



INDEX of SECTION III: RUNNING TOOLS

PRODUCT DESCRIPTION	Product Code	Page
RUNNING TOOLS	41	III-0-16
A - For LOCK MANDRELS:	41	III-1-10
'BG'	41	1
'ROTC-1'	41	2
'ROTC-2'	41	3
'ROTJ'	41	4
'ROTP'	41	4
'ROTR'	41	5,6,7
'ROTRX'	41	8
'ROTRXN'	41	8
'ROTX'	41	9,10
B - For TUBING (SLIP and COLLAR) MANDRELS:	41	III-11
'DO'	41	11
'ROTW'	41	11
C - For BHP - INSTRUMENT HANGERS:	41	III-12-14
'BR'	41	12
'ROTHR'	41	13
'ROTMR'	41	14
D - For GAS LIFT:	41	III-15
'ROTGA-2'	41	15
'ROTJC-3'	41	15
'ROTJC-5'	41	15
'ROTJK-2'	41	15
'ROTRE'	41	15
'ROTRK-1'	41	15
E - MISCELLENIOUS:	41	III-16
'F'	41	16
'JU'	41	16

RUNNING TOOLS were designed primarily to set or position downhole flow controls and devices to a predetermined depth in the well by Wireline methods.

In general, these RUNNING TOOLS are attached to these devices by means of the SHEAR PINS, and other methods. When desired setting depth has been reached, manipulation of the Wireline Tool String places the devices in the SET or LOCKED position; and releases from the device by cutting the shear pin or pins which have held the running tool to the device.



The following pages will list some of the most common RUNNING TOOL types offered by *Rebco*. The RUNNING TOOL names are often associated with the names for the devices used.

Example: 41182027500 Type 'ROTX' Running Tool Assembly

- Used to SET downhole devices made up with Type 'ROTX' Lock Mandrels.



SECTION III: RUNNING TOOLS

2013

JP042613

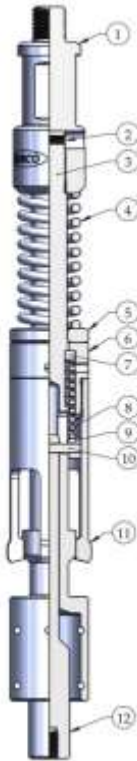
REBCO

Product Code: 41

A - RUNNING TOOLS for LOCK MANDRELS:

Type 'BG' Running Tool: 2 3/8" - 4 1/2"

Rebco Type 'BG' Running Tool is used to locate any one of the selective seal profiles in the well that accept accessories equipped with 'ROTS-1' or 'ROTS-2' Lock Sub-Assembly.



NOMINAL SIZE	2 3/8"	2 1/2"	3 1/2"	4 1/2"
ASSEMBLY NUMBER	4101052370	4101052870	4101053500	4101054500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	1980163100	1700111000	1700123000	2090193600
2 *	SET SCREW	1	185606211000	185606211250	185606211250	185506210500
3	BODY	1	1980162700	1990166200	1990166300	2090193400
4	SPRING	1	9000211	9000157	9000157	9000213
5	SPRING STOP RING	1	1980163000	1990165800	1990165800	2090193000
6	CAP	1	1980168900	1990165400	1990165400	2090193300
7 *	SPLIT RING	2	1980162800	1990165900	1990165900	2090193500
8	SPRING	1	9000212	9000158	9000158	9000214
9	LINK PIN RING	1	1980162900	1990165700	1990165700	2090193200
10 *	PIN	1	18830412501	18830417501	18830417501	18830425001
11	COLLET	1	1980171800	1990166000	1990166100	2090193100
12	SHANK	1	1980163700	1990165500	1990165600	2100160200
REDRESS KIT (* Included as part of Kit)			41010524237	41010524287	41010524350	41010524450

ENGINEERING DATA:

MAXIMUM OD	1.920"	2.357"	2.857"	3.937"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	1.375"	1.750"	2.313"	3.125"
BOTTOM THREAD (SHANK)	1/2" - 13	1/2" - 13	5/8" - 11	5/8" - 11
TO RUN FISHING NECK OD	1.375"	1.750"	2.313"	3.125"
LENGTH	20.22"	19.25"	19.56"	27.44"
MATERIAL	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	9.8 (4.45)	11.5 (5.2)	14.1 (6.4)	18.9 (8.57)



SECTION III: RUNNING TOOLS

2013

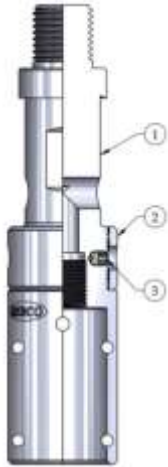
JP042613

REBCO

Type 'ROTC-1' Running Tool Assembly: 1.660" – 4 1/2"

Rebco Type 'ROTC-1' Running Tool is used to run in and land various types of Flow Control devices with external Fishing Neck.

Note: The Running Tool is run with either a Thread Protector (DET 2) or Locating Ring (DET 4), depending on the application.



NOMINAL SIZE	1.660"	1.900" - 2 1/16"	2 3/8"
ACCESSORY SIZE	1.18" - 1.25"	1.43" - 1.62"	1.78" - 1.87"
ASSEMBLY NUMBER	41021201660	41021202060	41021202370

DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	BODY	1	1990133200	1900179000	1900179100
2	THREAD PROTECTOR	1	1680118600	1680118700	1680118800
3	SET SCREW	1	185506210250	185506210375	185506210375

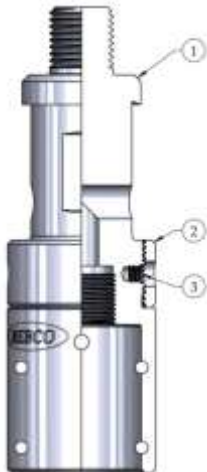
ENGINEERING DATA:

MAXIMUM OD	1.125"	1.406"	1.718"
PIN THREAD CONNECTION	5/8" -11	15/16" - 10	15/16" - 10
BOX (INSIDE) THREAD	7/16" - 14	5/8" - 11	3/4" - 16
FISHING NECK OD	.875"	1.187"	1.375"
LENGTH	7.25"	6.88"	7.25"
MATERIAL	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	1.0 (.45)	1.4 (.64)	2.2 (.99)

ACCESSORIES: LOCATOR RING - DET 4



SIZE	PART NO	SIZE	PART NO	SIZE	PART NO
1.18"	1680117300	1.43"	1680117500	1.78"	1680117900
1.25"	1680117400	1.50"	1680117600	1.81"	1680118000
		1.56"	1680117700	1.87"	1680118100
		1.62"	1680117800		



NOMINAL SIZE	2 7/8"	3 1/2"	4 1/2"
ACCESSORY SIZE	2.25" - 2.31"	2.75" - 2.81"	3.68" - 3.81"
ASSEMBLY NUMBER	41021202870	41021203500	41021204500

DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	BODY	1	1900178900	1900178800	2010164800
2	THREAD PROTECTOR	1	1680118900	1680119000	2010164700
3	SET SCREW	1	185506210375	185506210375	185506210375

ENGINEERING DATA:

MAXIMUM OD	2.187"	2.687"	3.562"
PIN THREAD CONNECTION	15/16" - 10	1 1/16" - 10	1 1/16" - 10
BOX (INSIDE) THREAD	1" - 14	1" - 14	1" - 14
FISHING NECK OD	1.750"	2.313"	3.125"
LENGTH	6.88"	7.12"	9.25"
MATERIAL	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	3.1 (1.41)	5.3 (2.40)	12.7 (5.76)

ACCESSORIES: LOCATOR RING - DET 4



SIZE	PART NO	SIZE	PART NO	SIZE	PART NO
2.25"	1680118200	2.75"	1680118400	3.68"	2200194500
2.31"	1680118300	2.81"	1680118500	3.81"	2200194600



SECTION III: RUNNING TOOLS

2013

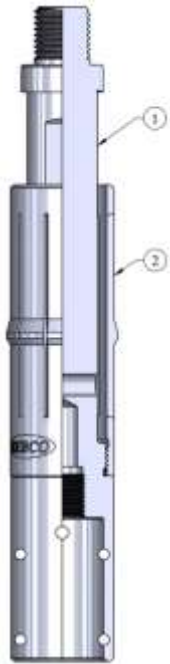
JP042613

REBCO

Type 'ROTC-2' Running Tool Assembly: 1.900" – 3 1/2"

Rebco Type "ROTC-2" Running Tool is used to locate any one of the selective seal profiles in the well that accept accessories equipped with 'ROTS-1' or 'ROTS-2' Lock Sub-Assembly.

The flexibility of the Collet (DET 2) acts a locator of the Seal Bore.



NOMINAL SIZE	1.900" - 2 1/16"			
ACCESSORY SIZE	1.43"	1.50"	1.56"	1.62"
ASSEMBLY NUMBER	410221430	410221500	410221560	410221620

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	BODY	1	1900179010	1900179010	1900179010	1900179010
2	COLLET	1	1880190400	1880190500	1880190600	1880190700

ENGINEERING DATA:

MAXIMUM OD (NO-GO)	1.470"	1.533"	1.595"	1.658"
PIN THREAD CONNECTION	5/8" - 11	5/8" - 11	5/8" - 11	5/8" - 11
BOX (INSIDE) THREAD	5/8" - 11	5/8" - 11	5/8" - 11	5/8" - 11
FISHING NECK OD	1.000"	1.000"	1.000"	1.000"
LENGTH	10.88"	10.88"	10.88"	10.88"
MATERIAL	Alloy	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	2.2 (1.0)	2.2 (1.0)	2.2 (1.0)	2.2 (1.0)

NOMINAL SIZE	2 3/8"		
ACCESSORY SIZE	1.78"	1.81"	1.87"
ASSEMBLY NUMBER	410221780	410221810	410221870

DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	BODY	1	1900179110	1900179110	1900179110
2	COLLET	1	1900170700	1880190800	1880190900

ENGINEERING DATA:

MAXIMUM OD (NO-GO)	1.808"	1.845"	1.908"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	15/16" - 10
BOX (INSIDE) THREAD	3/4" - 16	3/4" - 16	3/4" - 16
FISHING NECK OD	1.375"	1.375"	1.375"
LENGTH	11.25"	11.25"	11.25"
MATERIAL	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	4.1 (1.85)	4.1 (1.85)	4.1 (1.85)

NOMINAL SIZE	2 7/8"		3 1/2"		
ACCESSORY SIZE	2.25"	2.31"	2.56"	2.75"	2.81"
ASSEMBLY NUMBER	410222250	410222310	410222560	410222750	410222810

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	BODY	1	1900178910	1900178910	1900178911	1900178810	1900178810
2	COLLET	1	1880191000	1880191100	1880119311	1880191200	1880191300

ENGINEERING DATA:

MAXIMUM OD (NO-GO)	2.281"	2.343"	2.596"	2.786"	2.845"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10
BOX (INSIDE) THREAD	1" - 14	1" - 14	1" - 14	1" - 14	1" - 14
FISHING NECK OD	1.375"	1.375"	1.375"	1.375"	1.375"
LENGTH	12.44"	12.44"	12.44"	12.44"	12.44"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	5.5 (2.50)	5.5 (2.50)	5.7 (2.59)	6.0 (2.72)	6.0 (2.72)



SECTION III: RUNNING TOOLS

2013

JP042613



Type 'ROTJ' Running Tool Assembly: 3/4" – 4"

Rebco Type 'ROTJ' Running Tool is used to set Locks with external Fishing Neck.

The Running Tool provides the means of securing sub-surface devices to the Wireline Tool String by means of the shear pin.



NOMINAL SIZE	ASSEMBLY PART NUMBER	ENGINEERING DATA					
		LENGTH	THREAD CONNECTION		FISHING NECK OD	MAX OD	RUNNING NECK ID *
			PIN	PRONG			
3/4"	410736	2.44"	1/2" - 13	#5/40	.687"	.69"	.413"
1"	410733	2.81"		1/4" - 20		.81"	.581"
1 1/4"	410726	4.38"	5/8" - 11	3/8" - 16	1.000"	1.12"	.817"
1 1/2"	410728	5.12"			1.187"	1.42"	1.010"
2"	41071	4.69"	15/16" - 10	1/2" - 13	1.375"	1.62"	1.163"
2 1/2"	410714				1.750"	2.12"	1.574"
3"	41073	5.12"	1 1/16" - 10	5/8" - 11	2.313'	2.50"	1.950"
4"	410725	5.62"				3.50"	2.885"

* Running Neck ID is determined by the Type of Sub-Surface Tool used. If 'ROTJ' Running Tool listed in the box is not suitable, please Specify Fishing Neck Size or Tool Type when ordering.

Type 'ROTP' Running Tool Assembly: 1 3/16" – 3"

Rebco Type 'ROTP' Running Tool is used with Sub-Surface devices having removable prong assemblies. The extra deep recess allows for the prong fishing neck extending above the tool fishing neck.



NOMINAL SIZE	ASSEMBLY PART NUMBER	ENGINEERING DATA					
		LENGTH	THREAD CONNECTION		FISHING NECK OD	MAX OD	RUNNING NECK ID *
			PIN	PRONG			
1 3/16"	41113	6.19"	5/8" - 11	None	1.000"	1.31"	.413"
1 1/2"	41117	6.00"			1.187"	1.42"	1.010"
2"	41111	8.00"	15/16" - 10	None	1.375"	1.69"	1.163"
2 1/2"	41112	7.50"			1.750"	2.00"	1.574"
3"	41116	5.12"	1 1/16" - 10	None	2.313'	2.50"	1.950"

* Running Neck ID is determined by the Type of Sub-Surface Tool used. If 'ROTP' Running Tool listed in the box is not suitable, please Specify Fishing Neck Size or Tool Type when ordering.

