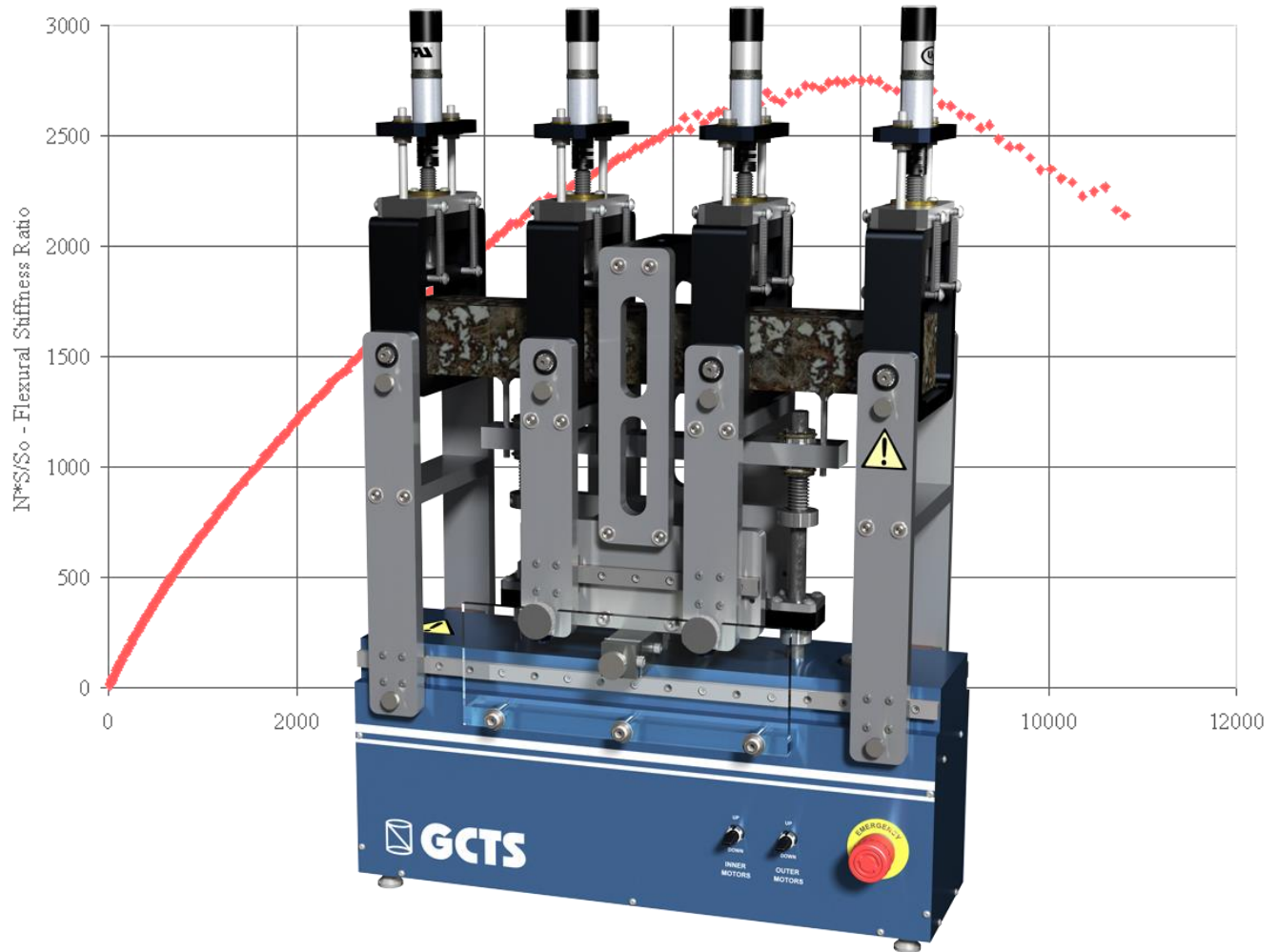


## Beam Flexural Fatigue Apparatus (BFFA)

Flexural Stiffness Ratio ( $S_0$  defined at  $N=50$  repetitions) vs. Number of Repetitions



- Meets ASTM D7460 and AASHTO T321 standards
- Designed to utilize an existing load frame
- 5 kN load capacity
- Loading frequency up to 60 Hz
- Designed for 75 mm by 75 mm by 381 mm prismatic specimens
- Stand-alone, benchtop units are also available with pneumatic, hydraulic, or electromechanical actuators

### DESCRIPTION

The GCTS BFFA Beam Flexural Fatigue Apparatus is designed to conduct Beam Flexure Fatigue Tests on prismatic specimens inside an existing load frame to maximize the resource utilization in an asphalt testing laboratory. The BFFA fixture requires a dynamic load frame capable of applying load of up to 5 kN at frequencies up to 60 Hz.

The BFFA fixture comes with the loading jig, the LVDT deformation sensor with +/- 1 mm range and a 5 kN capacity load cell. GCTS offers an optional Environmental Chamber for temperature control along with the signal conditioning and data acquisition system for the deformation and load sensors.