

# HSD TESTER

## NONDESTRUCTIVE

## PORTABLE

## METAL STRENGTH VERIFICATION

The Hardness, Strength, Ductility (HSD) Tester is a portable, nondestructive mechanical testing instrument for metals that measures precisely the yield strength and identifies the welded seam type.

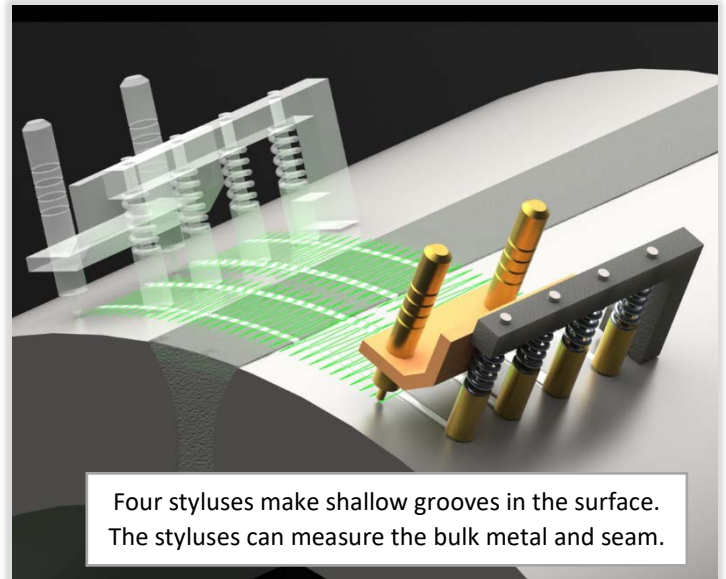
HSD Testers will support the need to extend the life of old pipelines, verify new asset properties, and meet imminent federal mandates for verification of pipeline properties.



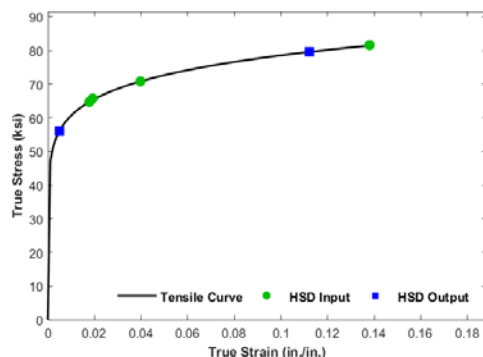
## ON-SITE NDT USING THE HSD TESTER



Field technician prepares the surface and mounts HSD Tester to pipe.



Four styluses make shallow grooves in the surface. The styluses can measure the bulk metal and seam.



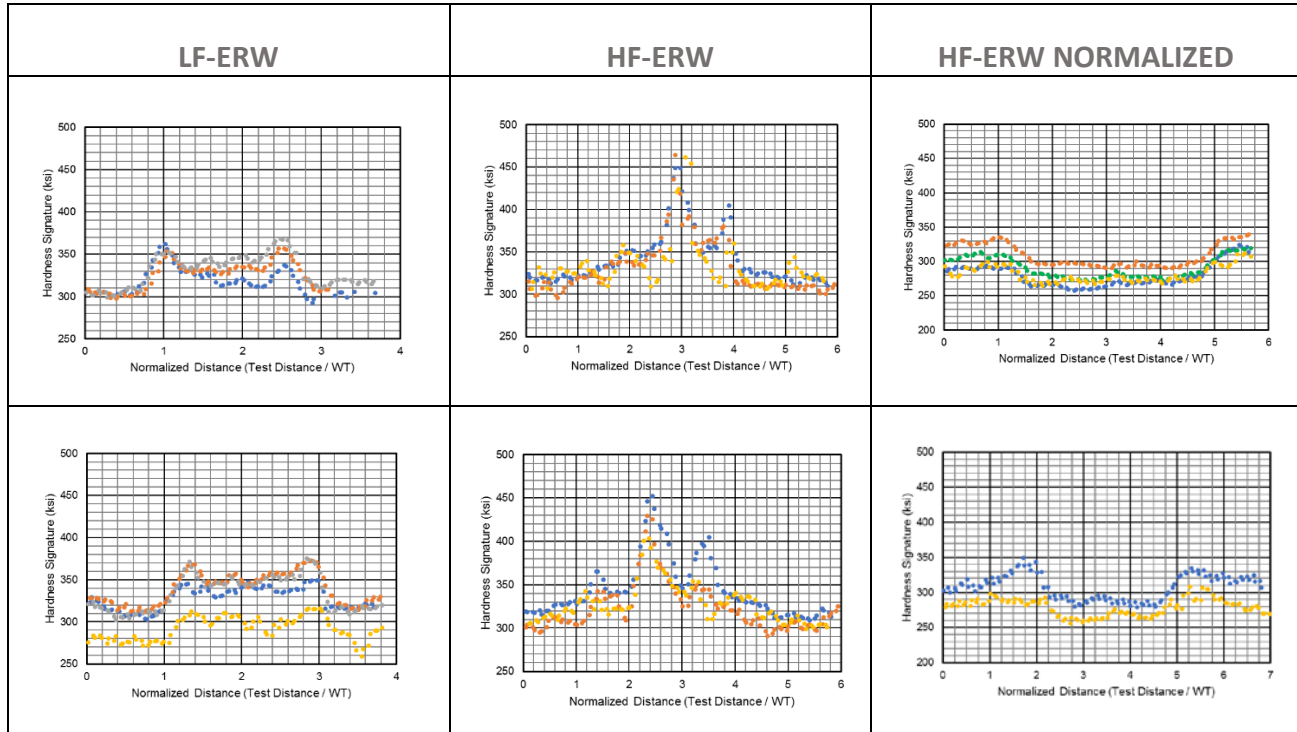
## KEY FEATURES

- Preliminary yield strength and UTS immediately available.
- Accuracy of  $\pm 10\%$  on yield strength.
- Test range of 35-100 ksi yield strength.
- Compatible on 6 – 48" diameter pipe.

## ON-SITE YIELD STRENGTH IN THREE HOURS OR LESS

## WELDED SEAM IDENTIFICATION

The HSD Tester scans over a welded seam and identifies the welding method, such as Low-Frequency (LF-ERW), High-Frequency (HF-ERW), Electric Flash, or DSAW. Each type of weld has a characteristic hardness signature as shown below.



## COMPLEMENTARY TO IN-LINE INSPECTIONS



ILI tools identify pipeline sections belonging to same manufacturing batch.



MMT's HSD Tester is used in-ditch at each batch location to verify material strength.

## CONTACT

To inquire about MMT field services or instrument leasing, please contact

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