

Building the model in the finite element software

2.1.1 (Open the finite element software and import the part "ST") 0:00 - 0:18

2.1.2 (Create the part "Bottom Plane") 0:18 - 0:53

2.1.3 (Create the part "Top plane") 0:53- 01:27

2.2.1 (Create the material properties) 01:27- 01:53

2.2.1.1 (Define the materia Density) 01:27 - 01:36

2.2.1.2 (Define the materia Elastic) 01:36 - 01:48

2.2.1.2 (Define the materia Plastic) 01:48 - 01:53

2.2.2 (Assign the section) 01:53 - 02:37

2.2.2.1 (Create Section) 01:53 - 01:58

2.2.2.2 (Define Section) 01:58 - 02:27

2.2.2.2 (Assign the section to "ST") 02:27 - 02:37

2.3.1 (Assemble the parts into a whole) 02:37 - 03:23

2.4.1 (Create an analysis step) 03:23 - 03:33

2.4.2 (Set the history output items) 03:33- 03:52

2.5.1 (Set the Contact Properties) 03:52 - 04:05

2.5.2 (Set the Contact Type) 04:05 - 04:13

2.5.3 (Set the Top Plane and Bottom Plane as rigid bodies) 04:13 - 04:40

2.6.1 (Fix the bottom plane) 04:40 - 04:58

2.6.2 (Set a downward loading speed of 500 mm/s on the top plane)04:58-05:14

2.7.1 (Mesh generation) 05:14 - 05:48

2.7.1 (Determining the element types) 05:48 - 06:00

2.8.1 (Submit the calculations) 06:00 - 06:23

2.8.2 (Export the results) 06:23 - 06:49