

Brunel Safety Element Torque Limiters

Features and Benefits / How to Select and Order

The Brunel Safety Element Torque Limiters have been specifically designed to offer overload protection on applications where very high torques are transmitted, and so extend the range covered by the standard Brunel units.

Gone are the problems associated with slow reaction electrical overloads, shear pins which give a wide torque variation, and rapidly overheating slip clutches.



Features and Benefits

Complete disengagement on overload

No torque transmission after overload release

All metal, totally enclosed

Long life in harsh environments; completely enclosed torque transmitting components

Easy to reset

Reduces downtime, lost production, saves time and money; the safety elements can be reset in minutes; eliminate searching for misplaced shear pins; can be reset by the operator

Tamperproof torque adjustment

Virtually eliminates increasing the capacity of the drive by unauthorized personnel without the use of special tools, shims, springs, spacers, etc.

Quick and complete disengagement

Eliminates problems associated with slow reaction electrical overload sensing devices, shear pins (which give a wide torque range) and rapidly overheating slip clutches

Positive drive/no slip

Eliminates damaging heat build-up and maintains equipment timing while engaged

Torque setting accuracy maintained indefinitely

Ease of maintenance is assured by eliminating continuous adjustments for wear and fatigue

Through hardened, chromium tool steel, torque transmitting components

Virtually eliminates wear on these critical components

Precision Belleville springs

Ensure accurate and repeatable release torque setting

Spring loaded, ball detent torque transmission

Eliminates problems with sheared pins fatigue

Eliminates the problems associated with "substitute" shear pin materials

Modular element design/four basic sizes of elements

Enables a design suited to your torque requirements, at a competitive price
The accuracy and repeatability can allow for downsized motors, reducers, etc. because there is no need for large service factors; the safety elements can be designed in for protection, and the power transmission equipment sized to do the job properly and efficiently

How to Select and Order

Because of the custom and highly technical nature of this design, please consult Brunel with full application data. We will guide you in the selection and ordering of these units.