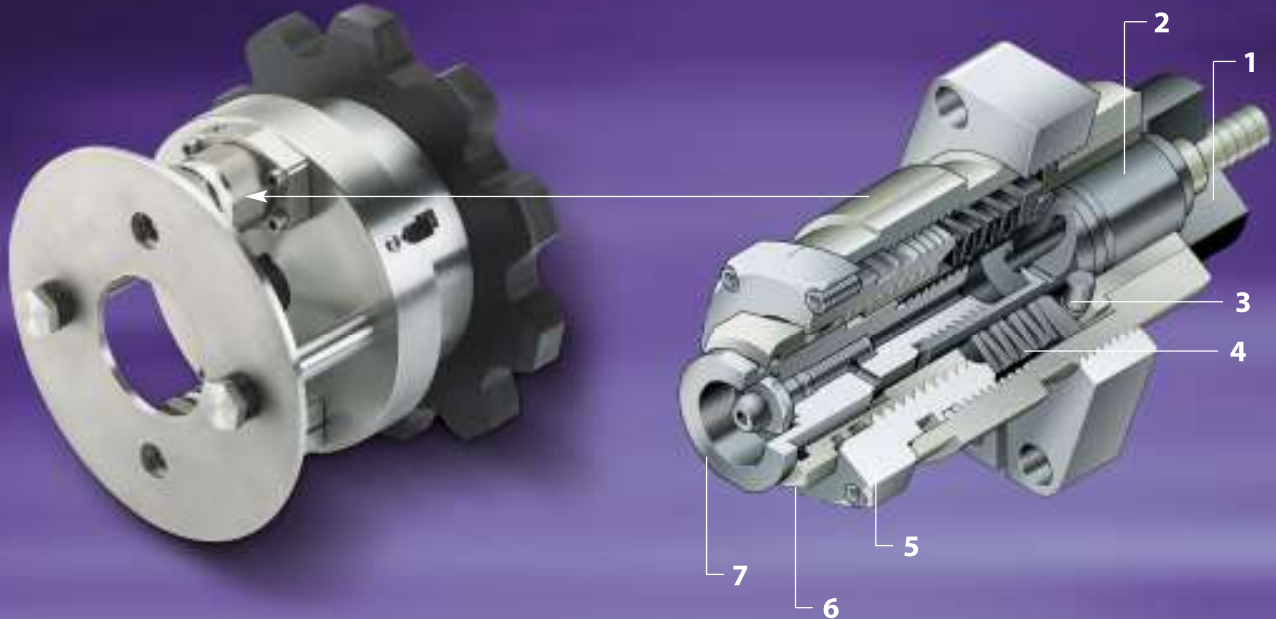


TORQUE LIMITER SERIES 820

Quality and Autogard are synonymous with overload protection. The company's reputation for high quality products is derived from over 35 years of design innovation and production. Autogard products are manufactured to meet ISO 9001 using the latest machine tools and high quality materials.



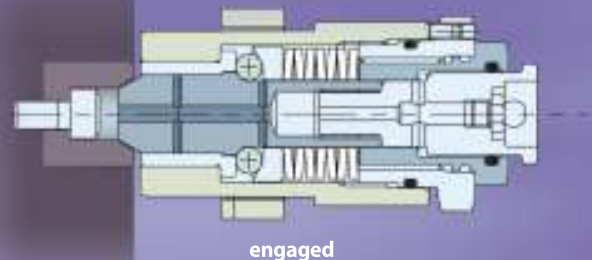
The Autogard Series 820 has been designed to meet the emerging need for a high torque, high and low speed Torque Limiter.

The Torque Limiter is designed using a modular principle. The trip torque setting can be set to virtually any value. It is dependant upon the radius at which the modules are located and the number of modules used.

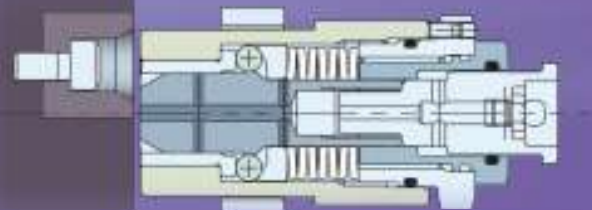
A hardened seat (1) is built into one half of the Torque Limiter. The module unit is then located into the opposing flange in such a way that the torque is transmitted between the plunger (2) and the hardened seat. This produces an end thrust in the plunger in proportion to the applied torque. This force is resisted by a ring of segments (3) trapped between a flat surface and a conical washer loaded by disc springs (4). When the axial force reaches a level greater than the reaction force through the spring mechanism, the plunger will retract forcing the segments up the plunger slope and allowing the plunger to disengage from the hardened seat. The Torque Limiter is now allowed to run free.

The trip torque is externally adjusted and is achieved by turning the adjustment nut (5) to increase or decrease the spring pressure. Resetting is accomplished by simply aligning the two halves, positioning the plunger over the hardened seat, and tapping the reset pin (7) with a soft hammer. Automatic reset versions are also available.

The modular Torque Limiter may incorporate an optional limit switch plate, which moves on trip and can operate a switch to stop the drive.



engaged



disengaged

TORQUE LIMITER SERIES 820

Features and Benefits:

- Accurate and consistent torque setting ensuring reliable and repeatable torque overload protection.
- Instant and complete disengagement of the driving and driven inertias ensuring optimum protection.
- Trip torque can be adjusted easily without removing the modules from the Torque Limiter.
- Vernier scales are provided on each module allowing for accurate setting of the modules.
- In the event of an overload, standard limit switches or proximity sensors can provide automatic motor shutdown.
- The module can be quickly and easily reset. Manual or automatic resets are available.
- Manual disengagement allows for the unit to be disconnected for maintenance purposes.
- Integral grease fitting allows for periodic lubrication of the unit without removing it from the drive line.
- Wide range of mounting configurations ensures the right solution for any problem.
- Drop-out centre section allows the Torque Limiter to be removed from the drive line without moving the equipment.



Manual disengagement nut (6) can be used to disengage the module, without affecting the torque setting. By simply rotating the sleeve back to its original position and hitting the reset pin with a soft hammer, the unit is once again fully operational.



The vernier allows for accurate and consistent adjustment of each module.

The specifications contained within this brochure are correct at the time of going to print. Autogard are continually reviewing and updating the specifications on all its product range and therefore reserve the right to change any detail.