

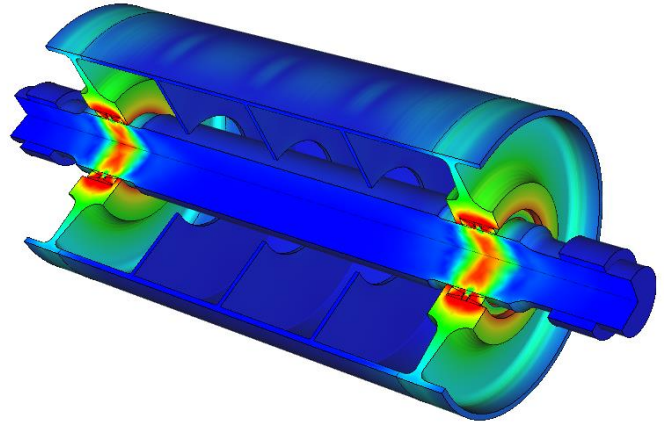
# PAX Pulley Analysis Software for Peace of Mind

The PAX software is a full 3D finite element software program for conveyor pulley analysis. AC-Tek's principle engineers have been performing finite element analysis on conveyor pulleys for over 25 years. They have been involved with the design and optimization of some of the world's largest pulleys. Previously, detailed pulley analysis could only be done using complex and expensive finite element analysis software. Even then the effort, expertise, and time required to correctly model and interpret the results for a pulley was extensive.

For years AC-Tek has envisioned developing a fast, accurate, and easy to use software program for manufactures, conveyor designers, and end users. The PAX software is the result of that vision. As an add-on to our Sidewinder software, PAX contains a plethora of features covering almost any pulley design!

## Key Features

- ✓ Optimized for conveyor pulley design
- ✓ Extremely fast & accurate 64 bit solver
- ✓ Detailed stress analysis
- ✓ Analysis of critical weld locations
- ✓ Locking device selection & verification
- ✓ Verify bending moment across locking device
- ✓ Verify pulley design at the engineering stage
- ✓ Shaft deflections and slopes

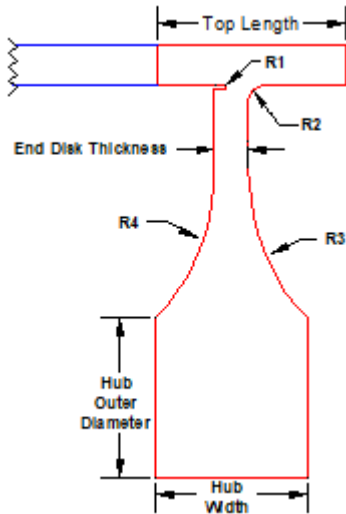


**Accurately compare end disk and shell designs**

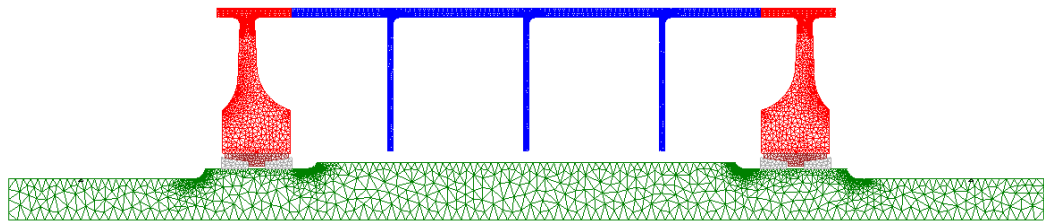
## Easy Inputs & Auto Mesh Generation

- ✓ Fully parametric 3D models for easy user input
- ✓ Transfer design loads & geometries directly from Sidewinder
- ✓ Over 20 different end disk configurations
- ✓ Complete control over FEA meshing of critical areas
- ✓ Data for XT, B-LOC, BIKON, TAS, MAV, and others built in
- ✓ Overhung load calculations
- ✓ Quick summary grid highlighting results and problem areas
- ✓ Professional Microsoft Word editable output reports
- ✓ CAD exporting of pulley geometry and details