Type 'ROTP' Running Tool can be ordered with Prong Box Thread; please specify.



SECTION III: RUNNING TOOLS

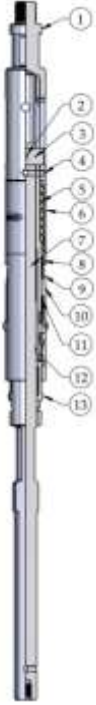
2013

JP042613



Type 'ROTR' Running Tool Assembly: 1.375" – 4.813"

Rebco Type 'ROTR' Running Tool is designed to run, locate and set, within respective nominal size, all Type 'ROTR' and Type 'ROTRN' Sub-Surface Tools.

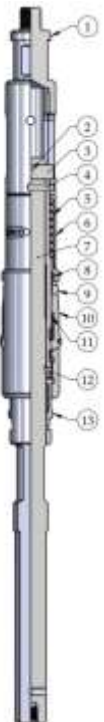


NOMINAL SIZE	1.375"	1.500"	1.710"	1.781"	1.875"
ASSEMBLY NUMBER	41132013700	41132015000	41132017100	41132017800	41132018700

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB-ASS'Y	1	41182045	41182046	41182046	41182049	41182049
2 *	PIN	1	18810206251	18810206881	18810206881	18810308751	18810308751
3	RETAINER	1	411853	411820	411820	41183	41183
4 *	SHEAR PIN	1	9110131250	9110131500	9110131500	9110141750	9110141875
5	CORE SPRING	1	900069	900067	900067	900030	900030
6	SPRING HOUSING	1	4118248	411866	411866	411838	411838
7	CORE	1	4118228	411328	4118227	4118239	4118239
8	DOG SPRING	1	900070	900068	900068	900031	900031
9	DOG RETAINER HOUSING	1	4118252	411868	4118160	411839	411839
10	LOCATING DOG	2	4118249	411873	4118157	4118164	411876
11 *	SPLIT RING	2	411852	411822	411822	41182	41182
12 *	LUG SEGMENT	2	411851	411824	411824	41184	41184
13	RETAINER DOG	2	411850	4118107	4118107	411840	411840
REDRESS KIT (* Included as part of Kit)			41182024125	41182024150	41182024150	41182024187	41182024187

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	1.28"	1.47"	1.64"	1.75"	1.75"
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"	1.187"	1.375"	1.375"
BOTTOM THREAD	3/8" - 16	3/8" - 16	3/8" - 16	1/2" - 13	1/2" - 13
LENGTH	29.4"	30.9"	30.9"	30.0"	30.0"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	8.9 (4.04)	9.2 (4.17)	9.6 (4.35)	10.9 (4.94)	11.0 (4.99)
ACCESSORIES	Assembly Sleeve (NS)	167151413137	167151413150	167151413150	167151413200
	Test Sleeve (NS)	1671514137	1671514150	1671514171	1671514178



NOMINAL SIZE	2.000"	2.125"	2.188"	2.313"	2.562"
ASSEMBLY NUMBER	41132020000	41132021200	41132021800	41132023100	41132025600

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB-ASS'Y	1	41182049	41182049	41182050	41182050	41182050
2 *	PIN	1	18810308751	18810308751	18810311251	18810311251	18810311251
3	RETAINER	1	41183	41183	411811	411811	411811
4 *	SHEAR PIN	1	9110141875	9110141875	9110142250	9110142250	9110142250
5	CORE SPRING	1	900030	900030	900032	900032	900032
6	SPRING HOUSING	1	411838	411838	411842	411842	411842
7	CORE	1	4118239	4118239	4118240	4118240	4118231
8	DOG SPRING	1	900031	900031	900033	900033	900033
9	DOG RETAINER HOUSING	1	411315	4118177	411844	411844	4118182
10	LOCATING DOG	2	4118192	4118176	41195	411874	4118181
11 *	SPLIT RING	2	41182	41182	411813	411813	411813
12 *	LUG SEGMENT	2	41184	41184	411815	411815	411815
13	RETAINER DOG	2	411840	411840	411843	411843	411843
REDRESS KIT (* Included as part of Kit)			41182024187	41182024187	41182024218	41182024250	41182024250

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	1.94"	2.06"	2.17"	2.17"	2.50"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10	15/16" - 10
FISHING NECK OD	1.375"	1.375"	1.750"	1.750"	1.750"
BOTTOM THREAD	1/2" - 13	1/2" - 13	5/8" - 11	5/8" - 11	5/8" - 11
LENGTH	30.0"	30.0"	31.2"	31.2"	31.2"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	11.4 (5.17)	11.4 (5.17)	17.0 (7.71)	17.4 (7.9)	18.6 (8.4)
ACCESSORIES	Assembly Sleeve (NS)	167151413200	167151413250	167151413250	167151413300
	Test Sleeve (NS)	1671514200	1671514212	1671514218	1671514231



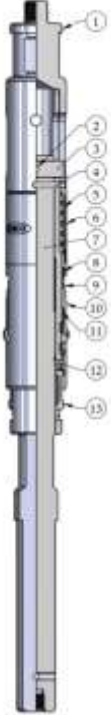
SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

Type 'ROTR' Running Tool Assembly: Continued



NOMINAL SIZE	2.750"	2.813"	2.875"	3.125"	3.250"
ASSEMBLY NUMBER	41132027500	41132028100	41132028700	41132031200	41132032500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB-ASS'Y	1	41182047	41182047	41182047	41182053	41182053
2 *	PIN	1	18810413751	18810413751	18810413751	18840620001	18840620001
3	RETAINER	1	411829	411829	411829	4118224	4118337
4 *	SHEAR PIN	1	9110142812	9110142812	9110142812	9110143120	9110143120
5	CORE SPRING	1	900034	900034	900034	900056	900056
6	SPRING HOUSING	1	411861	411861	411861	4118223	4118326
7	CORE	1	411325	411325	411325	411327	411327
8	DOG SPRING	1	900035	900035	900035	900057	900057
9	DOG RETAINER HOUSING	1	411862	411862	4118136	411323	411339
10	LOCATING DOG	2	411872	4118277	4118139	4118222	4118324
11 *	SPLIT RING	2	411831	411831	411831	4118128	4118128
12 *	LUG SEGMENT	2	411832	411832	411832	4118126	4118126
13	RETAINER DOG	2	411860	411860	411860	4118131	4118131
REDRESS KIT (* Included as part of Kit)			41182024275	41182024275	41182024275	41182024400	41182024400

