



SECTION IV: PULLING TOOLS

Type 'ROTJUS' Pulling Tool (Medium Reach) Assembly: 1 1/4" – 4.00"

TECHNICAL DATA

NOMINAL SIZE	1 1/4"	1 3/8"
ASSEMBLY NUMBER	400716141250	400716141370

ENGINEERING DATA:

MAXIMUM OD		1.29"	1.38"
PIN THREAD CONNECTION		15/16" - 10	15/16" - 10
FISHING NECK OD		1.187"	1.187"
BOTTOM THREAD (PRONG)		1/4" - 20	1/4" - 20
WILL ENGAGE FISHING NECK OD		.875"	1.000"
REACH		2.68"	2.58"
LENGTH		13.9"	14.0"
MATERIAL		Alloy	Alloy
ACCESSORIES	PINNING TOOL ASS'Y	16711002	16711002
	CORE WRENCH	167022	167022



TECHNICAL DATA

NOMINAL SIZE	1 1/2"	1 5/8"	2"	2 1/2"
ASSEMBLY NUMBER	400716141500	400716141620	400716142000	400716142500

ENGINEERING DATA:

MAXIMUM OD	1.42"	1.62"	1.86"	2.25"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10
FISHING NECK OD	1.187"	1.187"	1.375"	1.375"
BOTTOM THREAD (PRONG)	1/2" - 13	1/2" - 13	1/2" - 13	1/2" - 13
WILL ENGAGE FISHING NECK OD	1.187"	1.187"	1.375"	1.750"
REACH	1.84"	1.84"	2.26"	2.12"
LENGTH	14.06"	14.06"	15.4"	15.8"
MATERIAL	Alloy	Alloy	Alloy	Alloy
ACCESSORIES	PINNING TOOL ASS'Y	16711004	16711004	16711004
	CORE WRENCH	167024	167024	167024





SECTION IV: PULLING TOOLS

Type 'ROTJUS' Pulling Tool (Medium Reach) Assembly:

TECHNICAL DATA			
NOMINAL SIZE		3"	4"
ASSEMBLY NUMBER		400716143000	400716144000
ENGINEERING DATA:			
MAXIMUM OD		2.81"	3.75"
PIN THREAD CONNECTION		15/16" - 10	1 1/16" - 10
FISHING NECK OD		1.750"	2.313"
BOTTOM THREAD (PRONG)		5/8" - 11	1 1/4" - 12
WILL ENGAGE FISHING NECK OD		2.313"	3.125"
REACH		2.27"	3.37"
LENGTH		15.94"	20.06"
MATERIAL		Alloy	Alloy
ACCESSORIES	PINNING TOOL ASS'Y	16711005	16711006
	CORE WRENCH	167025	167026

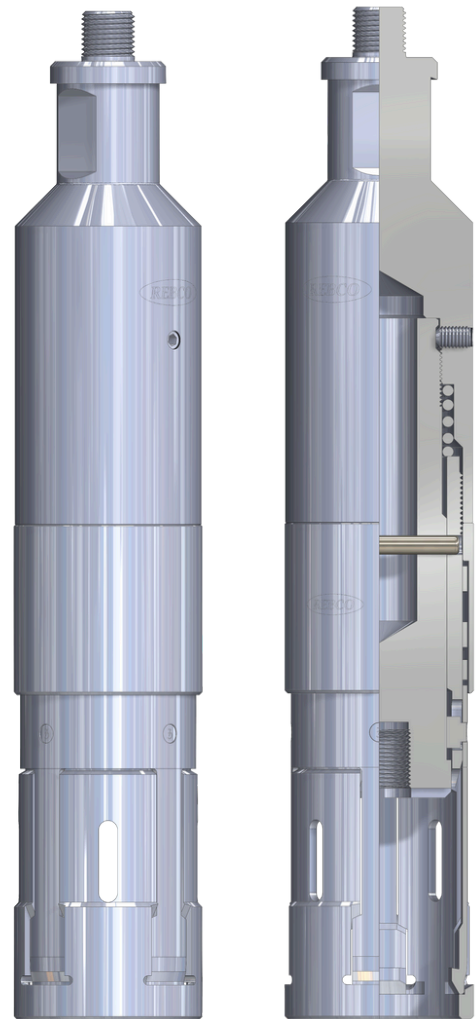


Fig 2 - Comparative of 'ROTR_' and 'ROTS_' Pulling Tools

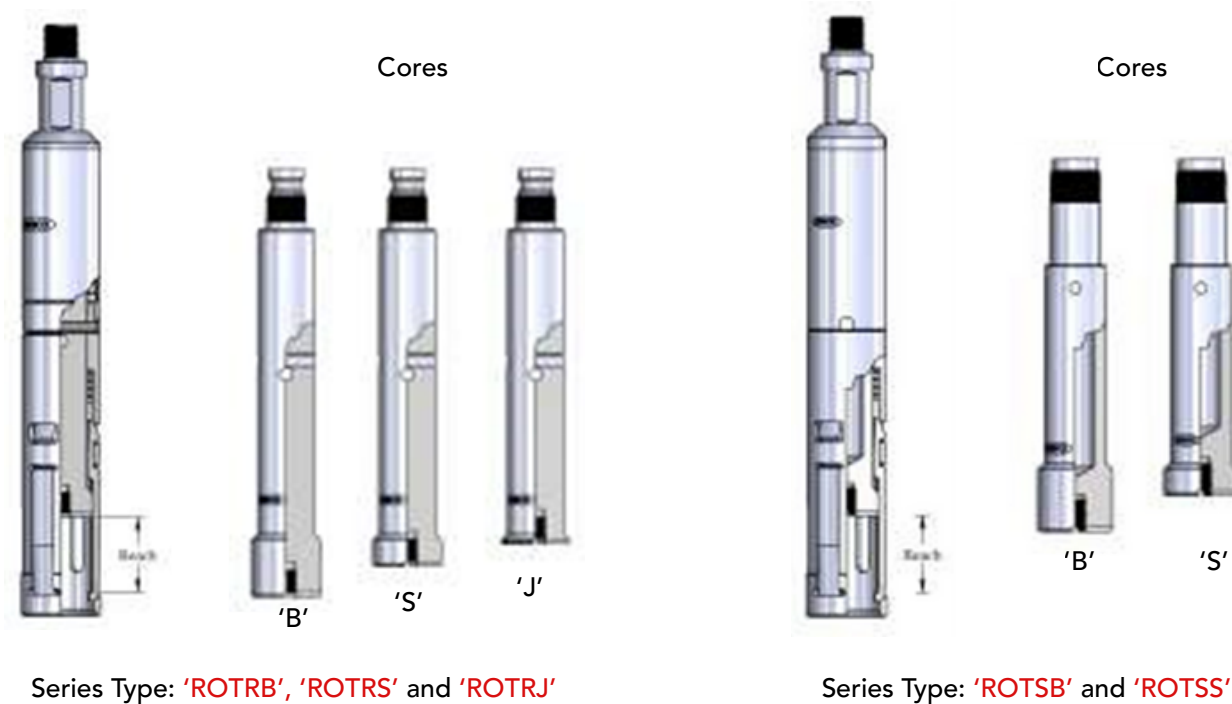


Chart: Pulling Tool Selection Guide

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'		