

# MTS EM Extend™

## Electromechanical Load Extension Kit



### Features

- ▶ Water-cooling ports
- ▶ Lightweight design minimizes tare weight
- ▶ Tight tolerances ensure angular and concentric alignment is retained
- ▶ Rated for tension and compression
- ▶ Stainless steel construction minimizes heat transfer
- ▶ Preloaded joints

### Benefits

- ▶ Highly configurable to test various size specimens
- ▶ Reduces test setup time

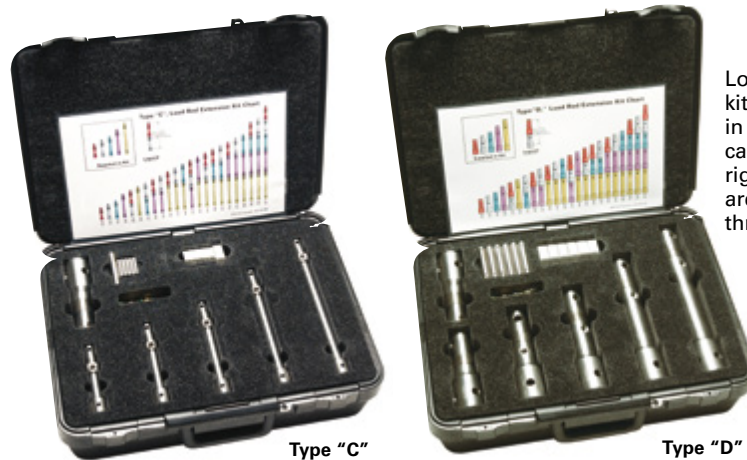
MTS load frame extension rod kits enhance your testing capabilities within environmental chambers. The rods are designed to apply tension and compression in an environmental chamber from temperatures of -130 C (-200 F) to 315 C (600 F). The Type C and Type D kits consist of five different extension lengths. These five different lengths can be configured into 23 different combination lengths. This configurability

allows users to test low and high profile accessories or short and tall specimens. Compression platens are usually low profile and will need more extension lengths. Pneumatic grips take up more space and will require fewer lengths.

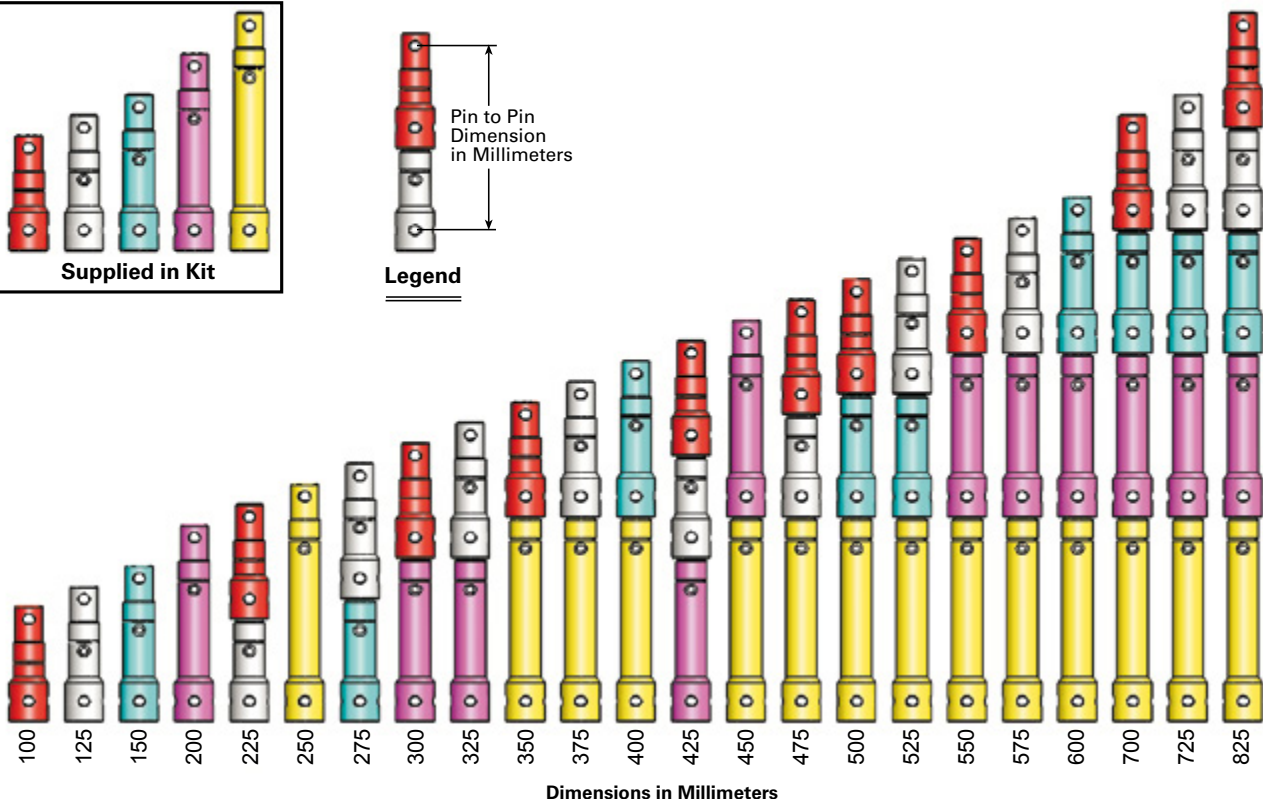
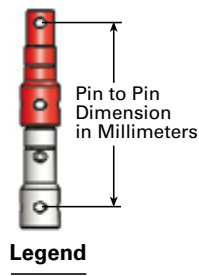
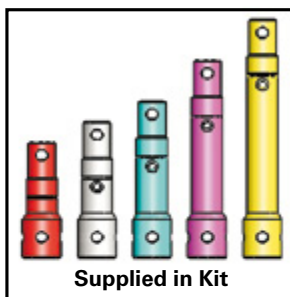
A load frame extension kit maximizes the internal test space of the environmental chamber for grips and fixtures. The upper extension rod can be adjusted in 25 mm increments. By

