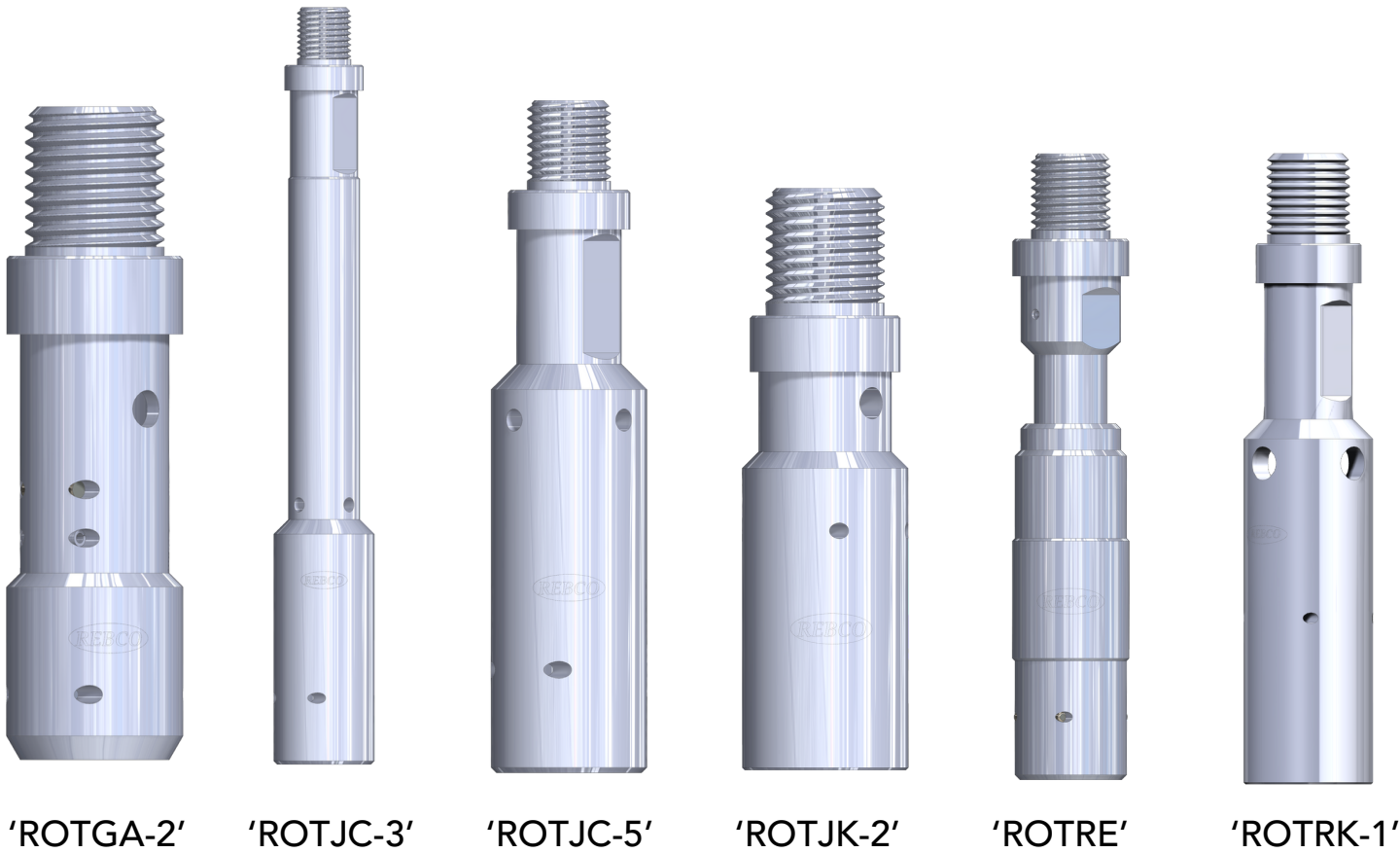




SECTION III: RUNNING TOOLS

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



TECHNICAL DATA								
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
'ROTGA-2'	410500215052	Collet	1"	'K' Series	1.187"	15/16" - 10	1.187"	4.37"
'ROTJC-3'	410702315065	'R' 'RA'	1 1/2"	'M' Series	1.750"		1.375"	13.12"
'ROTJC-5'	410702513112			'O' Series				7.50"
7'ROTKJ-2'	410724215072	'BK' 'BK-2'	1"	'K' Series	1.312"		1.187"	4.56"
'ROTRE'	41130415080	'ER'			1.375"		1.375"	7.34"
'ROTRK-1'	411324115079	'RK'	1 1/2"	'M' Series	1.437"		1.187"	7.00"