

Logan HE EFL[®] Rotating and Releasing Spear

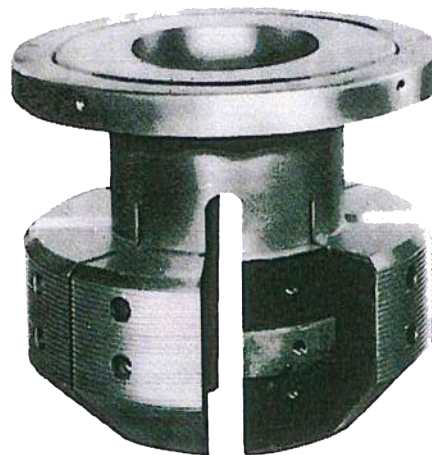
USE: The Logan HE Rotating and Releasing Spear will penetrate the I.D. of the tubing, drill pipe or casing. It will deliver tremendous torque in back-off operations, in combination with the Logan HE Reversing Tool yet maintain an easy positive release.

CONSTRUCTION: Five major part make up the Spear; all are locked together and cannot unscrew in the hole. Even after high torque loads in either direction, this spear can be assembled by hand for field maintenance. Full bore is maintained in all sizes to facilitate use of wireline equipment. Only one part is exposed to extreme wear, the slip; and it is an inexpensive, replaceable one-piece part, thus maintenance is low for this long-life tool.

OPERATION: The Spear is run in the “catch” position. If the fish is not engaged, one round of left-hand rotation at the Spear will reset the slip to catch position. When the fish is caught, a pull will set the slip in the fish. If torque is needed 10,000 to 15,000 pounds of strain should be pulled to set the slip. Then, set down to a minimum of 3,000 pounds of pull. Right-hand or left-hand torque can be applied. Detailed operation and maintenance instructions are available upon request. Spear extensions, stop subs, packoffs and other accessories are available.

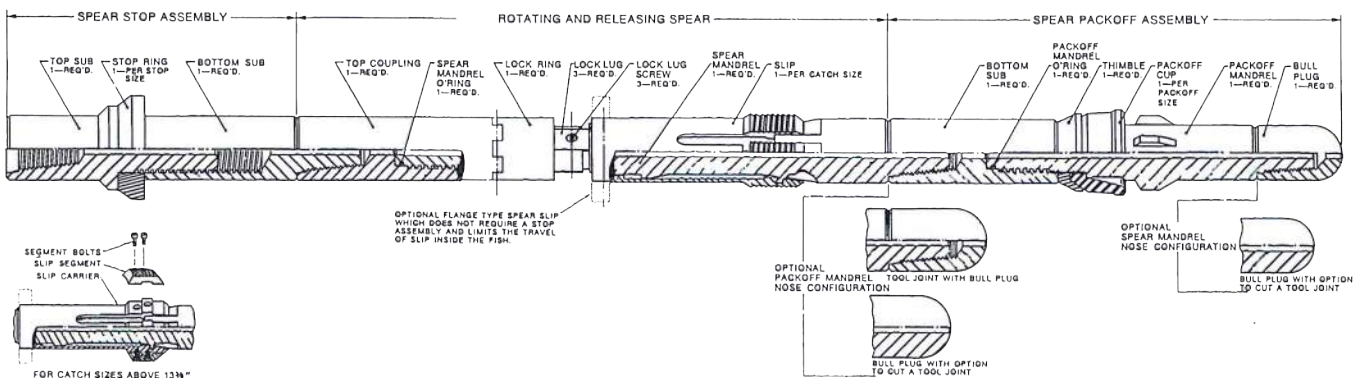


Slip Segment



Slip Carrier for 11-3/4" to 18-3/4" O.D.
Spear for 18-5/8" to 30" Casing

EFL[®]
Rotating and
Releasing
Spear



Logan HE EFL® Rotating and Releasing Spear Specifications

SPEAR STOP ASSEMBLY

Spear Size—Inches	2	2 1/4	3	4	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14	15	16	18	20
Tool O.D.—Inches	1 1/4	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14
Approx. Length—Inches	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Complete Assembly	14329	14329	14330	14331	14332	14333	14334	14335	14336	14337	14338	14339	14340	14341	14342	14343	14344	14345	14346	14347
Part No.	14329	14329	14330	14331	14332	14333	14334	14335	14336	14337	14338	14339	14340	14341	14342	14343	14344	14345	14346	14347
Wt.—Lbs.	12	14	30	45	75	80	145	160	180	280	435	480	530	580	630	680	730	780	830	880

Parts and Price available upon request

SPEAR PACKOFF ASSEMBLY

Spear Size—Inches	2	2 1/4	3	4	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14	15	16	18	20
Tool O.D.—Inches	1 1/4	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14
Approx. Length—Inches	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Complete Assembly	14340	14341	14342	14343	14344	14345	14346	14347	14348	14349	14350	14351	14352	14353	14354	14355	14356	14357	14358	14359
Part No.	14340	14341	14342	14343	14344	14345	14346	14347	14348	14349	14350	14351	14352	14353	14354	14355	14356	14357	14358	14359
Wt.—Lbs.	14	14	28	40	65	75	140	150	160	250	270	280	290	300	310	320	330	340	350	360