combining the five different lengths, 23 combination heights are ultimately available providing pin to pin dimensions ranging from 100 mm (3.9 in) to 825 mm (32.4 in).

The Type D extension kit is compatible with MTS and Instron clevis pin couplings. It is designed for tension or compression loads from 2 to 150 kN. All extension lengths are stainless steel and have ports for water cooling.



Load extension kits are packaged in a protective case. From left to right the lengths are decoded as L1 through L5.



Dimensions in Millimeters



Load extension kit and pneumatic grips in an environmental chamber

### Load Rod Specifications

Model	Type C	Type D
<b>Part Number</b>	100-151-425	100-150-815
<b>Force Rating</b>	50 kN (11,200 lbs)	150 kN (33,000 lbs)
<b>Temperature Rating</b>	-130 to 315 C (-200 to 600 F)	-130 to 315 C (-200 to 600 F)
<b>Length 1 (L1)</b>	250 mm (9.8 in)	250 mm (9.8 in)
<b>Length 2 (L2)</b>	200 mm (7.8 in)	200 mm (7.8 in)
<b>Length 3 (L3)</b>	150 mm (5.9 in)	150 mm (5.9 in)
<b>Length 4 (L4)</b>	125 mm (4.9 in)	125 mm (4.9 in)
<b>Length 5 (L5)</b>	100 mm (3.9 in)	100 mm (3.9 in)
<b>Weight 1</b>	0.38 kg (0.85 lbs)	1.93 kg (4.27 lbs)
<b>Weight 2</b>	0.29 kg (0.65 lbs)	1.57 kg (3.47 lbs)
<b>Weight 3</b>	0.23 kg (0.50 lbs)	1.25 kg (2.77 lbs)
<b>Weight 4</b>	0.20 kg (0.45 lbs)	1.1 kg (2.47 lbs)
<b>Weight 5</b>	0.18 kg (0.40 lbs)	0.93 kg (2.06 lbs)

Pin to pin dimensions



Type "C"

From left to right the lengths are denoted as L1 through L5.



Type "D"

**MTS Systems Corporation**  
 14000 Technology Drive  
 Eden Prairie, Minnesota 55344-2290 USA  
 Telephone: 1-952-937-4000  
 Toll Free: 1-800-328-2255  
 Fax: 1-952-937-4515  
 E-mail: info@mts.com  
 www.mts.com

ISO 9001 CERTIFIED QMS

Specifications subject to change without notice.  
 MTS is a registered trademark of MTS Systems Corporation. RTM No. 211177.

©2016 MTS Systems Corporation  
 100-156-437a ExtensionLoadKit Printed in U.S.A. 11/16