

AIS2100

Portable tensile properties measurement

What is AIS 2100?

AIS2100 is a portable indentation system for nondestructive evaluation of tensile properties.

It obtains precise load and depth data continuously. Tensile properties including yield strength, tensile strength, work-hardening exponent and flow curve can be derived accurately from the load-depth curve.

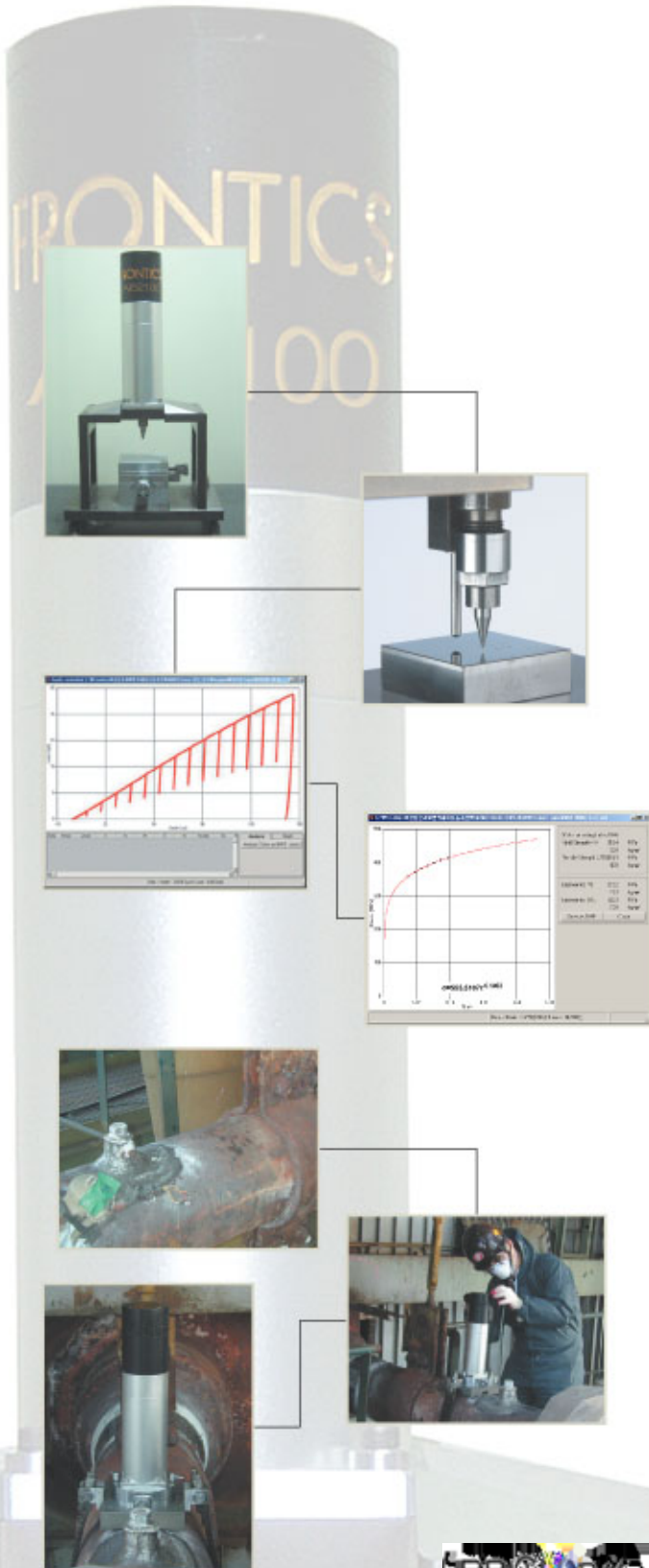
Small indentations using spherical indenter of 0.5 or 1 mm diameter can perform local properties tests of materials with microstructural gradients such as weldments or degraded regions of facilities.

Lightweight main body and powerful attachments can help you make easy and fast in-field tests.

Certification



Patent No. 6,718,820 B2 in U.S.
 Patent No. 0364112 in Korea
 Patent No. 0367207 in Korea
 Patent No. 0384732 in Korea
 Patent No. 0406154 in Korea
 Patent in Japan Under registration



AIS2100

User-friendly & Portable Hardware

Hardware



**LCD Panel for
control and monitoring**



**Simple Cable &
Power Controller**

Power : 110 ~ 220V (Free Voltage)
Communication : RS422



Actuator

Load Rate : 0.05 ~ 30mm/min
Full Stroke : 40mm



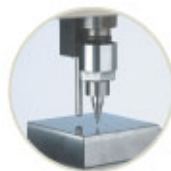
Loadcell

Maximum Load : 300kgf
Load resolution : 0.0056kgf



Indenter

WC Spherical Indenter (0.5mm)
Vickers, Rockwell C Indenter



Length Standard

Linear Scale
Depth resolution : 0.1um

