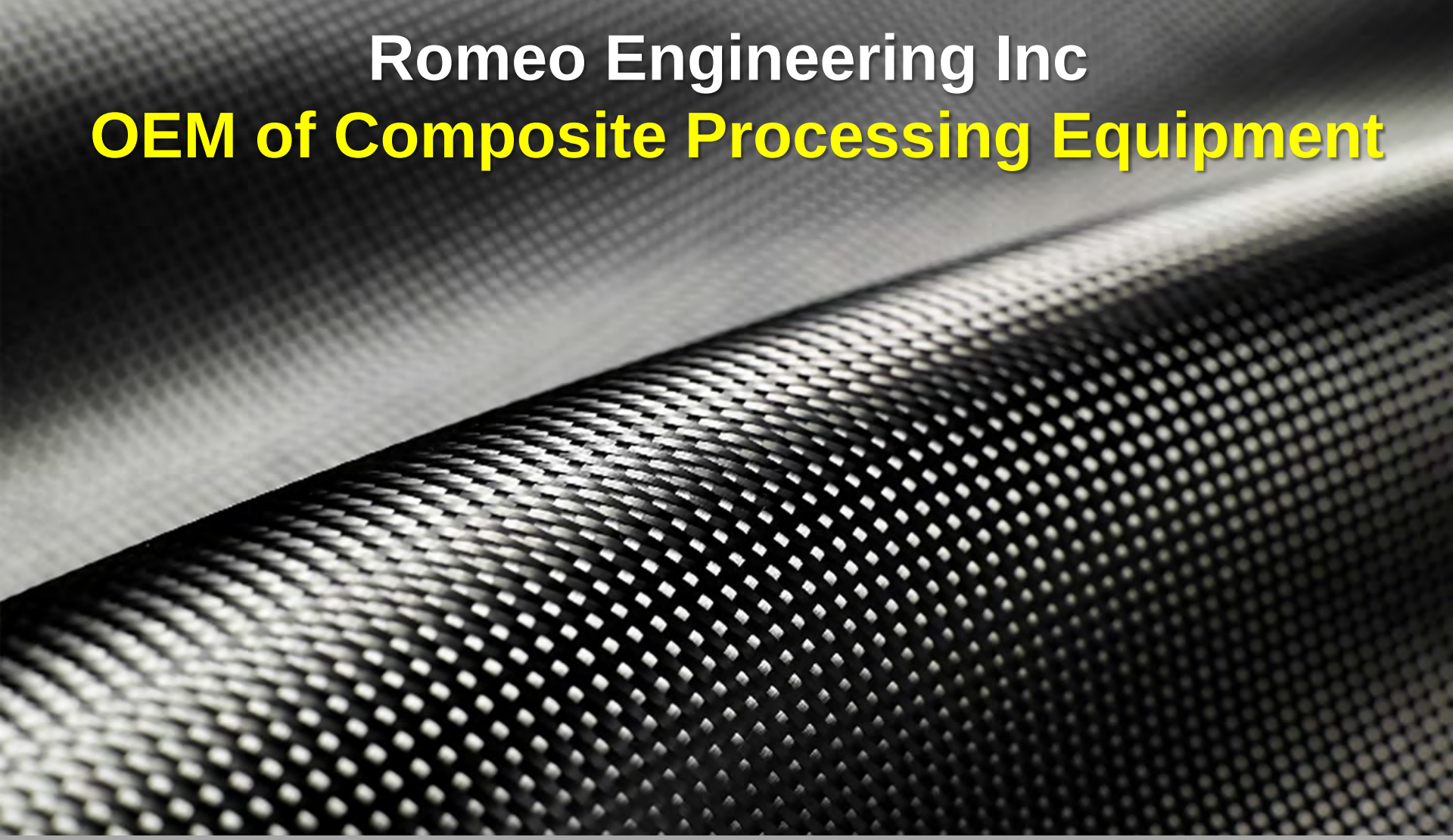
Romeo Engineering Inc

OEM of Composite Processing Equipment



ROMEO ENGINEERING INC

Colby Lawrence – Vice President

May of 2023

USA and International Patents Pending

Our Company's Ecosystem.

- We design and manufacture composite pultruders, high pressure waterjet cutters, & advanced industrial automation for civilian and military use.
- 3 factories in Fort Worth, Texas USA.
- Full implementation including engineering design, FEA analysis, materials research, machinery fabrication, product design, facility layouts & PID, programming, and servers.
- In-house engineering, fabrication, PhD nano-polymer & ceramic development.

CNC Waterjet Division

Aircraft Division

Energetics Division

Proton Accelerators

Sanitary/Cryogenic Division

Pultrusion Division


MacLean POWER SYSTEMS
AVIENT
SIMPSON Strong-Tie
HUBBELL
Frito Lay
Flexi-Roll
EPSILON COMPOSITE The alternative
NAVSEA INDIAN HEAD Surface Warfare Center Division
MOTT'S
EZ Flex SPORT MATS
3Com
LOCKHEED MARTIN
HOBART
MILLIKEN
Bell Helicopter A Textron Company
daltile
BGC
HEXCEL
TEAM TINKER AMERICA'S AIR FORCE
Fibergrate Composite Structures
Bystronic
WHOLLY GUACAMOLE CLASSIC
L&L Products
CertainTeed
SAINT EXUPÉRY TECHNOLOGICAL RESEARCH INSTITUTE
ANDERSEN WINDOWS & DOORS
UNITED LENS COMPANY ULC EST 1916
McIntosh

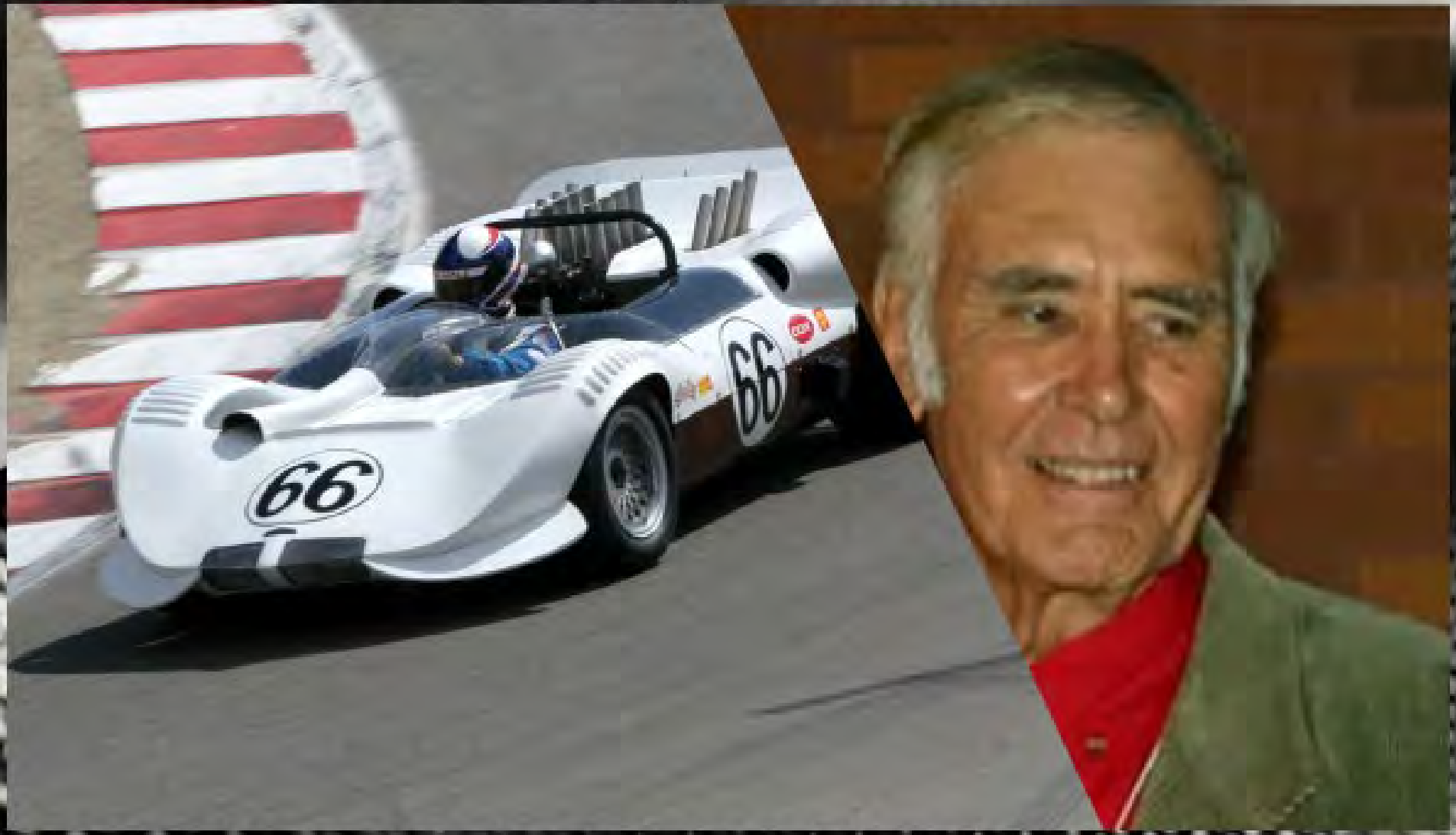
In the Beginning

For those of you who may not know, my name is Colby Lawrence, I have worked in this industry for nearly 24 years, during that time I have had exposure in most pultrusion related tasks, from machinery installation around the world to production of complex pultruded profiles made from various resins and fibers, however most of my career has been spent with a heavy focus in the design, fabrication and operation of pultrusion related machinery.

It began for me with the Green family back in 2000. Andrew Green (or Andy as most knew) had a passion for high performance FRP's, having developed many revolutionary concepts and products like the Chaparral Race Car Chassis in the late sixties, Olympic worthy sailboats, composite telescoping towers, to 100% composite buildings for companies like Apple, AT&T, and Underwriters Labs. Andy also funded the creation of a new academic chair in composites at Lamar University, Beaumont Texas, and then later in life a generous donation to the University of Texas in Arlington. His contributions were intended to promote the advancement of composite structural capabilities. Andy's late son Phillip Lee Green, also my mentor, was well known throughout our industry for providing pultrusion machinery to pultruders domestic and foreign. I was fortunate to have shared in their endeavors and to have had the opportunity to work so closely with two people that devoted their lives to what we do today.

