

**DRILL. DEPLOY**  
**FRICION REDUCTION TOOL**  
**FASTER. FARTHER. SMARTER.**



6.75" / 7.00"



Product currently in development.  
 Contact InFocus for further details.

**INNOVATION**  
**AGITATION**

**The NEW** Friction Reduction Tool is based on InFocus' highly successful AMP: All Metal Power section technology. Like the AMP, the Friction Reduction Tool is all-metal construction - with absolutely no elastomer present.

It is designed with double-shouldered connections throughout, and will operate in temperatures up to 456°F. The Friction Reduction Tool operates at a frequency of 3 - 10 Hz.

Specifications		
Overall Length	73.75 in (1875 mm)	
Standard Diameter Available	6.75 / 7.00 in	171 / 178 mm
Top Connection	4 1/2 IF	NC 50
Bottom Connection	4 1/2 IF	NC 50
Temperature	456°F	236°C
Flow Rate - Gallons per Minute	300 - 750+ GPM	
Flow Rate - Liters per Minute	1140 - 2839+ LPM	
Flow Rate - Barrels per Minute	7 - 18+ bbl/min	
Frequency	3- 10 Hz	

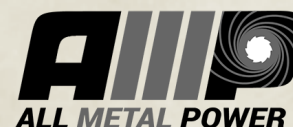
Operational specifications are for reference only. Actual tool performance may vary depending on a variety of downhole conditions. Performance data is subject to change without notice.

**FEATURES**

- Robust all-metal design with no elastomer
- Double shouldered connections with metal-to-metal seals
- Temperature compatible to 456°F
- Pressure drop can be calibrated to customer-specific requirements.

**Ideal:**

- Any application where friction reduction is needed for a smoother operation
- Reduction of helical buckling and assists with optimizing WOB
- Compatible with all BHA's in drill strings and workover strings including coiled tubing
- In wells with multi-phase flow (N2)
- For spotting acid or xylene during multi-step clean outs
- In HP/HT wells
- In all Geothermal applications
- With High Chloride produced water
- With Produced water with hydrocarbon present (condensate)
- With H2S present in the wellbore



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