

# ATG PRESENTATION 2013

[www.atg.cz](http://www.atg.cz)

[www.atgtesting.com](http://www.atgtesting.com)

Created by Zbynek Zavadil



## Training

- [Training information](#)
- [Types of courses](#)
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- [Types of courses](#)
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## Products

- [Penetrant Testing](#)
- [Magnetic Particle Testing](#)
- [Ultrasonic Testing](#)
- [Radiographic Testing](#)
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## Level III Services

If your company implements or uses a system of employee certification with NDT Level III, we can help you with each point of this difficult process.



## Inspection Services

Our inspectors have many years of experience from hundreds of projects located all over the world.

**Introduction, ATG activities, Basic Information**

**ATG IS ISO 9001:2009 CERTIFIED**



ATG – Advanced Technology Group – [www.atg.cz](http://www.atg.cz)  
Beranovych 65, Praha 9, 190 00, Czech Republic

# INTRODUCTION

**ATG (Advanced Technology Group) Ltd.** is an engineering company active in special processes as NDT, welding, plant inspection, inspection, material and corrosion analysis

**ATG Ltd.** is a company with closed chain of products as follows:

- Personnel qualification
- Services in special processes (providing, consultancy, expertising ...)
- Production for NDT
- Third Party Inspection

**It means the company offers the complex technical solution for special processes as NDT, welding ...**



# ATG ACTIVITIES

**Our activities are concentrated in the areas as follows:**

- NDT process – nondestructive testing
- Welding process
- Plant inspection – corrosion and material engineering
- TPI - The third party inspection + ASME Code, PED, ISO 3834, ISO 15607, etc.
- Technical Personnel certification acc. to ISO 17024 (ATG CERT)
- Production and system integration for NDT
- Research and development in NDT, in material and corrosion analysis

# BASIC INFORMATION

<b>Company type</b>	Ltd.
<b>Established</b>	1992
<b>Number of permanent employees</b>	85
<b>Number of university graduated</b>	58
<b>Number of Ph.D.</b>	8
<b>Number of NDT Level III qualified</b>	22
<b>Number of NDT Level III qualifications in independent system acc. to ISO 9712</b>	47
<b>Number of subsidiaries</b>	9
<b>ATG branches</b>	Pilsen – west Bohemia Ostrava – north Moravia

\* These data are valid to 2nd of January 2013



**LA Composite Ltd., PK-Q Prague Ltd., ATG Inspekta Ltd.,  
Europe, Russia, Middle East, Canada and Training Centers**

## **ATG SUBSIDIARIES WORLDWIDE**



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# ATG SUBSIDIARIES – LA COMPOSITE Ltd.



## LA COMPOSITE Ltd., PRAGUE (share 100%)

- Design, construction and calculation of composite and bonded structures
- Production of composite and bonded structures for aerospace, transport and machinery applications (ECD, Airbus, Daher Socata)
- Autoclave technique, honeycomb machining and hot/cold bonding
- 48 employees

# ATG SUBSIDIARIES – PK-Q PRAGUE Ltd.



## PK-Q PRAGUE Ltd. (50%)

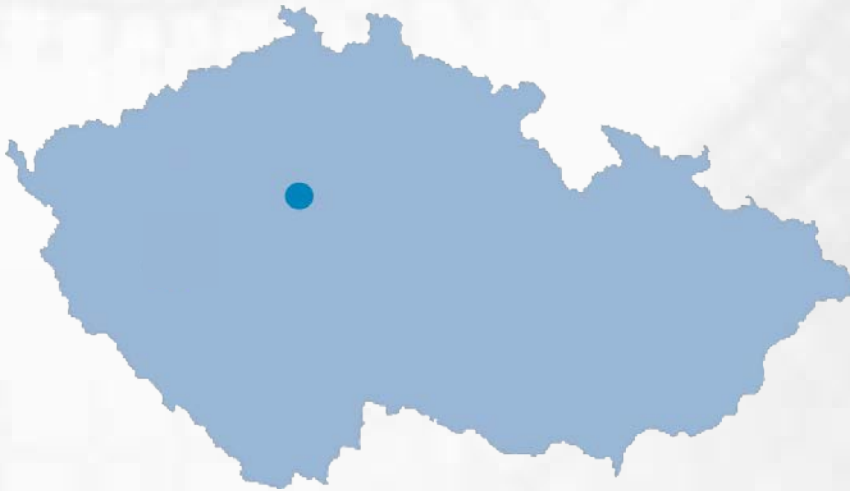
- NDT Inspection (routine inspection) - Special Process House for NDT
- 24 employees
  - Radiographic Testing RT
  - Ultrasonic Testing UT
  - Magnetic Particle Testing MT/MPI
  - Liquid Penetrant Testing PT/FPI
  - Eddy Current Testing ET
  - Visual Testing VT



# ATG SUBSIDIARIES – ATG INDPEKTA Ltd.

## ATG – Inspekta srl., Ltd., Prague

- Independent Third Party Inspection
- Inspection services, shop, on-site, expediting
- 15 available inspectors approved by SAUDI ARAMCO, ENEL/RINA, JGC, ADCO, ALSTOM, SIEMENS, ...