Parts and Price available upon request

ROTATING & RELEASING ASSEMBLY

Item	2	2 1/4	3	4	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14	15	16	18	20
Tool O.D.—Inches	1 1/4	1 3/4	2	2 1/2	3	3 1/2	4	4 1/2	5	5 1/2	6	7	7 1/2	8	9	10	11	12	13	14
Approx. Length—Inches	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Complete Assembly*	14372	14373	14374	14375	14376	14377	14378	14379	14380	14381	14382	14383	14384	14385	14386	14387	14388	14389	14390	14391
Part No.	14372	14373	14374	14375	14376	14377	14378	14379	14380	14381	14382	14383	14384	14385	14386	14387	14388	14389	14390	14391
Wt.—Lbs.	25	35	50	65	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125

Parts and Price available upon request

REPLACEMENT PARTS

Part No.	213920	213925	213931	213940	213941	213942	213943	213970	213971	213972	213973	213974	213975	213976	213977	213978	213979	213980	213981	213982	213983	213984	213985	213986	213987	213988	213989	213990	213991	213992	213993	213994	213995	213996	213997	213998	213999	214000	214001	214002	214003	214004	214005	214006	214007	214008	214009	214010	214011	214012	214013	214014	214015	214016	214017	214018	214019	214020	214021	214022	214023	214024	214025	214026	214027	214028	214029	214030	214031	214032	214033	214034	214035	214036	214037	214038	214039	214040	214041	214042	214043	214044	214045	214046	214047	214048	214049	214050	214051	214052	214053	214054	214055	214056	214057	214058	214059	214060	214061	214062	214063	214064	214065	214066	214067	214068	214069	214070	214071	214072	214073	214074	214075	214076	214077	214078	214079	214080	214081	214082	214083	214084	214085	214086	214087	214088	214089	214090	214091	214092	214093	214094	214095	214096	214097	214098	214099	214100	214101	214102	214103	214104	214105	214106	214107	214108	214109	214110	214111	214112	214113	214114	214115	214116	214117	214118	214119	214120	214121	214122	214123	214124	214125	214126	214127	214128	214129	214130	214131	214132	214133	214134	214135	214136	214137	214138	214139	214140	214141	214142	214143	214144	214145	214146	214147	214148	214149	214150	214151	214152	214153	214154	214155	214156	214157	214158	214159	214160	214161	214162	214163	214164	214165	214166	214167	214168	214169	214170	214171	214172	214173	214174	214175	214176	214177	214178	214179	214180	214181	214182	214183	214184	214185	214186	214187	214188	214189	214190	214191	214192	214193	214194	214195	214196	214197	214198	214199	214200	214201	214202	214203	214204	214205	214206	214207	214208	214209	214210	214211	214212	214213	214214	214215	214216	214217	214218	214219	214220	214221	214222	214223	214224	214225	214226	214227	214228	214229	214230	214231	214232	214233	214234	214235	214236	214237	214238	214239	214240	214241	214242	214243	214244	214245	214246	214247	214248	214249	214250	214251	214252	214253	214254	214255	214256	214257	214258	214259	214260	214261	214262	214263	214264	214265	214266	214267	214268	214269	214270	214271	214272	214273	214274	214275	214276	214277	214278	214279	214280	214281	214282	214283	214284	214285	214286	214287	214288	214289	214290	214291	214292	214293	214294	214295	214296	214297	214298	214299	214300	214301	214302	214303	214304	214305	214306	214307	214308	214309	214310	214311	214312	214313	214314	214315	214316	214317	214318	214319	214320	214321	214322	214323	214324	214325	214326	214327	214328	214329	214330	214331	214332	214333	214334	214335	214336	214337	214338	214339	214340	214341	214342	214343	214344	214345	214346	214347	214348	214349	214350	214351	214352	214353	214354	214355	214356	214357	214358	214359	214360	214361	214362	214363	214364	214365	214366	214367	214368	214369	214370	214371	214372	214373	214374	214375	214376	214377	214378	214379	214380	214381	214382	214383	214384	214385	214386	214387	214388	214389	214390	214391	214392	214393	214394	214395	214396	214397	214398	214399	214400	214401	214402	214403	214404	214405	214406	214407	214408	214409	214410	214411	214412	214413	214414	214415	214416	214417	214418	214419	214420	214421	214422	214423	214424	214425	214426	214427	214428	214429	214430	214431	214432	214433	214434	214435	214436	214437	214438	214439	214440	214441	214442	214443	214444	214445	214446	214447	214448	214449	214450	214451	214452	214453	214454	214455	214456	214457	214458	214459	214460	214461	214462	214463	214464	214465	214466	214467	214468	214469	214470	214471	214472	214473	214474	214475	214476	214477	214478	214479	214480	214481	214482	214483	214484	214485	214486	214487	214488	214489	214490	214491	214492	214493	214494	214495	214496	214497	214498	214499	214500	214501	214502	214503	214504	214505	214506	214507	214508	214509	214510	214511	214512	214513	214514	214515	214516	214517	214518	214519	214520	214521	214522	214523	214524	214525	214526	214527	214528	214529	214530	214531	214532	214533	214534	214535	214536	214537	214538	214539	214540	214541	214542	214543	214544	214545	214546	214547	214548	214549	214550	214551	214552	214553	214554	214555	214556	214557	214558	214559	214560	214561	214562	214563	214564	214565	214566	214567	214568	214569	214570	214571	214572	214573	214574	214575	214576	214577	214578	214579	214580	214581	214582	214583	214584	214585	214586	214587	214588	214589	214590	214591	214592	214593	214594	214595	214596	214597	214598	214599	214600	214601	214602	214603	214604	214605	214606	214607	214608	214609	214610	214611	214612	214613	214614	214615	214616	214617	214618	214619	214620	214621	214622	214623	214624	214625	214626	214627	214628	214629	214630	214631	214632	214633	214634	214635	214636	214637	214638
----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------