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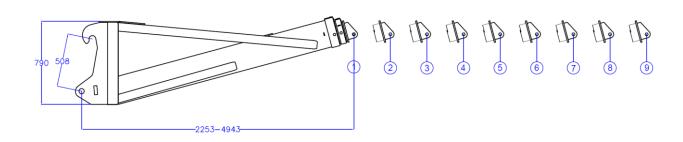




3 STAGE LIFTING JIB

- Drawing Number CJCATIT50
- To suit CAT IT 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



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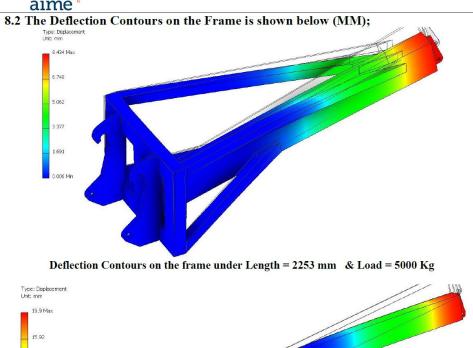
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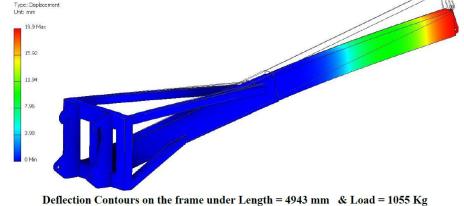












Stress and Displacement							
Component		Maximum Stress	Maximum Displacement	Maximum Permissible Deflection			
Jib		160 MPa	8.4 mm	3.75 mm			
Length = 4943 mm	&						
Load = 1055 Kg							
Jib		256 MPa	19.9 mm	8.25 mm			
Length = 2253 mm	&						
Load = 5000 Kg							

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