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	2.69"	2.69"	2.84"	3.10"	3.19"
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	2.313"	2.313"	2.313"	2.313"	2.313"
BOTTOM THREAD	3/4" - 10	3/4" - 10	3/4" - 10	1 3/8" - 12	1 3/8" - 12
LENGTH	32.0"	32.0"	32.0"	33.38"	33.38"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	28.8 (13.06)	28.8 (13.06)	28.8 (13.06)	33.1 (15.01)	33.9 (15.38)
ACCESSORIES	Assembly Sleeve (NS)	167151413300	167151413300	167151413300	167151413400
	Test Sleeve (NS)	1671514275	1671514281	1671514287	1671514312



NOMINAL SIZE	3.437"	3.688"	3.813"	4.000"	4.125"
ASSEMBLY NUMBER	41132034300	41132036800	41132038100	41132040000	41132041200

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB-ASS'Y	1	41182051	41182048	41182048	41182048	41182048
2 *	PIN	1	18840620001	18840625001	18840625001	18840625001	18840625001
3	RETAINER	1	4118125	411878	411878	411878	411878
4 *	SHEAR PIN	1	9110143380	9110143620	9110143750	9110143750	9110143750
5	CORE SPRING	1	900056	900036	900036	900036	900036
6	SPRING HOUSING	1	4118210	41196	411877	411877	411877
7	CORE	1	411327	411329	411324	411329	411326
8	DOG SPRING	1	900057	900037	900037	900037	900037
9	DOG RETAINER HOUSING	1	411321	41198	411886	411897	411897
10	LOCATING DOG	2	4118215	411910	411884	411895	4118195
11 *	SPLIT RING	2	4118128	411880	411880	411880	411880
12 *	LUG SEGMENT	2	4118126	411879	411879	411879	411879
13	RETAINER DOG	2	4118131	411881	411881	411881	411881
REDRESS KIT (* Included as part of Kit)			41182024343	41132024368	41132024450	41132024450	41132024450

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	3.41"	3.62"	3.75"	3.94"	3.94"
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	2.313"	2.313"	2.313"	2.313"	2.313"
BOTTOM THREAD	1 3/8" - 12	1 7/8" - 12	1 5/8" - 12	1 7/8" - 12	2 1/8" - 12
LENGTH	33.8"	33.3"	33.3"	33.38"	33.38"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	37.8 (17.14)	39.6 (18.0)	38.6 (17.5)	39.3 (17.8)	41.8 (18.96)
ACCESSORIES	Assembly Sleeve (NS)	167151413400	167151413450	167151413450	167151413450
	Test Sleeve (NS)	1671514343	1671514368	1671514381	1671514412



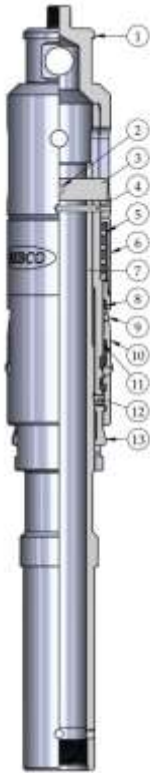
SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

Type 'ROTR' Running Tool Assembly: Continued



NOMINAL SIZE	4.313"	4.562"	4.750"	4.813"
ASSEMBLY NUMBER	41132043100	41132045600	41132047500	41132048100

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB-ASS'Y	1	41182048	41182052	41182052	41182052
2 *	PIN	1	18840625001	18840631251	18840631251	18840631251
3	RETAINER	1	411878	4118142	4118142	4118142
4 *	SHEAR PIN	1	9110143750	9110144500	9110144500	9110144500
5	CORE SPRING	1	900036	900038	900038	900038
6	SPRING HOUSING	1	411877	4118143	4118143	4118143
7	CORE	1	4118241	4113128	4118232	4118232
8	DOG SPRING	1	900037	900039	900039	900039
9	DOG RETAINER HOUSING	1	411334	4118145	411331	411331
10	LOCATING DOG	2	4118298	4118146	4118288	4118282
11 *	SPLIT RING	2	411880	4118149	4118149	4118149
12 *	LUG SEGMENT	2	411879	4118150	4118150	4118150
13	RETAINER DOG	2	411881	4118151	4118151	4118151
REDRESS KIT (* Included as part of Kit)			41182024450	41182024550	41182024550	41182024550

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	4.28"	4.50"	4.69"	4.75"
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	2.313"	3.125"	3.125"	3.125"
BOTTOM THREAD	2 1/8" - 12	2 3/16" - 12	2 1/2" - 10	2 1/2" - 10
LENGTH	33.3"	33.3"	33.3"	33.3"
MATERIAL	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	43.4 (19.68)	64.8 (29.4)	61.6 (27.9)	66.2 (30.02)
ACCESSORIES	Assembly Sleeve (NS)	167151413450	167151413550	167151413550
	Test Sleeve (NS)	1671514431	1671514456	1671514475

All *Rebco* Tools have Inconel® Springs - Tools are suitable for H₂S Service



SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

Type 'ROTRX' Running Tool Assembly: 1.375" – 4.813"



Rebco Type 'ROTRX' Running Tool is designed to set Types: 'ROTR', 'ROTRN', 'ROTRQ', 'ROTRPT', 'ROTRNT', 'ROTX' and 'ROTXN' Locking Mandrels into its respective Nipple profiles.

This Running Tool is generally used to install tubing safety valves in the uppermost Landing Nipples.

With this Running Tool, the Lock Mandrels may be run with the Keys in the control or locating positions. The Lock Mandrel Keys or No-Go serves to locate the nipple rather than the Dogs on the Running Tool.

When a No-Go Lock is being run, the keys must be in the locating position and the Lock must be set in the first nipple in the bore of that lock size. The Running Tool gives a positive indication when the Lock is fully set.

Type 'ROTRXN' Running Tool Assembly: 5.875"

Note: Type 'ROTRXN' Running Tool is the same as 'ROTRX' in its function; the difference is that 'ROTRXN' utilizes Retainer Dogs instead of the Lugs to attach the Lock Mandrel.

