

DEEP CASINGTOOLS

INNOVATIVE CASING & COMPLETION TECHNOLOGY. FIRST TIME... TO TARGET DEPTH. www.deepcasingtools.com

GAME CHANGING
RAPID DRILL-THRU
CASING RUNNING SYSTEM

**TURBOCASER
EXPRESS**

Deep Casing Tools
Unit 2, 51 York Street
Aberdeen AB11 5QP
United Kingdom
Tel: +44 (0)1224 572 070
Email: sales@deepcasingtools.com

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GAME CHANGING
TURBINE POWERED
COMPLETION REAMING SYSTEM

SHALERUNNER

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TURBOCASER EXPRESS™

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TURBOCASER EXPRESS

**RAPID DRILL-THRU
TURBINE POWERED CASING
AND LINER REAMING SYSTEM**

The Turbocaser™ Express is a drillable reaming system that enables casings and intermediate liners to be landed at target depth first time.

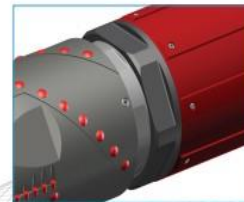
With the new ability to ream while running, the casing can be run sooner while the hole is in best condition, eliminating wiper trips and open hole exposure.

Placed at the end of the string, Turbocaser™ Express down-hole turbine provides high speed rotation of a reamer shoe, independent of casing string rotation. The Turbocaser™ Express is used to re-establish open hole conditions by removing debris, ledges, filter cake or other obstructions to ensure the string reaches target depth.

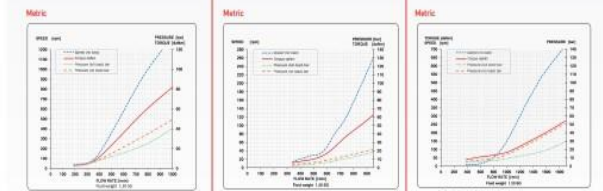
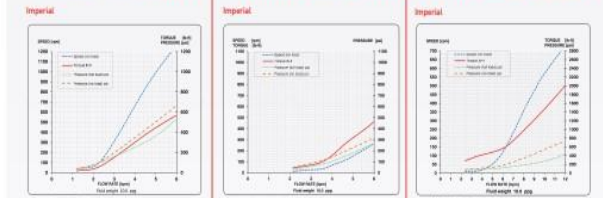
The casing is cemented in the normal manner. The Turbocaser™ Express is designed for very rapid drill out. Drill out time of the Turbocaser™ Express motor and system is under 15 minutes and a dedicated drill out is not required.

Turbocaser™ Express technology has been used to run full strings and liners to depth in difficult wells where conventional techniques have not been successful. Landing casing at the planned depth, with less risk and greater predictability, is the foundation of well integrity.

- ELIMINATES WIPER TRIPS
- LANDS CASINGS AND LINERS ON DEPTH
- NO STRING ROTATION NECESSARY
- DRILL THRU AND DRILL AHEAD
- LOW FLOW RATE



7'0" TURBOCASER™ EXPRESS 7'5/8" TURBOCASER™ EXPRESS 9'5/8" TURBOCASER™ EXPRESS



Standard Specification	Imperial		Metric	
	7'0"	7'5/8"	7'0"	7'5/8"
Top Body OD A	7.717"	8.954"	196.00mm	226.15mm
Body OD B	7.767"	8.911"	202.81mm	227.10mm
Stabilizer OD C	8.211"	9.591"	208.74mm	243.48mm
Reamer Bit "OD D	8.250"	9.625"	209.55mm	244.48mm
Overall Length E	12.808ft	14.662ft	3.90m	5.02m
Tool Weight	666lb	1.151lb	302kg	522kg
Top Connection *	7" VAM TOP RT 42L	7.625" VAM TOP 42J	7" VAM TOP RT 42L	7.625" VAM TOP 42J
Max DLS	14.0 deg/ft	13.0 deg/ft	14.0 deg/ft	13.0 deg/ft
Drift	4.151"	4.762"	106.15 mm	121.30mm

TURBO CASER – DEEP CASING TOOLS



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SHALERUNNER™



TURBINE POWERED COMPLETION REAMING SYSTEM

The Shalrunner™ provides high-speed reaming to land completions at target depth. The Shalrunner™ reams while running into hole without the need to rotate the liner or completion.

The unique design combines rotational power with low circulating pressures. The completion is protected from vibration, from reactive torque and free from pressure spikes that could prematurely set the liner hanger or packers.

The Shalrunner™ can eliminate a wiper trip which also allows the completion to be run sooner.

Completing longer laterals with lighter weight tubulars and lower torque connections is now achievable using the Shalrunner™.

Shalrunner™ is specifically designed for well construction in all territories. The tools have optimized power systems and specific dimensions for very high dogleg severity.

- GETS THE COMPLETION TO DEPTH
- ELIMINATES DEDICATED WIPER TRIPS
- NO PRESSURE SPIKES – PROTECT THE LINER HANGER
- LOW VIBRATION – PROTECT COMPLETION COMPONENTS
- LOW FLOW RATE – MINIMIZE ECD
- OPEN FLOW MOTOR – REDUCE SURGE
- HIGH DOGLEG CAPABILITY

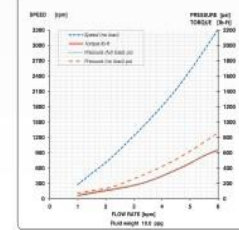


Standard Specification:

