



SONATS

Empowering Technologies

NOMAD

ULTRASONIC IMPACT TREATMENT EQUIPMENT



NOMAD uses our STRESSONIC® UIT technology to introduce compressive residual stresses and decrease stress concentration on metal parts or structures.

Objectives of the process:

- Fatigue life improvement
- Admissible load increase
- Weld size reduction
- SCC resistance

STRESSONIC® UIT technology has been proven by many studies and is included in the IIW's^(*) recommendations : «IIW Recommendations on High Frequency Mechanical Impact Treatment for Improving the Fatigue Strength of Welded Joints.»

NOMAD - ULTRASONIC IMPACT TREATMENT SYSTEM WITH HANDHELD TOOL

NOMAD is a portable UIT system designed to be easily used on a variety of r (from aluminum to high strength steel) in any environment. Its weather-resisting and air-cooled design requires little maintenance.

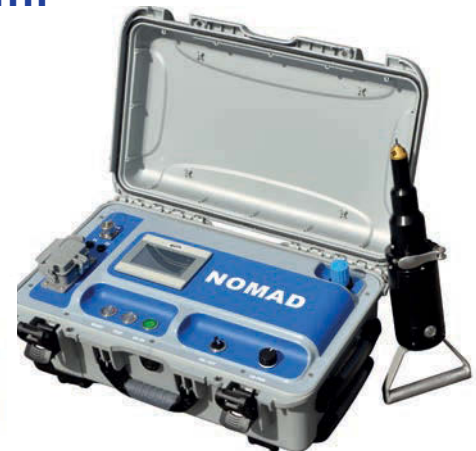
It has a screen to monitor the process key parameters with easy to set contr This ensures treatment repeatability.

It is composed of :

- NOMAD central unit
- Handheld peening head with end-piece
- Additional accessories per application



End-pieces



Central unit
36lbs - 24" x 14" x 9"
16kg - 60 x 36 x 23cm

Peening head
6lbs - 3kg

APPLICATIONS



Infrastructure



Naval



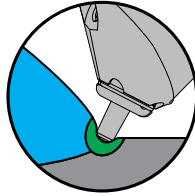
Heavy equipment



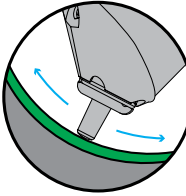
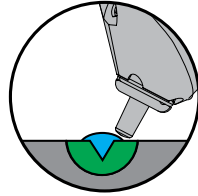
Transportation

A WIDE RANGE OF ACCESSORIES MADE FOR DIFFERENT APPLICATIONS

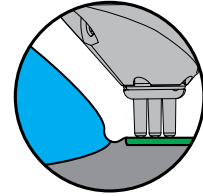
Applications



Weld toe peening

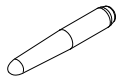


Radius peening

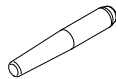


Heat affected zone peening

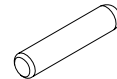
Needles



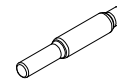
S3-24 | R1,5mm



S3-23 | R3mm

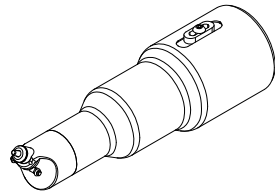


S3-XX | R6mm



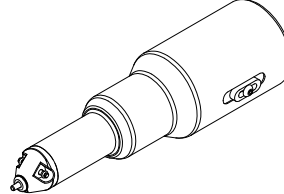
S3-15 | R3mm

End Pieces



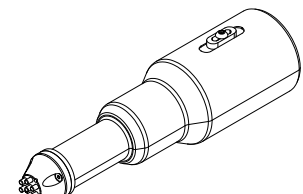
INCLINED EM21

Areas of difficult accessibility and corners



STRAIGHT EM11

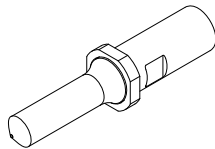
Most standard treatment



MULTI IMPACTOR EM41

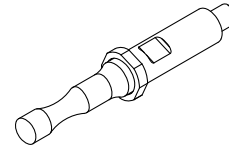
Peening of flat zones (HAZ, grinded welds)

Sonotrodes



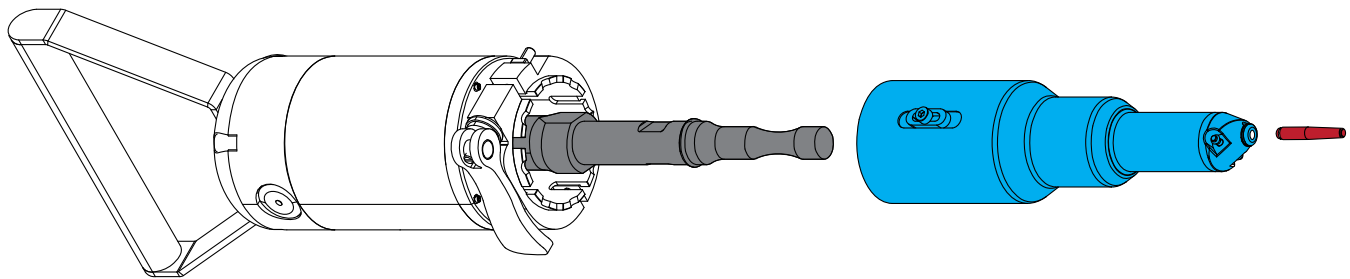
INCLINED

Compatible with inclined end piece (EM21)



STRAIGHT

Compatible with straight end piece (EM11) and multi-impactor (EM41)



Removable handle

Peening head with 5m conduit (optional extensions)

Sonotrode

End-piece

Needle