Test design pre Chaparral Race Car Designed & Fabricated by Andy Green

Andy Green

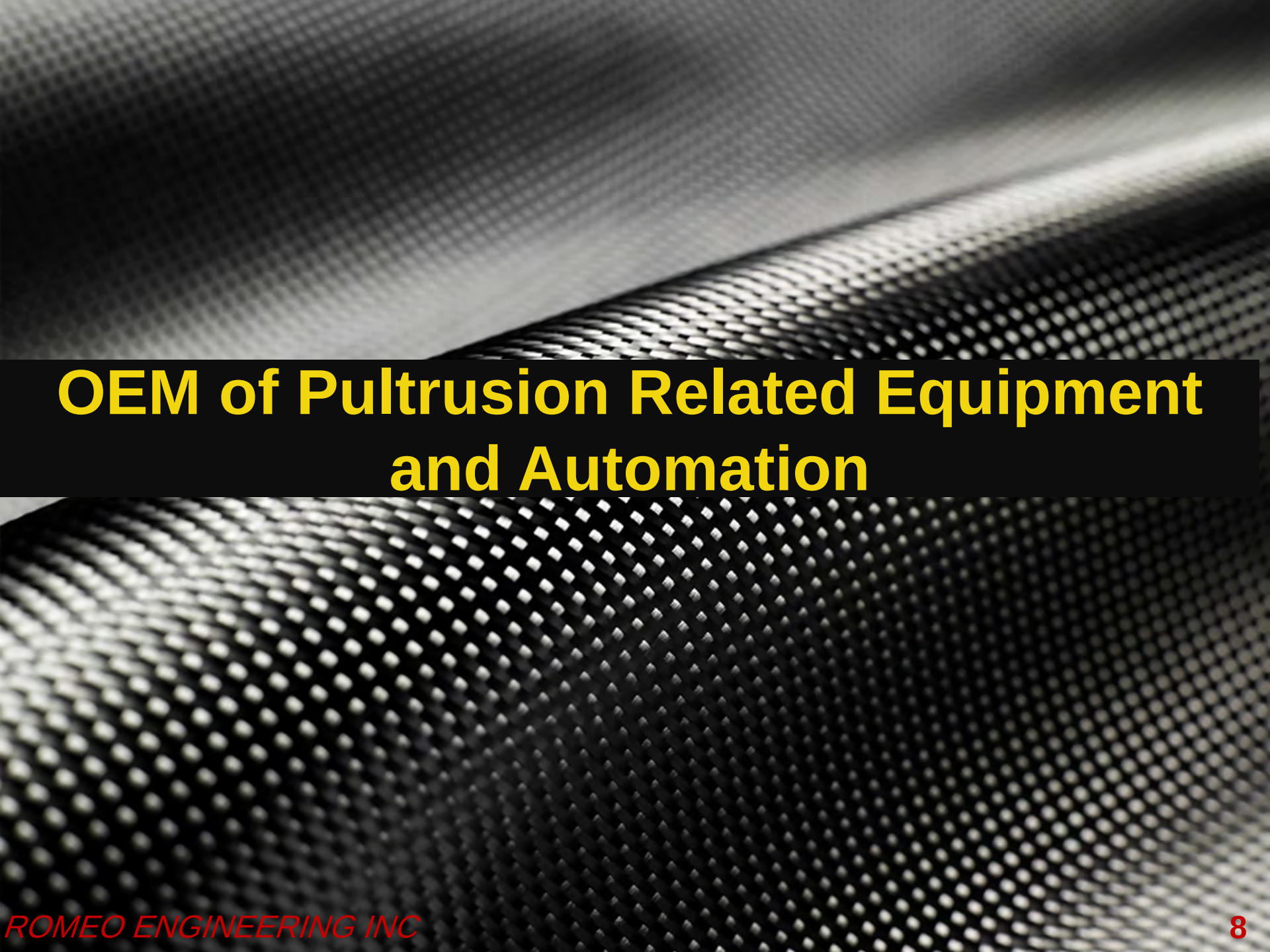


Romeo Engineering Horsepower

Today, my contributions continue alongside Romeo Engineering Inc. as one of the premier providers of custom automation, with expertise in not only pultrusion but also CNC controlled waterjet cutting tables and highly customized applications associated with assembly machinery as well as pre and post processing tasks throughout various industries. For nearly 37 years owner and Professional Engineer, Frank C. Romeo and his associates have implemented some of the most complex inventions and automated systems, from the first color camera on the moon, to helicopter blade assembly cells. Once again, I find myself very fortunate to have the opportunity to work with such a talented group of Engineers while we continually improve and develop new and exciting technology for the composites industry.

For the remainder of my time, I would like to go off script and briefly discuss with you how implementing various levels of software control can effectively mitigate downtime and cut operating cost I encourage those of you interested to learn more about what we do to stop by and visit with me.

"Romeo's Entry level Artificial Intelligence"

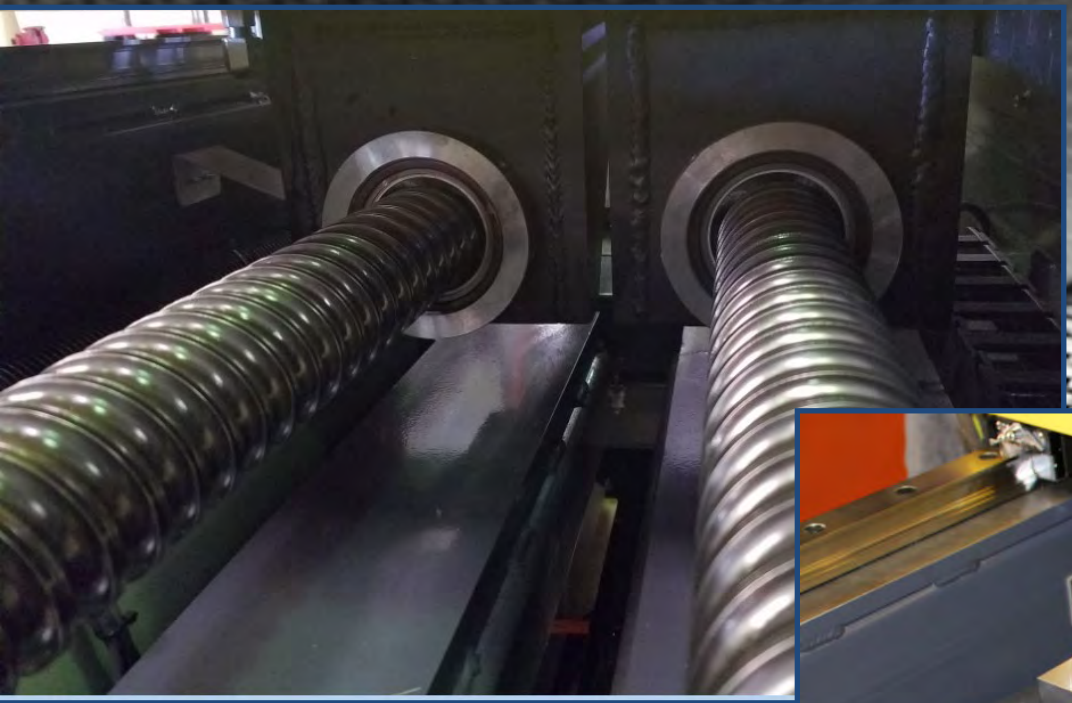


OEM of Pultrusion Related Equipment and Automation

Hydraulically Driven Machinery

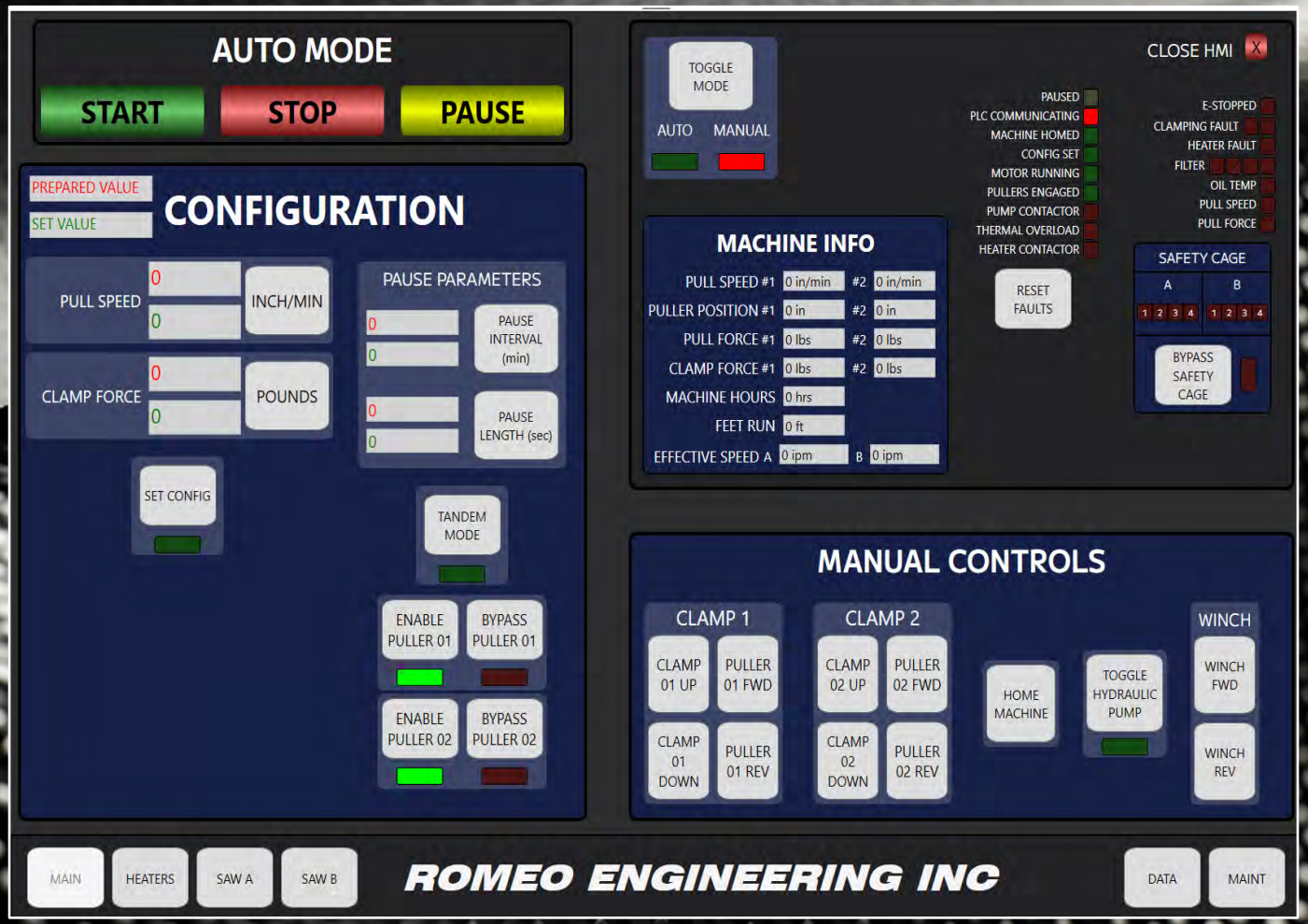
Servo Driven Pultruders

Dual Ball Screw Design



Servo /Ballscrew Drive

Total Process Control & Monitoring.



