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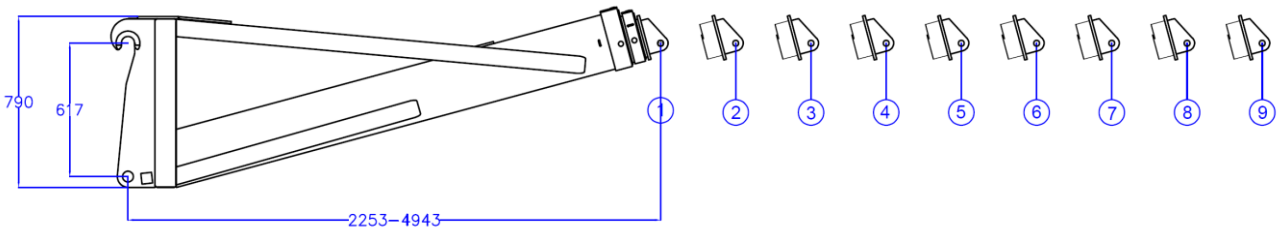


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3 STAGE LIFTING JIB

- Drawing Number – CJEVO50
- To suit VOLVO/EURO Hitch
- Tare Weight – 540kg
- Lifting Capacity as per stated chart

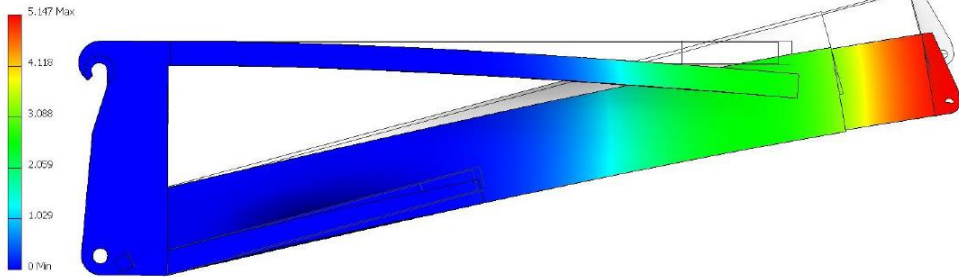


	1	2	3	4	5	6	7	8	9
(mm)	2253	2620	2987	3354	3567	3997	4364	4731	4943
(kg)	3500	3090	2680	2272	2034	1555	1145	736	500



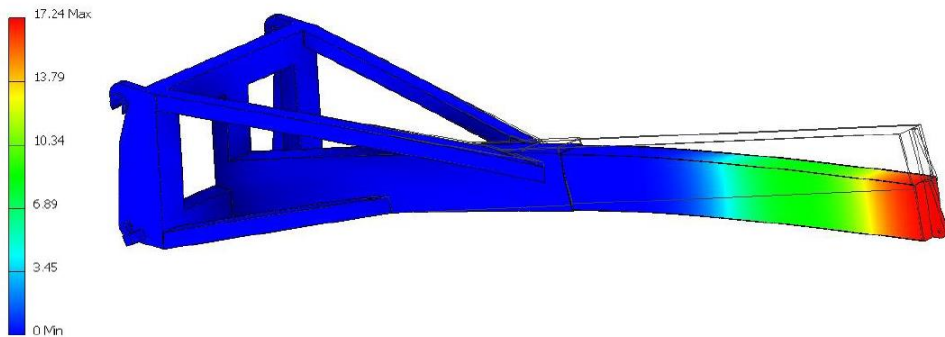
8.2 The Deflection Contours on the Frame is shown below (MM);

Type: Displacement
 Unit: mm



Deflection Contours on the frame under Length = 2253 mm & Load = 5000 Kg

Type: Displacement
 Unit: mm



Deflection Contours on the frame under Length = 4943 mm & Load = 1055 Kg

9.0 Inference:

Stress and Displacement			
Component	Maximum Stress	Maximum Displacement	Maximum Permissible Deflection
Jib Length = 2253 mm & Load = 5000 Kg	225.5 MPa	5.2 mm	3.75 mm
Jib Length = 4943 mm & Load = 1055 Kg	152 MPa	17.24 mm	8.25 mm

The Deflection observed in the Jib is more than the permissible limit. Hence the current Load rating must be revised.

The recommended load rating considering the deflection limit is as follows.

Distance (mm)	2253	2620	2987	3354	3567	3997	4364	4731	4943
Load (Kg)	3500	3090	2680	2272	2034	1555	1145	736	500

Since the least safety factor is 1.64, the Maximum Working Live Load must not exceed 3.7 tons (3700 Kg)