TUTORIAL VIDEO 08

08 Export checks and running OpenRadioss

BeidPrep checks the deck before it writes it: a broken reference is caught, then the clean deck is exported and run in OpenRadioss from inside BeidPrep, with live progress from the Engine.

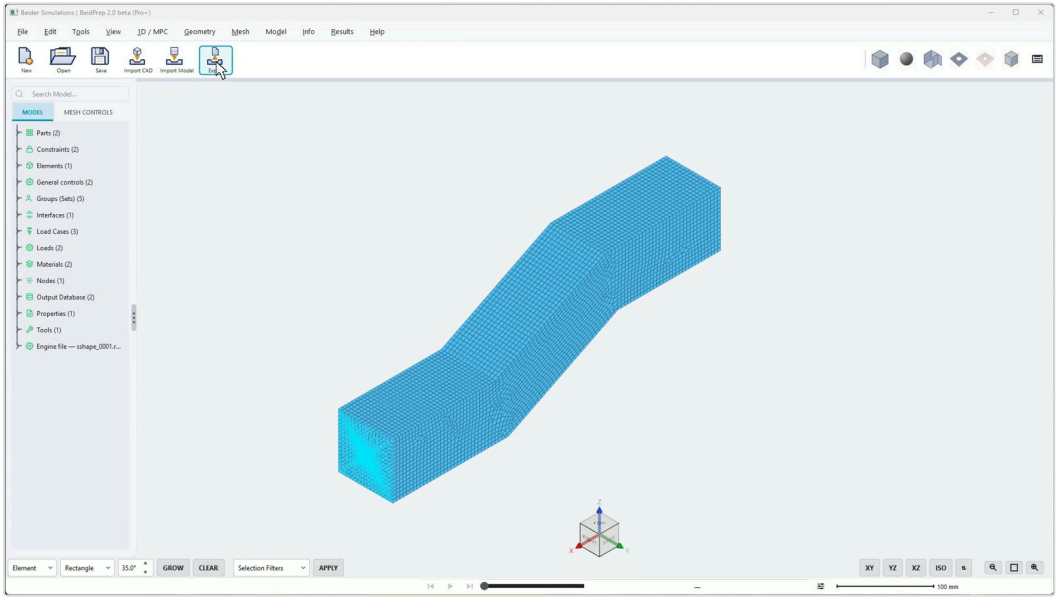
Tutorial files	folder `08_Export_checks_and_running` — open `sshape_0000.rad` first
Video	Watch video 08 on YouTube
Download files	Download the tutorial files (97 MB)

1 Opening, Check before export

video 0:00

This video exports a deck, answers the check before export, and runs the model with OpenRadioss.

Before anything is written, BeidPrep checks the whole deck for what would stop the solver.



The screen at 0:11 in the video.

