

Testing Capabilities



Objective

The aim of this document is to summarize Cortland's testing capabilities at our USA sites.

Tensile Testing Capabilities–Horizontal

Two horizontal tensile testbeds are currently in service at the different Cortland locations in the USA.



Two test beds:

Specification	Anacortes, WA	Stafford, TX
Number of cylinders	1	2
Cylinder capacities	225Te	68Te / 600Te
Stroke length	4.2m	4.2m
Test length with max stroke	10m	25.6m

Rated capacities by pin size:

Anacortes pin Ø (mm)	Capacity (Te)	Stafford pin Ø (mm)	Capacity (Te)
152	227	356	600
100	136	254	600
89	181	177	600
76	136	102	600
51	45	89	68
44	34	76	90
—	—	51	600
—	—	38	55
—	—	25	165
—	—	16	55

Vertical Tensile & Tension Fatigue

Complimentary test configurations and high-load capability

Vertical Tensile	Anacortes, WA	Stafford, TX
Frame capacity	150kN	100kN
Load cell capacity	20/100kN	4/22kN
Stroke length	Grip/Sample gauge length dependent	Grip/Sample gauge length dependent

600Te cylinder
600Te
Maximum cylinder capacity

Combined pump output
200 hp
Two pumps

600Te max-load speed
1,100 mm/min
At maximum load capacity

68Te max. capacity speed
4,800 mm/min
At maximum capacity

Tension fatigue uses specialized cylinder seals to support fatigue testing without compromising long-term sealing ability.

Long-length & Cyclical Bend Testing

Stafford, TX

Capability	Maximum Load	Test Length	Stroke/Speed	Key Detail
Floor ram	13.5Te	61m	6m stroke	Long-length testing
CBOS	6.8Te sheave load		18 cycles/min	Equivalent rope tension: 3.4Te

- Floor ram: provides up to 61m of maximum testing length for long-length applications
- CBOS: single-sheave, chain-driven test bed for cyclical bend over sheave testing
- CBOS maximum applied sheave load: 6.8Te; equivalent maximum rope tension: 3.4Te
- CBOS maximum cycling speed: 18 cycles per minute

Cortland International operates the world's largest synthetic rope manufacturing organization with capacity to produce over 70,000 metric tons of rope and netting solutions per year. Collaborating with customers, our team uses its experience in high-performance materials and market knowledge to transform ideas into proven products.

For more than 40 years, our custom-built solutions have been engineered to perform in the toughest environments and tackle some of the world's most demanding challenges. Trusted across aquaculture, marine and shipping, offshore energy, aerospace, defense and industrial sectors, they consistently empower our customers to meet and exceed mission-critical demands.

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