



FINALLY, A GROUP OF ENGINEERS FOR ENGINEERS.

In hard-to-reach places, even the smartest people need help.



WHY RESPEC EXPLOSIVES ENGINEERING?

DRILL AND BLAST ENGINEERING

World class services including vibration control, drill and blast instrumentation, blast optimization, contract engineering, training, and others



CARLSON LASER MEASUREMENT

Official Carlson boretrak, quarryman profiler, C-ALS, and void scan training, demonstrations, technical support, and sales



BLASTFEEDER™

Electronic drill and blast reporting on mobile devices with GPS positioning and data analytics



BY THE NUMBERS...

1969

RESPEC was incorporated in 1969

275+

Over 275 employees throughout the US and Canada

\$40M

\$40M in annual revenue

20+

Over 20 offices in 13 states throughout North America.

EVEN IN THE MOST DIFFICULT CONDITIONS, WE'RE THERE TO HELP.

Our explosives experts have consulted and provided engineering services for clients located across the globe, spanning throughout the US, Canada, Finland, France, Romania, Philippines, Argentina, and others. Our engineers are experts in all areas of drilling and blasting, including:

- // Explosives Performance Testing
- // Blast Vibrations
- // Data Management
- // Site Specific Training
- // Drill to Mill Studies
- // Instrumentation
- // Specialty Projects

KNOW-HOW IS EVERYTHING.

We use our resourcefulness and vast experience to solve problems. It's called know-how. And when you have it, problems aren't problems at all. Know-how defines the core of who we are. It's how our clients see us. Know-how speaks to ingenuity, aptitude, and skill—it is not merely knowledge; it is knowledge on how to get things done.

CONTACT US

Dr. Nathan Rouse

Manager, Explosives Engineering
Nathan.Rouse@respec.com



Carlson
LASER MEASUREMENT DEVICES

RESPEC PARTNERS WITH CARLSON SOFTWARE

➤ **RESPEC AND CARLSON SOFTWARE, INC.**, a global company specializing in CAD design software, field data collection, mining software and machine control products, have entered a new strategic services agreement.

This new agreement follows Carlson's 2017 acquisition of Renishaw's mining, mapping and modules product lines. Renishaw is an engineering and scientific technology company, with expertise in precision measurement products. RESPEC will serve in a consultant role to Carlson products, providing industry expertise to drilling and blasting companies across the United States.

Carlson Software's new portfolio of high-precision technology includes spatial laser measurement equipment for the mining and quarry industry. Carlson's laser-scanning devices allow operators "to survey previously inaccessible areas and plan future projects in safety, while maximizing productivity."

Carlson's purchase includes the Quarryman® 3D highwall profiler, Boretrak® borehole surveying systems, the C-ALS® borehole-deployable scanner for inaccessible voids, the 3D laser Void Scanner, and the Merlin marine based mapping system. In addition to hardware manufacturing, Carlson offers Precision 3D Drill and Blast software for blast design.

RESPEC, a global leader in mining expertise, is bringing its almost 50 years of experience in drilling and blasting, field instrumentation, and marketing in the drill and blast industry to the agreement. As a data and information systems expert, RESPEC will also consult with Carlson on various software packages outside of the drill and blast arena.

RESPEC's CEO and President Todd J. Kenner, comments, "We are very excited to support Carlson Software's growth in the mining equipment manufacturing and blast design software development arena."

The new agreement provides significant business development opportunities for RESPEC. Under the terms of the agreement, RESPEC will provide most US-based Carlson customers with instrumentation queries, including demonstrations, purchasing, and information. To establish this partnership in the marketplace, RESPEC has agreed to work with Carlson to create marketing campaigns, conference exhibits and training courses.

Working closely with Carlson Software, RESPEC's team looks forward to a synergistic relationship that strengthens both companies.

To learn more, please contact RESPEC's team members:

- // Nathan Rouse (nathan.rouse@respec.com)
- // James Brown (james.brown@respec.com)

For more information on the Carlson Mine HW Products, visit
<http://www.carlsonsw.com/products/laser-measurement-devices/>