7 Csg 40	7 Csg 38, 35, 28	7 Csg 32, 30, 29
Spears Assembly	Logan Part No.	204-013	204-014	204-014	204-014	204-014	204-015	204-015
	Bowen No.	9347	9796	9796	9796	9796	9352	9352
Slip Size Stamped		5-19/32	5-3/4	5-15/16	6-1/8	5-15/16	6	6-3/16
	Logan Part No.	AV4013	AV4014	AV4014	AV4014	AV4014	AV4015	AV4015
	Bowen No.	9349	9798	9798	9798	9798	9354	9354
Friction Block Size Stamped		-	5-3/4	-	6-1/8	6-1/8	5-3/4	-
	Logan Part No.	-	AV12008	-	AV12008	AV12008	AV12009	-
	Bowen No.	-	14835	-	14835	14835	14961	-
Safety Ring Size Stamped		5-11/32	5-1/2	5-11/13	5-7/8	5-11/16	5-3/4	5-5/16
	Logan Part No.	AV17013	AV17014	AV17014	AV17014	AV17014	AV17015	AV17015
	Bowen No.	6520	6488	6488	6488	6488	6522	6522
Safety Ring Pack-Off Size Stamped		5-11/32	5-1/2	5-11/16	5-7/8	5-11/16	5-3/4	5-15/16
	Logan Part No.	AV25012	AV25013	AV25013	AV25013	AV25013	AV25015	AV25015
	Bowen No.	6041	6487	6487	6487	6487	6047	6047

Fish Size Weight (lbs/ft)		7 Csg 26, 24, 23, 22	7 Csg 20, 17	7-5/8 Csg 39, 33.7	7-5/8 Csg 29.7, 26.4	7-5/8 Csg 24, 20	8 Csg 26	8-1/8 Csg 39.5, 35.5
Spears Assembly	Logan Part No.	204-015	204-015	204-016	204-016	204-016	204-016	204-016
	Bowen No.	9352	9352	10608	10608	10608	10608	10608
Slip Size Stamped		6-3/8	6-17/32	6-11/16	6-15/16	7-3/32	7-7/16	7-1/4
	Logan Part No.	AV4015	AV4015	AV4016	AV4016	AV4016	AV4016	AV4016
	Bowen No.	9354	9354	10610	10610	10610	10610	10610
Friction Block Size Stamped		-	-	6-5/8	-	-	6-7/8	6-7/8
	Logan Part No.	-	-	AV12010	-	-	AV12010	AV12010
	Bowen No.	-	-	14967	-	-	14967	14967
Safety Ring Size Stamped		6-1/8	6-9/32	6-7/16	6-11/16	6-27/32	7-3/16	7
	Logan Part No.	AV17015	AV17015	AV17016	AV17016	AV17016	AV17016	AV17016
	Bowen No.	6522	6522	6524	6524	6524	6524	6524
Safety Ring Pack-Off Size Stamped		6-1/8	6-9/32	6-7/16	6-11/16	6-27/32	7-3/16	7
	Logan Part No.	AV25015	AV25015	AV25014	AV25014	AV25014	AV25014	AV25014
	Bowen No.	6047	6047	6055	6055	6055	6055	6055

Innovex reserves the right to change or discontinue designs without prior notice.