2 Break a reference, Export: the window

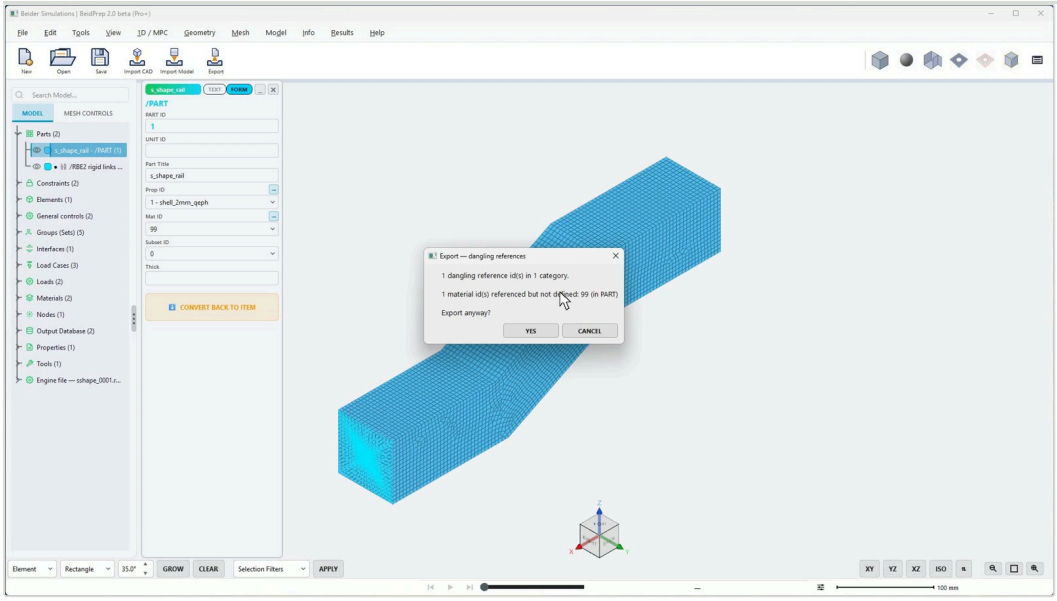
video 0:11

1. To see the check at work, point the rail's part at material ninety nine, which no card defines.
2. Click Export.

   The window says what it found: the part now names a material that no card defines.

   In the video: **99** in the /PART editor's material id field.

   In the video: **sshape** in save window: File name box.



The screen at 0:24 in the video.

3 Cancel, Undo, Export clean

video 0:25

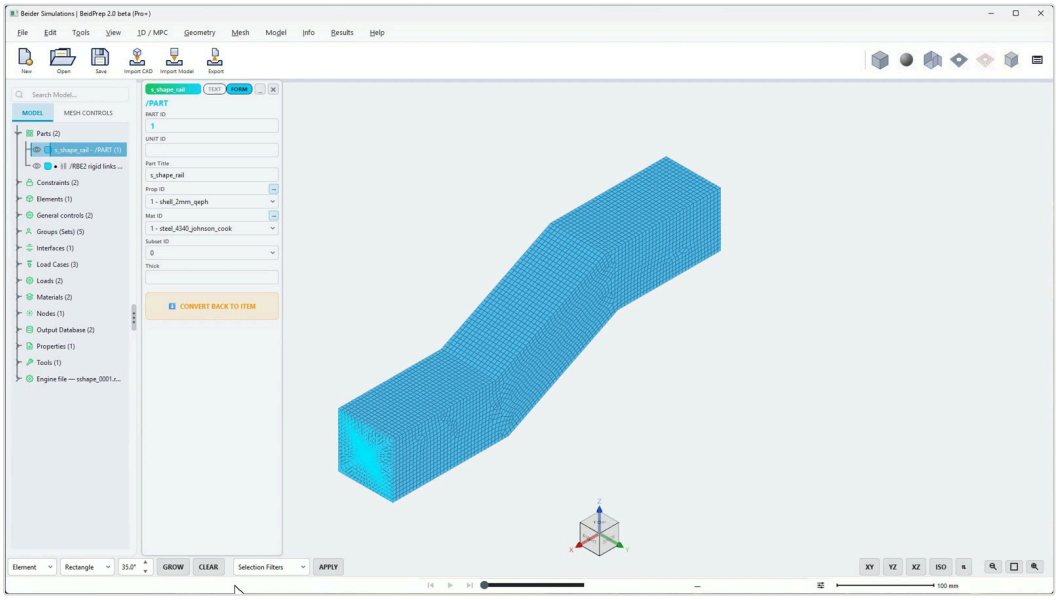
Cancel is the default, and writes nothing.

Control Z puts the part's material back.

1. Export again.

   On a clean deck the check is silent, and the status line confirms the files saved.

   In the video: **sshape** in save window: File name box.



The screen at 0:37 in the video.