NOM SIZE	LOCK MANDREL GUIDE		ASSEMBLY PART NUMBER	FISHING NECK TO ENGAGE	ENGINEERING DATA				
	TYPE	SIZE			ACTUAL OD	FISHING NECK	CONNECTION		LENGTH
						PIN	BOTTOM		
3"	'ROTX'	2.750"	41131827511	2.31"	2.62"			1 1/4" - 12	24.2"
	'ROTR'	2.875"	41131828710						
4"	'ROTX'	3.688"	41131836810	3.12"	3.62"	2.313"	1 1/16" - 10	1 7/8" - 12	24.7"
	'ROTR'		41131838110						
	'ROTX'	3.813"	41131838110						
	'ROTR'		41131838112						
	'ROTRQ'		41131838111						
	'ROTR'	4.000"	41131840010						
	'ROTR'	4.125"	41131841210						
	'ROTRQ'	4.313"	41131843110						
	'ROTX'		41131843110						
'ROTR'	41131843110								
5"	'ROTX'	4.562"	41131845610	4.000"	4.50"	3.125"		2 1/2" - 10	24.8"
	'ROTRQ'		41131845611						
	'ROTR'	5.250"	41131852510						
	'ROTRNT'	5.963"	41131859614						
	'ROTR'	5.875"	411318105870						
7"	'ROTRQ'	5.875"	41131858711	5.375"	5.81"			3 3/8" - 12	26.7"
	'ROTR'	5.963"	41131859610						
	'ROTRQ'		41131859610						
	'ROTRQ'	6.000"	41131860010						



SECTION III: RUNNING TOOLS

2013
JP042613



Type 'ROTX' Running Tool Assembly: 1.250" – 4.562"

Rebco Type 'ROTX' Running Tool is designed to run, locate and set, within respective nominal size, all Type 'ROTX' and Type 'ROTXN' Sub-Surface Tools.



NOMINAL SIZE	1.250"	1.500"	1.625"	1.875"	2.313"
ASSEMBLY NUMBER	41182012500	41182015000	41182016200	41182018700	41182023100

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB ASS'Y	1	41182045	41182046	41182046	41182049	41182050
2 *	PIN	1	18810206251	18810206881	18810206881	18810308751	18810311251
3	RETAINER	1	411853	411820	411820	41183	411811
4 *	SHEAR PIN	1	9110131250	9110131500	9110131500	9110141875	9110142250
5	CORE SPRING	1	900069	900067	900067	900030	900032
6	SPRING HOUSING	1	411849	411866	411866	411838	411842
7	CORE	1	4118228	4118227	4118227	4118230	4118231
8	DOG SPRING	1	900070	900068	900068	900031	900033
9	DOG RETAINER HOUSING	1	411856	411868	411899	411839	411844
10	LOCATING DOG	2	411875	411873	4118102	411876	411874
11 *	SPLIT RING	2	411852	411822	411822	41182	411813
12 *	LUG SEGMENT	2	411851	411824	411824	41184	411815
13	RETAINER DOG	2	411850	4118107	4118107	411840	411843
REDRESS KIT (* Included as part of Kit)			41182024125	41182024150	41182024150	41182024187	41182024250

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	1.16"	1.41"	1.59"	1.75"	2.17"	
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"	1.187"	1.375"	1.750"	
BOTTOM THREAD	3/8" - 16	3/8" - 16	3/8" - 16	1/2" - 13	5/8" - 11	
LENGTH	29.4"	30.9"	30.9"	30.0"	31.2"	
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy	
WEIGHT lbs (kg)	8.5 (3.86)	7.0 (3.15)	7.2 (3.27)	11.0 (4.49)	17.4 (7.9)	
ACCESSORIES	Assembly Sleeve (NS)	167151413137	167151413150	167151413150	167151413200	167151413250
	Test Sleeve (NS)	1671514125	1671514150	1671514162	1671514187	1671514231



NOMINAL SIZE	2.750"	2.813"	2.875"	3.313"	3.688"
ASSEMBLY NUMBER	41182027500	41182028100	41182028700	41182033100	41182036800

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB ASS'Y	1	41182047	41182047	41182047	41182051	41182048
2 *	PIN	1	18810413751	18810413751	18810413751	18840620001	18840625001
3	RETAINER	1	411829	411829	411829	4118125	411878
4 *	SHEAR PIN	1	9110142812	9110142812	9110142812	9110143380	9110143620
5	CORE SPRING	1	900034	900034	900034	900056	900036
6	SPRING HOUSING	1	411861	411861	411861	4118124	41196
7	CORE	1	4118286	4118286	4118286	4118233	4118241
8	DOG SPRING	1	900035	900035	900035	900057	900037
9	DOG RETAINER HOUSING	1	411862	411862	4118136	4118134	41198
10	LOCATING DOG	2	411872	4118277	4118139	4118133	411910
11 *	SPLIT RING	2	411831	411831	411831	4118128	411880
12 *	LUG SEGMENT	2	411832	411832	411832	4118126	411879
13	RETAINER DOG	2	411860	411860	411860	4118131	411881
REDRESS KIT (* Included as part of Kit)			41182024300	41182024300	41182024300	41182024331	41182024368

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	2.69"	2.69"	2.84"	3.25"	3.62"	
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	
FISHING NECK OD	2.313"	2.313"	2.313"	2.313"	2.313"	
BOTTOM THREAD	3/4" - 10	3/4" - 10	3/4" - 10	1 3/8" - 12	2 1/8" - 12	
LENGTH	32.0"	32.0"	32.0"	33.38"	33.4"	
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy	
WEIGHT lbs (kg)	28.8 (13.06)	28.8 (13.06)	29.0 (13.2)	36.8 (16.7)	39.6 (18.0)	
ACCESSORIES	Assembly Sleeve (NS)	167151413300	167151413300	167151413300	167151413350	167151413400
	Test Sleeve (NS)	1671514275	1671514281	1671514287	1671514331	1671514368



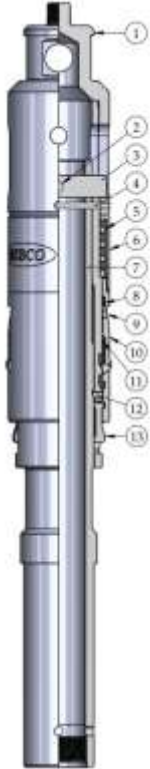
SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

Type 'ROTX' Running Tool Assembly: Continued



NOMINAL SIZE	3.813"	4.000"	4.313"	4.562"
ASSEMBLY NUMBER	41182038100	41182040000	41182043100	41182045600

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	MANDREL SUB ASS'Y	1	41182048	41182048	41182048	41182052
2 *	PIN	1	18840625001	18840625001	18840625001	18840631251
3	RETAINER	1	411829	411829	411878	4118142
4 *	SHEAR PIN	1	9110143750	9110143750	9110143750	9110144500
5	CORE SPRING	1	900036	900036	900036	900038
6	SPRING HOUSING	1	411877	411877	411877	4118143
7	CORE	1	4118241	4118241	4118241	4118232
8	DOG SPRING	1	900037	900037	900037	900039
9	DOG RETAINER HOUSING	1	411886	411897	411334	4118145
10	LOCATING DOG	2	411884	411895	4118298	4118146
11 *	SPLIT RING	2	411880	411880	411880	4118149
12 *	LUG SEGMENT	2	411879	411879	411879	4118150
13	RETAINER DOG	2	411881	411881	411881	4118151
REDRESS KIT (* Included as part of Kit)			41182024400	41182024400	41182024400	41182024550

