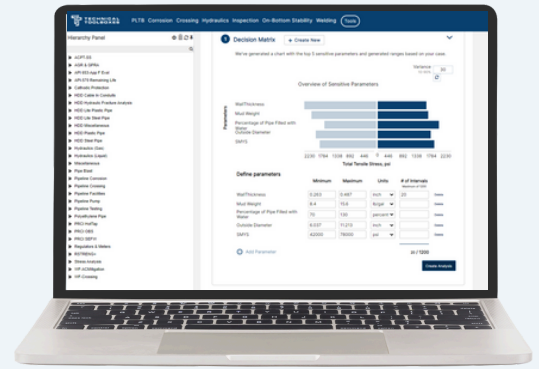


ADVANCED CALCULATIONS

Batch Run, Sensitivity Analysis, and AutoCAD Integration provide faster, more extensive pipeline engineering calculations for Enterprise Tier users.



The Advanced Calculations within the Pipeline HUB are designed to enhance efficiency, optimize project outcomes, and improve decision-making for pipeline engineering teams.

The three key components—Sensitivity Analysis, Batch Run, and AutoCAD Integration—offer powerful tools that streamline workflows, mitigate risk, and increase accuracy.

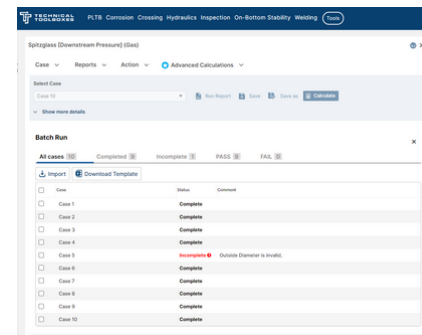
Sensitivity Analysis

- Allows users to build scenarios and validate operational parameters
- Supports up to 5 different parameters with adjustable min-max ranges
- Heat map and study plot visualizations for easy comparison of parameter performance
- Helps identify optimal conditions and scenarios for risk mitigation
- **Applications:** HDD PowerTool (HDDPT) and Pipeline Crossings (Pipeline Toolbox)



Batch Run

- Automates the execution of multiple calculations and scenarios simultaneously
- Saves significant time and resources by running complex projects in parallel
- Supports comprehensive risk assessments and project optimization
- **Applications:** PLTB (Pipeline Toolbox), HDDPT, RSTRENG+, and OBS (On-Bottom Stability)



Case	Completed	Incomplete	PASS	FAIL
Case 1	Complete			
Case 2	Complete			
Case 3	Complete			
Case 4	Complete			
Case 5	Incomplete	Outside Diameter is invalid.		
Case 6	Complete			
Case 7	Complete			
Case 8	Complete			
Case 9	Complete			
Case 10	Complete			

AutoCAD Integration

- Seamless data transfer between AutoCAD and the Pipeline HUB for precise borehole designs and drilling plans
- Real-time synchronization ensures consistency between design and calculations
- Advanced 3D visualization capabilities for enhanced spatial analysis.
- Flexible and customizable to meet project-specific requirements
- **Applications:** HDDPT