# ATG SUBSIDIARIES - EUROPE



## ATG Slovakia Ltd., Trenčín, Slovakia (52%)

- Training Body for EN 473/ISO 9712, EN 4179, SNT-TC-1A, visual Inspection acc. EN 17 637 and EN 12 454, Welding Coordination Personnel, Corrosion Inspectors, Auditors
- Technical, service and sales support in all ATG core activities
- Distribution of KODAK, OLYMPUS, CHEMETALL, ROHMANN, SONATEST products in Slovakia
- SPH (Special Process House) for PT, MT, VT, RT, UT
- 25 employees

## ATG - ONIKO, Kiev, Ukraine (45%)

- Training Body for Personnel Qualification according to EN 4179/NAS 410, EN 473/ISO 9712, PED, Welding Coordination Personnel, Plant/Corrosion Inspectors
- Inspection Services
- Distribution of ATG products in Ukraine

# ATG SUBSIDIARIES - RUSSIA



## **ATG Russia Ltd., Sankt Petersburg, Russia (85%)**

- Training Body for Personnel Qualification according to EN 4179/NAS 410, EN 473/ISO 9712, PED, Welding Coordination Personnel, Corrosion Inspectors, Auditors,
- Inspection Services

## **VIMATEK OOO, Sankt Petersburg, Russia (15%)**

- ATG distributor for Russian speaking countries with offices in Moscow, Nizhnyj Novgorod, Perm, Samara, Irkutsk etc.
- Technical, service and sales support in all ATG core activities
- Production of MT magnetic particle automated systems

# ATG SUBSIDIARIES – MIDDLE EAST



## **ATG Training & Consultancy, Abu Dhabi (25%)**

- Training Body for Personnel Qualification according to EN 4179/NAS 410, EN 473/ISO 9712, PED, Welding Coordination Personnel, Corrosion Inspectors, Auditors
- Providing of ATG Outside Agency services according to SNT-TC-1A, EN4179/NAS410
- Inspection Services

## **ATG Turkey, Istanbul, Turkey (45%)**

- Training Body for Personnel Qualification according to EN 4179/NAS 410, EN 473/ISO 9712, PED, Welding Coordination Personnel, Corrosion Inspectors, Auditors
- Providing of ATG Outside Agency services according to SNT-TC-1A, N4179/NAS410, ISO 11484
- Inspection Services

# ATG SUBSIDIARIES – CANADA AND TRAINING CENTERS



## ATG Canada

- Support of ATG activities in Canada

## ATG Training Centres

- Iraq
- Egypt
- Serbia
- Belorussia

**ATG contractual partners, ATG collaborating inspection  
and supervision companies, ATG as an (authorized) distributor**

## **PARTNERS & ATG AS A DISTRIBUTOR**



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# ATG CONTRACTUAL PARTNERS

<b>HARTFORD STEAM BOILER INTERNATIONAL Ltd,</b> Germany	<ul style="list-style-type: none"> <li>➤ support for ASME Code, PED (97/23/EU European Directive) as Notified Body</li> </ul>
<b>CANSPECT, Toronto, Canada</b>	<ul style="list-style-type: none"> <li>➤ independent third party inspection</li> <li>➤ personnel qualification</li> </ul>
<b>METAMAK, Istanbul, Turkey</b>	<ul style="list-style-type: none"> <li>➤ personnel qualification and certification</li> </ul>
<b>SVUOM s.r.o., Prague, Czech Republic</b> (former National Research Institute for Material Surface Protection)	<ul style="list-style-type: none"> <li>➤ training center for corrosion personnel</li> <li>➤ painting inspection</li> </ul>
<b>BV Inc., Prague, Czech Republic</b>	<ul style="list-style-type: none"> <li>➤ RLA - Residuum Life Assessment of Power Systems, Petrochemical Systems</li> </ul>
<b>REAKTORTEST s.r.o., Trnava, Slovak Republic</b> (nuclear power plants inspection, accredited certification body for technical personnel)	<ul style="list-style-type: none"> <li>➤ ATG as approved training and/or exam centre for NDT</li> <li>➤ according to EN 473/ISO 9712, EN 4179, visual testing EN 17 637,</li> <li>➤ corrosion personnel, welding inspectors</li> </ul>
<b>SECTOR Cert GmbH, Troisdorf, Germany</b> (accredited certification body for NDT personnel + Recognized Third Party Organization acc. to 97/23/EU)	<ul style="list-style-type: none"> <li>➤ ATG as approved training centre for NDT according to</li> <li>➤ EN 473/ISO 9712</li> </ul>
<b>CWS ANB (Czech Welding Society Authorized National Body)</b> - accredited certification body for welding personnel, approved by EWF, EOTC	<ul style="list-style-type: none"> <li>➤ ATG as approved training centre for EWI – European</li> <li>➤ Welding Inspectors</li> </ul>