4 Run analysis, Run name, Folder and threads

video 0:37

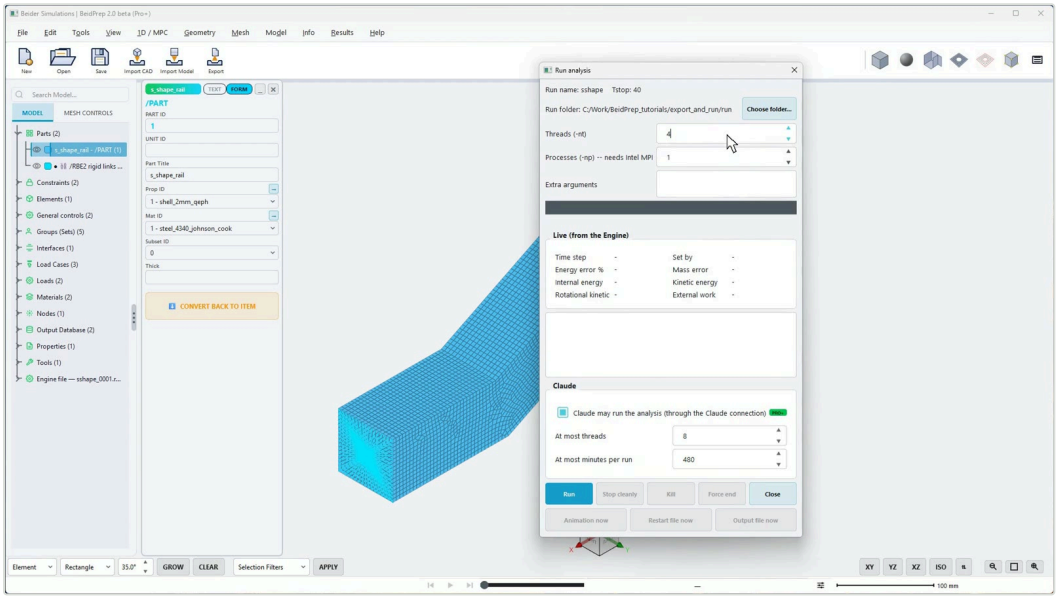
1. Now run it.

   Choose Run analysis, in the Tools menu.

   The window shows the run name and the end time, taken from the model.

2. Choose the folder to run in, and set the threads.

   In the video: **4** in Threads.



The screen at 0:50 in the video.

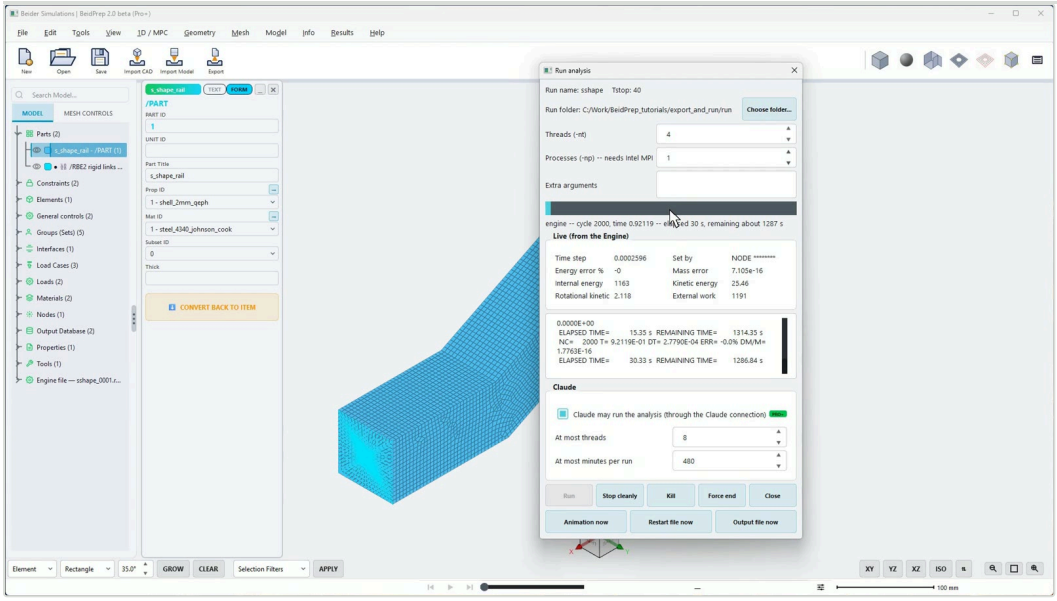
5 Run, Progress

video 0:51

1. Press Run.

   BeidPrep exports the deck with the same checks, then starts the Starter, and then the Engine.

   The progress bar shows the time reached against the end time, and the time left.



