

## EXPORT AS TEXT

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This module is used to export simulation results as file in text format (\*.txt, more information about this format is given in the Help -> Documentation -> Text File Format).


User can choose one of the available modes of exporting data:

- *Save all*: export all objects and properties for saved time points and all additional information;
- *Save selective*: export selected objects and properties, apply constraints, distribution by time.

Selective saving mode allows us to export only selected objects and properties (Fig. 1 - Properties Tab) as well as apply constraints for materials, analysis volumes and diameters (Fig. 2 - Constraints Tab). Also, in this mode one can use distribution results by time (Linear interpolation is used to obtain data between saved time points).

Properties Tab:

- *Object type*: selection of type of objects (Geometry consists of many Triangular walls objects);
- *Constant properties*: selection of general information about objects and time-independent data;
- *Scene info*: selection of some additional information of scene;
- *Time*: selection of specific time interval;
- *TD properties*: selection of time-dependent data of objects;
- *Geometries*: selection of information about geometries.

Each property can be obtained for specific time interval, divided into classes (Fig. 1 - Time). Values will be exported for each time point from interval  $[T_{FROM}; T_{TO}]$  starting from  $T_{FROM}$  with specified time step  $\Delta T$ . For example for initial data  $T_{FROM} = 0$  s,  $T_{TO} = 5$  s,  $\Delta T = 1$  s, the results will be generated for time points 0, 1, 2, 3, 4, 5 s. To get values for only one specific time point  $T$  specify  $T_{FROM} = T_{TO} = T$ . There is also a possibility to obtain results only for those time points, which were saved during the simulation (thereby avoiding the interpolated results). To update time parameters from current simulation click on the  button.

Constraints Tab:

- *Materials*: selection of materials available in the materials manager;
- *Analysis volumes*: selection of analysis volumes (Object is considered in the volume only if all coordinates of the object is in the volume and that is true for all time points);
- *Diameters*: selection of minimum and maximum of diameters of the objects to be considered.

**Export as text**

☐ Save all ☒ Save selective

**Properties** Constraints

☒ Object type

- ☒ Particle
- ☒ Solid bond
- ☒ Liquid bond
- ☒ Triangular wall

☒ Constant properties

- ☒ Object ID
- ☒ Object type
- ☒ Object geometry
- ☒ Material
- ☒ Activity interval

☐ Scene info

- ☐ Computational domain
- ☐ Boundary conditions
- ☐ Anisotropy flag
- ☐ Contact radius flag

**Time**

From [s]

To [s]  <-

☒ Only saved

☐ Time step [s]

Data points

☒ TD properties

- ☒ Angular velocity
- ☒ Coordinate
- ☒ Force
- ☒ Total force
- ☒ Velocity
- ☒ Quaternion

☐ Geometries

- ☐ General info
- ☐ TD properties
- ☐ List of triangular walls

0%

Status:

Figure 1. Properties Tab of the Export as text

**Export as text**

☐ Save all ☒ Save selective

Properties **Constraints**

☒ Materials

- ☒ All
- ☐ Steel
- ☐ Glass

☒ Analysis volumes

- ☒ Everywhere
- ☐ Box
- ☐ Sphere
- ☐ Cylinder

☒ Diameters

	Min [m]	Max [m]
Diameter	0	0

0%

Status:

Figure 2. Constraints Tab of the Export as text