## ATG COLLABORATING INSPECTION AND SUPERVISION COMPANIES

- Inspekta, Milano, **Italy**
- T.EX.IN.srl, Dalmine, **Italy**
- 2R Due Erre Engineering, Ravenna, **Italy**
- CANSPECT, **Canada**
- S&Qmart, **Turkey**
- Banford Associates, Iverurie, **UK**
- Bureau Veritas, Prague, **Czech Republic**
- 3P Quality Services, Bavel, **The Netherlands**
- Trest Belpromnaladka, Minsk, **Belorussia**
- Marisand Impex, Bucharest, **Romania**
- Al-Rook Company for Engineering Services, Baghdad, **Iraq**
- Tecnic Company, Banjas, **Syria**
- Omic, Tokyo, **Japan**
- Baxcounsel Inspection Bureau, Bombay, **India**
- INCOK, Seoul, **South Korea**
- QA Management, Perth, **Australia**
- SQA Services, San Diego, **USA**



# ATG AS AN (AUTHORIZED) DISTRIBUTOR

ARDROX/ CHEMETALL ( <b>BRD</b> )	PT + MT + AEROSPACE REPAIR - chemicals, penetrants, cleaners etc
MR CHEMIE ( <b>GERMANY</b> )	PT + MT - UV lamps
SONATEST ( <b>GB</b> )	UT - handy defectoscopes, thickness meters, UT probes
SOCOMATE ( <b>RF</b> )	UT - multichanel systems
TECNITEST ( <b>SPAIN</b> )	UT - testing of spot welds for automotive industry
ROHMANN ( <b>GERMANY</b> )	ET - detection of surface defects in nuclear and aerospace industry, measurement of conductivity ET - detection of surface defects in automotive industry, multi-frequence sorting of materials - STRUCTUROSCOPY
BALTEAU NDT ( <b>BELGIUM</b> )	RT - industrial mobile and stationary X-ray machines
KODAK ( <b>USA</b> )	RT - industrial radiographic films
OLYMPUS INDUSTRIAL /KEYMED ( <b>JAP/GB</b> )	VT- fibro-scopes, bore-scopes, video-scopes

**Qualification training coverage,  
Standard NDT methods, Specialized methods**

## **PERSONNEL TRAINING WITH ATG**



# PERSONNEL TRAINING

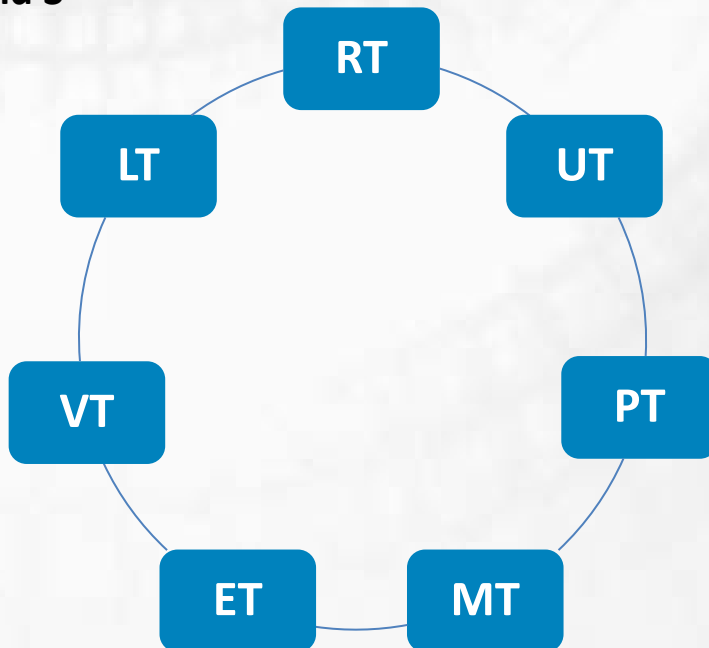
## ATG covers qualifications in these areas:

