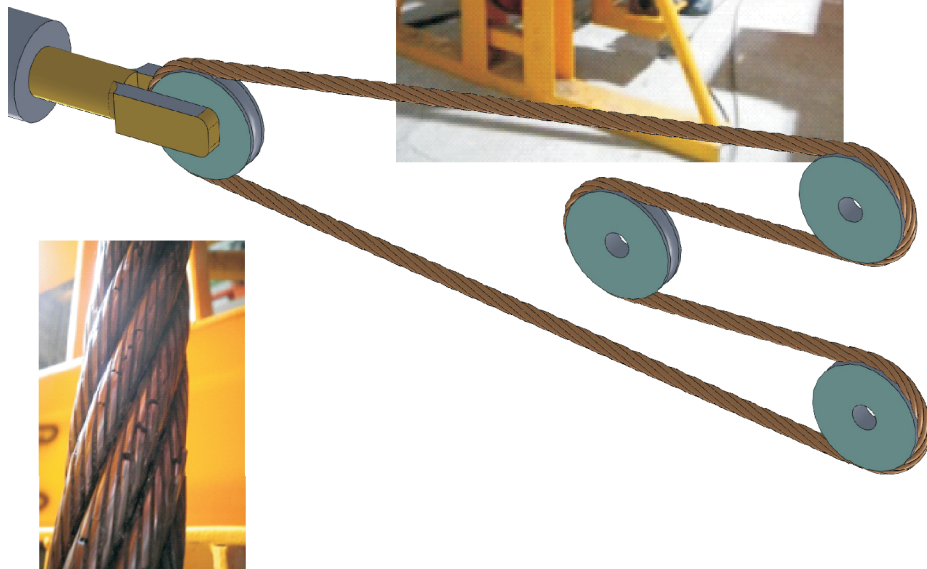
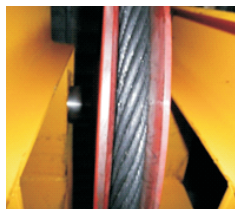


# Wire Ropes and Tension Members Testing Laboratory



**Matron Rope and Wire Rope Engineering LTD**  
**Tel: +972-8-8690518 Mobile: +972-522-706680**  
**matron@netvision.net.il www.mre-rope.com**

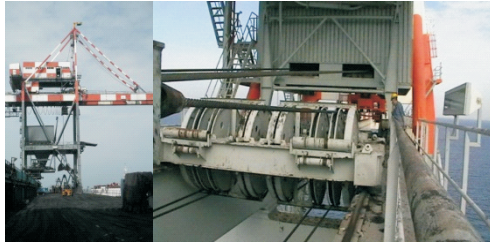


M.R.E. Matron Rope and Wire Rope Engineering – an independent laboratory for rope and wire rope technology.

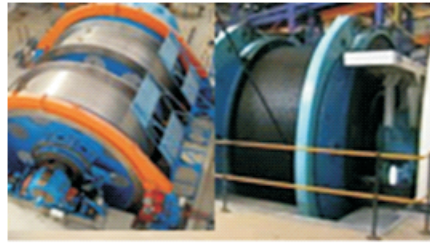
The technology developed by M.R.E provides end users and rope manufacturer to test ropes under actual loading conditions at which the loading cycle of the hoisting/elevation application is fully simulated.

M.R.E. test facilities include variety of test rigs for large rope diameters

We simulate:



**Heavy duty cranes**  
Bending & dynamic tension



**Deep mining**  
Tension & static/dynamic rotation



**Elevators**  
Traction & bending



**Oil drillings & Tensioner riser**  
Bending & dynamic tension



M.R.E. facilities are designed for large diameter ropes.

Our testing technology was approved to provide important data and information to the rope manufacturer and end user while contributing to rope selection improve rope performance and quality.



