14.179   PRETS179 — Pre–tension
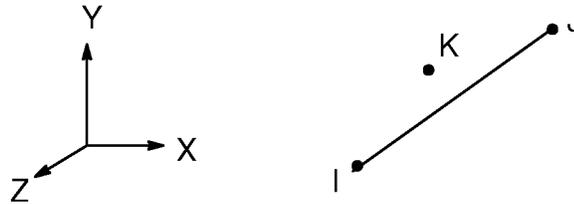
Matrix or Vector	Shape Functions	Integration Points
Stiffness Matrix	None	None

Load Type	Distribution
Pre–tension Force	Applied on pre–tension node K across entire pre–tension section

14.179.1   Introduction

The element is used to represent a two or three dimensional section for a bolted structure. The pre–tension section can carry a pre–tension load. The pre–tension node (K) on each section is used to control and monitor the total tension load.

14.179.2   Assumptions and Restrictions

The pre–tension element is not capable of carrying bending or torsion loads.