



High-load and high-temperature brochure

Special testing machines are needed, for special testing needs: it's a fact that some of the most *complex sectors* have very particular requirements.

Just think about the *automotive*, *aerospace* and *construction* sectors, all dealing with parts and components working under severe stress and climatic conditions.

Easydur challenges overlap with the daily challenges faced by the most disparate companies in the world.

High-temperature tensile tests

Aura 100 - 600 kN with furnace and video extensometer

For high-load static tensile tests with pneumatic or hydraulic *automatic grippers*, we have no doubt: Aura tensile is the best testing solution.

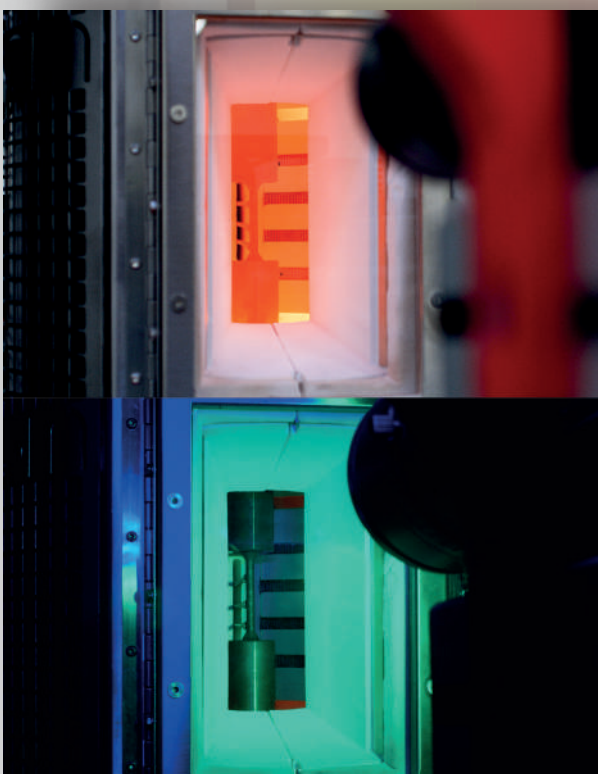
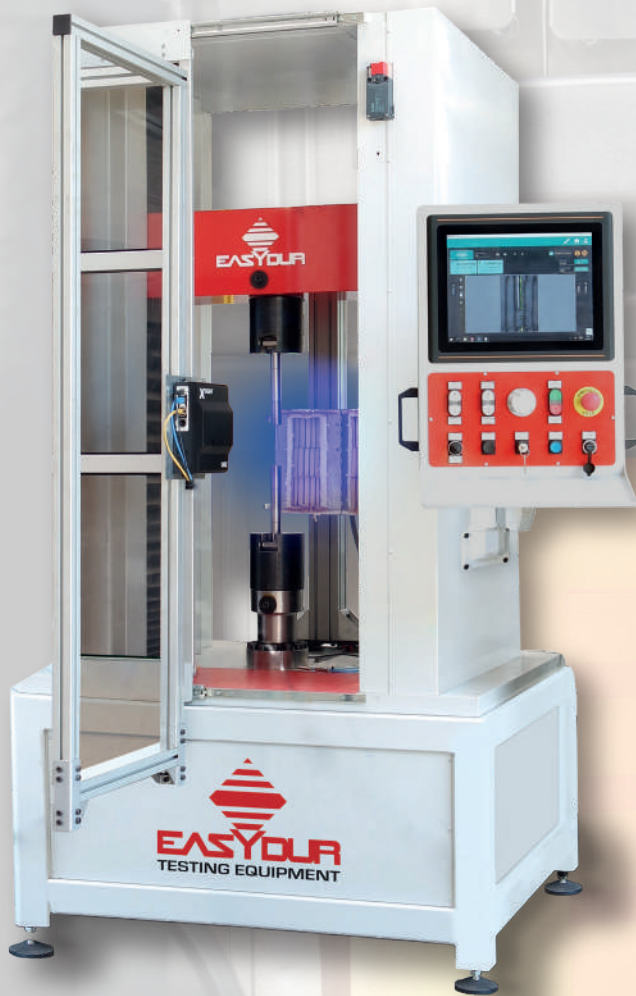
Aura Tensile is a versatile Tensile Testing Machine designed and manufactured by Easydur according to the precise **individual testing** needs of each customer.

It can mount up to *3 load cells*, always equipped with their own sets of grips, for tensile tests to breaking point, and employs *OPC-UA protocol* for data exchange and real industry 4.0 philosophy.

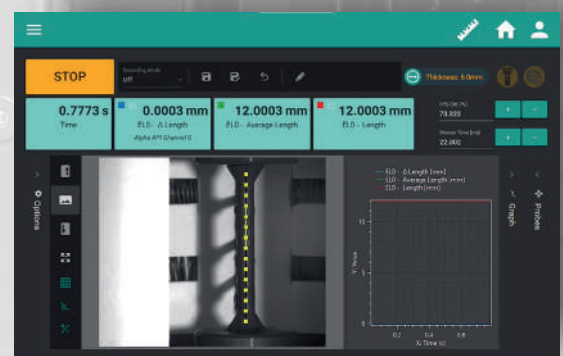
Then, when equipped with its dedicated **video extensometer**, Aura UTM shows a new concept of high-temperature material tensile testing.