- NDT - nondestructive testing
  - Welding coordination personnel and welders
  - Third Party Inspectors
  - Plant Inspectors
    - Corrosion inspectors (API 510, 570, 653)
- All training/courses can be realized/performed in both ways:
    - independent central certification acc. to ISO EN 17024 and by ATG CERT or authorized Certification Bodies
    - or employer certification acc. to SNT-TC-1A too
  - All training/courses and exams can be performed in the customer facility or in ATG training centers
  - Schedule/Program of courses - in the employer certification system are scheduled acc. to employer requirements
  - The implementation of these qualifications can be supported by Service Level III department activity - creation and implementation of employer legislative (procedures, instructions, audits, ..... etc.)
  - Support Level III/3 for customer or independent audits



# PERSONNEL TRAINING

Qualification training covers all basic NDT methods in qualification levels 1,2 and 3



ATG offers more specialized methods or testing systems as follows

- **IRT** – Infrared Thermography
- **ST** - Shearography
- **TCS** - Testing of Composite and Bonded structures (Mechanical Impedance Method, Pitch-Catch, Resonance Method, Transmission UT, Tapping, IRT - Infrared Thermography, ...etc)
- **UTM** - Ultrasonic Thickness Measurement
- **RTI** - Interpretation of Radiographs
- **LA** – Lubrication Analysis

**Independent Central Certification,  
Employer Certification, ATG CERT**

# **ATG CERTIFICATION**



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# CERTIFICATION

## Independent Central Certification

- EN 473/ISO 9712 - authorized training center (authorized by SECTOR Cert , TÜV Cert , Reaktortest)
- ISO 11484 - authorized training and examination center (authorized by Reaktortest)
- ATG CERT - certification body acc. to ISO 17024 for NDT, welding, TPI and Plant Inspection personnel

## Employer Certification

- SNT-TC-1A - common systems especially for pressure equipment
- EN 4179 (aerospace) - ATG is approved as Outside Agency by National Aerospace NDT Board
- NAS 410 (aerospace) - ATG is approved as Outside Agency by National Aerospace NDT Board
- ISO 11484, EN 10 256 - steel tubes

# ATG CERT - PERSONNEL CERTIFICATION

## ATG CERT covers personnel certification in these processes:

- NDT - nondestructive testing
- Welding process - coordination personnel and welders
- Third Party Inspection
- Plant Inspection
  - Corrosion inspectors (API 510, 570, 653)
  - Crane inspectors etc.

## ATG CERT basic information:

- from March 2011
- independent central personnel certification acc. to ISO EN 17024 for NDT, welding, third party inspection and plant inspection
- non accredited certification
- own examination center
- possibility to use previous qualification
- system of approved exam centers from outside certification systems
- Czech, Russian, English versions of examination questions
- Czech, Russian, English speaking examiners



# ATG SERVICES FOR NDT

**ATG can support you for all methods in following directions:**

- Analysis of technical problem
- Proposal for solution of this problem
- Verification/confirmation of proposed solution by own personnel and equipment
- Coverage of starting period of routine testing by ATG operators
- On the job training of customer operators
- Qualification and certification of the customer operators according to the customer request (SNT-TC-1A, ISO 9712, NAS 410 .....
- Technical support for NDT equipment deliveries by Level III
- Complete Level 3 services for the customer