"Picking the right rope" 28 July 2011

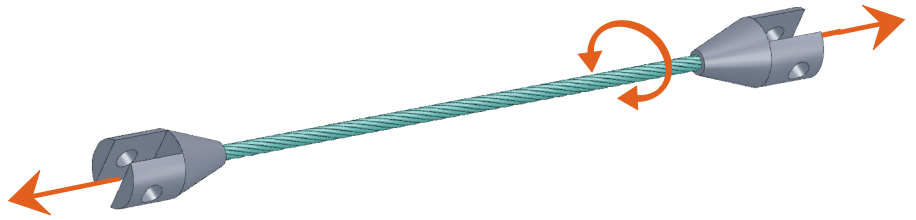
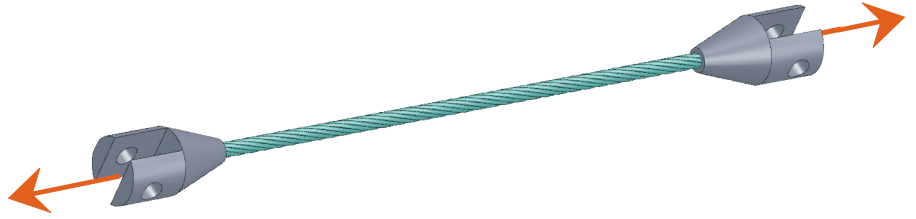
"The firm's fatigue testing machine gives crane owners the ability to improve rope life for ropes used on heavy-duty cranes such as those in shipyards, but also on ropes used in large asset applications such as aerospace and deep mining shafts, where the cost of rope failure is high."

**"The testing machines at MRE Matron's laboratory compare life lengths of different ropes more quickly than generic testing machines,..... "** "It does this by using testing machines to simulate the loading cycle of the application, and giving an approximation of rope life in only two and a half months, rather than the year typically required."

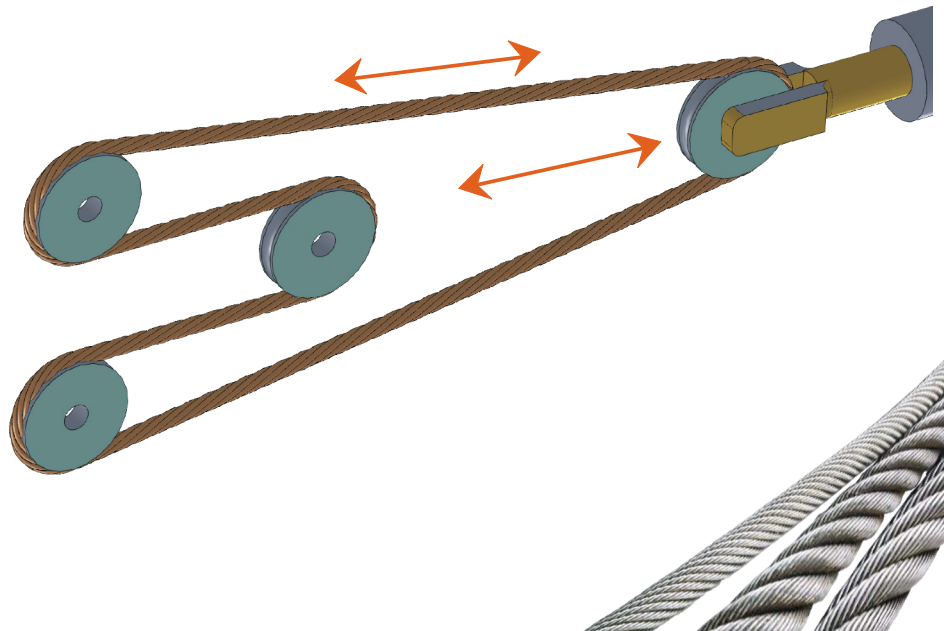
## Services

### Fatigue testing:

- Tension – tension
- Tension & dynamic/constant rotation: tension load combined with rotation range to simulate deep mining application



- Tension – abrasion: Simulation for drum spooling
- Reverse/simple bending under constant load
- Reverse/simple bending combined with fluctuating tension Simulation for heavy duty cranes



## Static testing and measurements:

- Breaking test to measure actual breaking load
- Measuring rope's stiffness and elongation
- Torque response for spin and non-spin ropes

## Our service includes:

- Definition of the test procedure to meet the client's need
- Preparation of test program in project developing
- Preparation of the rope sample and machine interfaces
- Setting in line measurements: rope diameter, elongation and torque factor
- In line monitoring of rope condition during the test
- Intermediate reports during the test
- Evaluation of the fatigue damage
- Analyzing test results
- Comprehensive report including recommendations

