



# Technical specifications of UOS tension testing machines

Technical specifications and capabilities

9-3-2022

United Offshore Services

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**united**  
**offshore services**

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## 1 Introduction

United Offshore Services conducts several test programs. The programs are designed for different products and purposes. Key factors are safety, innovation, quality examination and product development. The test programs are conducted by means of our three tension testing machines. Our machines can handle various lengths tension, respectively 65 meters (100MT), 165 meters (300MT) and 5,5 meters (12 MN).

This document provides more detailed information about each tensile testing machine and the capabilities. Each description is accompanied by pictures to give an impression of the machine and what it is used for. Each tension testing machine is calibrated once a year and all machines are certified. The 100MT and 300MT machines are certified by an expert from the independent internationally recognized testing and certification institute NMI®. The 12 MN (1223 Mt) machine is calibrated and certified under Lloyd's Register®.

If you have become curious or interested as a result of reading this document please feel free to contact us and find out what our machines can do for you. You can reach out to our highly competent sales people through the following means of communication:

Correspondence address: P.O. Box 15, NL-4760 AA Zevenbergen. The Netherlands.

Tel: +31(0)168 415140

Website: <http://www.uos-nl.com>

E-mail: [sales@uos-nl.com](mailto:sales@uos-nl.com)

## 2 100 MT tension testing machine

Technical specifications of the 100MT tension testing machine:

Minimum and maximum stretch length:	0-65 Meters
Maximal Tension strength:	100 Metric Tons
Operating space under the centreline:	50 centimetres
Maximum width:	11 meters
Ram stroke:	1.50 meters
Various pin diameters:	100mm/150mm/200mm/250mm/300mm/500mm
Jaw width	300mm
Usages:	Proof loading, pre-stretching

Other features:

- Constant tensioning

Impression of the machine and usage:



Figure 1: Measuring a cable-laid sling



Figure 2: Pre-stretching and measuring synthetic slings

### 3 300 MT tension testing machine

Technical specifications of the 300MT tension testing machine:

Minimum and maximum stretch length:	0-165 Meters
Maximal Tension strength:	300 Metric Tons (Minimum 300 kN)
Operating space under the centreline:	50 Centimetres
Maximum width:	56 Meters
Ram stroke:	1.95 meters
Various pin diameters:	300mm/500mm/750mm/1000mm
Jaw width:	500 mm
Usages:	Proof loading, pre-stretching

Other features:

- Constant tensioning

Impression of the machine and usage:



Figure 3: Cable-laid grommet length measurement under tension



Figure 4: Tension test of a 150 MT spreader beam

## 4 12 MN tension testing machine

Technical specifications of the 12 MN tension testing machine:

Minimum and maximum stretch length:	5.5 – 7.30 Meters
Maximal Tension strength:	12 MN (1223 Metric Tons)
Operating space under the centreline:	28 cm
Maximum width:	140 centimetres
Ram stroke:	1.80 meters
Various pin diameters:	Fixed pull head (140mm & 300mm)
Max. tensile speed:	50KN/s or 2mm/s
Jaw width:	160mm
Usages:	Proof loading, pre-stretching, swing testing, elasticity tests and destruction tests (only on steel wire rope, synthetic ropes and on chains)

Other features:

- Electronical measurement using a load cell
- Constant tensioning
- Computer operated
- Software by Zwick®

Impression of the machine and usage:

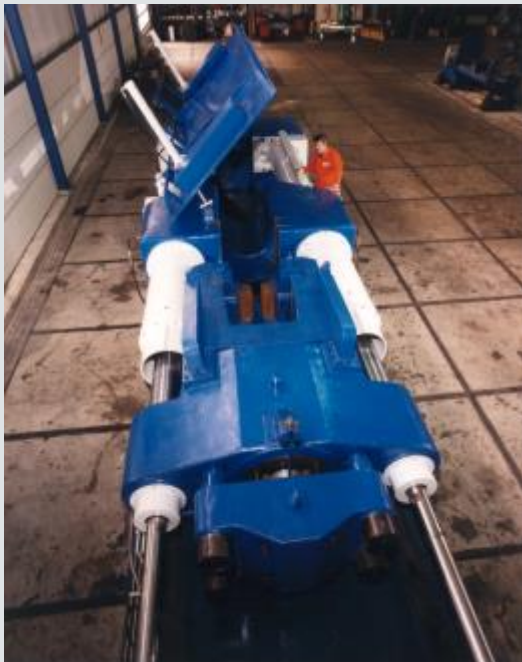


Figure 5: Overview of the 12 MN tension testing machine



Figure 6: Before photo destruction test



Figure 5: After photo destruction test

## 5 Disclaimer

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Our technical information is operated by United Offshore Services C.V. (hereinafter “UOS”). UOS is registered by the Chamber of Commerce in Breda, the Netherlands under company 20086568 and has its registered office at Appelweg 16, 4782 PX Moerdijk, the Netherlands.

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