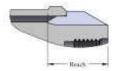
## SECTION IV: PULLING TOOLS



Fig 1 - Measuring of Pulling Tool's Reach





For Internal Fishing Neck

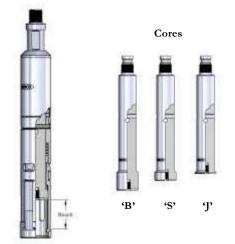
For External Fishing Neck

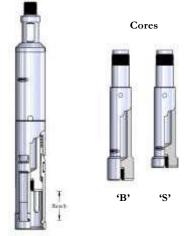
**Rebco** - **Helpful Hint**: How to choose the right Pulling Tool for the task:

- 1. Know the Fishing Neck Type on the Tool to be retrieved.
- 2. Reach is critical; the Fishing Neck needs to be engaged
- 3. Anticipate difficulty down-hole; choose Shear Up or Shear Down
  - The action of the Pulling Tools depends on shearing the Shear Pin in the Tool
  - Shear Up Pulling Tools; shear against the force on Dogs
  - Shear Down Pulling Tools; shear against the force on the Core, or Cylinder, for Internal Fishing Necks

Note: Pulling Tools: Shear Up Series 'ROTJU\_', 'ROTR\_', and Shear Down Series 'ROTJD\_', 'ROTS\_', require only the Core to be changed; to obtain the desired Reach; as shown in Fig 2.

Fig 2 - Comparative of 'ROTR\_' and 'ROTS\_' Pulling Tools





Series Type: 'ROTRB', 'ROTRS' and 'ROTRJ'

FISHING NECK TYPE

Series Type: 'ROTSB', and 'ROTSS'

JAR

DOWN

### **Chart: Pulling Tool Selection Guide** PULLING TOOL TYPE: SERIES

IO ENGAGE	SHEAR UP	SHEAR DOWN	SPECIAL	TO RELEASE
	•	•	•	
	'ROTR_'		'RQ'	
	'ROTJU_'			UP
	'ROTB_'			
EXTERNAL		'ROTS_'	'SQ'	DOWN
EXTERNAL		'ROTJD_'		
		'RH'		
			'ROTSSJ'	DOWN w/Adapt
			'RMF'	MODE: Up/Dov
IN PERIODS LA F	'ROTGR'			IID vv/A dontor
	'ROTGRL'			UP w/Adapter
INTERNAL		'ROTGS'		DOWN!

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'ROTGSL'



# SECTION IV: PULLING TOOLS

2021

REBCO

2 1/2"

### Type 'ROTGR' Pulling Tool Assembly: 1.25" – 7.00"

NOMINAL SIZE

**Rebco** Type '**ROTGR'** Pulling Tool is a combination tool made up of the Type '**ROTGS'** Pulling Tool and Type '**ROTGU'** Shear-Up Adapter.

**NOTE**: Do not place a **SHEAR PIN** in the Type '**ROTGS'** Pulling Tool section of the Type '**ROTGR'** Pulling Tool Assembly.

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ASSEMBLY NUMBER			40051312500	40051315000	40051317800	40051318700	40051321800	
					•		•	
DET	ASSEMBLY	QTY	PART NO					
1	SHEAR UP ADAPTER	1						
2	PULLING TOOL	1						
	ENGINEERING DATA:							
MAXI	MUM OD		1.16"	1.47"	1.75"	1.81"	2.16"	
PIN T	HREAD CONNECTION		5/8" - 11	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10	

1 1/2"

MAXIMUM OD	1.16"	1.47"	1.75"	1.81"	2.16"
PIN THREAD CONNECTION	5/8" - 11	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10
FISHING NECK OD	1.000"	1.187"	1.375"	1.375"	1.750"
BOTTOM THREAD (PRONG)	3/8" - 16	1/2" - 13	1/2" - 13	1/2" - 13	5/8" - 11
WILL ENGAGE FISHING NECK ID	.88"	1.06"	1.38"	1.38"	1.81"
REACH	1.08"	1.62"	1.62"	1.62"	1.62"
LENGTH	14.03"	17.62"	18.54"	18.54"	19.07"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	2.88 (1.31)	5.7 (2.59)	8.8 (3.99)	9.2 (4.17)	13.7 (6.21)



# SECTION IV: PULLING TOOLS

2021

REBCO

### Type 'ROTGR' Pulling Tool Assembly: Continued



NOMINAL SIZE	2 1/2"	3"	3 1/2"	4"	5"
ASSEMBLY NUMBER	40051323100	40051327500	40051331202	40051336804	40051345600

DET	ASSEMBLY	QTY	PART NO				
1	SHEAR UP ADAPTER	1					
2	PULLING TOOL	1					

#### ENGINEERING DATA:

MAXIMUM OD	2.25"	2.72"	3.12"	3.62"	4.50"
PIN THREAD CONNECTION	15/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	1.750"	2.313"	2.313"	2.313"	3.125"
BOTTOM THREAD (PRONG)	5/8" - 11	5/8" - 11	1 3/8" - 12	2 1/8" - 12	2 1/2" - 10
WILL ENGAGE FISHING NECK ID	1.812"	2.31"	2.62"	3.12"	4.00"
REACH	1.62"	1.62"	1.62"	1.62"	1.62"
LENGTH	19.07"	19.42"	19.65"	19.65"	25.16"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	15.2 (6.89)	23.6 (10.70)	25.8 (11.70)	30.6 (13.88)	59.4 (26.94)



NOMINAL SIZE	6"	7"	7"
ASSEMBLY NUMBER	40051356200	40051358700	40051359600

DET	ASSEMBLY	QTY	PART NO	PART NO	PART NO
1	SHEAR UP ADAPTER	1			
2	PULLING TOOL	1			

#### ENGINEERING DATA:

MAXIMUM OD	5.56"	5.83"	5.88"
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	3.125"	3.125"	3.125"
BOTTOM THREAD (PRONG)	2 3/4" - 10	3 5/8" - 10	3 5/8" - 10
WILL ENGAGE FISHING NECK ID	4.75"	5.38"	5.38"
REACH	1.78"	1.86"	1.86"
LENGTH	27.3"	27.53"	27.53"
MATERIAL	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	68.5 (31.07)	99.0 (44.91)	101 (45.81)