

PUMPSIM

The Complete Water & Gas Reticulation Design

Pumpsim Standard: Liquid

Pumpsim Advanced: Liquid

Pumpsim Standard: Gas

Pumpsim Advanced: Gas

Pumpsim Premium

OVERVIEW

Pumpsim has been developed by the same team that developed Ventsim 3D Mine Ventilation Simulation software. It was designed to tackle the common problem of poor water reticulation design within the mining, construction and other industrial environments which often leads to unreliable water supply systems. This may result in insufficient water supply or pressure, pipe breakage, poor pump performance and production delays.

These problems can be solved by the software as it ensures pumps and pipes are correctly sized and rated, and that pipe and pump design is optimal for all required activities. It allows for full 3D modelling with integrated features such as smooth rotation, zoom and pan, as well as real-time animation of liquid/slurry flows through the model. You can always be confident of the safe, continuous supply and removal of water at correct pressures and flows, eliminating costly downtime by ensuring your reticulation systems are correctly designed with Pumpsim.



WHO USES PUMPSIM?

- Mining
- Construction
- Industrial Environments

KEY FEATURES

Easily Construct Detailed Pipe Network Models

Full-scale models of planned or existing pipe networks can be easily created in Pumpsim. Produce a fully-functional pump and pipe system with the following highly-customisable elements:

- Pipes and Channels
- Pumps
- Tanks and Dams
- Manual and Automatic Valves
- Junctions
- 'Demand' Devices (sprays, machinery, drills etc)
- Drains.

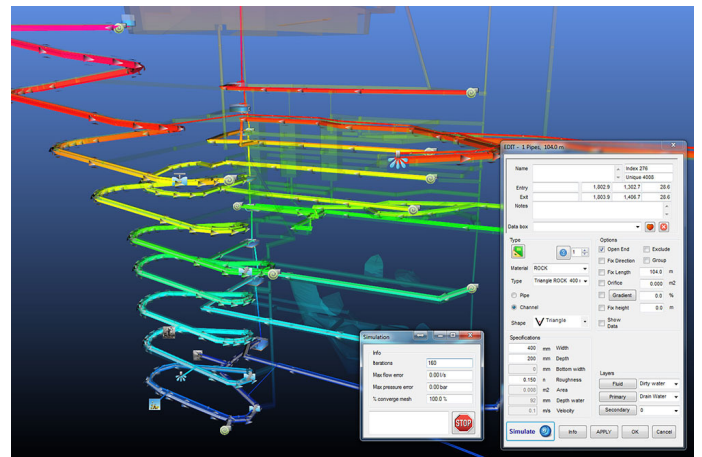
Import DXF/AutoCAD & Other Formats

Accelerate the construction of your Pumpsim model by importing existing model files as 'centrelines', which can then be converted to pipes for use in Pumpsim. Reference graphics can also be imported to provide perspective and relevance to Pumpsim models. Overlay graphics such as terrain, buildings and tunnels over your models.

Data & Analysis

By running simulations in Pumpsim, you can begin to identify and address issues with your pump and pipe networks. Pumpsim can simulate over 30 different data types, including:

- Pipe/Pump Pressure and Capability
- Flow Quantities and Velocities
- Tank and Dam Structure and Capacities
- Optional Compressed Air and Compressible Fluid Options
- Fluids with Different Viscosity and Densities
- Wall Friction Effect
- Hoop, Radial and Axial Stresses
- Costs and Efficiency.



BOOK A DEMO

To book a free demo of Pumpsim, contact your local Datamine office.

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