

+600 °C and +1000 °C Tension Only Pullrods

Catalog Numbers 3117-020, 3117-021

Features

- Suitable for both monotonic tensile and tension-tension fatigue testing at elevated temperatures.
- Interchange adapters allows various specimen sizes to be accommodated (threaded ends only).
- Compatible with Instron® SFL high temperature split furnaces.

Description

Instron tension only pullrods are designed to meet the specific requirements of monotonic tensile or tension-tension fatigue tests at elevated temperatures.

The pullrods are manufactured from either a nickel based superalloy or high temperature steel, both selected for their excellent high temperature and creep resistance characteristics.

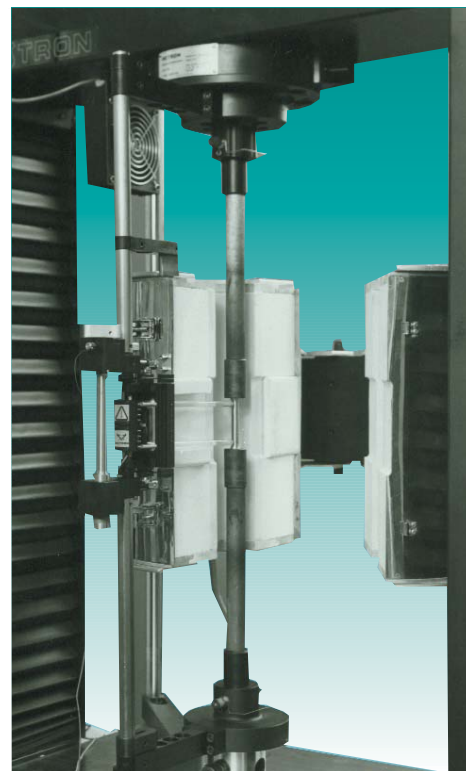
Principle of Operation

Various specimen adapters are available to accommodate a range of specimen sizes. The specimens adapters screw onto the male thread on the end of both pulls. The pullrods are then attached to the load frame using a standard attachment kit.

The pullrods lengths are optimised to locate the directly in the hotzone of an Instron SFL three zone split furnace.

Application Range

- High temperature tensile testing
- High temperature tension-tension fatigue testing



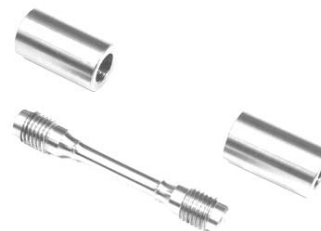
▲ Tension only pullrods with split furnace

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Specifications

Catalog Number	3117-020	3117-021
Max. Operating Temperature	+600 °C (+1112 °F)	+1000 °C (+1832 °F)
Min. Operating Temperature	Ambient	Ambient
Weight (Each)	3 kg	3 kg
Mounting	16 mm (0.63 in) clevis pin	16 mm (0.63 in) clevis pin

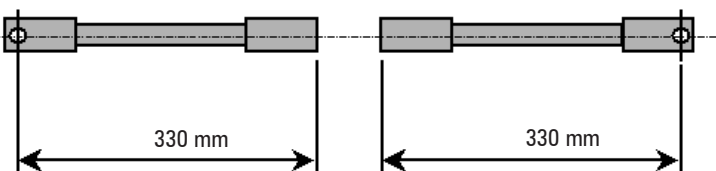


▲ Specimen adapters and specimen

Accessories

Catalog Number	Description
2632-054/ 5/ 6/ 7	High temperature axial strain gauged extensometers
3117-025	Tension only specimen adaptor M8
3117-026	Tension only specimen adaptor M10
3117-027	Tension only specimen adaptor M12
3117-028	Tension only specimen adaptor M16
3117-150	High temperature three zone split furnace
8000-026	Adaptor (16 mm (0.63 in) clevis to M 30 x 2 RH female)
3119-260/ 1/ 2/ 3	Cooling fan

Catalog Number	3117-025	3117-026	3117-027	3117-028
Specimen Thread Size	M8	M10	M12	M16
Max. Capacity at +300 °C (11.81 in)	10 kN	15 kN	22.5 kN	40 kN
Max. Capacity at +800 °C (31.50 in)	10 kN	15 kN	22.5 kN	40 kN
Max. Capacity at +850 °C (33.46 in)	7 kN	10 kN	15 kN	30 kN
Max. Capacity at +900 °C (35.43 in)	5 kN	7.5 kN	10 kN	20 kN
Max. Capacity at +950 °C (37.40 in)	3 kN	5 kN	7.5 kN	12.5 kN
Max. Capacity at +1000 °C (39.37 in)	2 kN	3 kN	5 kN	10 kN



▲ Pullrod dimensions



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