

## HD NON-RELEASABLE SPEAR

The **LiMAR**<sup>®</sup> Non-Releasable Spear is designed to engage and recover items with missing or damaged internal type fish necks.

Incrementally sized slips can be selected to suit the inside diameter of the fish whilst the adjustable sleeve feature of the Spear can be altered to suit the reach required to engage the fish.

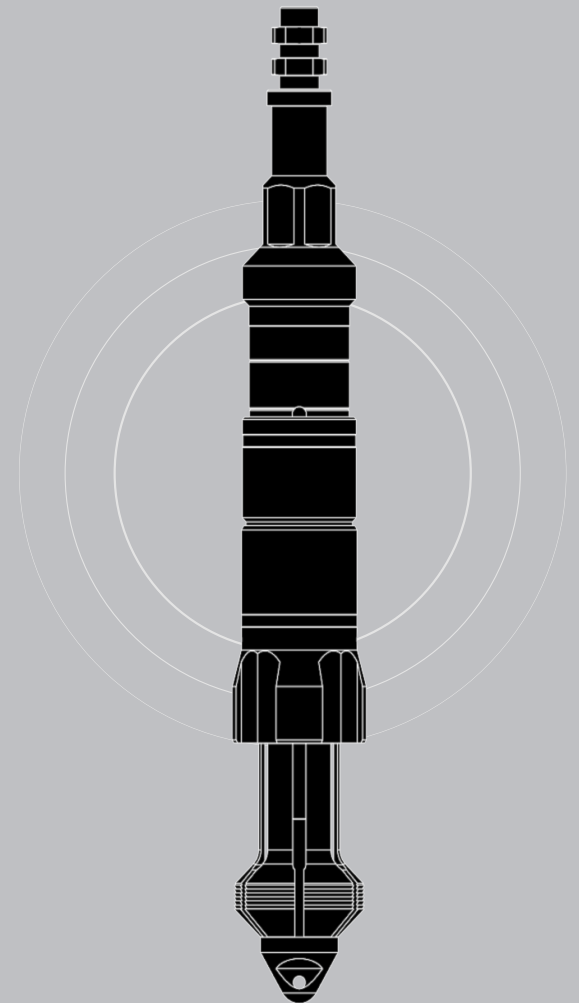
Due to the interchangeable nature between the **LiMAR**<sup>®</sup> Releasable and Non-Releasable Spear versions, the top sub can also be removed and fitted with a releasable type top sub for both running and retrieval.

**TOOL APPLICATIONS:**

- Recovery of items with damaged or missing internal fish necks

**DESIGN FEATURES & BENEFITS:**

- Inventory reduction through multi-functional components
- Adjustable reach sleeve to alter fish engagement point
- Interchangeable top sub for configuring as a releasable version
- Interchangeable slips between releasable and non-releasable versions
- Optional external or internal type running necks
- Customisable slips available to suit client requirements
- Connection options to suit customer requirements
- Simple, robust design ensuring ease of operation for the end user
- Selected components QPQ treated
- Hexagonal flats for safe make-up & break-out



**TECHNICAL DATA**

Assembly Part No.	Actual OD	Fish Neck	Connection	Slip Range	Small Core Required
7022-1750-XXX-RX	1.750"	Optional	Optional	1.000" - 1.500"	Yes
7022-2180-XXX-RX	2.180"	Optional	Optional	1.250" - 1.937"	Yes
7022-2220-XXX-RX	2.220"	Optional	Optional	1.250" - 2.125"	Yes
7022-2720-XXX-RX	2.720"	Optional	Optional	1.625" - 2.500"	Yes
7022-2875-XXX-RX	2.875"	Optional	Optional	1.625" - 2.687"	Yes
7022-3600-XXX-RX	3.600"	Optional	Optional	2.250" - 3.500"	No
7022-4500-XXX-RX	4.500"	Optional	Optional	3.250" - 4.375"	No
7022-5830-XXX-RX	5.830"	Optional	Optional	4.000" - 5.625"	No

XXX - Last 3 digits of part number denotes connection/top sub type  
 For additional sizes or further information please contact [sales@limaroiltools.com](mailto:sales@limaroiltools.com)