

ULTRASONIC IMPACT TREATMENT (UIT- HFMI) OIL AND GAS

> SONATS is specialized in the increase of the fatigue life and the Stress Corrosion Cracking (SCC) resistance on welded structures for the oil and gas thanks to our patented Stressonic[®] process.



Recommandations :





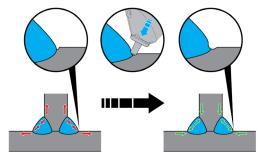
HFMI on oil and gas frame





Effect of the UIT on the weld – Modification of the weld toe geometry (beneficial for the fatigue life)

SONATS is in position to provide a wide range of portable HFMI device **capability worldwide** that can be applied in the field to introduce **beneficial compressive stresses** to the weld toes and affected zone. Thus the risk of stress corrosion cracking is **minimized and the fatigue life is increased.**



The following Universities or Researches Centers have published on the HFMI:

University of Purdue, University of Chalmers, University of West, University of Waterloo, Fraunhofer, CETIM, Institut de Soudure

More examples of applications: Life Extension of Welded Structures Using HFMI Techniques – Potential application to offshore structures, Fikri Bashar Yalchiner, Zuheir Barsoum.