



THE CARLYLE JOHNSON MACHINE COMPANY, LLC

MAXITORQ® Torque Limiters Maintenance and Adjustment

Carlyle Johnson Torque Limiters can be pre-set to transmit torque constantly regardless of the speed of the drive mechanism. An adjusting nut on the end of the hub regulates spring pressure against a multiple steel-on-bronze friction disc assembly. When over-tensioning or a jam occurs the clutch will slip but the torque level is sustained. The torque limiter continues to drive the machine at the pre-set torque level.

Adjustment: Start with a light setting and gradually tighten the adjusting nut with a spanner wrench until the increased spring pressure drives the torque limiter without slipping. The torque transmitted by the clutch at the desired setting will remain substantially constant regardless of the rotating speed. The spacing or "gap" between the pressure ring and the facing bronze disc is a measure of the torque.

MAXITORQ® steel-on-bronze friction discs are considerably more predictable in dynamic and static torque properties than more commonly used fiber discs. They also last longer.

Please call us at 860-643-1531 ext. 116 for questions on evaluations and repairs.