

RAZOR RAM

DOWNHOLE FORCE GENERATOR
FOR FISHING & STROKING

INTRODUCTION

RAZORRAM is a downhole pull/push force generator which can be configured to retrieve stuck fish or manipulate downhole completion items such as production valves and operates as a Plug & Play add on to the RAZORBOSS Plug & Play platform of tools.

RAZORRAM contains an integral anchor which provides push and pull capability in a range of tubing and casing sizes from 2-7/8" to 9-5/8". RAZORRAM incorporates a shear ring release mechanism which shears prior to the stroke being fully extended, this allows the tool to release and prevents the tool becoming stuck in situations where the fish cannot be retrieved.

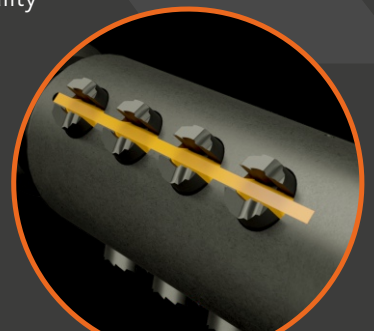
RAZORRAM utilises the RAZOR Control Module (RCM), a disposable alkaline battery pack for power requirements and which delivers a stroking operation per pack. Additionally, the tool electronics are integrated into the RCM and therefore are also changed every run which helps maintain service quality by eliminating a potential fatigue failure point. The alkaline pack is easy to handle, easy to transport, recyclable and is wellsite safe.

RAZORRAM can be run in real time or memory mode and is suitable for use with all conveyance methods including mechanical slickline, digital slickline, electric line, coiled tubing, sucker rod or jointed work string.

RAZORRAM records voltage, current, status, time and temperature for quality-assurance purposes.

FEATURES & BENEFITS

- Non-Lithium which improves safety, handling and logistics
- Rugged, reliable and efficient fishing/stroking tool
- Eliminates the need for jarring
- Short, light weight design aids in mobilisation via winged aircraft or helicopter
- Ideal for operations with limited rig up height i.e. rig-less operations
- Versatile push or pull tool operation
- Cost-effective solution when compared to rival fishing/stroking methods
- Tool can be activated in real time or memory mode
- Tool electronics are changed each run to ensure quality & reliability
- Conveyance flexibility
- High temperature tool qualified to 437°F for 6 hours



RAZOR RAM

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odfjell
technology

RAZOR HQ: UNITS 1 & 2, BURNSIDE
INDUSTRIAL ESTATE WELLHEADS ROAD,
DYCE, ABERDEEN AB21 7HG

SPECIFICATIONS

RAZORRAM

Outside Diameter	2.125"	2.720"	3.600"
Tool Length	86.40" / 7.2 feet	91.10" / 7.59 feet	84.87" / 7.07 feet
Tool Weight	63.20 lbs	96.20 lbs	148.00 lbs
Standard Stroke length	10.00"	10.00"	10.00"
Stroke Speed	0.50" per minute	0.50" per minute	0.50" per minute
Fish Neck	EL & SL - 1.750"	EL - 3.000" / SL - 2.313"	EL & SL - 2.313"
Nominal Pull/Push Force	14,000 lbs	18,000 lbs	25,000 lbs
Maximum Pull/Push	20,000 lbs	40,000 lbs	60,000 lbs
Safety Shear Out	YES	YES	YES
Maximum Operating Pressure	15,000 psi	15,000 psi	15,000 psi
Max Temp – Standard Tool	250°F for 8 hours 260°F for 6 hours	250°F for 8 hours 260°F for 6 hours	250°F for 8 hours 260°F for 6 hours
Max Temp – RAZORHEAT Tool	380°F for 12 hours 425°F for 6 hours	380°F for 12 hours 425°F for 6 hours	380°F for 12 hours 425°F for 6 hours
Upper Connection	Slickline: 1 1/16" Sucker Rod // Eline: 1 3/16" UN GO // Pipe: As Required		
Lower Connection	1 1/16" SR Box	1 1/16" SR Box	1 9/16" SR Box



APPLICATIONS INCLUDE

- PLUG RETRIEVAL
- CROWN PLUG RETRIEVAL
- DOWN HOLE HAMMER
- BREAKING OF CERAMIC OR GLASS DISCS
- FISHING OF OBJECTS STUCK IN THE WELLBORE
- PULLING HARD TO RETRIEVE GAS LIFT VALVES
- OPTION TO HEAVY DUTY FISHING OPERATIONS
- STROKING OF TIGHT OR STUCK VALVES
- APPLYING HIGH DOWNWARD FORCE ON WELLBORE OBJECTS

Note: Larger OD, Higher Force tools available on request.
Longer stroke tools available on request.