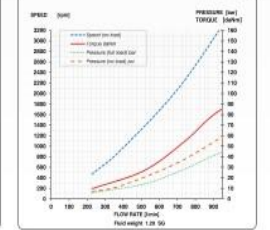
	Imperial	Metric
Top Sub OD A	5.118"	130.00mm
Body OD B	4.921"	125.00mm
Stabilizer OD C	5.840"	148.43mm
Reamer Bit OD D*	5.7/8"	149.23mm
Overall Length E	9.390 ft	2.86m
Tool Weight	353 lb	160kg
Top Connection*	4.5" 8 Round LTC #13.5	4.5" 8 Round LTC #13.5
Max DLS	32.0 deg/100ft in 6" OH	32.0 deg/30m 152.4 OH

*Client specified

Imperial



Metric



SHALERUNNER – DEEP CASING TOOLS

Qty	Description
1	479677 SHOE,REAMER:TURBOCASER EXPRESS,9-5/8IN 40#, L80, Van Top DEEP CASING TOOLS TCE958-00130 05-JUL-2014
1	479675 SHOE,REAMER:TURBOCASER EXPRESS I,7IN, OD,26LB/FT,L80,VAM TOP HC,2500PSI DEEP CASING TOOLS TCE700-00130 19-JAN-2015
1	479676 SHOE,REAMER:TURBOCASER EXPRESS II,7IN OD,26#,GR, L80,VAM TOP HC,1600PSI DEEP CASING TOOLS TCE700-00131 6-OCT-2014
1	490546 SHOE,REAMER:TURBINE POWERED,5IN OD,12.6L - No additional information
2	479673 SHOE,REAMER:SHALERUNNER,5IN OD,12.6#,GR P110,VAM, TOP,1200PSISHOE ,REAMER:SHALERUNNER,5IN OD,12.6#,GR, P110,VAM TOP,1200PSI DEEP CASING TOOLS TRS500-00134 12-JAN-2015
2	479673 SHOE,REAMER:SHALERUNNER,5IN OD,12.6#,GR P110,VAM, TOP,1200PSISHOE ,REAMER:SHALERUNNER,5IN OD,12.6#,GR, P110,VAM TOP,1200PSI DEEP CASING TOOLS TRS500-00134 19-JA

INVENTORY LIST







CASINGTOOLS

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Fax: +44 (0)1224 478 985

Customer Purchase Order: 4300920702

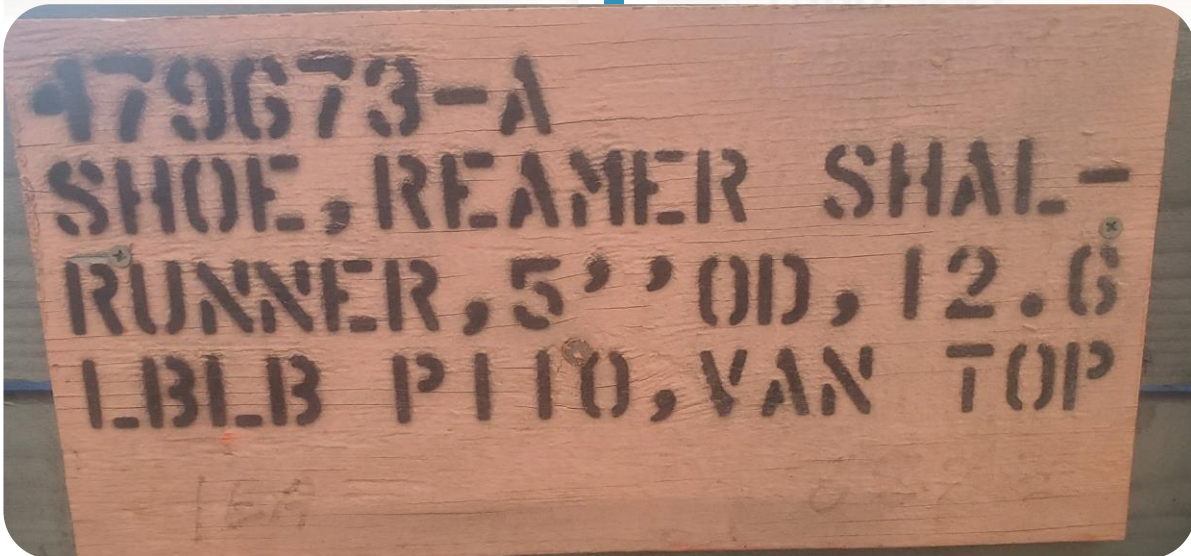
Deep Casing Tools Reference: 50140048

to: BP Exploration (Alaska) Inc
GPB-Cold Storage Pad
Prudhoe Bay
AK 99734
USA
Tel: +1-800-610-7286

Consignee: BP Exploration (Alaska) Inc
PO Box 196611
Anchorage
AK 99519-6611
USA
Tel: +1-855-463-4772

Part Number: TCE700-00131 Serial Number: TCE700-00031-01

Rate	Description	Quantity	Dimensions	Gross Weight (kg)	Net Weight (kg)
2	TCE700 TURBOCASER EXPRESS	1	400cm x 55cm x 48cm	425	325



ATTACHED: 20 MESH FILTER x 6 PIECES + FIXING WIRE

TO BE FIXED TO PUMP SUCTION STRAINER AS PER
OPERATING INSTRUCTIONS "MUD QUALITY AND
OPERATIONS MANAGEMENT, PART (D)"

EXTRACT

- (d) In all cases, but particularly for poor mud environments, Deep Casing Tools recommends the use and installation of a 20 MESH screen directly on the pump suction strainer - on the MUD pit side (so the screen is always pushed against the strainer plate). ALL triplex pump inlets need to be equipped with the filter screens provided. If plugging of this filter does occur, the pump will cavitate and the driller will be alerted to this issue. 6 sections of 20 MESH filters and appropriate fixing wire are provided with every DCT tool for this purpose.

