



SONATS

Europe Technologies group

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 materials (from aluminum to high strength steel) in any environment. Its weather-resistant casing and air-cooled design requires little maintenance.

It has a screen to monitor the process key parameters with easy to set controls. 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



Fast Treatment



Decrease of
maintenance
shutdowns



Reduction of
vibrations and
MSD for operators

ADVANTAGES



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NOMAD - ULTRASONIC IMPACT TREATMENT EQUIPMENT

A FLEXIBLE OFFER

SERVICES

PURCHASE

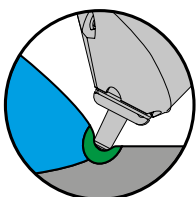
SHORT & LONG
TERMS RENTAL

Equipment quickly available

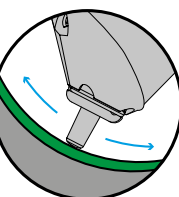
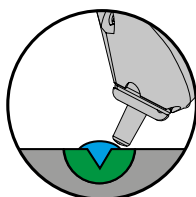
On-site training with our technicians

A WIDE RANGE OF ACCESSORIES MADE FOR DIFFERENT APPLICATIONS

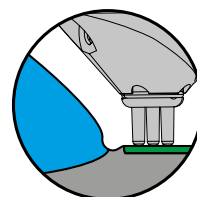
Applications



Weld toe peening



Radius peening

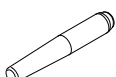


Heat affected zone
peening

Needles



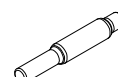
S3-24 | R1,5mm



S3-23 | R3mm

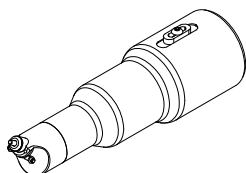


S3-XX | R6mm



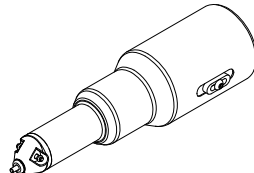
S3-15 | R3mm

End-Pieces



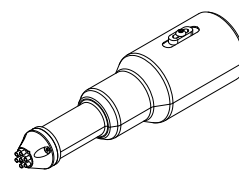
INCLINED EM21

Areas of difficult accessibility
and corners



STRAIGHT EM11

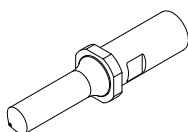
Most standard treatment



MULTI IMPACTOR EM41

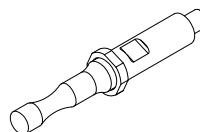
Peening of flat zones (HAZ,
grinded welds)

Sonotrodes



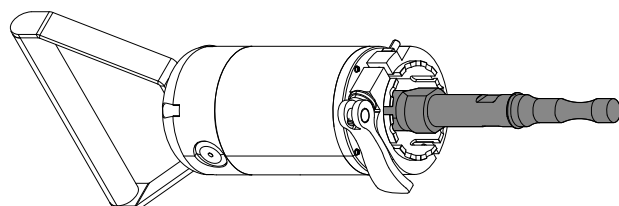
INCLINED

Compatible with inclined end piece
(EM21)



STRAIGHT

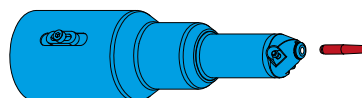
Compatible with straight end piece (EM11) and multi-impactor
(EM41)



Removable
handle

Peening head
with 5m conduit
(optional extensions)

Sonotrode



End-piece

Needle