



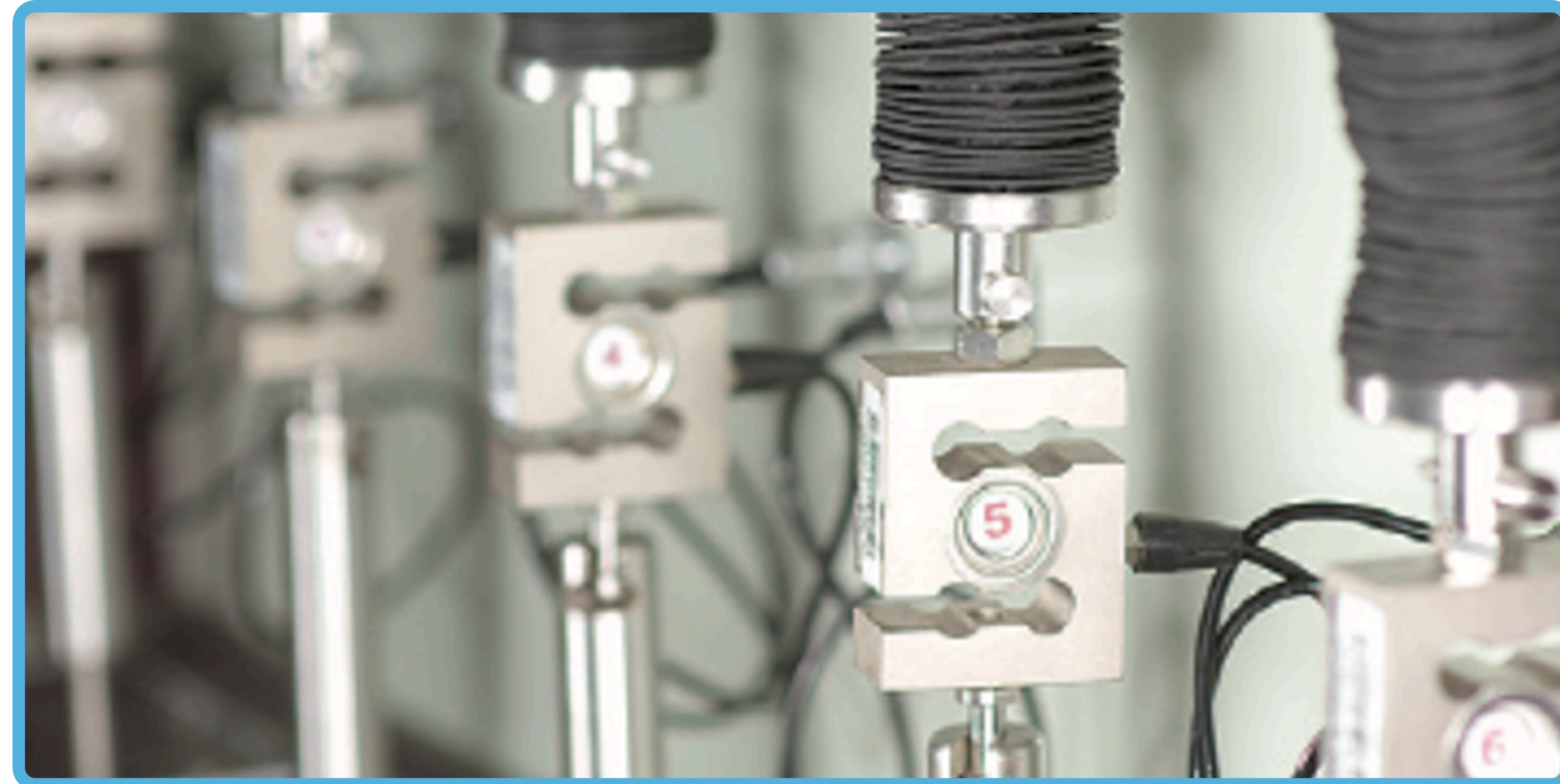
FULL NOTCH CREEP TESTER

QualiFNCT

Full Notch Creep Tester

QualiFNCT

The QualiFNCT is designed to evaluate the stress crack resistance of polyethylene materials under controlled conditions. It uses a square test specimen with notches on each face, centered to create a uniform stress distribution. The sample is subjected to a constant tensile load in a temperature-controlled environment—such as air, water, or a surfactant solution. The geometry of the specimen promotes plane strain conditions, making it prone to brittle failure under specific stress and temperature settings. The time to failure is precisely measured, providing valuable data on long-term material performance.



FEATURES/ADVANTAGES

High Testing Capacity

Supports 3 to 6 independent stations, allowing simultaneous multi-sample testing to improve efficiency and throughput.

Stable Temperature Control

Maintains consistent test conditions with a tight $\pm 1^{\circ}\text{C}$ temperature accuracy and range up to 95°C , with or without a cooling system.

Long-Duration Testing

Capable of running tests for up to 10,000 hours, making it suitable for long-term creep and environmental stress crack resistance (ESCR) evaluations.

Flexible Sample Compatibility

Supports multiple standard sample sizes, enhancing versatility for different testing standards and material forms.

Wide Force Range with Precision Control

Delivers 20–5000 N of force with $\pm 1\%$ accuracy and 0.1 N resolution—ideal for testing a broad range of polyethylene materials under precise conditions.

Accurate Displacement Monitoring

High displacement resolution (0.027 mm) ensures precise measurement of specimen deformation during testing.

TECHNICAL SPECIFICATIONS

SPECIFICATIONS	DETAILS
Number of Stations	3 to 6
Force Application	Brushless servomotors, one for each station
Force Range	20 – 5000 N, selectable independently
Force Resolution	0.1 N
Force Accuracy	±1%
Tensile Travel	Max. 200mm
Displacement Accuracy	±1 mm
Displacement Resolution	0.027 mm
Time Range	Up to 10.000 hours

SPECIFICATIONS	DETAILS
Time Resolution	1 second
Voltage	380 V, 50 Hz, 15 kW
Time Accuracy	±1 minute
Temperature Control Range	RT ~ 95°C (with cooling) 50°C ~ 95°C (without cooling)
Temperature Resolution	0.1°C
Temperature Error	±1°C
Thermal Bath Material	Stainless steel
Sample Dimensions	100 × 10 × 10 mm, 100 × 10 × 4 mm, 90 × 8 × 6 mm
Overall Dimensions (L × W × H)	1620 × 730 × 1750 mm



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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