Customizable Interface

Customizable Interface

Carbon Fiber, Fiberglass and Basalt Applications

Direct inject or open bath

Pressurized Cabinets For Hazardous Environments

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Customized Heating Systems

High Performance Series

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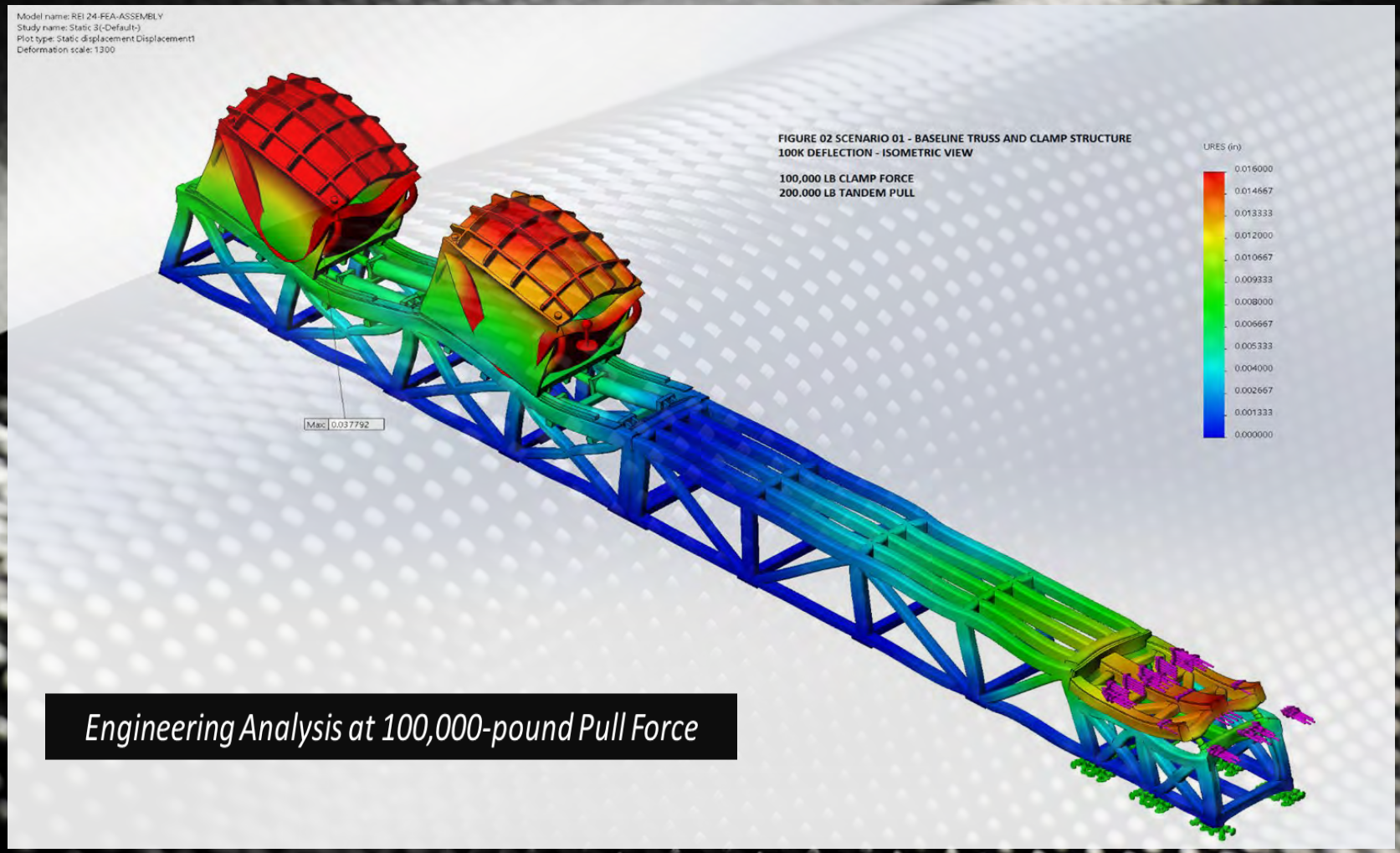
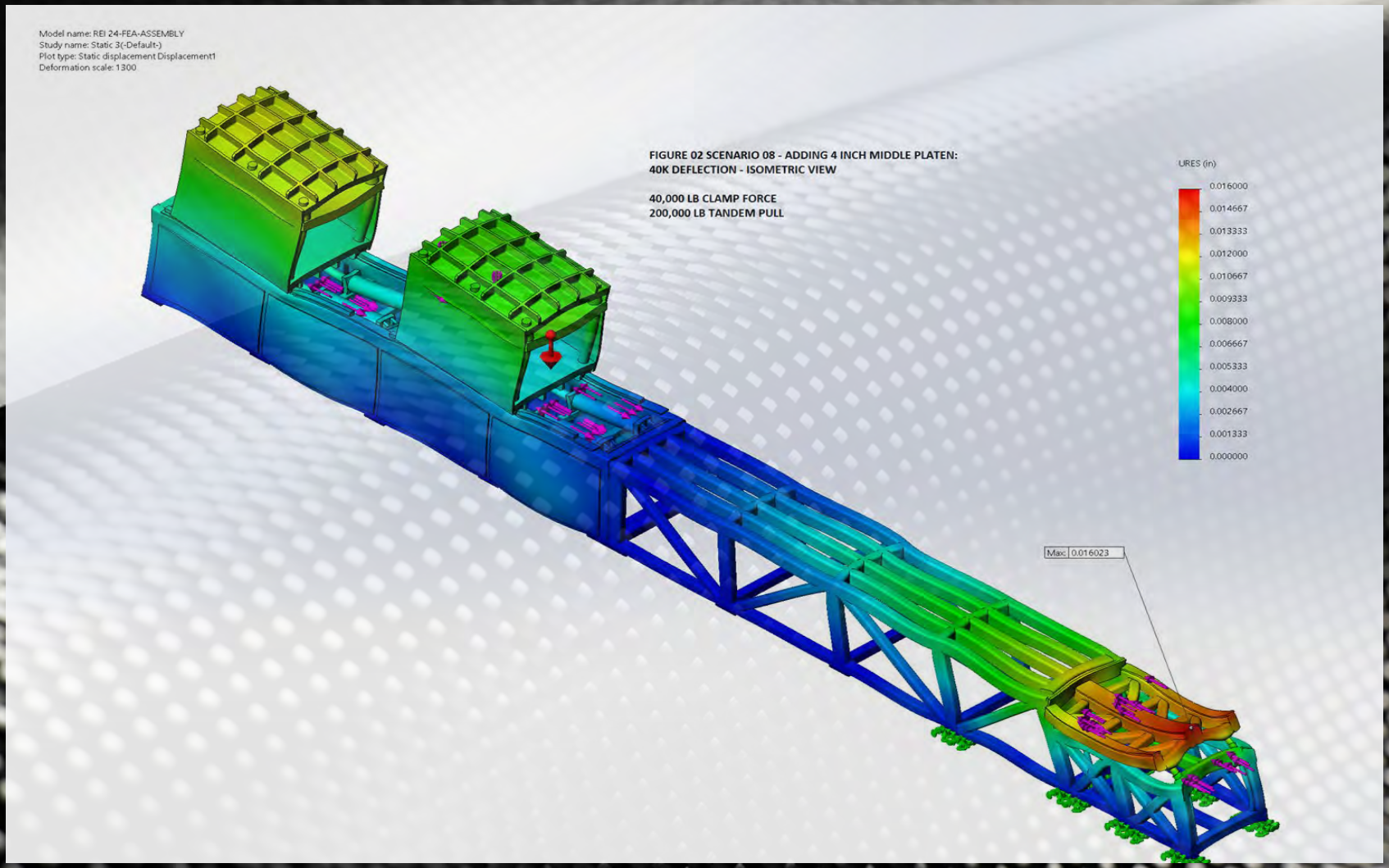
Finite Element Analysis (FEA)

