

# Matador RSS Optimized Motors

## Black Diamond Matador RSS Optimized Motor: Built for Precision and Endurance

At Black Diamond, we understand that with smooth and precise Rotary Steerable System (RSS) drilling comes more expensive operating costs and higher lost-in-hole exposure. RSS drilling operators also require a steady, controlled flow of drilling fluid to achieve the efficient rate of penetration they desire.

Typical mud-lubricated motors can start a run with 5% bypass which can increase to 15% or more by the end of the run. This loss of effective flow at the RSS can severely affect its performance and even its functionality which would be further amplified in flow control situations.

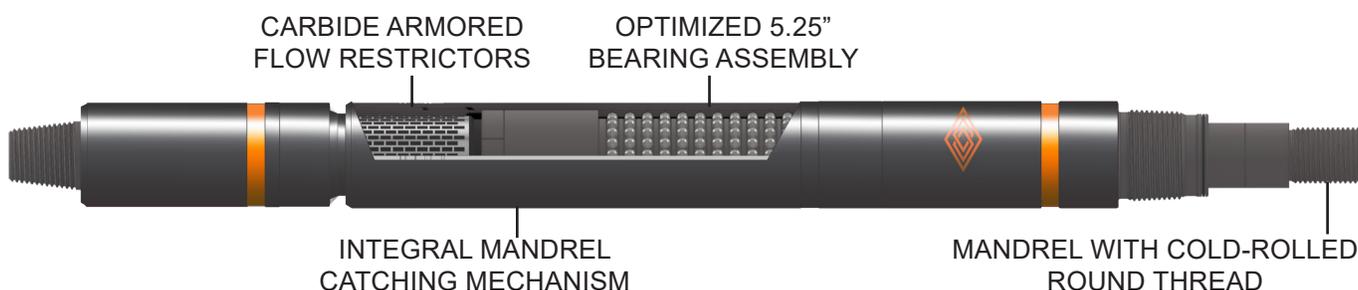
Black Diamond's Matador solves this effective loss of RSS performance by optimizing the fluid bypass across the entire run. By maintaining a consistent fluid loss the RSS achieves expected pad force and so predictable, high-performance directional control leading to higher effective ROP and a better quality wellbore.

Equipped with a straight housing and pin-down mandrel, Matador is the plug-and-play RSS integration which delivers efficient, controlled drilling while meeting the demands of precision and endurance in every application.

## Features and Benefits

- Flow restrictor system optimized for RSS drilling
  - More consistent, and better control of bypass throughout the entire run
  - 30% decrease in bypass compared to competitor motors
  - Full carbide sleeve on upper flow restrictor provides unparalleled durability
- Overhauled bearing assembly optimized for 5.25" OD
- Cold-rolled round thread on output mandrel reduces chance of fatigue cracking and allows higher torque
- High torque rotor connection
- Tough integral mandrel catch mechanism will not back off in a fishing operation
- Straight housing and pin-down mandrel for RSS applications
- Options include: Integral blade stabilizer, rotor retainer and/or flex top sub, flex or hybrid flex driveline

SPECIFICATIONS				
Series Reference	Nominal OD (in.)	Bearing Assembly OD (in.)	Hole Size (in.)	Standard Connection (API)
M42 (Matador)	5 1/4	5 1/4	6 1/8 - 7 7/8	XT-39 Pin Down
Recommended Operating Parameters				
WOB (lbs)	Bit Overpull (lbs)	Torque (lbf-ft)	Flow Rate (gpm)	
74,000	74,000	14,000	450	
Static Capacity				
WOB to Re-run (lbs)	Bit Overpull to Re-run (lbs)	Absolute Body Overpull (lbs)	Torque (lbf-ft)	
230,000	155,000	424,000	14,000	





## LOCATIONS



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