

# 6.50" | 6.75" | 7857 CONFIGURATION

(165 mm) (171 mm)



## SPECIFICATIONS

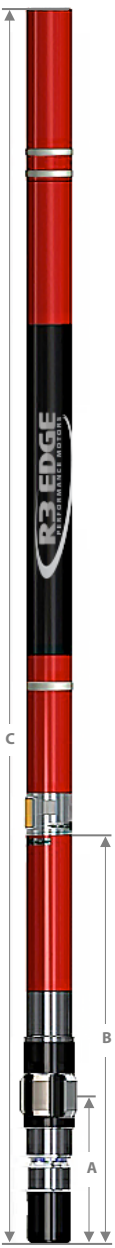
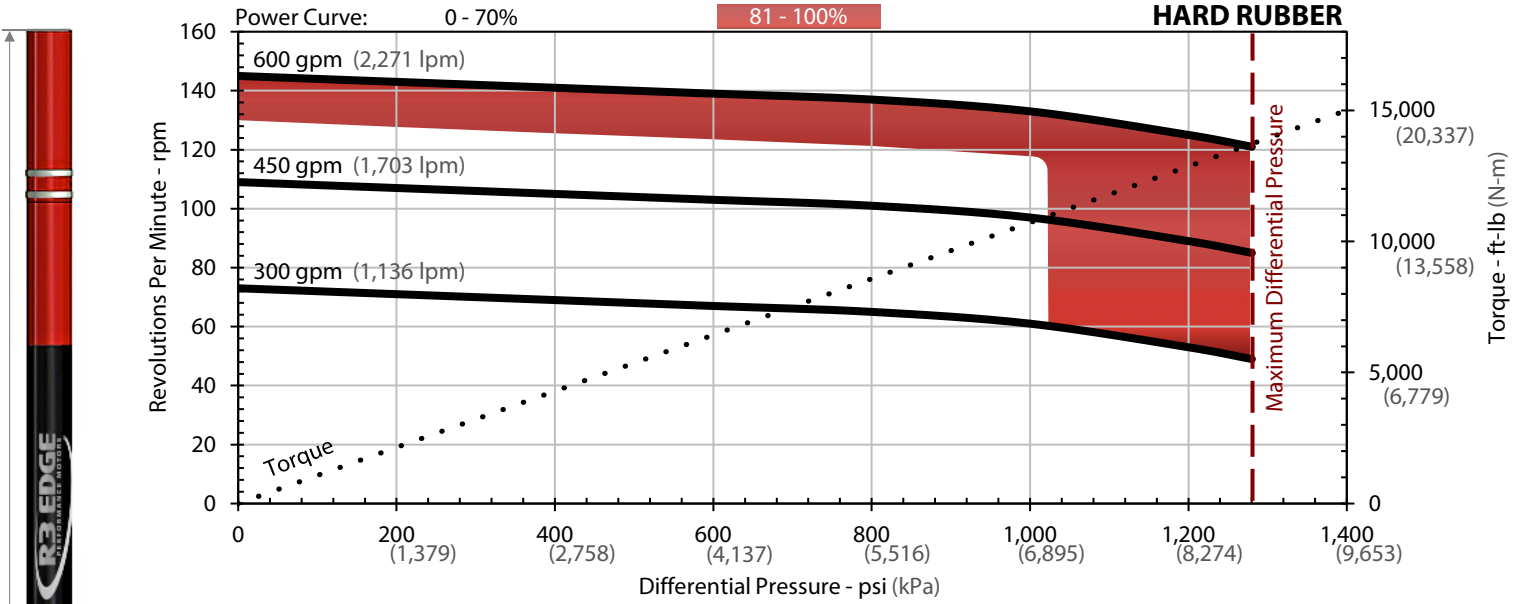
|                                | IMPERIAL             | METRIC                 |
|--------------------------------|----------------------|------------------------|
| Maximum Differential Pressure  | 1,280 psi            | (8,825 kPa)            |
| Torque at Maximum Differential | 13,720 ft-lb         | (18,600 N-m)           |
| Stall Torque                   | 20,580 ft-lb         | (27,900 N-m)           |
| Flow Range                     | 300 - 600 gpm        | (1,136 - 2,271 lpm)    |
| RPM Ratio                      | 0.24 Revolutions / g | (0.06 Revolutions / l) |
| RPM Range                      | 73 - 145 rpm         | (73 - 145 rpm)         |
| Recommended Hole Sizes         | 7.875 - 8.75 in      | (200 - 222 mm)         |
| Maximum Weight on Bit          | 105,000 lb           | (46,700 daN)           |
| Maximum Overpull (Static)      | 479,000 lb           | (213,100 daN)          |
| Overall Weight                 | 2,625 lb             | (1,191 kg)             |