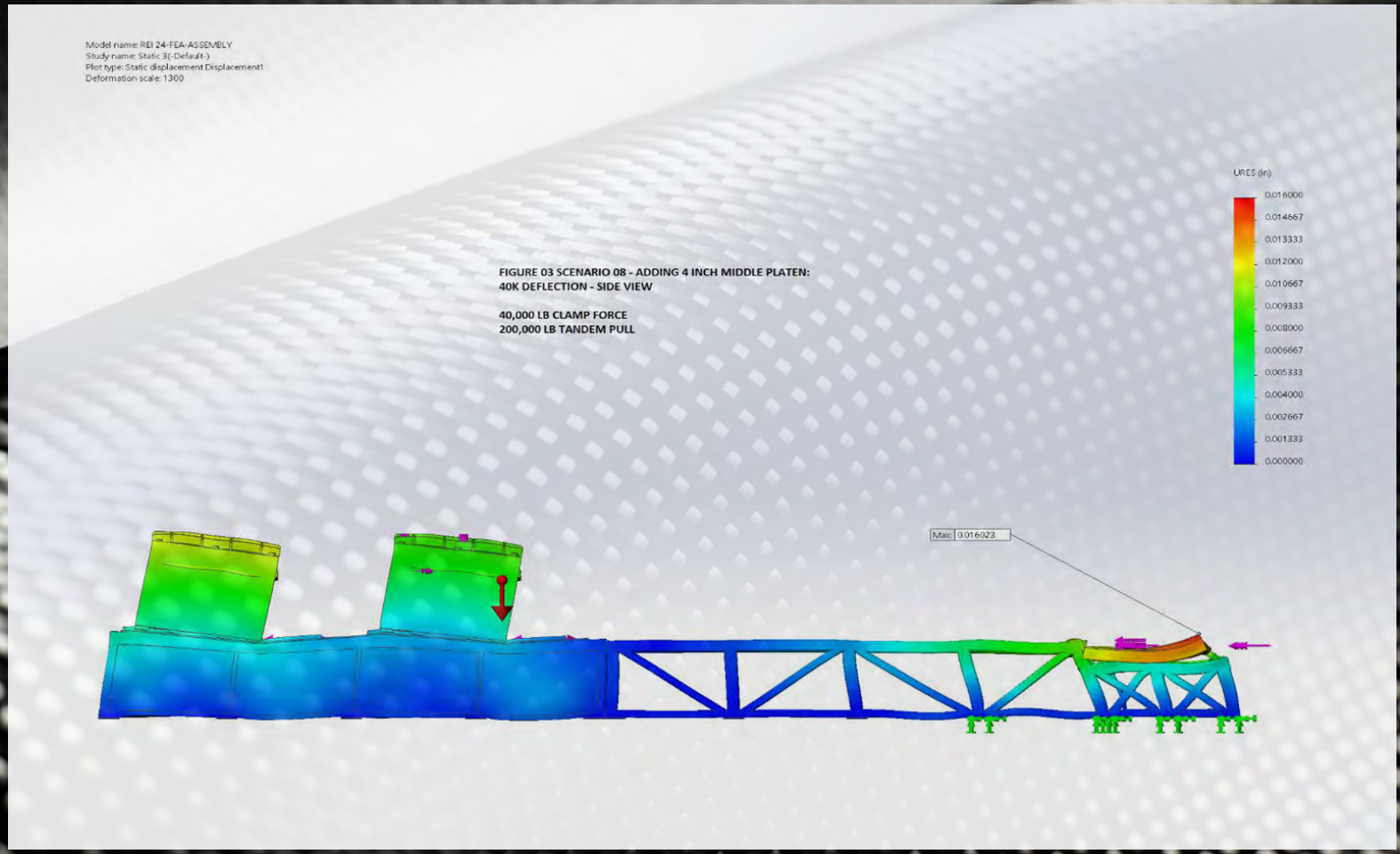


Engineering Analysis at 100,000-pound Pull Force

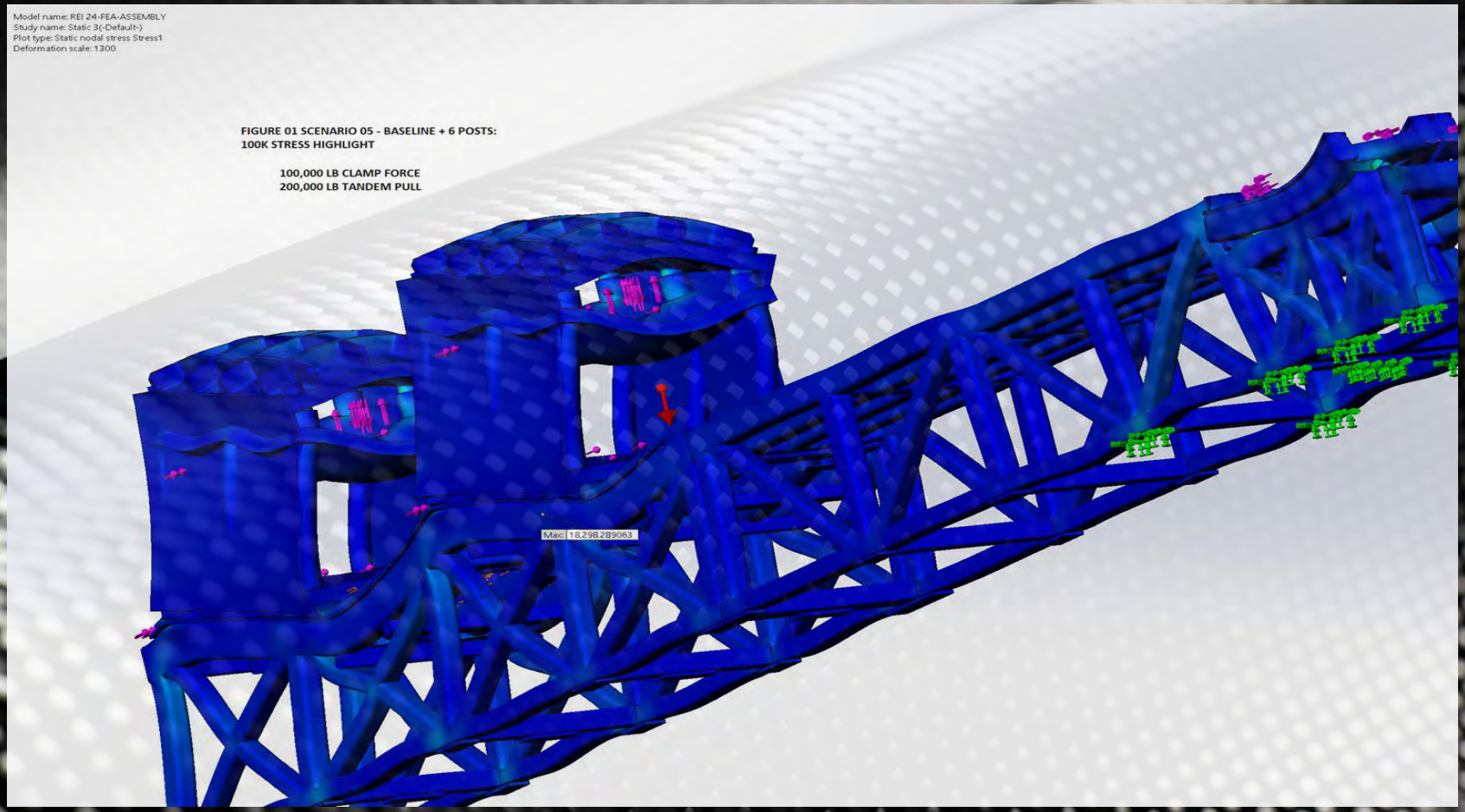
Isometric Deflection View



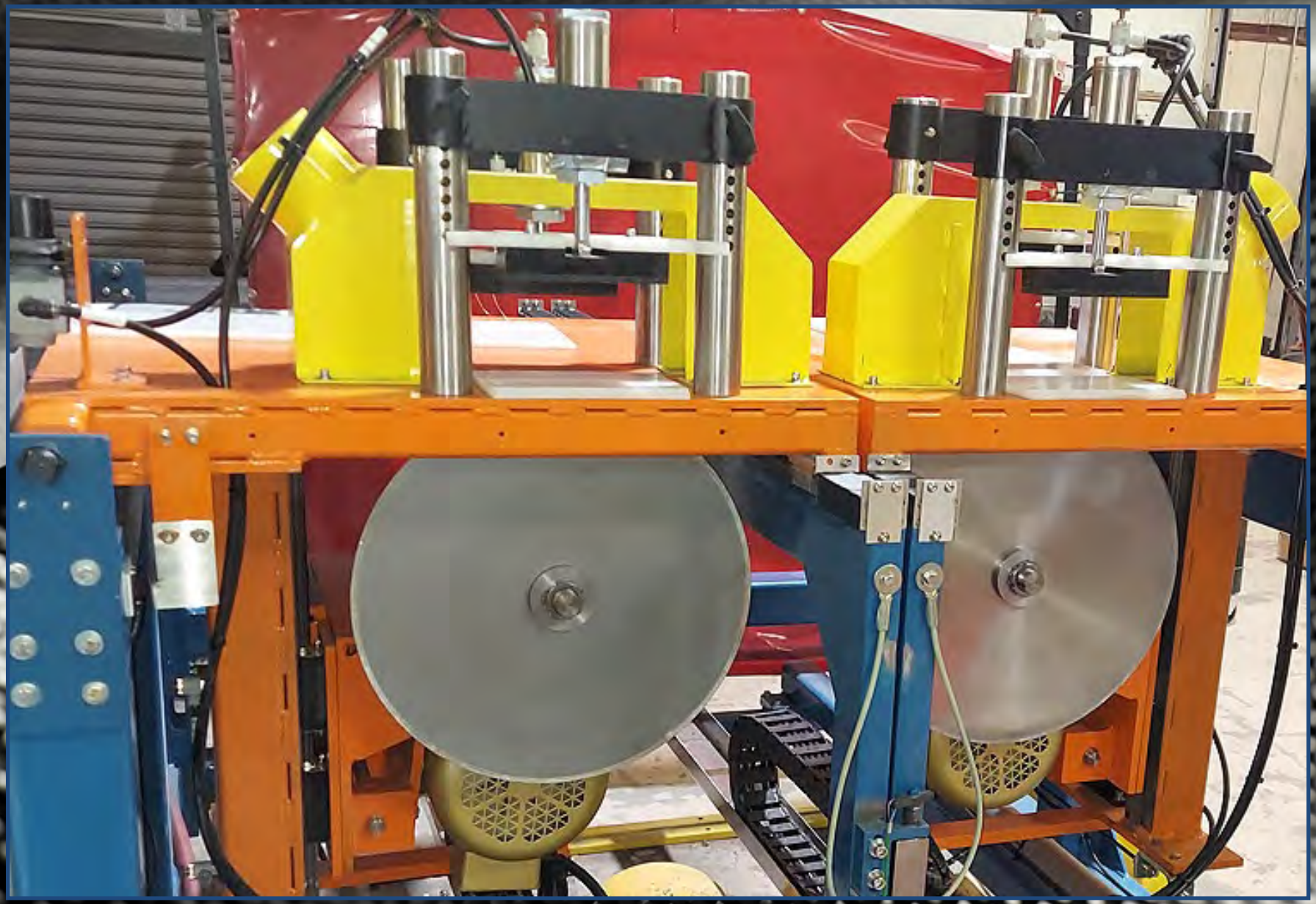
Side View Deflection



Stress Analysis



Automatic Saws, Gang Drills, Grinders.



Innovative

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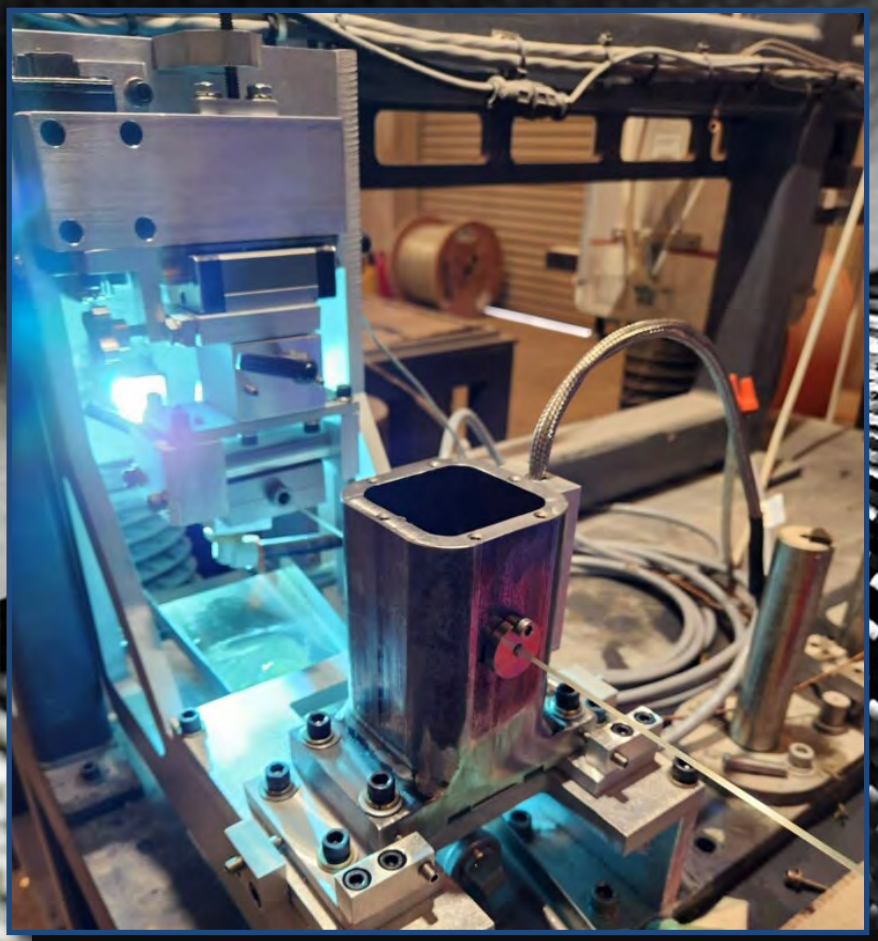
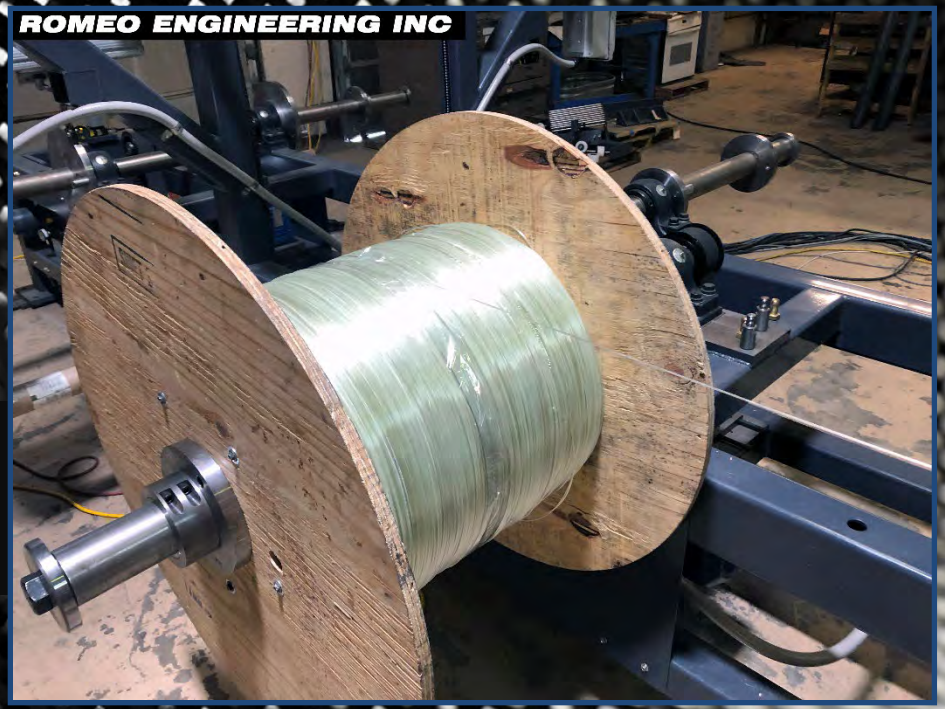
Custom Cure & Winding at 300 Feet/Minute.