PRODUCT LINE

Fishing & Intervention | Internal Catch

PRODUCT

Full Circle Releasing Spears


INNOVEX
 LOGAN FISHING TOOLS

FULL CIRCLE SPEAR SLIP RANGE FOR CASING

Fish Size Weight (lbs/ft)		8-1/8 Csg 32, 38	8-5/8 Csg 49, 44, 38, 36	8-5/8 Csg 43, 40	8-5/8 Csg 32, 28, 24	9 Csg 55	9 Csg 45	9 Csg 40, 38, 34
Spear Assembly	Logan Part No.	204-016	204-017	204-017	204-017	204-011	204-017	204-017
	Bowen No.	10608	6318	6318	6318	6318	6318	6318
Slip Size Stamped		7-7/16	7-9/16	7-13/16	8-1/16	7-13/16	8-1/16	8-5/16
	Logan Part No.	AV4016	AV4017	AV4017	AV4017	AV4017	AV4017	AV4017
	Bowen No.	10610	6320	6320	6320	6320	6320	6320
Friction Block Size Stamped		-	7-3/4	-	-	7-3/4	-	-
	Logan Part No.	-	AV12011	-	-	AV12011	-	-
	Bowen No.	-	14973	-	-	14973	-	-
Safety Ring Size Stamped		7-3/16	7-1/4	7-1/2	7-3/4	7-1/2	7-3/4	8
	Logan Part No.	AV17016	AV17017	AV17017	AV17017	AV17017	AV17017	AV17017
	Bowen No.	6524	6528	6528	6528	6528	6528	6528
Safety Ring Pack-Off Size Stamped		7-3/16	7-1/4	7-1/2	7-3/4	7-1/2	7-3/4	8
	Logan Part No.	AV25014	AV25016	AV25016	AV25016	AV25016	AV25016	AV25016
	Bowen No.	6055	6529	6529	6529	6529	6529	6529

Fish Size Weight (lbs/ft)		9-5/8 Csg 58, 47, 53.5	9-5/8 Csg 40, 36, 43.5	9-5/8 Csg 32.3, 29.3	10 Csg 33, 48	10-3/4 Csg 55.35, 54, 51, 40.5, 32.75	10-3/4 Csg 45.5, 45, 40	11-3/4 Csg 60, 54
Spear Assembly	Logan Part No.	204-018	204-018	204-018	204-018	204-019	204-019	204-020
	Bowen No.	10473	10473	10473	10473	6067	6067	6073
Slip Size Stamped		8-1/2	8-13/16	9	9-3/8	9-13/16	10-1/13	10-7/8
	Logan Part No.	AV4018	AV4018	AV4018	AV4018	AV4019	AV4019	AV4020
	Bowen No.	10475	10475	10475	10475	6069	6069	6075
Friction Block Size Stamped		8-7/8	-	-	8-7/8	10	-	-
	Logan Part No.	AV12012	-	-	AV12012	AV12013	-	-
	Bowen No.	14979	-	-	14979	14984	-	-
Safety Ring Size Stamped		8-3/16	8-1/2	8-11/16	9-1/16	9-1/2	9-3/4	10-9/16
	Logan Part No.	AV17018	AV17018	AV17018	AV17018	AV17019	AV17019	AV17020
	Bowen No.	6531	6531	6531	6531	6533	6533	6535
Safety Ring Pack-Off Size Stamped		8-3/16	8-1/2	8-11/16	9-1/16	9-1/2	9-3/4	10-9/16
	Logan Part No.	AV25017	AV25017	AV25017	AV25017	AV25018	AV25018	AV25019
	Bowen No.	6063	6063	6063	6063	6072	6072	6080

Fish Size Weight (lbs/ft)		11-3/4 Csg 47, 42, 38	12 Csg 40	13 Csg 54, 50, 45, 40	13-3/8 Csg 83, 72, 68, 61	13-3/8 Csg 54, 48	16 Csg 84, 75, 65, 55	
Spear Assembly	Logan Part No.	204-020	204-020	204-021	204-021	204-021	204-021	
	Bowen No.	6073	6073	6081	6081	6081	6081	
Slip Size Stamped		11-1/8	11-3/8	12-3/8	12-3/8	12-5/8	15-3/16	
	Logan Part No.	AV4020	AV4020	AV4021	AV4021	AV4021	AV4021	
	Bowen No.	6075	6075	6083	6083	6083	6083	
Friction Block Size Stamped		-	-	12-1/4	12-1/4	-	15	
	Logan Part No.	-	-	AV12015	AV12015	-	AV12015	
	Bowen No.	-	-	14994	14994	-	14994	
Safety Ring Size Stamped		10-13/16	11-1/16	12	12	12-1/4	14-13/16	
	Logan Part No.	AV17020	AV17020	AV17021	AV17021	AV17021	AV17021	
	Bowen No.	6535	6535	6537	6537	6537	6537	
Safety Ring Pack-Off Size Stamped		10-13/16	11-1/16	12	12	12-1/4	14-13/16	
	Logan Part No.	AV25019	AV25019	AV25020	AV25020	AV25020	AV25020	
	Bowen No.	6080	6080	6088	6088	6088	6088	

Innovex reserves the right to change or discontinue designs without prior notice.