## LENGTH

|                   | IMPERIAL  | METRIC   |
|-------------------|-----------|----------|
| (A) to Stabilizer | 15.10 in  | (0.38 m) |
| (B) to Adj. Bend  | 56.70 in  | (1.44 m) |
| (B) to Fixed Bend | 53.50 in  | (1.36 m) |
| (C) Overall       | 380.54 in | (9.67 m) |

## ADJUSTABLE

|               | IMPERIAL     | METRIC       |
|---------------|--------------|--------------|
| Make-Up Value | 30,000 ft-lb | (40,700 N-m) |



## 0 - 3° ADJUSTABLE

| BEND  | 7.875" HOLE SIZE |        | 8.50" HOLE SIZE |        | 8.75" HOLE SIZE |        | P<br>R<br>E<br>D<br>I<br>C<br>T<br>E<br>D |
|-------|------------------|--------|-----------------|--------|-----------------|--------|---|
|       | SLICK            | 1 STAB | SLICK           | 1 STAB | SLICK           | 1 STAB |   |
| 0.39° | 0.7              | 2.2    | -               | 2.5    | -               | 2.7    |   |
| 0.78° | 3.5              | 4.7    | 1.9             | 5.0    | 1.3             | 5.2    |   |
| 1.15° | 6.2              | 7.1    | 4.5             | 7.4    | 3.9             | 7.5    |   |
| 1.50° | 8.7              | 9.4    | 7.0             | 9.7    | 6.4             | 9.8    |   |
| 1.83° | 11.0             | 11.5   | 9.4             | 11.8   | 8.7             | 11.9   |   |
| 2.12° | 13.1             | 13.4   | 11.5            | 13.7   | 10.8            | 13.8   |   |
| 2.38° | 14.9             | 15.0   | 13.3            | 15.3   | 12.7            | 15.5   |   |
| 2.60° | 16.5             | 16.6   | 14.9            | 16.8   | 14.2            | 16.9   |   |
| 2.77° | 17.5             | 17.7   | 16.1            | 17.8   | 15.4            | 18.0   |   |
| 2.90° | 18.4             | 18.6   | 17.0            | 18.7   | 16.4            | 18.8   |   |
| 2.97° | 18.8             | 19.0   | 17.5            | 19.1   | 16.9            | 19.3   |   |
| 3.00° | 19.0             | 19.2   | 17.7            | 19.3   | 17.1            | 19.4   |   |

## FIXED HOUSING

| BEND  | 7.875" HOLE SIZE |        | 8.50" HOLE SIZE |        | 8.75" HOLE SIZE |        | P<br>R<br>E<br>D<br>I<br>C<br>T<br>E<br>D |
|-------|------------------|--------|-----------------|--------|-----------------|--------|---|
|       | SLICK            | 1 STAB | SLICK           | 1 STAB | SLICK           | 1 STAB |   |
| 1.50° | 8.9              | 9.5    | 7.2             | 9.8    | 6.5             | 9.9    |   |
| 1.75° | 10.7             | 11.1   | 9.0             | 11.4   | 8.3             | 11.5   |   |
| 1.90° | 11.7             | 12.1   | 10.0            | 12.4   | 9.3             | 12.5   |   |
| 2.00° | 12.4             | 12.7   | 10.7            | 13.0   | 10.1            | 13.1   |   |
| 2.12° | 13.3             | 13.5   | 11.6            | 13.8   | 10.9            | 13.9   |   |
| 2.25° | 14.2             | 14.3   | 12.6            | 14.6   | 12.0            | 14.7   |   |
| 2.50° | 15.9             | 16.0   | 14.3            | 16.2   | 13.6            | 16.4   |   |
| 2.60° | 16.6             | 16.7   | 15.0            | 16.9   | 14.3            | 17.0   |   |

Figures are for reference only. Stabilized build rates assume a lower stabilizer 0.125" undergauge. Actual performance may vary based on tool and operating conditions. Refer to temperature and mud scaling curves for optimal performance and reliability. Rotating above 1.50° may cause damage to the performance motor at certain RPM's. Running above 80% will be done so at client's risk. Contact your R3 EDGE representative to confirm ideal operating specifications. Updated July 2014.