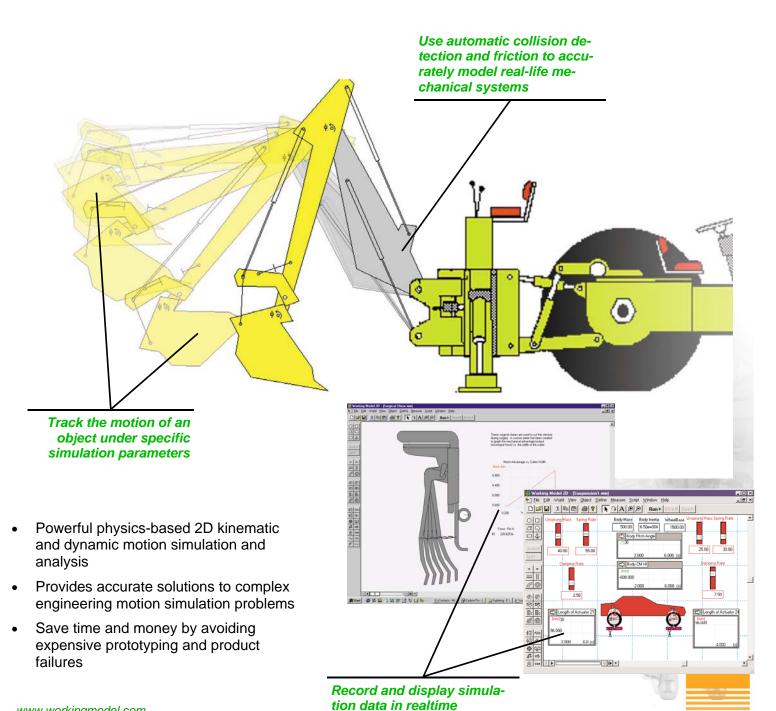




Working Model 2D



The world's most popular 2D computer aided engineering tool





www.workingmodel.com

SUPPORTED 2D FORMATS

DXF file format

BODY PROPERTIES & FEATURES

- Body types: circle, box, polygon and smooth (b-Spline edges)
- Mass, density, geometry, center of mass, moment of inertia, velocity and angular velocity, electrostatic charge and more
- Track the motion path of a body
- Automatic collision detection and response
- Automatically applied static and kinetic friction

CONSTRAINTS

- Pin, rigid, slot, keyed slot and curved slot joints
- Rods, ropes, pulleys and gears
- Linear and rotational spring/ damper

MOTION DRIVERS

- Motor
- Actuator
- Force
- Torque

Constraints and drivers can be defined by numeric or equation input in the formula editor, or with tabular data.

UNITS SYSTEMS & FORMULAS

SI, English, CGS and user-defined

MEASURABLE PARAMETERS

- Position
- Velocity
- Acceleration
- Momentum
- Angular momentum
- Constraint force and torque
 Cravity, electrostatic and air
- Gravity, electrostatic and air force
- Kinetic energy, gravitational potential energy and power

Record and display simulation data in real-time with graphical and digital meters.

SIMULATION CONTROL

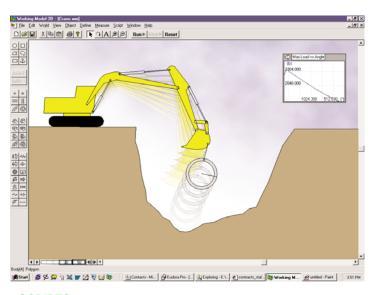
- Run, stop, reset, single step, or pause the simulation at any time.
- Control the accuracy of your simulation by modifying integration and animation steps and configuration tolerances.
- Superimpose multiple simulations.

INTERACTIVE CONTROLS

- Connection to Excel and MatLab
- Complete "Visual Basic" style scripting language with built-in debugger
- · Menu and script buttons
- "Player" mode for content creation

VISUALIZATION

- Track the motion path of a body or its center of mass
- Attach graphics to bodies
- Images on bodies rotate
- Display system center of mass
- Multiple, moving reference frames



SCRIPTS

- Optimize
- Create constraint
- Document model
- Zoom to extents
- Measure distance between points
- Flip polygon
- Multiple file run
- Pin friction
- Slot friction
- Slot damper
- FlexbeamShear and bending mo-

OUTPUT

- AVI video files for playback
- Meter data from simulations to tabular data file

PRINTING

 Print an image of your simulation or meter data

WORKING MODEL 2D SYSTEM REQUIREMENTS

Window System

- Microsoft Windows 95/98/ ME/2000/XP/Vista/ Windows 7
- 1 GB RAM Minimum
- 60 MB disc space
- CD-ROM drive

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