In fact, this unique video extensometer is perfectly suitable for both *high-temperature* and *room-temperature testing*.

Moreover, this system ensures high accuracy and repeatability, without any need of marking the specimen.



Specific lighting system and lens filter



The video extensometer software



Steel and aluminum specimens

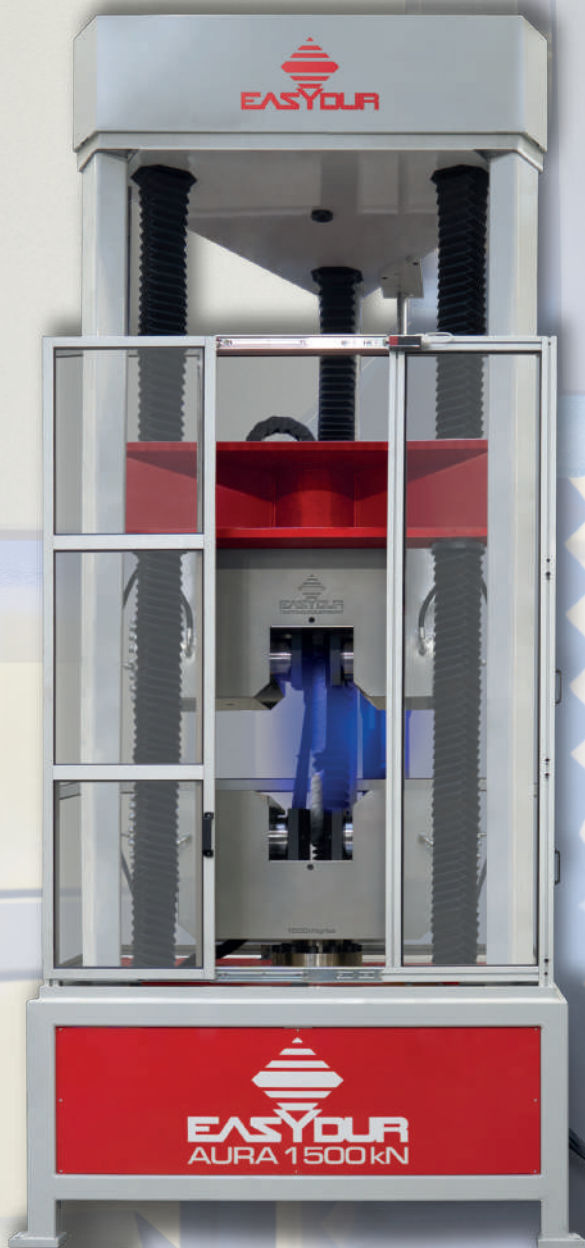
High-load tensile tests

Aura 1500 - 3000 kN with **video extensometer**

What does it mean “high-load testing”? For us, it means developing machines able to handle loads up to 3000 kN, or 300 Tons.

But power is nothing without control: that’s why our very high-load tensile testing machines mount super sturdy hydraulic grips, and can be equipped with a video extensometer.

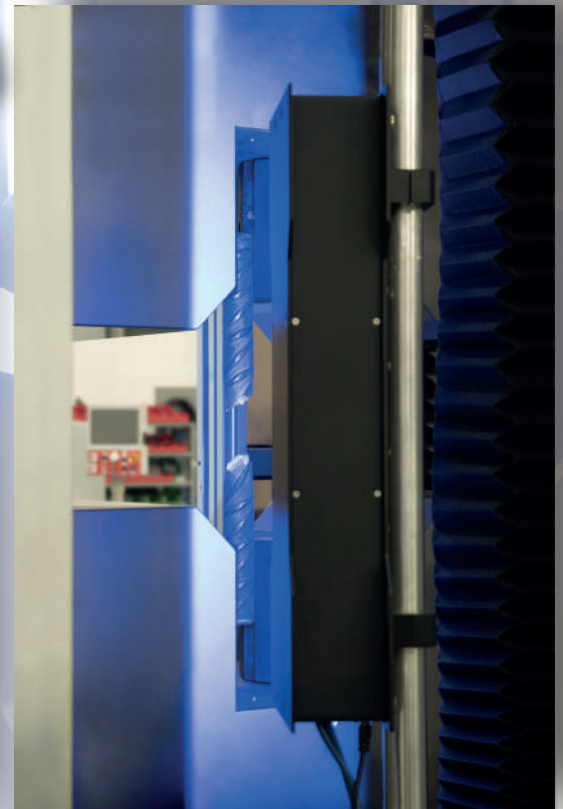
The model presented here, relies on a vision system specific for rods, tubes and long components: the perfect ally for rebar and concrete reinforcing steel testing.



Hydraulic double-actuator grips



Result of tensile tests on rebars



Video extensometer for bars/tubes