# NDT INSPECTION MAIN ACTIVITIES

METHOD	EQUIPMENTS/ TECHNIQUES	STAFF (contact person)
<b>RT</b> Radiographic Testing	<ul style="list-style-type: none"> <li>radiography (from 20 kV up to 400 kV)</li> <li>gammagraphy (Ir, Se, Co)</li> <li>radiometry + radioscopy</li> </ul>	Pavel Maranek, RT Level III
<b>UT</b> Ultrasonic Testing	<ul style="list-style-type: none"> <li>through transmission, immersion + squirter system</li> <li>thickness measurement</li> <li>reflection</li> </ul>	Jan Matousek, UT Level III
<b>PT</b> Liquid Penetrant Testing	<ul style="list-style-type: none"> <li>dye penetrant</li> <li>fluorescent penetrant</li> </ul>	Pavel Maranek, PT Level III
<b>FPI</b> Fluorescent Penetrant Inspection	<ul style="list-style-type: none"> <li>fluorescent penetrant lines</li> <li>UT cleaning</li> </ul>	Zbyněk Zavadil, PT Level III
<b>MT</b> Magnetic Particle Testing	<ul style="list-style-type: none"> <li>hand yokes (AC/DC, 230V, 42V)</li> <li>mobile generators (AC/DC up to 4000A)</li> <li>stationary MT benches (ASTM 1444)</li> </ul>	Josef Krejča, MT Level III
<b>ET</b> Eddy Current Testing	<ul style="list-style-type: none"> <li>structuroscopes</li> <li>single-frequency ET apparatus</li> <li>multi-frequency ET apparatus with all probes</li> </ul>	Petr Tichý, ET Level III
<b>VT</b> Visual Testing	<ul style="list-style-type: none"> <li>direct VT of welds and castings</li> <li>indirect VT (boroscopy, endoscopy)</li> </ul>	Vaclav Jandura, VT Level III
<b>LT</b> Leakage Testing	<ul style="list-style-type: none"> <li>integral methods (pressure)</li> <li>differential methods (bubble technique, penetrant, He spectrometer)</li> </ul>	Václav Jandura , LT Level III

**Products designed and produced by ATG,  
Imported products, ATG production types**

## **ATG PRODUCTION FOR NDT**



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**Analysis of problem / task - proposal of solution - design –  
realization / production - delivery - personnel qualification**

**ATG DOES NOT OFFER JUST EQUIPMENT,  
ATG OFFERS COMPLEX SOLUTION FOR  
YOUR COMPANY**



# PRODUCTION FOR NDT

## Products designed and produced by ATG



### Complex systems for all NDT methods:

- UT, ET, MT, RT Manipulators
- Conveyors for testing systems benches and stands
- UT, ET, MT, PT/FPI testing lines

### Handy equipment for NDT as:

- Electromagnetic yokes
- Viewers
- Densitometers

### Test and calibration blocks:

- Test pieces
- Etc.

# ATG PRODUCTION TYPES

## ATG produces the whole requested range for all NDT methods

- Test pieces
  - Test blocks
    - Calibration blocks/pieces for aerospace (maintenance)
- Small measurement devices / apparatus
- Manipulators / accessories for all NDT methods
- Test benches for MT
- Automated testing lines and manipulators for RT, UT, MT, PT/FPI, ET
  - UT tanks
- Cleaning/degreasing lines
  - Etching lines
    - Complete solution for waste water

# ATG PRODUCTION TYPES – RT, UT, MT

Method	Product	Support /delivery
<b>RT</b> Radiographic Testing	<ul style="list-style-type: none"> <li>▪ radioscopic systems (Real Time Imaging)</li> <li>▪ CT systems - industrial computerized tomography</li> <li>▪ negatoscopes, densitometers</li> <li>▪ radiographic films and developing lines</li> <li>▪ projection of shielding, realization, shielding boxes</li> <li>▪ manipulators and dozimetric monitoring nets</li> </ul>	<ul style="list-style-type: none"> <li>➤ Balteau NDT</li> <li>➤ KEVEX</li> <li>➤ KODAK</li> </ul>
<b>UT</b> Ultrasonic Testing	<ul style="list-style-type: none"> <li>▪ test blocks according to EN norms, ASME, AWS etc.</li> <li>▪ manipulators (up to 6 axis) for testing of rotary and planar objects (immersion, squiter, gap immersion)</li> </ul>	<ul style="list-style-type: none"> <li>➤ SONATEST</li> <li>➤ SOCOMATE</li> <li>➤ TECNITEST</li> </ul>
<b>MT</b> Magnetic Particle Testing	<ul style="list-style-type: none"> <li>▪ test blocks (Ketos-ring, Ketos-bar, MPY, etc.)</li> <li>▪ electromagnetic yokes AC, AC/DC, 230/42 V</li> <li>▪ mobile magnetizers AC/DC</li> <li>▪ de-magnetizers</li> <li>▪ stationary test benches AC/AC, AC/FWDC, FWDC/FWDC up to 3000 mm of tested object length</li> <li>▪ MT automated systems</li> <li>▪ systems with sequence magnetizing (up to 3 x 20000 A)</li> </ul>	<ul style="list-style-type: none"> <li>➤ CHEMETALL</li> <li>➤ MR CHEMIE</li> </ul>