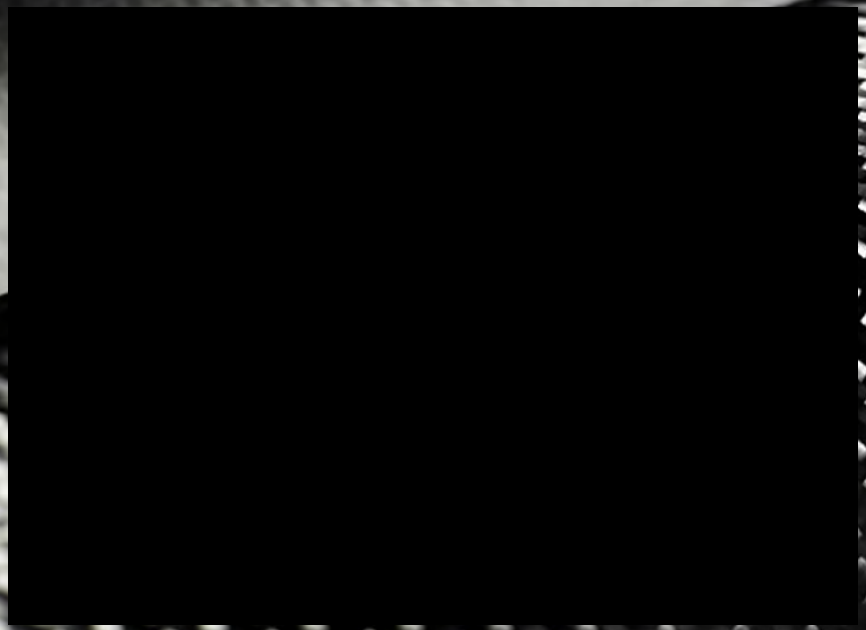
Rapid cure, on the fly inspection & winding of a multi -lane fiber optic strength cable pultruder



Ancillary Systems

Ancillary Equipment

Gang Drills



Post Processing

Capabilities

1. In - House 26’ x 5’ x 5’ Planar Mill
2. In - House Waterjet 14’x 7’
3. Modeling Software
   - CAD
   - Solid Works
   - Catia
4. Full Time Staff
   - Software Engineers
   - Mechanical Engineers
   - Electrical Engineers
   - PhD Chemist
   - Technicians
   - Assemblers
   - Machinist
5. Pultrusion Services
   - Consultation
   - Process Optimization
   - Product Design
   - Pre and Post processing tasks
6. Remote Access
   - Efficient Troubleshooting and Repair
   - Integrated Camera Systems for Evaluation
   - 24/7 support and service contracts available

Testimonials and Service

Team Romeo,

"Romeo Engineering's remote access into our machinery has been very helpful from a cost savings standpoint. They can access the machinery 24/7 while the machine is in operation. The Romeo group have always been extremely helpful anytime day or night. There has not been an occurrence when the phone was not answered, and the problem resolved in a timely manner."

Brent Davis | Maintenance Mgr.
Maclean Power Systems

Dear Romeo Engineering,

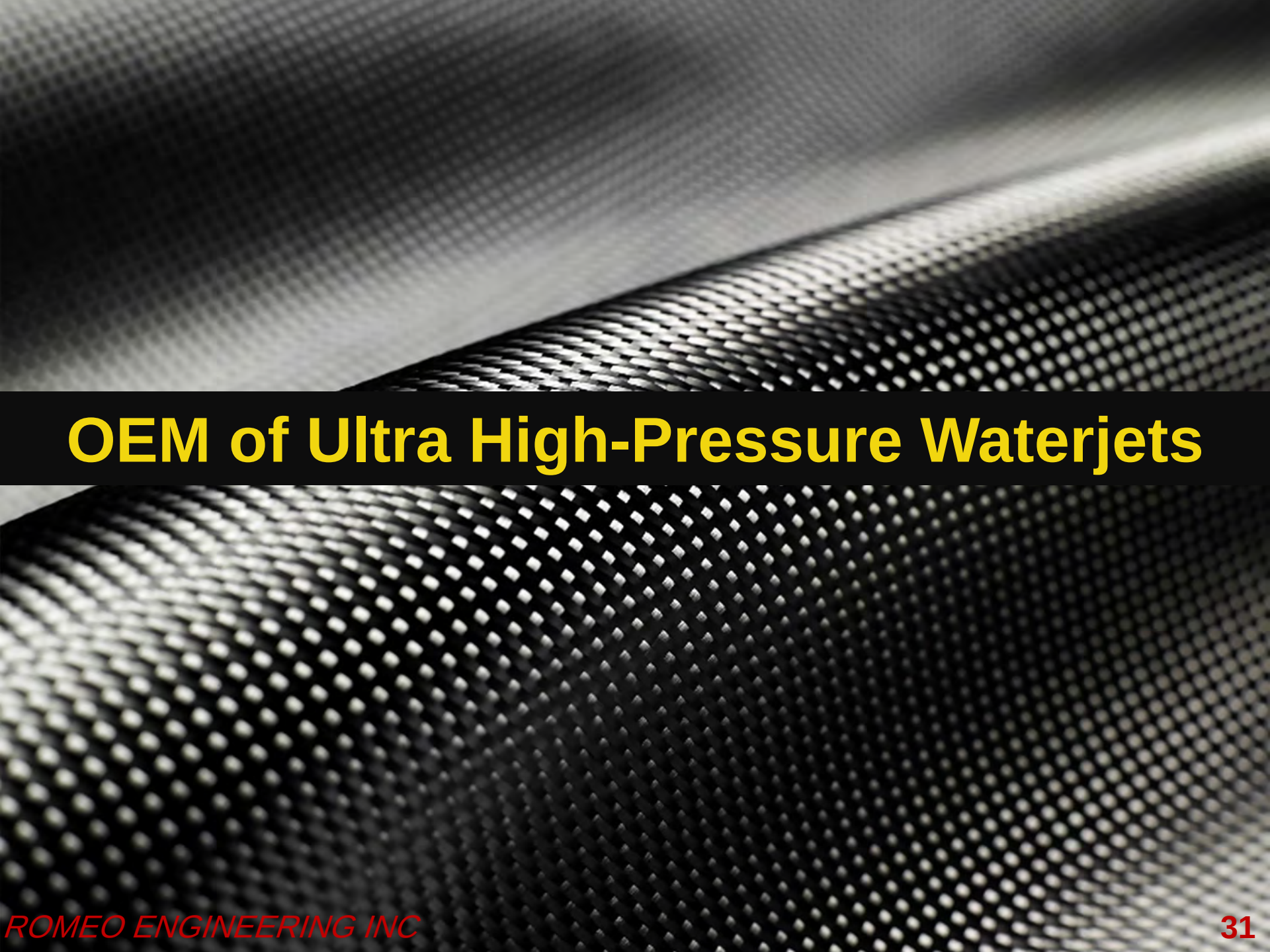
"I am very thankful for your exceptional service to our company through your remote access technology. Since implementing your service, we have experienced significant cost savings and a notable increase in productivity and efficiency.

Your team's responsiveness and availability have been outstanding. I have never experienced a time when my calls or emails went unanswered, and the problems we encountered were always resolved promptly and professionally. Your technicians were knowledgeable and experienced, and they were able to quickly diagnose and fix any issues we had with our machinery."

Sincerely,

Brent Williams

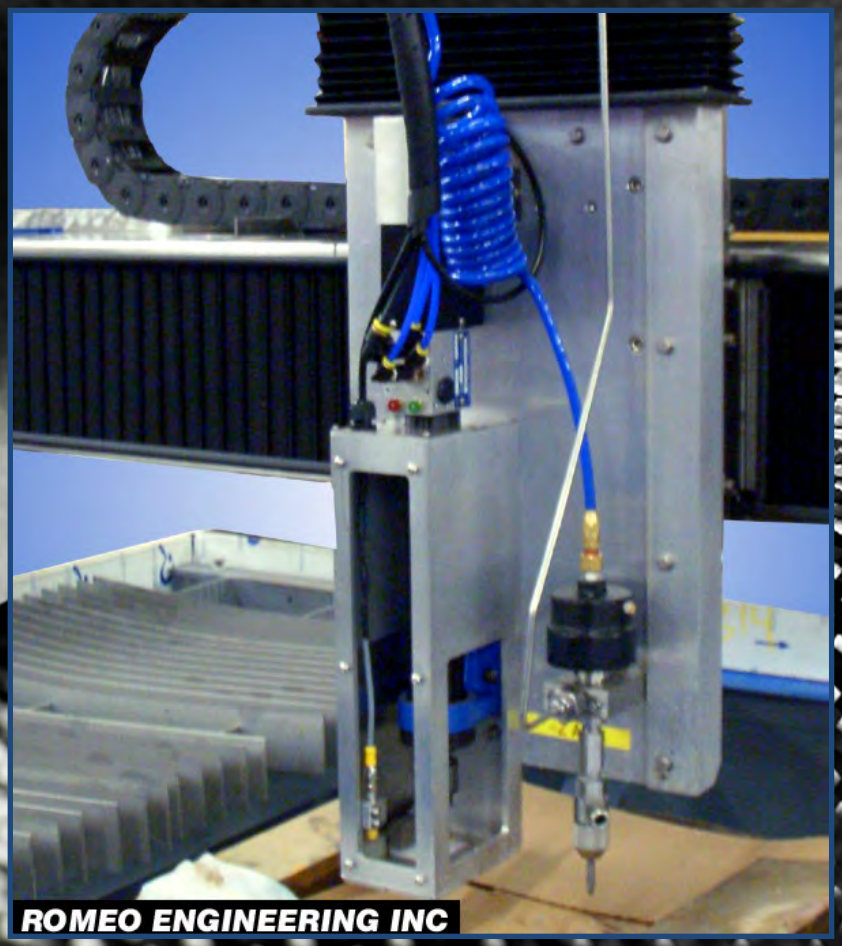
ROMEO ENGINEERING INC


OEM of Ultra High-Pressure Waterjets

OEM of Ultra High Pressure Waterjet Cutters.

