

Simster Version 6.2

Release Notes

1 System requirements

- Simster is supported on Windows 7 and Windows 8.
- Processor with 2 GHz or more
- 4GB of RAM (6GB of RAM recommended); 128MB of graphics memory
- 250MB of available hard-disk space for installation
- Microsoft®.NET Framework 4 or higher version is required

2 What's new in Simster 6.2? – Compared to Simster 6.1

- 1. Custom fluids**
- 2. Automatic backup for project files**
- 3. Mass Configurator**
- 4. Improved handling of time events**
- 5. New unit for forces**

1. Custom fluids

A bug which prevented custom fluid from being loaded has been fixed.

2. Automatic backup for project files

Simster now automatically generates a backup file when loading a simulation project. The backups are stored in the setting folder of Simster. Which is usually accessible via: %appdata%\Simster 6.2 Settings\backups

Please regard that only backups of the last ten loaded projects are stored.

3. Mass Configurator

An Issue where the friction has not been set to zero when deactivated in the configurator of the mass has been solved.

4. Improved handling of time events

It is now possible to simulate models with time events which occur after the simulation time.

5. New unit for Forces

It is now possible to select kip as unit for forces.

3 Fixed Components (Bug fix)

- **Mass friction / Inertia friction**

A bug which could lead to a wrong calculation of the static friction has been fixed.

- **Logic Valve LC2A**

The output of the spool position was factor 1000 to high.

- **Crankshaft**

The results for position and velocity have always been zero. Updated the documentation to clarify the initialization of the component.

- **Dead time**

Fixed an issue with wrong outputs due to solver management.

- **Pressure adding valve DBV**

The output pressure drop is now calculated correctly.

- **Hose**

The ambient pressure is now considered in the volume calculation.

4 Revised/Updated Components

- **Pressure valves**

Updated the icons of the pressure valves to reflect their actual implementation for internal or external drain.

- **C/C++ Function**

For each simulation an automatic log file of the compilation process is generated.

It can be found in the local Windows temp folder, which is usually accessible via: %appdata%\local\temp

The name of the file is <name of the c file>.log.

5 Known Issues

- **Rexroth-Valves:**

- **Numerical Problems for Rexroth valves possible**

Numerical problems can occur, if Rexroth valves are used outside their valid range (e.g. in the power limit). In this case, it might help to change the solver settings and tolerances.

- **Power limit for low pilot pressures**

For very low pilot pressures (< 5 bar), the power limit is not modeled correctly, so that the valve will completely open.

- **Mechanic systems**

For single applications, the mechanic systems might not work as expected. It is important to check the results of the mechanic systems.

- **Hose**

When calculating the expansion of the hose, the volume flow required to expand the hose is not regarded, this can lead to increased pressures in the system at large expansions.

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