On how it calculates load on the machine beams:

The loads for the overhead steel are based off the latest GT11 and GT31 formulas. These depend on knowing the center of gravity. From that point a percentage of the dead load is sent to points at the machine beams.

The point is located off the center of the traction sheave.

      "centerOfGravity": [

         11.75,

         6.5

      ]

First number is X and the other Y and they relate to the illustration below on a right-hand machine.