ENGINEERING DATA:

MAXIMUM OD (DOGS IN)	3.75"	3.94"	4.28"	4.50"	
PIN THREAD CONNECTION	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	1 1/16" - 10	
FISHING NECK OD	2.313"	2.313"	2.313"	3.125"	
BOTTOM THREAD	2 1/8" - 12	2 1/8" - 12	2 1/8" - 12	2 1/2" - 10	
LENGTH	33.38"	33.38"	33.38"	33.3"	
MATERIAL	Alloy	Alloy	Alloy	Alloy	
WEIGHT lbs (kg)	39.6 (18.0)	39.8 (18.1)	43.4 (19.7)	59.8 (27.1)	
ACCESSORIES	Assembly Sleeve (NS)	167151413450	167151413450	167151413450	167151413550
	Test Sleeve (NS)	1671514381	1671514400	1671514431	1671514456

There are other Types of Running Tools used to Set Locks: Please inquire

Type '**ROTT**' and Type '**ROTSP**' - Used to run and set: Type '**ROTS**', '**ROTT**', '**ROTN**', and '**ROTQ**' Lock Mandrels.

Type '**ROTSP**' Running Tool is much the same as '**ROTT**', except that the Core is much deeper.



SECTION III: RUNNING TOOLS

2013

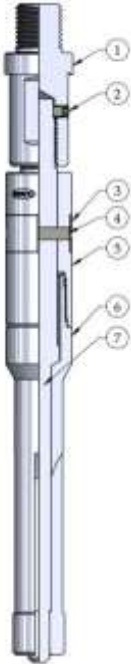
JP042613

REBCO

B - RUNNING TOOLS for TUBING MANDRELS:

Type 'DO' Running Tool Assembly: 2" - 3"

Rebco Type 'DO' Running Tool is designed to run and set Type 'ROTD' Collar Lock Mandrel.



NOMINAL SIZE	2"	2 1/2"	3"
ASSEMBLY NUMBER	4103202000	4103202500	4103203000

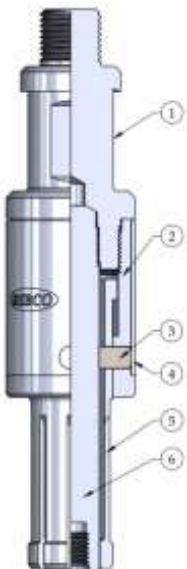
DET	PART NAME	QTY	PART NO	PART NO	PART NO
1	TOP SUB	1	4117126	411798	410354
2 *	SET SCREW	1	185506210312	185506210312	185506210312
3	SHEAR PIN RETAINER	1	4103100	4103101	4103102
4 *	SHEAR PIN	1	9110141220	9110141625	9110151874
5	HOUSING	1	410361	410358	410378
6	COLLET	1	410362	410363	410379
7	EXPANDER MANDREL	1	410360	410359	410377
REDRESS KIT (* Included as part of Kit)			41032024200	41032024250	41032024300

ENGINEERING DATA:

MAXIMUM OD	1.34"	1.75"	2.25"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	1 1/16" - 10
FISHING NECK OD	1.375"	1.750"	1.750"
WILL ENGAGE RUNNING NECK ID	.906"	1.344"	1.688"
LENGTH	13.44"	13.56"	16.93"
MATERIAL	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	4.1 (1.85)	4.9 (2.22)	5.4 (2.45)

Type 'ROTW' Running Tool Assembly: 1 1/4" - 3"

Rebco Type 'ROTW' Running Tool is designed to run and set 'ROTW' and 'ROTB' Slip-type Mandrels in tubing.



NOMINAL SIZE	1 1/2"	2" - 2 1/2"	3"	3 1/2"
ASSEMBLY NUMBER	4117201500	4117202025	4117203000	4117203500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	411773	411754	411768	4117107
2	HOUSING	1	411775	4117173	411769	4117106
3 *	SHEAR PIN	2	9110140437	9110150410	9110160500	9111470500
4	SLEEVE	1	411795	411796	411797	4117105
5	COLLET	1	411774	4117172	411770	4117108
6	PRONG	1	NOTE ¹	411755	411789	4117104
REDRESS KIT (* Included as part of Kit)			41172024150	41172024200	41172024300	41172024350

ENGINEERING DATA:

MAXIMUM OD	1.38"	1.50"	2.25"	2.62"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	1.375"	1.375"	1.750"	2.313"
WILL ENGAGE RUNNING NECK ID	.69"	.81" / 1.00"	1.50"	1.91"
PRONG BOX THREAD	None	None	5/8" - 11	5/8" - 11
LENGTH	9.31"	10.94"	9.89"	10.15"
MATERIAL	Alloy	Alloy	Alloy	Alloy
WEIGHT - lbs (kg)	2.6 (1.18)	3.2 (1.45)	5.8 (2.63)	9.0 (4.1)

NOTE¹ Prong is part of the Fishing Neck NOTE: 2" - 2 1/2" is a combination Tool



SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

C - RUNNING TOOLS for BHP - INSTRUMENT HANGERS:

Type 'BR' Soft Release Running Tool Assembly: 1.900" – 3 1/2"

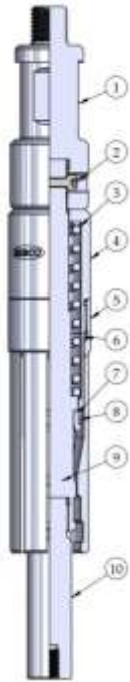
Rebco Type 'BR' Soft Release Running Tool is designed to run and set recording instruments (see [Product Code 33](#)), attached to Type 'ROTS', Type 'ROTW' and Type 'ROTZ' Locks to be landed in corresponding Nipple profiles.

Type 'ROTTs' Lock is to be set in the Tubing Coupling recess.

This tool is an up strain, slack-off setting device.

NOTE: *Jarring with this tool should be avoided, as it may cause the tool to be released prematurely.*

It is recommended that Type 'BR' Soft Release Running Tool is run on Stem or Knuckle Jars only.