- REI builds 60,000-psi to 90,000-psi waterjet and abrasive waterjet cutting machines.
- Cut unidirectional fiberglass, carbon fiber reinforced plies, blown fiberglass, etc.
- Combo machines available trimming, drilling, 5-axis, lathes, etc in same machine.
- 6 models available up to 8x8-meters long per section. Huge variety of custom models (portable, explosion-proof, etc).

Abrasive Waterjet Cutting and Drilling.



- REI builds 60,000-psi to 90,000-psi waterjets.
- Many sizes, configurations, options available.

Router Cut Surface Quality.

Abrasive Waterjet Cut Surface – CFRP.

Waterjet Cutting System

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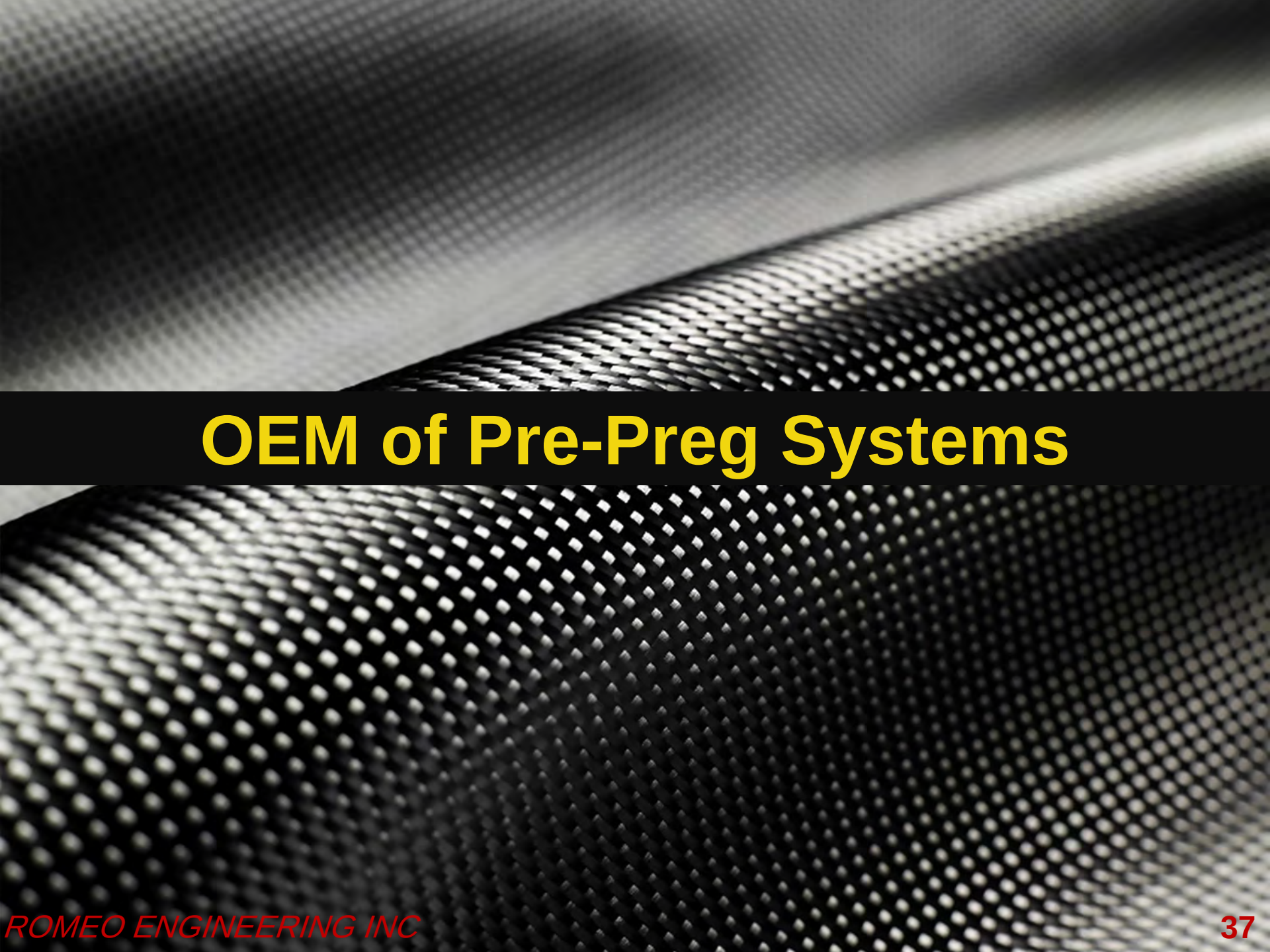
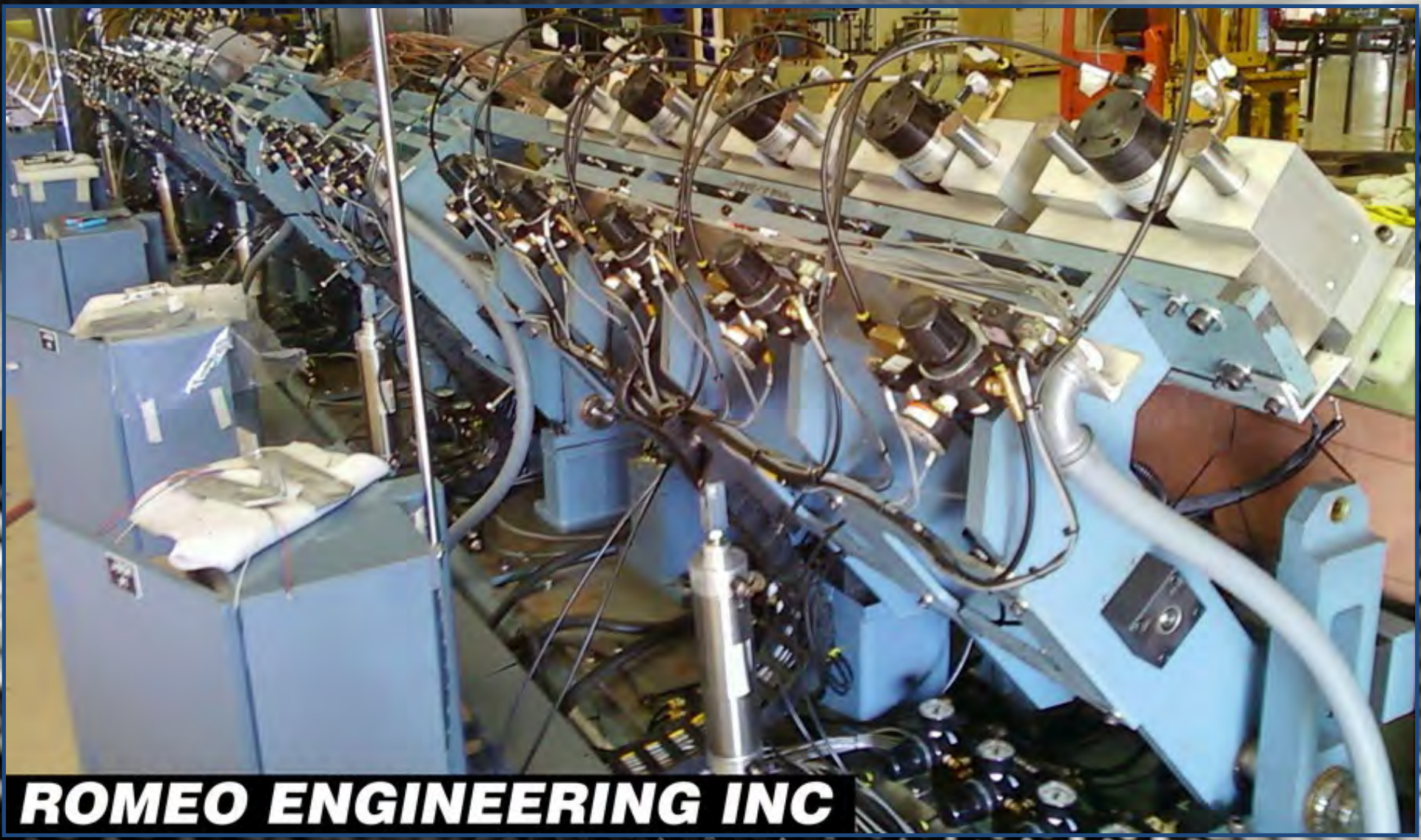


OEM of Pre-Preg Systems

New Technology in 3D Pre-Preg.

- New method to form 3 dimensional shapes. Romeo Engineering Inc has **patent pending**.
- Used on blade spars for UH-60 Blackhawk, V-22 Osprey, CH-53K, Bell 525, etc.
- No voids, wrinkles, or marcels.
- New. Not an automated tape layer; not a single-tow fiber placement method.
- Works with any material like fiberglass, carbon fiber, Bismaleimide, honeycomb, etc.
- Lay-down rate 17 kg/hour (38 lb/hour) on complex 3D shapes. Faster on simpler shapes.