# ATG PRODUCTION TYPES – PT, VT, ET

Method	Product	Support /delivery
<b>PT</b> Penetrant Testing	<ul style="list-style-type: none"> <li>▪ application boxes for manual spraying</li> <li>▪ manual FPI lines, automated FPI lines</li> <li>▪ pre-cleaning lines with heating and UT</li> <li>▪ cleaning units with active carbon and neutralization stations</li> <li>▪ conveyors for FPI lines</li> </ul>	<ul style="list-style-type: none"> <li>➤ CHEMETALL</li> <li>➤ MR CHEMIE</li> <li>➤ SHERWIN</li> <li>➤ SPECTRONICS</li> </ul>
<b>VT</b> Visual Testing	<ul style="list-style-type: none"> <li>▪ manipulators</li> <li>▪ SW for image processing</li> </ul>	<ul style="list-style-type: none"> <li>➤ OLYMPUS INDUSTRIAL</li> </ul>
<b>ET</b> Eddy Current Testing	<ul style="list-style-type: none"> <li>▪ test-blocks and test pieces (mechanical machining and EDM)</li> <li>▪ automated testing lines for detection of surface and subsurface voids</li> <li>▪ structuroscopic lines for products of heat treatment, forgings</li> </ul>	<ul style="list-style-type: none"> <li>➤ ROHMAN</li> </ul>

**NDT equipment and automated testing lines, Training of  
technical personnel, Out-source services, Risk and Failure Analysis**

# **ATG FOR AUTOMOTIVE INDUSTRY**



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# ATG FOR AUTOMOTIVE INDUSTRY

## NDT (Non Destructive Testing) equipment and automated testing lines for:

- **crack and surface/subsurface defect detection** of ferromagnetic materials
- **MT** - magnetic particle (flux machine) equipment, magnetizing units, handy electromagnetic yokes - own production
- **crack and surface defect detection** of non-ferromagnetic materials
- **PT/FPI** - penetrant testing/fluorescent penetrant inspection - own production
- **crack and surface/subsurface defect detection crack detection** of conductive materials
- **ET** - eddy current testing automated lines in cooperation of ROHMANN
- **material sorting**
- **ET** - eddy current sorting - in cooperation with ROHMANN
- **heat treatment testing**
- **ET** - eddy current testing of heat treatment level - in cooperation with ROHMANN
- **internal defects of castings**
- **RT** - radiographic systems including shielding cabinets, roentgen tubes (in coop. with BALTEAU), manipulators, image processing
- **spot weld detection** - in cooperation with Vogt, **defects of cast and machined parts**
- **UT** - ultrasonic testing equipment and automated lines in coop. with TECNITEST and SOCOMATE

# ATG FOR AUTOMOTIVE INDUSTRY

## Training of technical personnel for:

- **NDT** - according to EN 473/ISO 9712, SNT-TC-1A as approved training body of ATG Cert or alternatively by Reaktortest, SectorCERT and TÜV Nord, which are accredited
- **Welding** - welding inspectors and coordinated personnel (ISO 14731) as ATG approved training body of CWS-ANB (Czech Welding Society - Authorized National Body) approved by EWF, EOTC,IIW

## Out-source services (Outside Agency) for:

- **NDT** - Service Level III, implementation of company NDT system, NDT personnel training, support for creation of written procedures etc.
- **Welding** - Service of EWE European Welding Engineer, support for EN ISO 15614 Part 1:2004 (WPS a WPAR) and ISO 3834
- **Plant Inspection/Corrosion** inspection and material selection

## Risk and Failure Analysis:

- |                                      |                                       |
|--------------------------------------|---------------------------------------|
| ▪ Material and corrosion engineering | ▪ Material testing, material analysis |
| ▪ Friction and wear                  | ▪ Tool steels, heat treatment         |

**NDT equipment and automated testing lines,  
Out-source services, Training of technical personnel, Others**

## **ATG FOR PRESSURE EQUIPMENT INDUSTRY**



# ATG FOR PRESSURE EQUIPMENT INDUSTRY

## NDT (Non Destructive Testing) equipment for:

- **crack and surface/subsurface defects detection** of ferromagnetic materials
- **MT** - magnetic particle equipment, magnetizing units - own production
- **crack and surface defects detection** of non-ferromagnetic materials
- **PT/FPI**
- **crack and surface/subsurface defects detection** of conductive materials
- **ET** - lines (ROHMANN)
- **internal defects of castings**
- **RT** - systems incl. shielding cabinets, roentgen tubes, manipulators, image proc.
- **internal defects of cast, forged and machined parts**
- **UT** - ultrasonic testing equipment
- **internal defects of castings**
- **RT** - radiographic and radiosopic systems - real time imaging systems

