55 anni

di esperienza nel campo delle prove non distruttive.

Monitoraggio e Diagnostica

- **Ultrasuoni**
  - Tecniche Standard
  - Tecniche Speciali Saldature Austenitiche
  - Tecniche speciali Calcestruzzo
  - Tecniche Computerizzate
  - C-B SCAN
  - TOFD
  - PHASED ARRAY
  - GUIDED WAVES

- **Emissione Acustica**
  - Ricerca
  - Corpi a pressione
  - Monitoraggio e diagnostica strutture civili e meccaniche

- **Radiografia - Gammagrafia**

- **Correnti Indotte**
  - Tubi
  - Scambiatori
  - Turbine-Compressori

- **Liquidi penetranti**

- **Magnetoscopia**
  - Portable
  - Bancale fisso

- **Estensimetria**

- **Tensioni residue / metodo Barkhausen**

- **Centro Addestramento e qualificazione**

- **Centro Esami - settori meccanico-civile-aerospaziale**

G. Nardoni

Pietro and Diego Nardoni
The main activity of I&T NARDONI INSTITUTE is NON DESTRUCTIVE TESTING.

The NDT methods applied are the following: X-Ray, Digital X-Ray, Ultrasonic test, Ultrasonic Computerize systems (ToFD, Phased Array, B-C Scan), Guided waves, Eddy current include RFT, Magnetic particle, Penetrant test, Acoustic emission, Stress measurements strange gages, Barkhausen method, Visual test, AC field.

The intangible value of the Company is based on 40 years experience of NDT examinations in the following fields: Chemical, Petrochemical, Nuclear, Fossil, Hydro power plant, Civil structures, Aircraft, Automotive, Steel plant, Machinery etc.

The Products and materials examined have been the following: Castings, Forgings, Welds in carbon steel and austenitic steel, Composite materials, Aluminium laminates and castings, Titanium etc., with advanced computerized ultrasonic systems.

In the ultrasonic area I&T has developed advanced computerized techniques for the full automated acquisition of examination data according ASME Code Case 2235.

TOFD, C-B-Scan, Phase Array have been extensively used since 1997 on pressure vessel, heat exchanger, sphere, nozzle, tank, forgings, plates, piping in Italy and in rest of the world (Canada, Saudi Arabia, Malaysia, Mexico, India, Singapore, etc.)

Special techniques for austenitic welds and 9%Ni examinations have been developed; assistance, training have been performed also abroad (South Korea, Nigeria, Canada, Australia, UK, Singapore, etc.).

X-Ray; I&T has experience in low, medium, high energy radiation (betatron, linear accelerators), Isotope as Ir.192, Co 60 and in 2009 we have Digital X-Ray for welds and thickness base material inspection.

I&T is accredited for the Qualification and Certification of NDT Personnel according EN 473, ISO 9712, SNT-TC-1A.

All Personnel performing examination is qualified and certified according EN 473, SNT – TC – 1A, ISO 9712 at II and III level.

Special training courses have been made in Italy, US, Germany, UK, Russia, Malaysia for TOFD Immersion technique, Computerized technique.

I&T regularly participated to National and International conferences presenting technical papers.

Equipments and services on NDT transfer technologies in its own stands.

More than sixty publications have been already spread out in the conference all over the world. I&T is certified according ISO 9001.
TOFD INSPECTION

CALIBRATION ON TEST BLOCK FOR PIPING

PIPING INTERNAL INSPECTION

TOFD WELD INSPECTION IN CrMoV

Slag inclusion length 80 mm, depth 45 mm height 4 mm, thk 135 mm
HANDBOOK OF TOFD MAPS
more than 100 TOFD maps for different thickness available to compare for the conformity of the TOFD parameters

I&T NARDONI INSTITUTE

TOFD REFERENCE COLLECTION maps
ASME CODE SEC. V
UNI EN 583-6

ED. OCTOBER 2013

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E-mail: Nardoni@numerica.it - Nardoni@speedyposta.it  nardoni.campus@gmail.com

