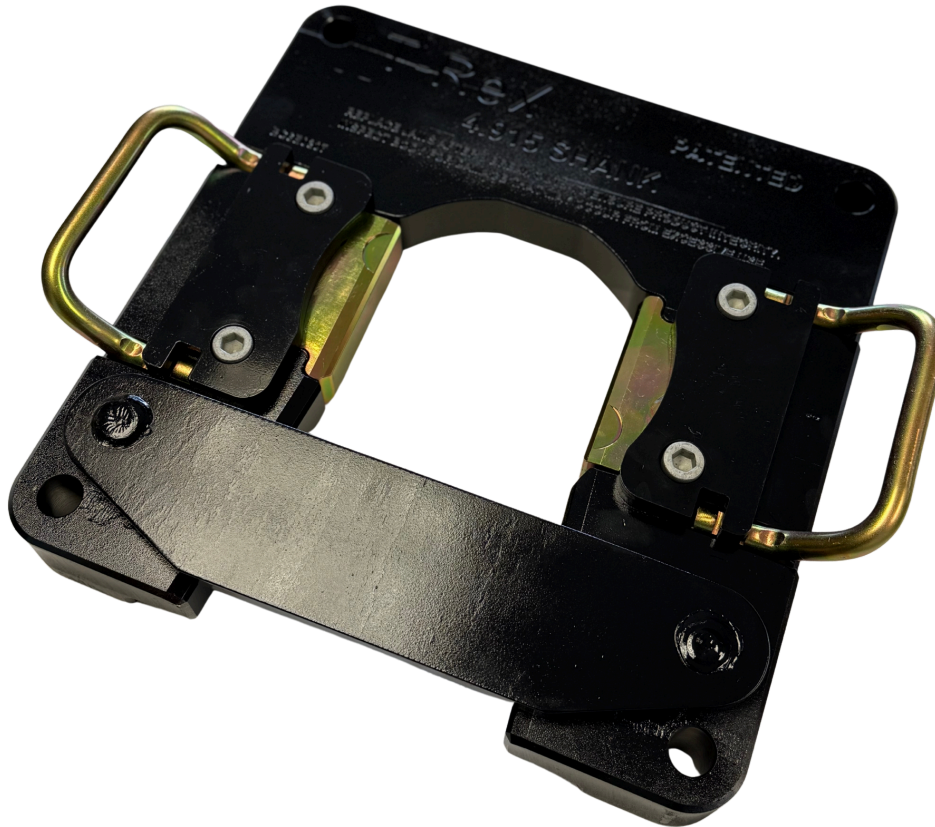


T-Rex

“The Next Generation in Bit Breaker Technology”



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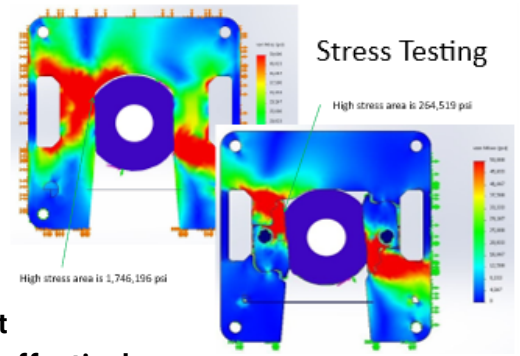
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PRODUCT DEVELOPMENT

Element Energy Solutions recognized the high cost, disposable nature of bit breakers and decided that there was a better way. Through optimized design criteria and utilizing Finite Element Analysis (FEA), an ideal design was determined. Based upon years of rigorous and iterative testing, it has led to building a tougher product. The T-Rex Bit Breaker has proven that durability and cost effectiveness can co-exist.

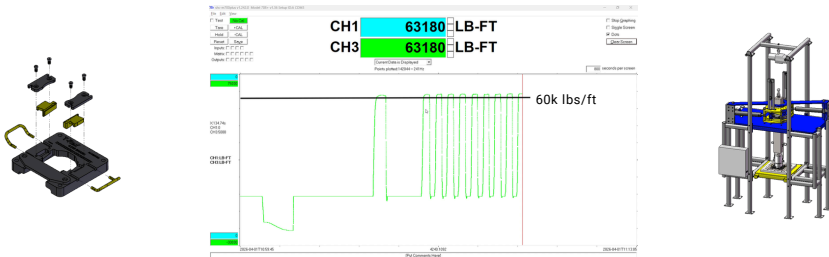
- 40% less material displacement
- Distribute stress over 6X more effectively



Concept → FEA → Prototype → Testing → Refinement → Final Design

RESEARCH AND DEVELOPMENT TEST FACILITY

In late 2020, Element Energy Solutions along with its manufacturing partner FlexTM, designed and constructed a Research and Development Test Facility. This provided empirical data throughout the product development phase. This facility has the capacity to rotate clockwise up to a maximum of 40,000 ft-lb and counterclockwise 120,000 ft-lb. All testing is monitored via cameras with real-time data capture. The T-Rex Bit Breaker is tested under real-world torque conditions (up to 20,000 lbs/ft clockwise and 65,000 lbs/ft counterclockwise).



MATERIAL AND PROCESS RESEARCH

The T-Rex Bit Breaker has undergone extensive material testing and process validation. Our ability to test various material specifications and types has provided the right balance of wearability and longevity. Our internal capability to design and machine product iterations on material and geometry contributes to the overall robustness of the T-Rex Bit Breaker.



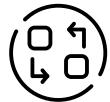
“Unlock cost savings in your Bit Breaker budget”

KEY FEATURES OF THE T-Rex



Reusable
Bodies

+



Replacable
Jaws

=



Cost Savings

Get Yours Today!

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