

Beam Analysis Spreadsheet - Data Sheet

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General

Units:	Any (must be consistent)
Maximum Number of Spans:	9
Maximum Number of Changes in Stiffness per Span:	12
End Supports:	Pinned or fixed
End Spans:	Supported or cantilevered
Maximum Number of Beam Configurations ¹	20

Imposed Displacements

- Support Settlement

Stationary Loadings^{2,4}

- Uniformly/linearly distributed loads
- Concentrated P-loads
- Concentrated M-loads

Max. No. Loadings per
Beam Configuration

10
10/span
5/span

Live Load (moving) Loadings^{3,4}

- Uniformly Distributed Load (UDL)
- Lane (UDL) Combined with Tandem or Single Axle
- Truck (max of 20 axles)
- HL-93 (AASHTO LRFD) Template
- HS20-44 (Standard AASHTO) Template
- HA (BD37/01) Template
- HB (BD37/01) Template

Diagram Plots - Stationary Loadings

- Shears
- Moments
- Deflections

Diagram Plots - Live Load Loadings

- Shear Envelopes
- Moment Envelopes

Diagram Plots - Influence Lines

- Shears
- Moments
- Support Reactions
- Support Rotations

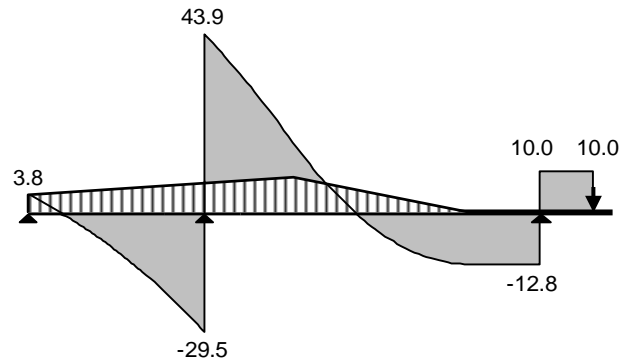


Diagram Sample

¹ Beam Configuration is a User defined set of beam data and loadings
² Different static loading types may be used in the same beam configuration
³ Beam configuration can contain only single live load loading
⁴ Static and live load loadings can't be used in the same beam configuration