NOMINAL SIZE	1.900"	2 3/8"	2 7/8"	3 1/2"
ASSEMBLY NUMBER	4101131900	4101132370	4101132870	4101133500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	1980120800	1770123400	1700111100	1700123000
2 *	CAP SCREW	1	185506110312	185506111000	185506111250	185506111250
3	SPRING	1	9000215	9000216	9000217	9000217
4	SLEEVE NUT	1	1980120200	1770121300	1700183400	1700185900
5	COLLET	1	1980120100	1770121410	1700184210	1700186410
6	SLEEVE	1	1980120500	1770121100	1700183300	1700186000
7 *	SEGMENTS	4	1980120700	1770121000	1770178700	1700186300
8 *	SNAP RING	1	1980120600	1770121200	1970181700	1710116200
9	BODY	1	1980120300	1770121600	1700183200	1700186100
10	'ROTA' SHANK - Note ¹	1	4901196763	4901196764	4901196765	4901196766
REDRESS KIT (* Included as part of Kit)			41011324190	41011324237	41011324287	41011324350

ENGINEERING DATA:

MAXIMUM OD	1.406"	1.688"	2.094"	2.625"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	15/16" - 10	1 1/16" - 10
FISHING NECK OD	1.187"	1.375"	1.750"	2.313"
LENGTH	15.56"	14.75"	17.38"	18.12"
MATERIAL	Alloy	Alloy	Alloy	Alloy

Note ¹ - Locks Type: 'ROTS' and 'ROTTs'

- Locks must be run with (up-facing) Dogs trailing.
- require 'ROTA' Shank to collapse down-facing Dogs.
- Pull required to activate the Tool: 100 to 150 lbs

- Locks Type: 'ROTW' and 'ROTZ'
- Do not use 'ROTA' Shank
- Pull required to activate the Tool: 180 lbs for 1.900" and 300 lbs for other sizes

- For Type 'ROTA' Shanks see [PRODUCT CODE 49](#), Section II: SERVICE TOOLS



SECTION III: RUNNING TOOLS

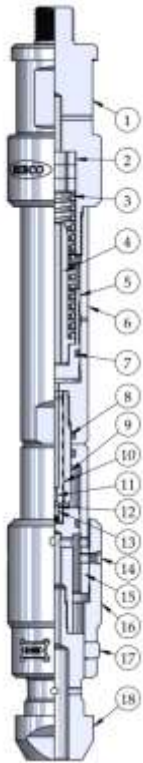
2013
JP042613



Type 'ROTHR' Hydraulic (Soft Release) Running Tool Assembly: 2" - 4 1/2"

Rebco Type 'ROTHR' Hydraulic (Soft Release) Running Tool is used to set Type 'ROTXNS' and 'ROTRNS' Soft Set Instrument Hangers (see PRODUCT CODE 33) into the Landing Nipples of the same nominal size and respective profile.

NOTE: To compensate for the weight of the Instrument (s), use correct Number of Washers (Det 2)



NOMINAL SIZE	2"	2 1/2"	3"	3 1/2"	4 1/2"
ASSEMBLY NUMBER	4106132000	4106132500	4106133000	4106133500	4106134500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	410656	410667	410671	410681	410681
2	WASHER	3	410657	410657	410657	410675	410675
3	SPRING	1	9000128	9000128	9000128	9000126	9000126
4	GUIDE	1	410658	410658	410658	410678	410678
5	BALANCE PISTON	1	410659	410659	410659	410676	410676
6	TOP CHAMBER	1	410660	410660	410660	410685	410685
7 *	TYPE 'T' SEALS	2	9115111216	9115111216	9115111216	9115111328	9115111328
8 *	TYPE 'T' SEALS	2	9115131212	9115131212	9115131212	9115131325	9115131325
9	PISTON	1	410661	410661	410661	410684	410684
10	CHOKE	3	410662	410662	410662	410677	410677
11 *	BALL	1	1831012	1831012	1831012	1831012	1831012
12 *	SPRING	1	9000127	9000127	9000127	9000127	9000127
13 *	JAM NUT	1	185906110187	185906110187	185906110187	185906110187	185906110187
14 *	SHEAR SCREW	2	185707140312	185707140312	185707140312	185707140312	185707140312
15	BOTTOM CHAMBER	1	410666	410666	410666	410683	410683
16	CARRIER	1	410663	410668	410672	410682	410688
17	LUG	3	410664	410669	410673	410679	410686
18	EXPANDER	1	410665	410670	410674	410680	410687
REDRESS KIT (* Included as part of Kit)			41061324200	41061324250	41061324300	41061324350	41061324450

ENGINEERING DATA:

MAXIMUM OD	1.86"	2.00"	2.53"	3.09"	3.78"
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"	1.750"	2.313"	2.750"	2.750"
WILL ENGAGE FISHING NECK ID	1.38"	1.81"	2.31"	2.62"	3.12"
LENGTH	19.0"	20.0"	20.2"	23.5"	23.7"
MATERIAL	Alloy	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	9.1 (4.15)	10.3 (4.67)	15.0 (6.80)	33.8 (15.33)	36.7 (16.65)

Note: Washer (DET 2) is used relative to the weight attached to the Running Tool
As a guide see Table below:

NUMBER OF WASHERS	RELATIVE WEIGHT	
	lbs	kgs
NONE	15 - 30	6.8 - 13.6
ONE	36 - 70	16.3 - 31.8
TWO	71 - 105	32.2 - 47.6
THREE	106 - 140	48.1 - 63.5



SECTION III: RUNNING TOOLS

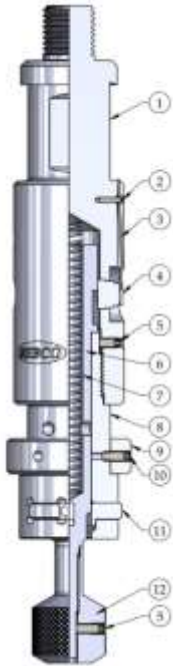
2013

JP042613

REBCO

Type 'ROTMR' Mechanical (Soft Release) Running Tool Assembly: 2" – 4 1/2"

Rebco Type 'ROTMR' Mechanical (Soft Release) Running Tool is used to set Type 'ROTXNS' and 'ROTRNS' Soft Set Instrument Hangers (see PRODUCT CODE 33) into the Landing Nipples of the same nominal size and respective profile.



NOMINAL SIZE	2"	2 1/2"	3"	3 1/2"
ASSEMBLY NUMBER	4109131870	4109132310	4109132750	4109133500

DET	PART NAME	QTY	PART NO	PART NO	PART NO	PART NO
1	FISHING NECK	1	41098	410910	410921	4109100
2 *	BUTTON HEAD SCREW	1	18532250	18532250	18532250	18532250
3 *	SPRING	1	900051	900051	900051	900051
4 *	LOCK OUT LUG	1	41095	41095	41095	41095
5 *	SET SCREW	2	185510210375	185510210375	185510210375	185510210375
6	CORE	1	410934	410935	410936	4109102
7	CORE SPRING	1	900048	900048	900048	900048
8	LUG RETAINER	1	41096	410913	410923	4109103
9	SHEAR RING	1	41093	410911	410924	4109104
10 *	SHEAR PIN	3	9110140250	9110140375	9110140375	9110140500
11	LUG	Noted	410933 (3)	410912 (3)	410925 (3)	4109105 (2)
12	CORE EXTENSION	1	41092	41092	41092	41092
REDRESS KIT (* Included as part of Kit)			41091324187	41091324231	41091324275	41091324350

