Summary

The **Single Span Beam** module can be used to analyse a beam quickly. The beam can be a single span beam, or a single span taken from a continuous beam with the appropriate end conditions.

The analysis results of steel beams can be post-processed with the steel member design module for combined stress.

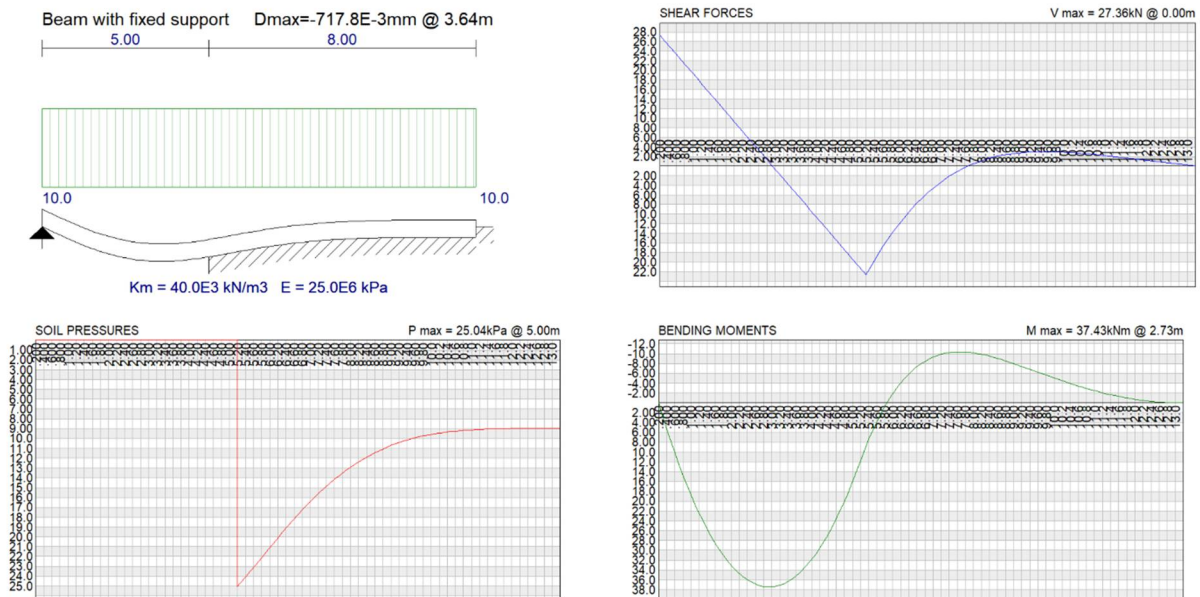$$I = 10.0E\text{-}3 \ m^4 \quad E = 206E6 \ kPa$$
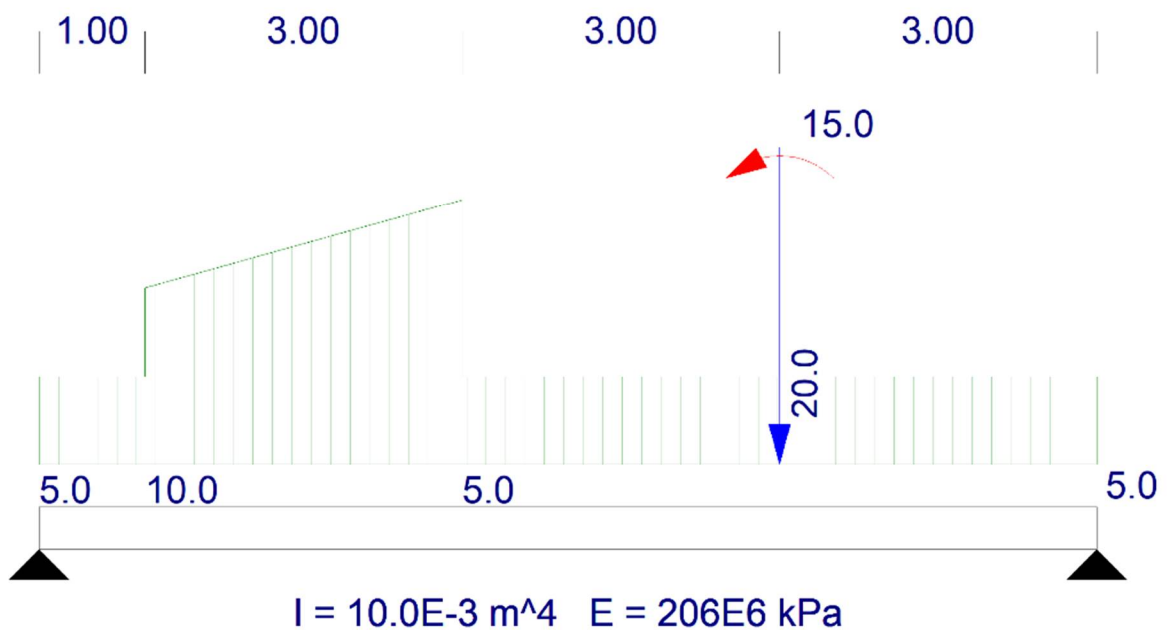
What makes this module special?

- Simple input
- Integrates with the **Section Database** and design modules.
- Produces an output file for **Combine**
- Unlimited number of loads

Beam with fixed support   Dmax=-717.8E-3mm @ 3.64m

Km = 40.0E3 kN/m3   E = 25.0E6 kPa

SHEAR FORCES   V max = 27.36kN @ 0.00m

SOIL PRESSURES   P max = 25.04kPa @ 5.00m

BENDING MOMENTS   M max = 37.43kNm @ 2.73m

Detailed Description

The **Single Span Beam** module is one of the most important tools in the structural engineer's toolbox.

Single Span Beam avoids copying errors by importing beam sections directly from the section database and produces an output file for **Combine** that can be used to optimise the section size.

The analysis is restricted to in-plane bending due to point loads and distributed loads. Therefore, the input is much simpler than an equivalent model in **Frame** or **Sumo**. Loading input may be simple, but an unlimited number of loads can be used.

Maximum values and distributions of shear forces, moments and deflections are instantly available.

Key features

- Simple input
- Integrates with section database and design modules
- An unlimited number of loads can be defined