BRESCIA-ITALY
PHASED ARRAY INSPECTION

PHASED ARRAY ON CALIBRATION BLOCKS

CIRCUMFERENTIAL AND NOOZLE WELD INSPECTION

EXAMPLE OF PHASED ARRAY MAPS
MAGNETIC PARTICLE AND LIQUID PENETRANT INSPECTION

MT INSPECTION ON WELDS AND BOLDS

PT INSPECTION ON WELDS PLATES AND CASTINGS
GUIDED WAVE INSPECTION ON REFINERY TUBES

ACOUSTIC EMISSION INSPECTION ON HYDROCRACKERS

ON FIBER GLASS AND COMPOSITE MATERIALS
EDDY CURRENT INSPECTION

EDDY CURRENT INSPECTION
ON HEAT EXCHANGER TUBES

EDDY CURRENT INSPECTION
ON TURBINE BLADES
TERMOGRAPHY

STRESS ANALYSIS
CHARACTERIZATION OF CONCRETE STRUCTURES

ECHOGRAFPHY OF CONCRETE SECTION

DEPTH CRACK EVALUATION

REBOR STRENGTH EVALUATION

INFIELD CONCRETE ANALYSIS
FAILURE ANALYSIS

EXPLODED HYDROGEN TUBE

CRACK IN FLANGE

CRACK IN TURBINE BLADES

SEM MICROGRAPHY ON FRACTURE
INTERNATIONAL CAMPUS
Albert Einstein
I&T NARDONI INSTITUTE
TRAINING AND QUALIFICATION OF NDT PERSONNEL
EN ISO 9712 / SNT-TC-1A
International Campus A. Einstein

PERMANENT SCHOOL FOR ADVANCED NDT

STAGES, Weekly Courses, TRAINING, Applied RESEARCH, Scientific LECTURE, VISITS to Manufacturing Factory – Forgings, Welding, Pressure Vessels, Aerospace, Automotive – UNIVERSITY Laboratories - QUALIFICATION of NDT personnel according to EN ISO 9712 - Accommodation in college - Campus Shuttle
Final Clients portfolio of I&T Nardoni Institute

I&T Nardoni Institute, selected by key customers for Ultrasonic Computerized Systems for these final clients
MANAGEMENT SYSTEM CERTIFICATE

Certificato No./Certificate No.: CERT-00866-96-AQ-MIL-SINCERT
Data prima emissione/Initial date: 19 marzo 1996
Validità/Valid: 12 febbraio 2016 - 15 settembre 2018

Si certifica che il sistema di gestione di/This is to certify that the management system of

I&T Nardonì Institute S.r.l.
Via della Cascina Pontevica, 21 - 25010 Feltre (BS) - Italy
È conforme ai requisiti della norma per il Sistema di Gestione Qualità/ has been found to conform to the Quality Management System standard:


Questa certificazione è valida per il seguente campo applicativo:

Sviluppo ed erogazione dei seguenti servizi: prove non distruttive (PND);
ricerca ed analisi rotture, verifica integrità corpi a pressione e strutture;
Trasferimento tecnologico relativo a strumentazione innovativa, Formazione del
personale PND, Commercializzazione di strumentazione innovativa

(Settore EA: 35 - 29)

This certificate is valid for the following scope:

Development and provision of the following services: non destructive tests
(NDT); failure analysis, pressure vessels and structures integrity verification,
Technology transfer on advanced instrumentation, Training of NDT
personnel. Trading of advanced NDT equipment

(Settore EA: 35 - 29)

Luogo e Data/Place and date:
Vimercate (MB), 11 gennaio 2016

ACCREDIA

Per l’Organismo di Certificazione/
For the Certification Body

Vittore Marangon
Management Representative

La validità del presente Certificato è subordinata al rispetto delle condizioni contenute nell’Contratto di Certificazione/

Lack of fulfillment of conditions set out in the Certification Agreement may render this Certificate invalid.

CERTIFICATO DI ACCREDITAMENTO
Accreditation Certificate

Accreditation n°
1542
Rev. 0

Si dichiara che
We declare that

I&T NARDONI INSTITUTE SRL
Sede/Headquarters:
Via Della Cascina Pontevica, 21 - Loc. Follano - 25124 Brescia BS

è conforme ai requisiti della norma
meets the requirements of the standard

UNI CEI EN ISO/IEC 17025:2005 “Requisiti generali per la competenza dei Laboratori di prova e tarature”

quale
as

Laboratorio di Prova
Testing Laboratory


The accreditation certifies the technical competence of the laboratory limited to the scope detailed in the attached Enclosure. The scope may vary in the time. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in a language relevant to Testing Laboratories operations and meet the principles of ISO 9001:2008 and are aligned with its pertinent requirements. The present certificate is valid only if associated to the annexed schedule, and can be suspended or withdrawn at any time in the event of non fulfilment as ascertained by ACCREDIA. The in force status of the accreditation may be checked in the WEB site (www.accredia.it) or on direct request to appointed Department.

Data di 1° emissione
1st issue date
2015-09-24

Data di modifica
Modification date
2015-09-24

Data di scadenza
Expiring date
2019-09-23

Il Direttore Generale
The General Director
(Dr. Filippo Trifletti)

Il Direttore di Dipartimento
Department Director
(Dr. Silvia Tramontin)

Il Presidente
The President
(Ing. Giuseppe Rossi)