

MINING SOLUTIONS

- + Stockpile Volumes
- + Mine Surveying
- + Blast Design
- + GPS Offset Mapping



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 **LASER^{INC}
TECHNOLOGY**
Measurably Superior[®]

Stockpile Volumes

"I asked LTI for an on-site demonstration and invited the company I've used before to survey a massive pile of recyclable material. Seeing the GPS guy sliding all over that pile of sharp glass and other nasty recyclables was interesting.

The LTI guy was remotely taking shots to the pile from the ground, and then he'd walk to the next safe control point to ensure full coverage of the pile. I couldn't believe it when the LTI rep walked up to my truck with tonnage and weight calculations within two hours, compared to waiting for the results from the survey crew for two days. LTI's calculations were within a few tons of the other guy's, so I bought five LTI systems the next day."

—Inventory Control Manager

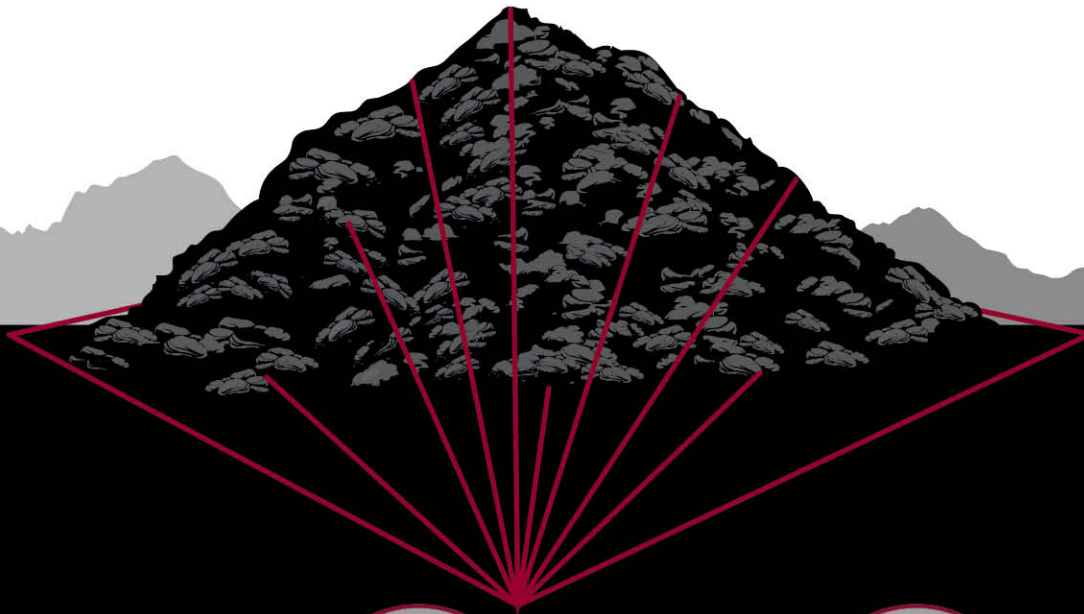


Mine Surveying

"With all the high walls, tailing slopes, road cuts and other inaccessible areas in the mine, it's really a challenge to collect our production data on a daily basis while keeping our guys safe out there. I also need to manage all the ongoing construction projects taking place on-site. Hiring a consultant every time we needed to get a low order survey done for the geologist or materials engineer wasn't really feasible.

I researched online and came across LTI's TruPulse laser and MapSmart software. After learning how easy it really is, I felt like I became a surveyor overnight! I was also able to train my crew on how to use the system, as well as the laser standalone. Now, any of us can verify distances, spans, heights, roadway clearances and slope grades, and we can calculate an area on any given day."

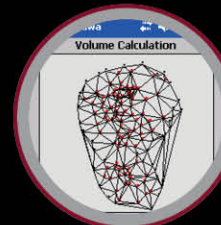
—Mine Superintendent



TRUPULSE® 200X
Calculates horizontal distance, height and 2-D missing line values. The in-scope display adjusts to varying light conditions, and the housing is rugged and waterproof.



MAPSTAR® TRUANGLE®
Integrate with any Laser model to produce accurate 3D positions and is unaffected by local magnetic interference.



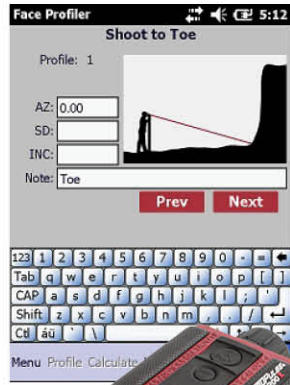
MAPSMART® + VOLUME
Calculates volume and tonnage of any stockpile with instant results in the field, which can also be exported into CAD programs or for reporting purposes.

Blast Design

"The days of guessing where the major deformity was along the rock face with just an experienced eye are most certainly gone. With OSHA regulations in place for safety and the added expense of poor fragmentation after a blast, we have to get it right! 3-D scanners can do a great job of profiling, but the cost is outrageous, and I'd rather not try to make sense of 10 million data points back at the office.

LTI's profiling system is easy to operate, costs far less than any scanner and calculates reliable depth versus burden tables right in the field. I just point and shoot the TruPulse laser along the face in between the crest and toe, enter in my setback and drill hole parameters, and can get the shot layout moving faster without sacrificing safety or accuracy."

