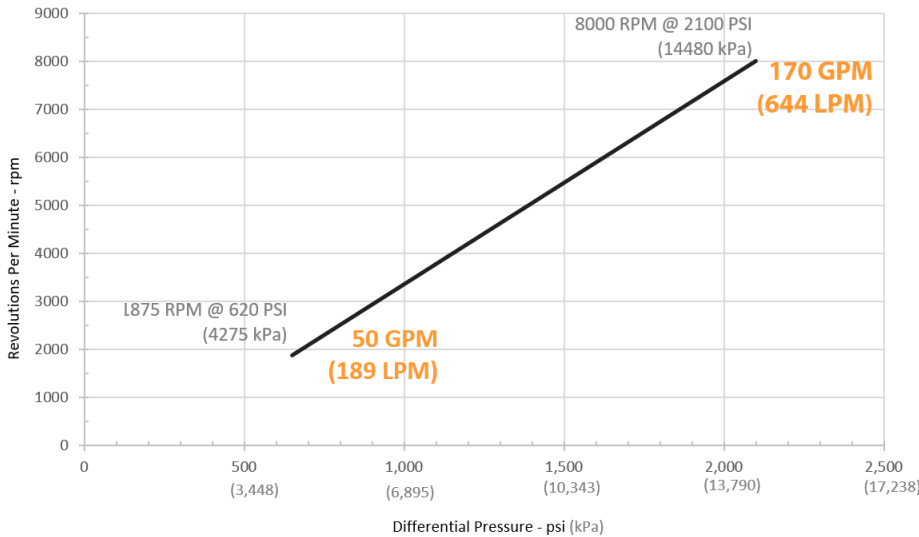


TOUCAN TORNADO - 2.875"

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Optional 2-7/8" head configuration



3-1/2" Standard Head pictured

	Imperial	Metric
Overall Length	28.46 in	723 mm
Standard Head Gauge Diameters Available	2.875 and 3.5 in	73 and 89 mm
Custom Head Gauge Diameters (upon request)	2.875 to 4.00 in	73 to 102 mm
Top Connection	2 3/8 PAC, or other specified	
Hole Size	Min. 3"	Min. 77 mm
Casing Size	N/A	N/A
Flow Rate	50 - 170 GPM	189 - 644 LPM
Rotational Speed	1875 - 8000 RPM	
Pressure Drop	620 - 2100 psi	4275 - 14480 kPa

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.

LCM Guidelines

Lost Circulation Material

When operating the Tornado, certain lost circulation materials (LCM) can be used safely by following these recommended parameters:

- Particle size should be LESS than 60 – 100 MESH size or smaller.
 - Larger particle sizes or heavy concentrations of fibrous material tend to start plugging up the Tornado's internal ports that can lead to circulation problems through the Tornado reducing operating performance and potentially plugging the tool off completely.
 - LCM should be added slowly in order to avoid plugging the system.
- NOTE:** Always follow the manufacturer's instructions for mixing.
- Add material away from the pump intake. Use a pre-mix system if available.

Any issues or concerns, please contact your Toucan Downhole Solutions representative.

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