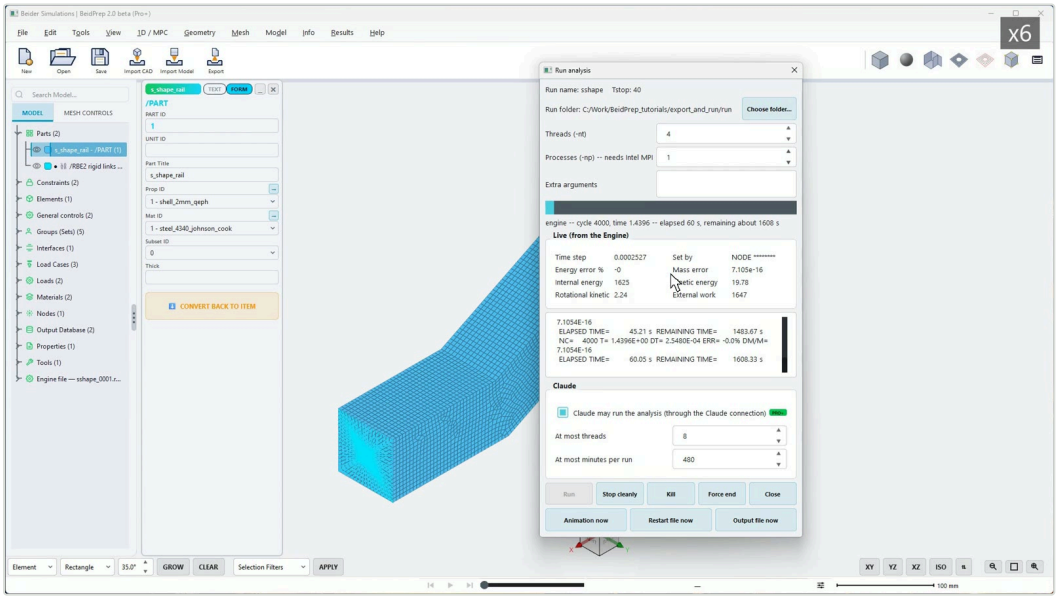
The screen at 1:04 in the video.

6 Live box, Warning signs

video 1:04

The Live box shows what the Engine itself reports: the time step, the energy error and the mass error.

A growing energy error or mass error is the first sign that a run is going wrong.



The screen at 1:15 in the video.

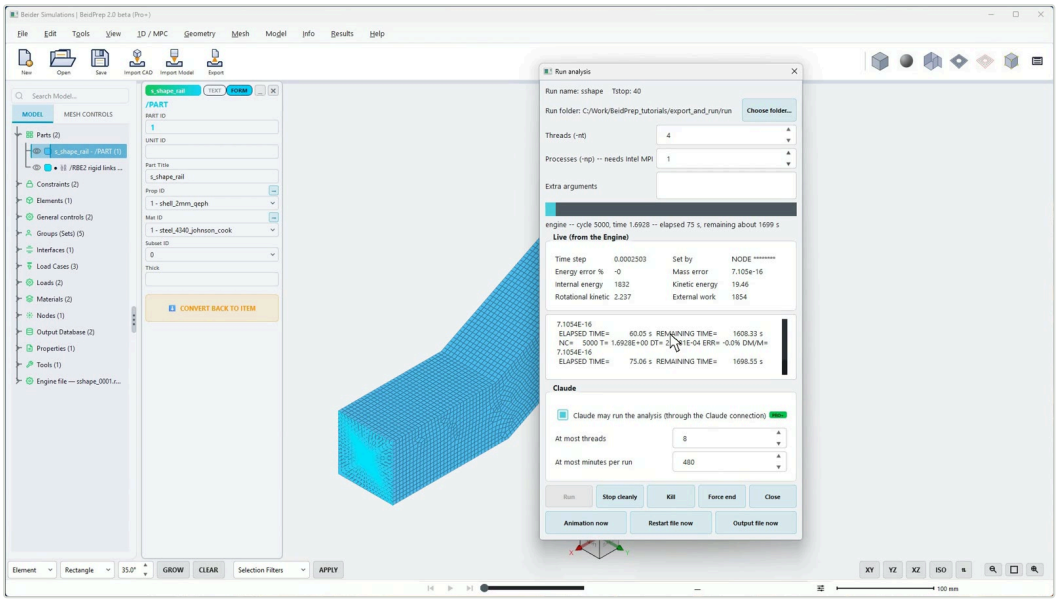
7 Stop or force end, Then results

video 1:16

Stop cleanly ends the Engine and writes a restart file.

Force end stops it at once, without one.

When the run ends, open its results, as video ten shows.



The screen at 1:26 in the video.

Steps and pictures are taken from tutorial video 08. Every picture is a frame of the video.