



# Creep Test Frame

Powertech's Creep Test Frame was specifically designed to conform to IEC 61395 procedures for overhead stranded conductors. Unlike other creep test frames in North America, Powertech can also accommodate higher-than-standard tensions, temperatures, durations, and sample lengths. High-precision extensometers measure the change in length to 3µm – better than the test requirement – to predict the creep characteristics over a conductor's lifetime.

## MANUFACTURER INFO:

- **Make:** Custom made by Powertech

## DATA ACQUISITION & CONTROL:

- Closed-loop temperature monitoring system keeps temperature fluctuations below 2°C (3.6°F)
- Hydraulic load control allows smooth conductor loading within the 5-minute interval specified
- Uninterrupted control and data collection over specified test duration

## LOAD & DISPLACEMENT:

- **Force Range:** up to 890 kN (200 kips) tension
- **Maximum Stroke:** 1.27 m (4 ft 2 in)
- **Sample Strain:** Up to 32 mm (1.27 in) change in length

## SAMPLE CONSTRAINTS:

- **Length:** 17.9 m (58 ft 8 in), maximum sample length changes with mounting setup

Length can be adjusted to fit samples of any length up to the 17.9 m maximum.

## TYPICAL TESTS:

- IEC 61395 creep test for stranded conductors
- Custom creep tests – Powertech can accommodate changes to all aspects of the creep test, including different conductor temperatures, loads, durations, and more

## TESTING CODES AND STANDARDS:

IEC 61395, ISO 17025

*Equipment performance is not guaranteed as reported. Contact your Powertech representative for project-specific information.*

## ABOUT POWERTECH LABS:

*Powertech Labs Inc. is one of the largest testing and research laboratories in North America, situated in beautiful British Columbia, Canada. Our 11-acre facility offers 15 different testing labs for a one-stop-shop approach to managing electrical utilities, and testing gas components, pressure vessels and systems.*

*Outside of the utilities industry, Powertech provides routine testing capabilities, product development, research and consulting services to support an array of industrial-type operations, electrical equipment manufacturers and automotive original equipment manufacturers.*

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