....and much more



**Over 20 end disk profiles to choose from**



**Complete control of mesh generation for all parts & weld locations**

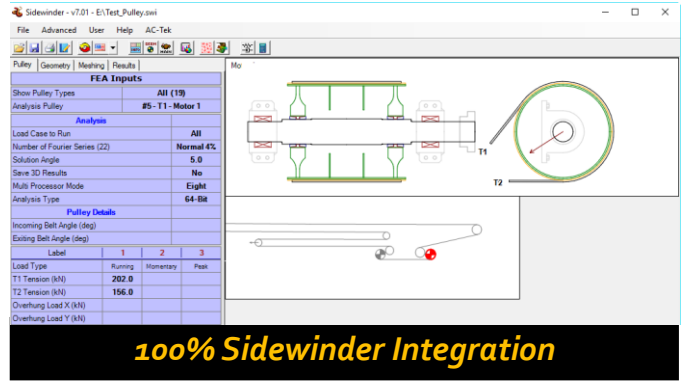
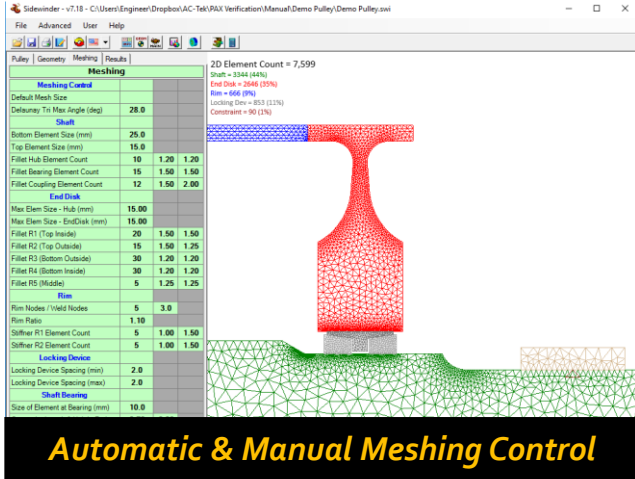
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**AC-Tek**  
Advanced Conveyor Technologies

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## Benefits

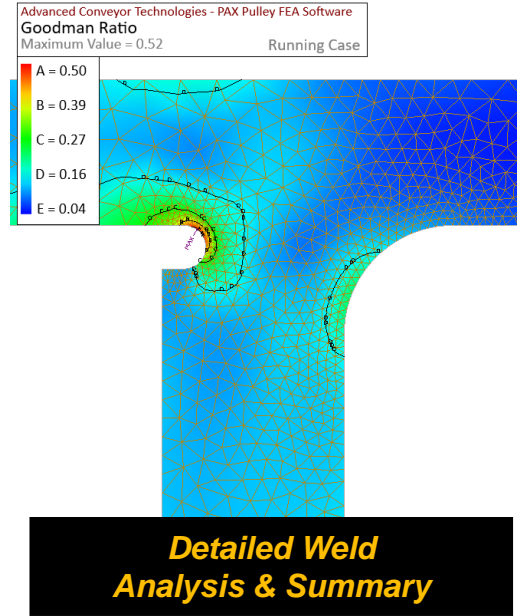
- ✓ Compare manufacture's designs
- ✓ Prevent costly failures & downtime
- ✓ Improve pulley life
- ✓ Peace of mind for pulley design



## Post-Processing

- ✓ Locking device analysis
- ✓ 3D Von Misses and other stress results
- ✓ Goodman & yield ratio analysis
- ✓ Summary of key areas and weld locations
- ✓ Animation of deflections and stresses
- ✓ Save individual pulleys or entire conveyors

| PAX Software                     | Basic    | Pro         |
|----------------------------------|----------|-------------|
| <b>Pricing (USD) ①</b>           |          |             |
| Standalone User License          | \$ 3,495 | \$ 6,995    |
| Network User License             | ----     | \$ 8,495    |
| Additional Network License ②     | ----     | \$ 2,495    |
| Annual Maintenance Fee ③         | \$ 695   | \$1,295     |
| <b>Features</b>                  |          |             |
| Full 3D FEA Solver               | Yes      | Yes         |
| Sidewinder Integration           | Yes      | Yes         |
| Full Locking Device Library      | Yes      | Yes         |
| Automatic Shaft Sizing & Radii   | Yes      | Yes         |
| <b>Geometry</b>                  |          |             |
| Elements (Symmetric Pulleys)     | 3,000    | 20,000      |
| Elements (Non-Symmetric Pulleys) | 4,500    | 20,000      |
| Automatic & Custom Meshing       | Yes      | Yes         |
| Import External Profiles         | No       | Yes         |
| <b>Solver</b>                    |          |             |
| Multi-Core Processing Support    | 2        | Up to 18    |
| Solver                           | 32-bit   | 32 / 64 bit |
| <b>Post-Processing</b>           |          |             |
| Summary Analysis & Word Reports  | Yes      | Yes         |
| 2D & 3D DirectX Graphics         | Yes      | Yes         |
| Detailed Advanced Design Reports | No       | Yes         |



For more information visit [www.conveyorsoftware.net](http://www.conveyorsoftware.net)

Questions?  
[info@actek.com](mailto:info@actek.com)

① A valid Sidewinder license is required to purchase the PAX add-on  
 ② Valid on the same network dongle with two or more Sidewinder licenses.  
 ③ Annual maintenance for both PAX & Sidewinder is required for continued PAX use.