



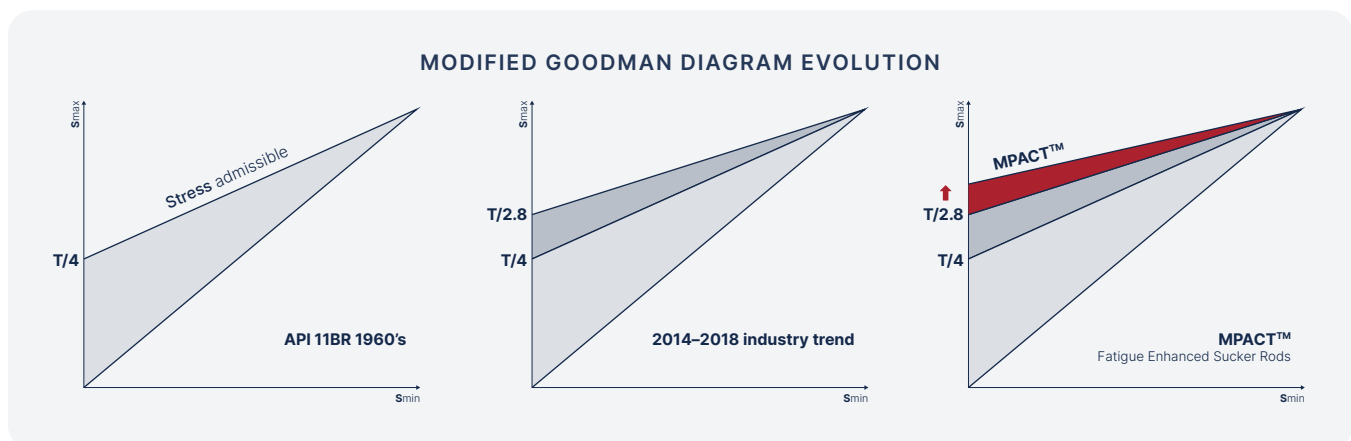
MPACT

Sucker Rod Fatigue Enhancing Technology

After years of field and laboratory testing of new and used sucker rods, TRC compiled the most extensive database on the effect of shot-peening sucker rods. The TRC shot peening recipe was improved multiple times. No person or entity knows more about shot-peening a sucker rod than TRC. This year TRC will process over one million sucker rods to be remanufactured. We have been processing used rods for 27 years. Before the formation of TRC, our founders processed used rods for 22 years. Combined that is enough rods to stretch from Midland to Houston 486 times. Laboratory tests have been ongoing for the last 17 years. No person or entity knows more about shot-peening a sucker rod than TRC.

In 2022 TRC embarked on an engineering project that would investigate the years of field and laboratory test data, with the mission of quantifying the benefits of the TRC shot peening process. The goal was to take those benefits and define how to better implement them in the field. As a product, the research results were compounded into the MPACT™ Sucker Rod Fatigue Enhancing Process.

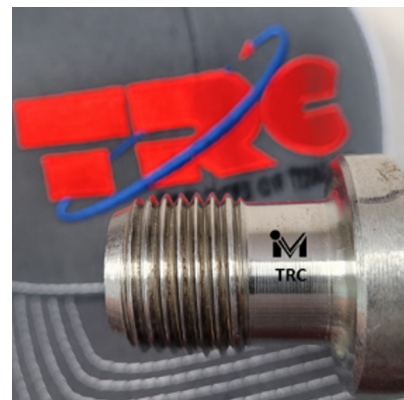
MPACT™ improves the fatigue life of all new and used rods which in turn, at the same expected fatigue life, allows an increase in the load capacity range, defined by a new MPACT™ Modified Goodman Diagram. This will broaden the capabilities and use of every rod while reducing the risk and cost of ownership.



Accompanied by the release of MPACT™, beginning February 1st, 2024, all steel sucker rods processed by TRC will be designated as MPACT™.

Those rods will be identified on the undercut area on one pin end according to the new patent pending TRC tracking and identification process. The identification is made by a non-damaging laser marking process that, proven by TRC testing, does not affect the fatigue behavior of the rod pin end.

For further information please contact your TRC sucker rod specialist.
trcsuckerrods.com



Benefits

KD Rods: Use KD sucker rods instead of high-strength rods or High Toughness in heavy applications.

Reduced Load: Lower overall pumping unit load, enabling potential downsizing.

Increased Fluid Rate: Produce more fluid from tight formations and restricted completions.

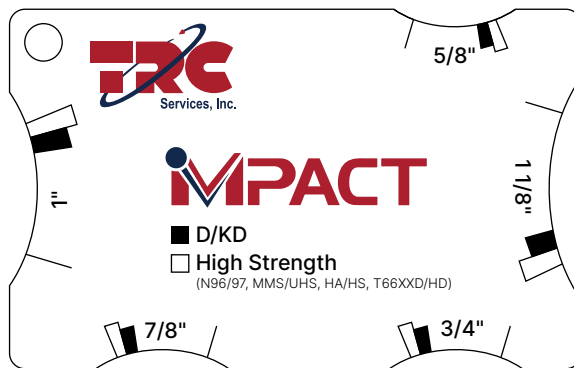
Lower Costs: Use C or K grade rods to reduce costs while enhancing corrosion resistance.

D Grade Substitution: Replace HS/HA rods with D grade for cost-effective performance.

Heavy Applications: MPACT improves rod performance for heavy-duty, corrosion-free use.

Fatigue Resistance: MPACT enhances rod fatigue resistance of forged ends in deviated wells.

Tracking & Evaluation: TRC MPACT process enables tracking and performance monitoring.



The use of the MPACT displacement card is recommended when installing MPACT sucker rod strings



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