# ATG FOR PRESSURE EQUIPMENT INDUSTRY

## Out-source services (Outside Agency) for:

- **NDT services – routine testing** in all methods RT, UT, MT, PT, ET, VT, LT by Level II acc. to EN 473/ISO 9712 or SNT-TC-1A
- **NDT supervision** by Level III operators
- **NDT Level III services** - implementation of company NDT system, NDT personnel training for **PED** too, support for creation of written procedures etc., support for ASME Code + **NDT Services**  
- Providing of NDT (RT, UT, MT, PT/FPI, ET, VT, LT) by EN and SNT-TC-1A qualified NDT operators/staff
- **Welding inspection** - service of IWI &EWI, support for EN ISO 15614 Part 1:2004 (WPS &WPAR) and ISO 3834
- **Plant Inspection/Corrosion** inspection and material selection

# ATG FOR PRESSURE EQUIPMENT INDUSTRY

## Training of technical personnel for:

- **NDT** - according to EN 473/ISO 9712, SNT-TC-1A as approved training body of body of ATG Cert or alternatively by Reaktortest, SectorCERT and TÜV Nord, which are accredited, training for **PED (Pressure Equipment Directive)** purposes
- **Welding** - welding inspectors and coordinated personnel (ISO 14731) as ATG approved training body of CWS-ANB (Czech Welding Society - Authorized National Body) approved by IAB/IIW, EWF and EOTC
- **Plant Inspection/Corrosion** - technicians and technologists
- **Third Party Inspection**

## Others:

- Risk and Failure Analysis
- Design and Material Selection
- Residual Life Assessment

**NDT equipment and automated testing lines, Training of technical personnel, Out-source services, Surface cleaning /degreasing, Surface treatment – Etching, Waste water systems**

## **ATG FOR AEROSPACE INDUSTRY**



# ATG FOR AEROSPACE INDUSTRY

## NDT (Non Destructive Testing) equipment and automated testing lines for:

- **crack and surface/subsurface defects detection** of ferromagnetic materials -
- **MT** - magnetic particle (flux machine) equipment, magnetizing units - own production
- **crack and surface defects detection** of non-ferromagnetic materials
- **PT/FPI** - with UT cleaning, electrostatics
- spraying of penetrant and developer - own production, (+ in cooperation with Chemetall -Ardrox)
- **crack and surface/subsurface defects detection** of conductive materials
- **ET** - lines (ROHMANN)
- **internal defects of castings**
- **RT** - systems incl. shielding cabinets, roentgen tubes, manipulators, image processing
- **internal defects of cast, forged and machined parts**
- **UT** - ultrasonic testing equipment, UT tanks and automated lines in coop.with SONATEST and SOCOMATE
- **internal defects of castings**
- **RT** - radiosopic systems - real time imaging systems
- **heat treatment testing**
- **ET** - eddy current testing of heat treatment level (ROHMANN)



# ATG FOR AEROSPACE INDUSTRY

## Training of technical personnel for:

- **NDT** - according to EN 4179, EN 473/ISO 9712, NAS-410, MIL-STD-410E, SNT-TC-1A as body of ATG Cert or alternatively by Reaktortest, SectorCERT and DAR/TGA which are accredited
- Possibility to realize on the job training UT tank / FPI line
- **Welding** - welding inspectors and coordinated personnel (ISO 14731) as ATG approved training body of CWS-ANB

## Out-source services (Outside Agency) for NDT:

- **Service Level III** - implementation of company NDT system, NDT personnel training according to EN 4179, NAS-410 ..., support for creation of written procedures etc.
- **NDT Services** - Providing of NDT (RT, UT, MT, FPI, ET, VT, LT) by qualified personnel – EN 4179/NAS 410
- **Welding** - Service of EWE, support for EN ISO 15614 Part 1:2004 (WPS&WPAR) and ISO 3834

# ATG FOR AEROSPACE INDUSTRY

## Surface cleaning/degreasing

- UT alkaline washing unit
- Heating alkaline cleaning unit and furnace unit
- After FPI/MPI process cleaning station

## Surface treatment – Etching

- Etch line for Ti, stainless steel, Al alloys

## Osmotic filtration of input water

- Cleaning unit for rinse water from FPI line and neutralization station for waste water

**Regions of activities/interest, Out-source services,  
NDT equipment, Training of technical personnel, Others**

## **ATG FOR OIL & AND POWER INDUSTRY**



# ATG FOR OIL & AND POWER INDUSTRY

## Regions of ATG activities/interest:

- oil refineries
- lube oil plants
- oil and product pipelines
- water and steam power plants
- LPG projects
- tank farms
- hydrocrack plants
- nuclear power plants