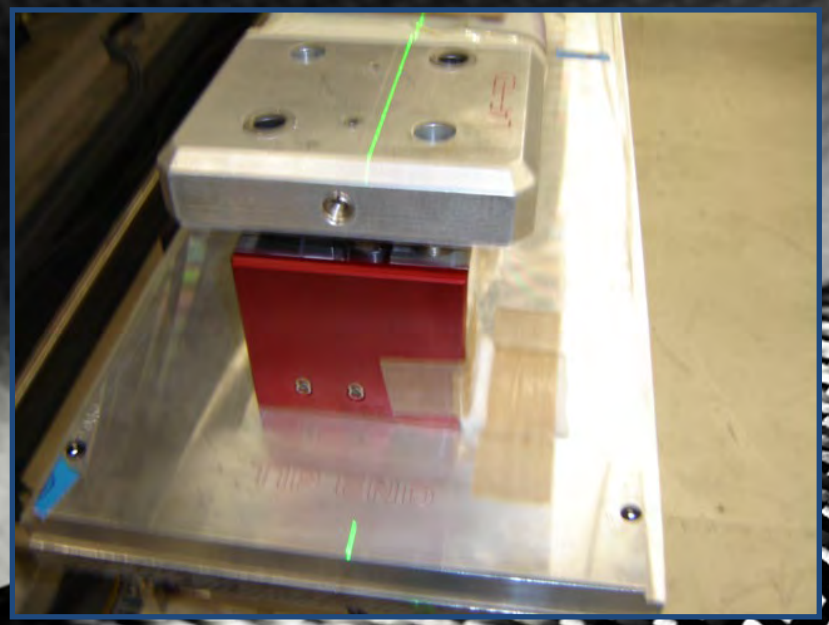
Out-of-Autoclave Bond & Cure Tools.



Custom Compaction Tables & Bags.

- REI makes custom silicone bags (regular or platinum cured).
- More features and superior controls than competitive brands.

Ply Placement Laser Projection.

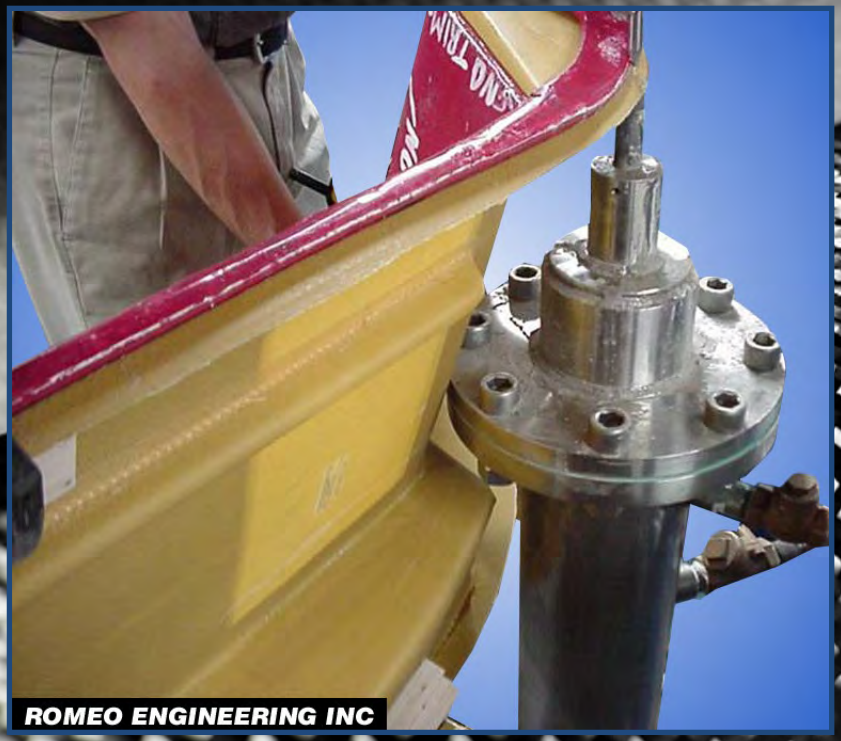


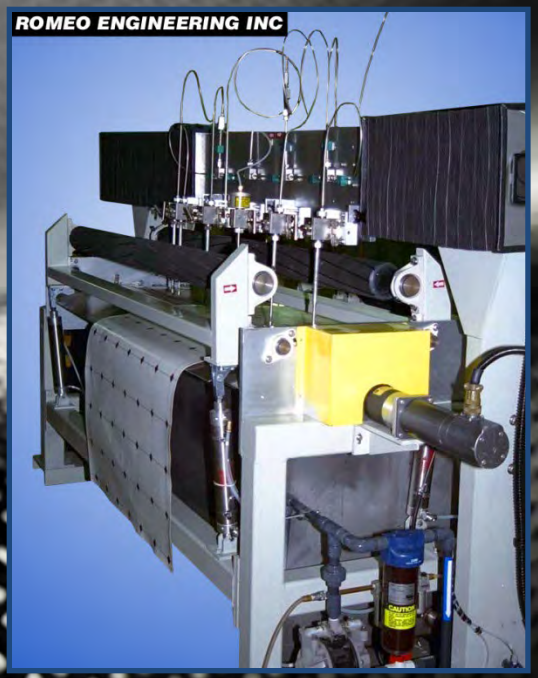
- Multi-tasking controller operates 8 LaserGuide projectors on multiple jobs simultaneously.
- Wireless remote control.
- Bright green beam.
- 0.020” - .075” wide, +/- 30 degrees projection angle.
- Typical accuracy within 0.030” of the intended line over a 10 x 10’ @ elevation of 10’.
- Imports files from competitive brands like Virtek® without need for conversion.
- Interfaces available for FiberSim™, CATIA ™, Verisurf ™, Simulate ™, etc.

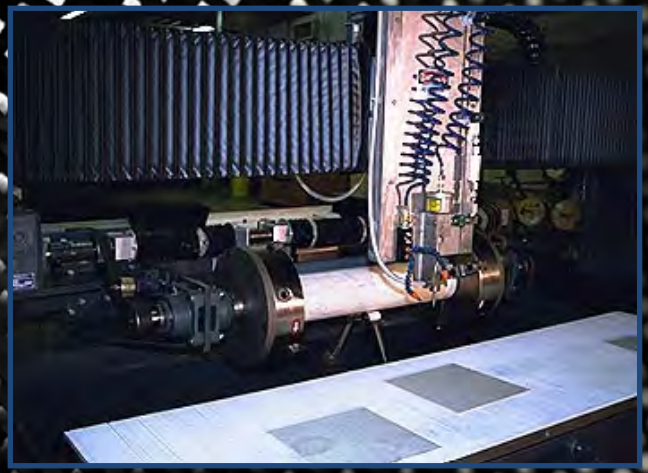
6,000 Horsepower Blade Test Cell.

Automatic loading of test specima. Retractable interferometer.

Other Applications.







- REI builds high pressure waterjets for manual trimming, recycle waste materials, extrusions, waterjet lathes, slitters, and many other applications.

OEM of Energetic Systems

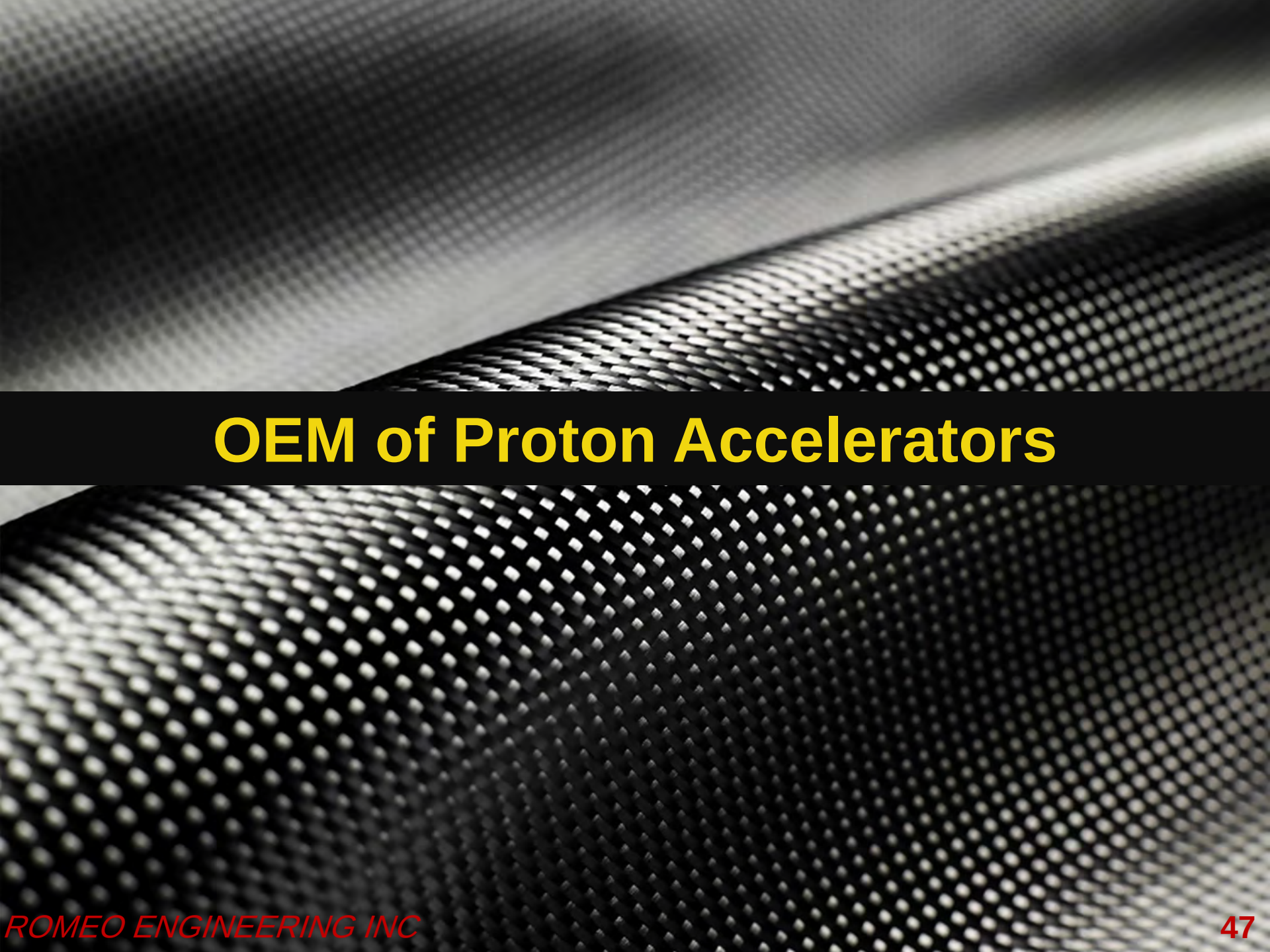
Energetics Assembly Cells.