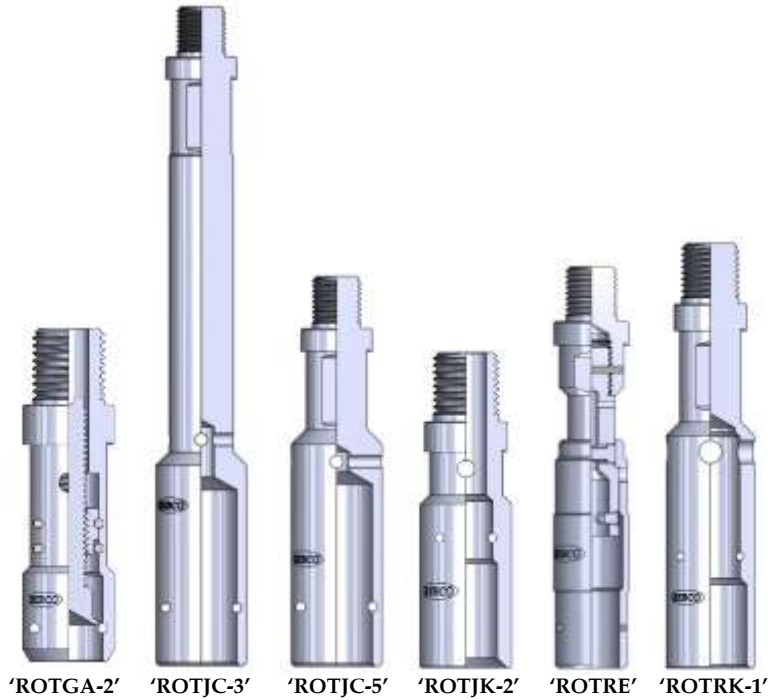
ENGINEERING DATA:

MAXIMUM OD	1.77"	2.25"	2.70"	3.24"
PIN THREAD CONNECTION	15/16" - 10	15/16" - 10	1 1/16" - 10	1 1/16" - 10
FISHING NECK OD	1.375"	1.750"	2.313"	2.313"
WILL ENGAGE FISHING NECK ID	1.38"	1.81"	2.31"	2.62"
LENGTH	12.0"	11.5"	12.25"	12.7"
MATERIAL	Alloy	Alloy	Alloy	Alloy
WEIGHT lbs (kg)	5.2 (2.36)	6.6 (2.99)	10.2 (4.62)	11.4 (5.17)

D - RUNNING TOOLS for GAS LIFT:

The following types of Running Tools are used in conjunction with Gas Lift Operations; to install 1" OD and 1 1/2" OD Valves in Side Pocket Mandrels.

Running Tool Types offered by *Rebco*:



RUNNING TOOL Type	ASSEMBLY NUMBER	USED TO INSTALL		REFERENCE MANDREL Type	ENGINEERING DATA:					
		LATCH Type	VALVE OD		MAX OD	PIN THREAD CONNECTION	FISHING NECK OD	LENGTH	WEIGHT	
								lbs	kgs	
'ROTGA-2'	410500215052	Collet	1"	'K' Series	1.187"	15/16" - 10	1.187"	4.37"	.8	.35
'ROTJC-3'	410702315065	'R' 'RA'	1 1/2"	'M' Series	1.750"		1.375"	13.12"	4.0	1.81
'ROTJC-5'	410702513112			'O' Series			7.50"	2.0	.9	
7'ROTJK-2'	410724215072	'BK' 'BK-2'	1"	'K' Series	1.312"		1.187"	4.56"	.8	.35
'ROTRE'	41130415080	'ER'					1.375"	7.34"	1.5	.70
'ROTRK-1'	411324115079	'RK'	1 1/2"	'M' Series	1.437"		1.187"	7.00"	1.4	.65



SECTION III: RUNNING TOOLS

2013

JP042613

REBCO

E - MISCELLANEOUS:

Type 'F' Running Tool:

Rebco Type 'F' Running Tool is used to set various types of sub-surface Tools; mainly tools that have external fishing necks which are pinned through the ID.

Typical Tools that can be set with Type 'F' Running Tool are: Collar Stops and Tubing (Slip) Stops; (see **PRODUCT CODE 110** and **164** respectively).



NOMINAL SIZE	PART NO	USED with TOOL TYPE		ENGINEERING DATA:				
		COLLAR STOP (PRODUCT CODE 33)	SLIP STOP (PRODUCT CODE 164)	MAX OD	PIN THREAD	FISHING NECK OD	FOR NECK ID	LENGTH
1 1/4"	41251	11025201	16414141250	1.12"	5/8" - 11	1.000"	.47"	4.50"
1 1/2"		11025202	16414141500					
1 3/4"		110252012	16414141750					
2 1/16"								
2"	41252	11025203	1.37"	15/16" - 10	1.187"	.62"	6.43"	
	4125200	16414142000						
2 1/2"	41252	11025204	1.75"	1.375"	1.187"	.71	6.43"	
	4125250	16414142500						
3"	41253	11025205	2.25"	1.375"	1.12"	1.05"	5.88"	
		11025206						1.62"
3 1/2"	4125350		16414143500	2.31"	1 1/16" - 10	1.750"	1.50"	6.00"
4"	41253	11025207	16414144500	2.25"	15/16" - 10	1.375"	1.62"	5.88"
				3.50"	1 1/16" - 10	2.313"	2.365"	6.63"

Type 'JU' (Jay) Unlatching Running Tool:

Rebco Type 'JU' Unlatching Running Tool is an accessory tool used to set Instruments into the well bore on top of the pre-set stop. See **Section VI - BHP Tools** for more details.

To Run: Attach the 'J' Head to the Instruments (Recorders). The Running Tool's 'JAY' slot allows the 'J' Head to be unlatched by the weight of the tool string. 'J' Heads fishing neck is used to retrieve the instruments at later date with appropriate Pulling Tool, (See **Section IV, PRODUCT CODE 40**).



NOMINAL SIZE	ASSEMBLY NUMBER		ENGINEERING DATA: for the RUNNING TOOL			
	RUNNING TOOL	For 'J' HEAD with FN Size	MAX OD	PIN THREAD	FISHING NECK OD	LENGTH
1 1/2"	4107161500	1.000"	1.19"	15/16" - 10	1.187"	15.19"
2"	4107162000	1.187"	1.50"		1.375"	
	4107162001	1.375"				
3" - 3 1/2"	4107162500	1.750"	2.25"	1.75"	15.62"	
4" - 4 1/2"	4107163000	2.313"	2.87"	1 1/16" - 10	2.313"	16.0"

'J' Head(s) is ordered separately