



SECTION IV: PULLING TOOLS

Type 'ROTR' Pulling Tool series are Shear Up design for external Fishing Neck.

Rebco offers a wide range of sizes within this group of Pulling Tools. These Tools are offered with three basic reaches to retrieve the Sub-Surface devices with external Fishing Neck.

Three types of Tools with reach designation:

- Type 'ROTRB' - Short Reach
- Type 'ROTRS' - Medium reach
- Type 'ROTRJ' - Long Reach

Type 'ROTRB' Pulling Tool (Short Reach) Assembly: 1" – 4"

TECHNICAL DATA

NOMINAL SIZE	1"	1 3/16"	1 1/4"	1 1/2"	1 1/2"
ASSEMBLY NUMBER	4013011000	4013011180	4013011250	4013011501	4013011500

ENGINEERING DATA:

MAXIMUM OD	.97"	1.19"	1.22"	1.48"	1.43"
PIN THREAD CONNECTION	5/8" - 11	5/8" - 11	5/8" - 11	15/16" - 10	15/16" - 10
FISHING NECK OD	.750"	.875"	1.000"	1.187"	1.187"
BOTTOM THREAD (PRONG)	10/24"	10/24"	3/8" - 16	3/8" - 16	3/8" - 16
WILL ENGAGE FISHING NECK OD	.750"	.875"	1.000"	1.187"	1.187"
REACH	1.36"	1.30"	1.31"	1.05"	1.26"
LENGTH	9.77"	12.8"	13.30"	12.2"	12.2"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy

ACCESSORIES

PINNING TOOL ASS'Y	16711001	16711001	16711003	16711003	16711003
RELEASING TOOL	167002	167003	167004	167004	167004
CORE WRENCH	167021	167022	167023	167023	167023





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Type 'ROTRB' Pulling Tool (Short Reach) Assembly:

TECHNICAL DATA

NOMINAL SIZE	2"	2 1/2"	3"	3 1/2"	4"
ASSEMBLY NUMBER	4013012000	4013012500	4013013000	4013013500	4013014000

ENGINEERING DATA:

MAXIMUM OD	1.77"	2.18"	2.74"	3.11"	3.67"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	1.375"	1.375"	2.313"	2.313"	2.313"
BOTTOM THREAD (PRONG)	1/2" - 13	1/2" - 13	5/8" - 11	5/8" - 11	1 1/4" - 12
WILL ENGAGE FISHING NECK OD	1.375"	1.750"	2.313"	2.750"	3.125"
REACH	1.29"	1.28"	1.38"	1.38"	1.56"
LENGTH	16.40"	16.36"	16.06"	15.87"	18.0"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy

ACCESSORIES

PINNING TOOL ASS'Y	16711004	16711004	16711005	16711005	16711006
RELEASING TOOL	167005	167006	167007	167009	167008
CORE WRENCH	167024	167024	167025	167025	167026



Fig 2 - Comparative of 'ROTR_' and 'ROTS_' Pulling Tools

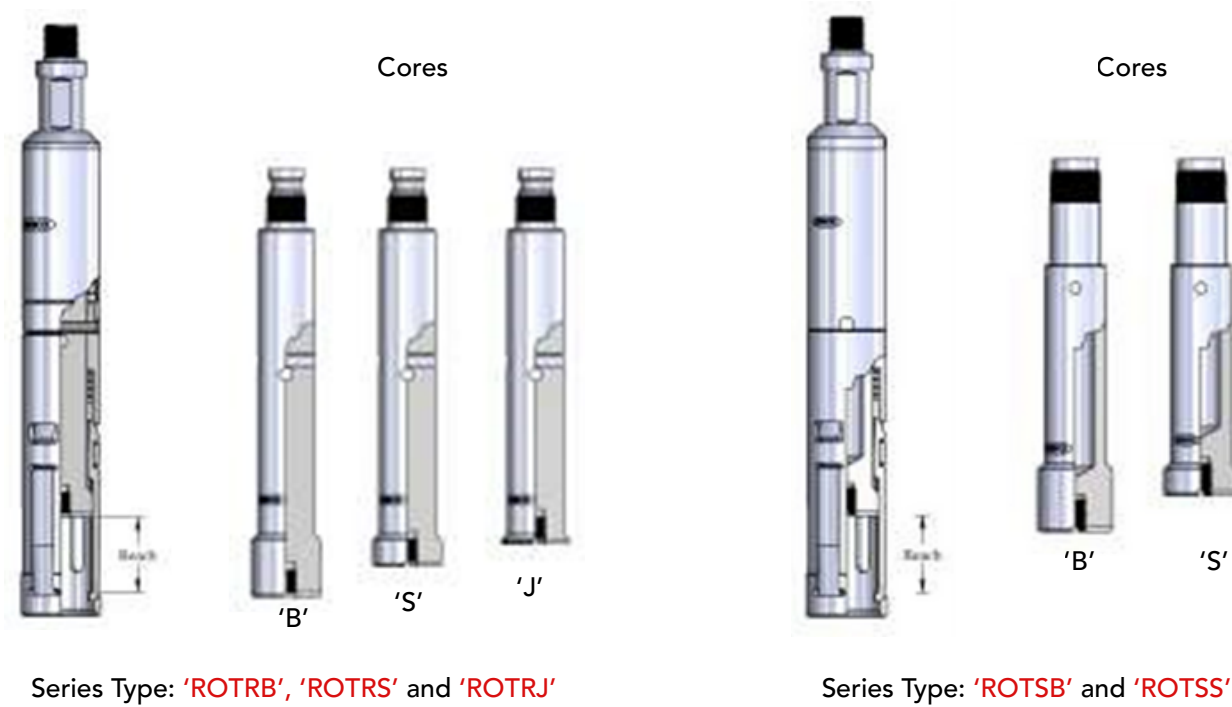


Chart: Pulling Tool Selection Guide

FISHING NECK TYPE TO ENGAGE	PULLING TOOL TYPE: SERIES			JAR TO RELEASE
	SHEAR UP	SHEAR DOWN	SPECIAL	
EXTERNAL	'ROTR_'		'RQ'	UP
	'ROTJU_'			
	'ROTB_'			
		'ROTS_'	'SQ'	DOWN
		'ROTJD_'		
		'RH'		
			'ROTSSJ'	DOWN w/Adapter
INTERNAL			'RMF'	MODE: Up/Down
	'ROTGR'			UP w/Adapter
	'ROTGRL'			
		'ROTGS'		DOWN
		'ROTGSL'		