- Extruded Airbag & Rocket Propellant
- Explosive Ordnance
- LOVA Smokeless Propellants
- W76/W88 Nuclear Weapons De-Mil
- Explosives Casting Machines
- 2.75” Hellfire Potassium Perchlorate

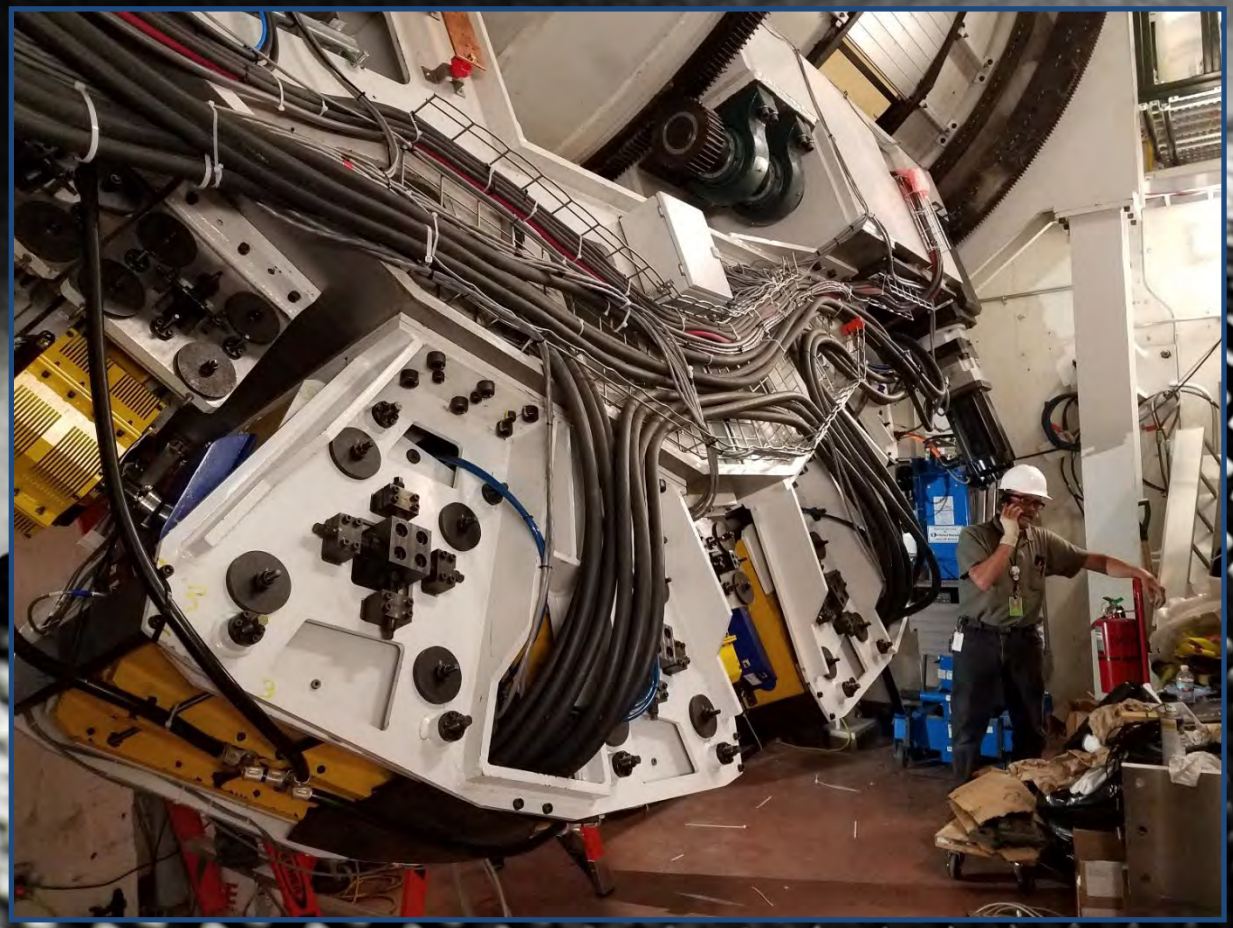
De-Militarization.

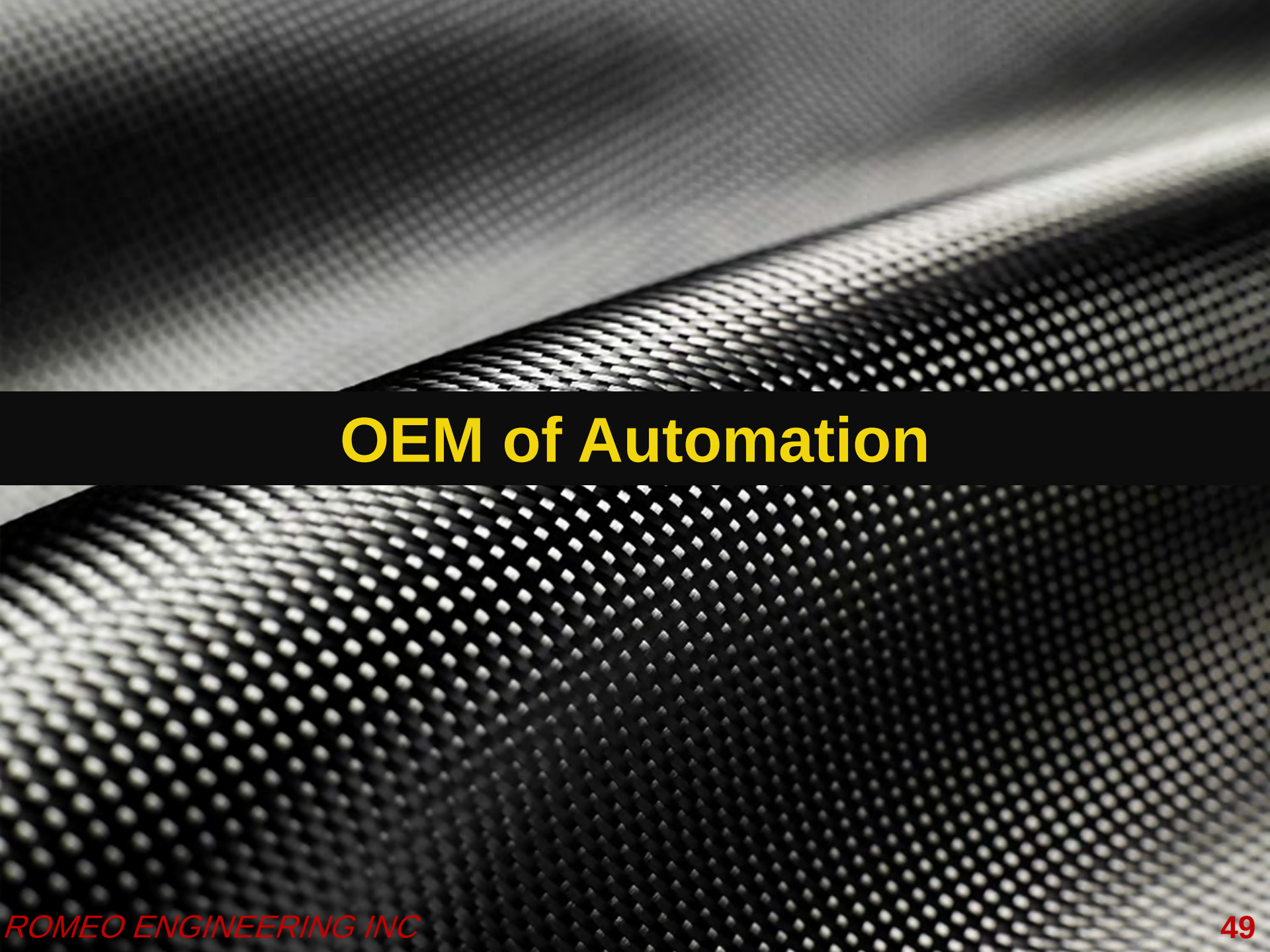
Hydraulic De-Torque System + Disposal of 250,000 Sarin Gas Weapons

- M67 Grenade
- De-Mil of Sarin Munitions
- BLU 97
- GEMMS Mine
- Plastic Bonded Explosives
- CBU87 Cluster Bomb
- M75


OEM of Proton Accelerators

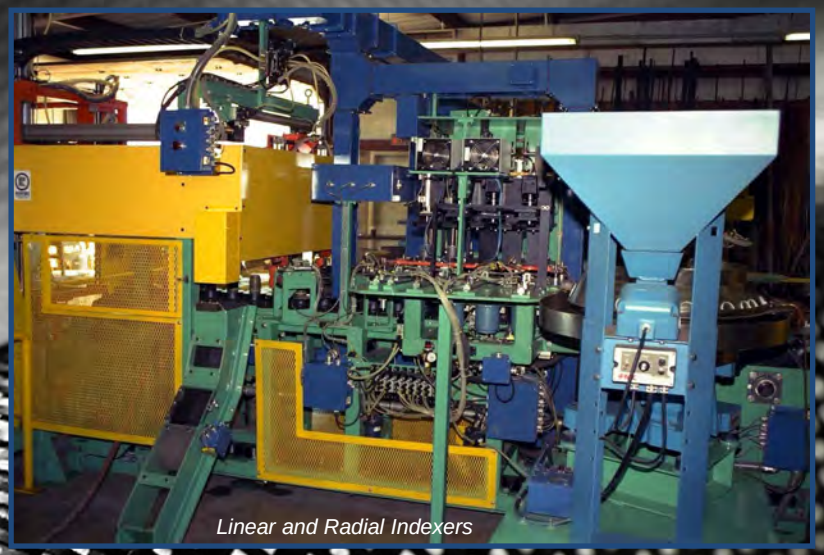
Oncology Proton Therapy Division.




OEM of Automation

Assembly Machine Division.

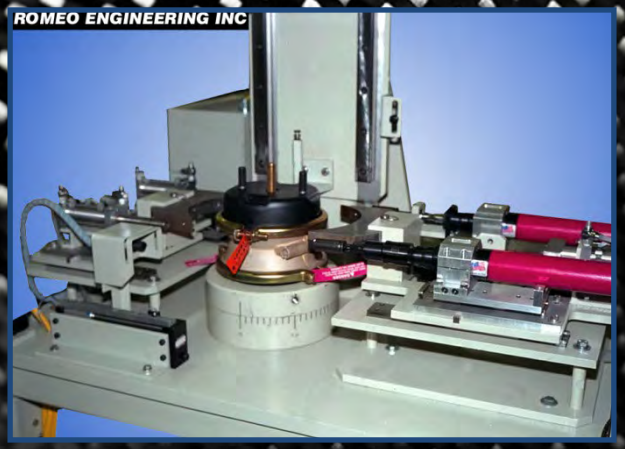
Flextronics Production

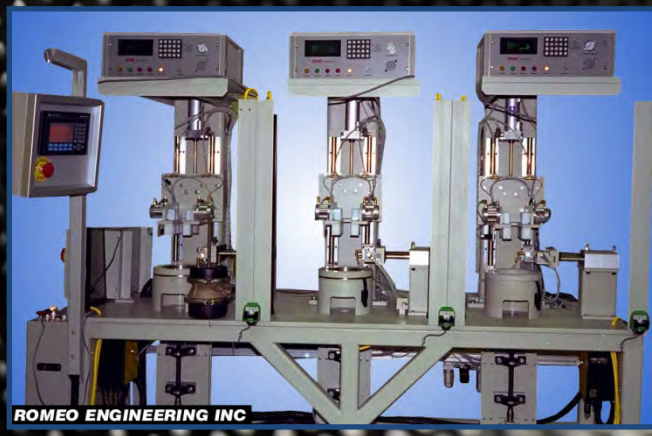

Linear and Radial Indexers


MagnaFlux® Inspection Systems


Air Compressor Valve Plate Drilling Machine (Cam Driven)

Automotive.





Truck Brake Weld & Leak Decay Testing Systems

ROMEO ENGINEERING INC


BGC

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