—Blasting Engineer

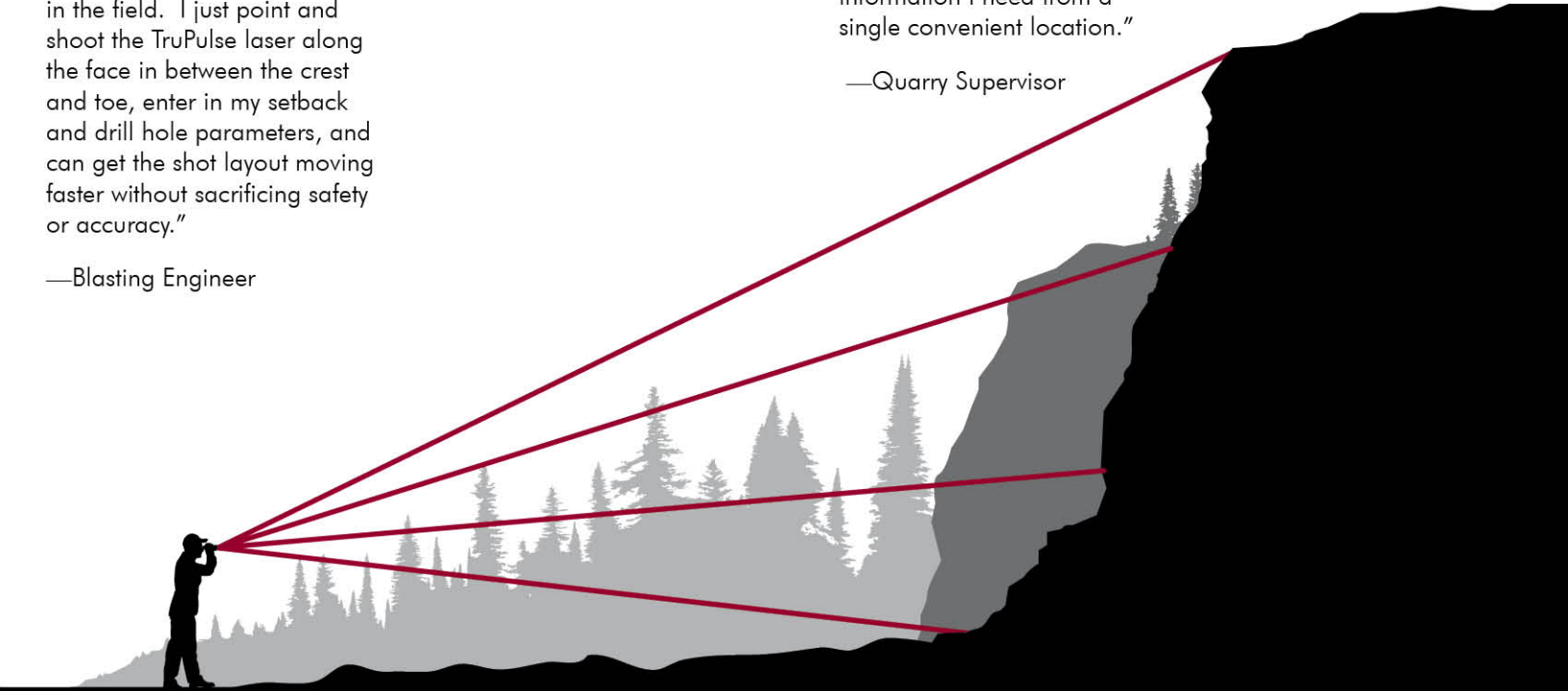


GPS Offset Mapping

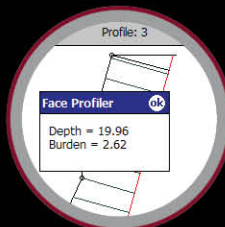
"Nobody wants to walk along a 60-foot cliff just to track daily progress. I figured there had to be an alternative to using GPS stand-alone so I don't have to jeopardize my safety. Sure enough, one of my equipment suppliers told me how I could add a TruPulse 360° laser to my existing GPS and just point and shoot at the crest and toe to get the data I need quickly and safely.

Since I also perform quick site inspections, the same setup can be used to gather all the information I need from a single convenient location."

—Quarry Supervisor



TRUPULSE® 360°R
Measures distances, inclination and azimuth values with the ability to calculate height and 3-D missing line measurements. Transfers data via Bluetooth® and is rugged and waterproof.



FACE PROFILER
Calculates bench heights, minimum and optimum burdens, drill hole angles and offsets as well as hole depths for the perfect blast.



LASERSOFT MEASURE APP
Capture, save and send measurements with an in-scope photo of the feature.



User Story

Travis Stewart, President
Western Slope Materials, Carbondale, CO

"I saw Laser Technology's stockpile volume solution ad in Aggregates Manager Magazine a few months back and visited the website to learn more. I requested a demo from an authorized dealer of LTI and was immediately sold on the value of this volume solution. For what it cost me to do one flyover, the system more than paid for itself.



I'm able to survey a 15,000-ton pile of gravel in less than an hour. We also measure the raw feed and do quick spot checks by measuring distances and elevations with just the TruPulse 360° laser."

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