

AT A GLANCE

Customer: Allen, Director of Engineering

Products Used: HDD PowerTool, Pipeline Toolbox (PLTB),
Training HUB: Premium Pass

THE CHALLENGE

Allen's engineering team needed reliable, enterprise-ready tools to support consistent calculations across a growing group of professionals. Like many firms, they had relied on a mix of home-grown spreadsheets, PDFs, and other disconnected resources.

“ALL ENGINEERING FIRMS HAVE THEIR COLLECTION OF ENGINEERING TOOLS FOR CALCULATIONS. WE HAD AN INTERNALLY USED SPREADSHEET FOR DOING HDD DESIGNS AS WELL AS MANY RULE OF THUMB CALCULATIONS. ON AVERAGE, WE ARE PERFORMING HDD CALCULATIONS ON A WEEKLY BASIS.”

For an organization focused on delivering accurate, on-time engineering work, those gaps created risk and inefficiencies — especially when managing large infrastructure projects or onboarding new engineers.

THE SOLUTION: HDD POWERTOOL

Technical Toolboxes had already been implemented as a standard solution, and Allen continued to expand its use. His team uses Pipeline Toolbox and HDD PowerTool for daily workflows, and the Training HUB Premium Pass to accelerate internal development.



"WE ALREADY HAD TT AS STANDARD CALCULATIONS TOOL USED BY OUR ENTIRE ENGINEERING STAFF. NO OTHER TOOLS WERE EVALUATED."

The HDD PowerTool is used to evaluate complex borepaths and assess design feasibility. Through the Training HUB Premium Pass, team members gain access to product training and industry-focused webinars.

"WE SIGN UP OUR ENGINEERS TO UTILIZE THE PREMIUM PASS FOR LEARNING MORE ABOUT OUR GAS INDUSTRY AND THE DESIGNS WE PERFORM. MANY TIMES A NEW ENGINEER MAY BE DOING THE SAME DESIGN TASKS OVER AND OVER. THE PREMIUM PASS ALLOWS THEM TO LEARN ABOUT OTHER TYPES OF DESIGNS AND THE CALCULATIONS THAT GO WITH THEM."



THE RESULTS

With Technical Toolboxes, Allen's team has been able to reduce design time, increase consistency, and eliminate version control issues.

"THE ULTIMATE GOAL WITH ANY HDD IS TO INSTALL THE PIPE DESIGN WITHOUT A FRAC OUT. WE HAVE ONE ENGINEER ASSIGNED TO BE OUR HDD POWERTOOL USER. HDD POWERTOOL ALLOWS US TO MAKE MORE ACCURATE HDD DESIGNS INCLUDING DETAILED GEOTECH INPUTS. HDD POWERTOOL GIVES US MORE CONFIDENCE IN OUR DESIGNS."

In a recent project, Allen's team installed a 36" steel main in Michigan in poor soils. The borepath included a vertical bend, and using TT's modeling tools, they were able to quickly provide the required radius when asked by the contractor.

"WE INSTALLED A 36" STEEL MAIN IN MICHIGAN IN PEAT BOG TYPE SOIL CONDITIONS. HDD POWERTOOL ALLOWED INPUTTING THE DETAILED GEOTECH REPORTS ASSOCIATED WITH THE PROJECT. THE LONGEST BORE ON THIS PROJECT WAS 1900 LF AND THE DEEPEST WAS 75 FEET."

FINAL THOUGHTS

Allen's experience highlights the importance of consistency, accuracy, and efficiency in engineering consulting. By standardizing with Technical Toolboxes, his team has reduced risk, improved training, and strengthened their design process — especially in complex HDD projects.

"SUCCESS IN A CONSULTANT'S BUSINESS IS MEASURED BY REPEAT CUSTOMER WORK. TT HELPS US DESIGN OUR PROJECTS TO MEET CODE REQUIREMENTS AS EFFICIENTLY AS POSSIBLE."

While building internal capability remains a challenge in the fast-paced world of engineering, the Training HUB and TT's reliable tools have become key resources in accelerating development without sacrificing precision.

"OUR BIGGEST CHALLENGE IS TRAINING OUR YOUNG ENGINEERS IN THE TECHNIQUES OF NATURAL GAS PIPELINE DESIGN. MANY OF US OLDER ENGINEERS HAVE THE FIELD EXPERIENCE (HANDS-ON) TRAINING TO GO WITH THE EDUCATION. TT COMBINES THE FIELD KNOWLEDGE OF TT'S STAFF INTO PRACTICAL SOFTWARE SOLUTIONS TO BE USED BY ALL ENGINEERS."



For Allen, Technical Toolboxes delivers what matters most: trusted calculations, faster workflows, and a better path forward for the next generation of engineers.



WANT TO LEARN HOW THE HDD POWERTOOL CAN SUPPORT YOUR NEXT PROJECT?

The HDD PowerTool simplifies complex bore design with an intuitive interface engineers can start using right away — little to no training required. With built-in GIS and AutoCAD integration, you can import alignment data, model bore paths, and calculate installation forces in minutes. From reducing frac-out risk to validating constructability, it delivers fast, reliable answers when you need them most.

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