## Out-source services (Outside Agency) for:

- **NDT services-routine testing** in all methods RT,UT,MT,PT, T,VT by Level II acc. to EN 473/ISO 9712 or SNT-TC-1A
- **NDT supervision** by Level III operators
- **NDT Level III service** - implementation of company NDT system, NDT personnel training for **PED** too, support for creation of written procedures etc., support for ASME Code + **NDT Services** - Providing of NDT (RT, UT, MT, PT/FPI, ET, VT, LT) by EN and SNT-TC-1A qualified NDT operators/staff
- **Welding inspection** - service of IWI and EWI, support for EN ISO 15614 Part 1:2004 (WPS a WPAR) and ISO 3834
- **Plant Inspection/Corrosion** inspection and material selection

# ATG FOR OIL & AND POWER INDUSTRY

## NDT (Non Destructive Testing) equipment for:

- **crack and surface/subsurface defects detection** of ferromagnetic materials
- **MT** - magnetic particle equipment, magnetizing units - own production
- **crack and surface defects detection** of non-ferromagnetic materials
- **PT/FPI**
- **crack and surface/subsurface defects detection** of conductive materials
- **ET** - lines (ROHMAN)
- **internal defects of castings**
- **RT** - systems incl. shielding cabinets, roentgen tubes, manipulators, image processing
- **internal defects of cast, forged and machined parts**
- **UT** - ultrasonic testing equipment
- **internal defects of castings**
- **RT** - radiographic and radiosopic systems - real time imaging systems

# ATG FOR OIL & AND POWER INDUSTRY

## Training of technical personnel for:

- **NDT** - according to SNT-TC-1A and EN 473/ISO 9712 as approved training body of ATG Cert or alternatively by Reaktortest, SectorCERT and TÜV Nord, which are accredited, training for **PED (Pressure Equipment Directive)** purposes
- **Welding** - welding inspectors and coordinated personnel (ISO 14731) as ATG approved training body of CWS-ANB (Czech Welding Society - Authorized National Body) approved by IAB/IIW, EWF and EOTC
- **Plant Inspection/Corrosion** - technicians and technologists
- **Third Party Inspection**

## Others:

- Risk and Failure Analysis
- Design and Material Selection
- Residual Life Assessment

**CE marking, Insurance companies and bank sector,  
Inspection on behalf of clients**

## **CE MARKING AND BANK SERVICES**



# ATG FOR ORGANIZATIONS IN RELATION TO CE MARKING

## ATG offers the following services:

- CE conformity assessment according to the Act No.22/1997 Col. in the valid wording
- Area classification of the environment in subcontracting co-operation
- Risk analysis acc. to the CSN EN 1050:2001 Std.
- Conformity assessment acc. to the Governmental Order No.17/2003 in the valid wording for Low Voltage Equipment (European Directive No. 73/23/EEC)
- Conformity assessment acc. to the Governmental Order No.18/2003 in the valid wording for Electromagnetic Compatibility (European Directive No. 89/336/EEC) in subcontracting co-operation
- Conformity assessment acc. to the Governmental Order No.26/2003 in the valid wording for Pressure Equipment (European Directive No. 97/23/EC) in co-operation with Hartford Steam Boiler International
- Conformity assessment acc. to the Governmental Order No.24/2003 in the valid wording for Machinery Equipment (European Directive No. 98/37/EC)



## ATG FOR INSURANCE COMPANIES AND BANK SECTOR

### ATG offers the following services:

- independent judgement of damaged goods
- project audits from the view of the project risk factors for putting into operation, actual operation and fulfillment of technical capacity parameters
- project audits from the viewpoint of application of the specific regulations for the respective type of equipment and area classification
- project audit from the viewpoint of application of the respective technical regulations and standards in the necessary scope

## ATG FOR INSPECTIONS ON BEHALF OF CLIENTS

### **ATG offers independent inspection performance in the following scope:**

- machinery and electrical equipment (working machines, pressure equipment, rotating equipment, diesel generating sets, instrumentation, package units)
- steel structures, piping, pipelines
- metallurgical products (castings, forgings, rolled material – sheets, pipes, tubes, profiles)
- expediting activities

# LIST OF MAIN REFERENCES



ATG – Advanced Technology Group – [www.atg.cz](http://www.atg.cz)  
Beranovych 65, Praha 9, 190 00, Czech Republic

# LIST OF MAIN REFERENCES

## **Inspection work on petrochemical, power and other plants, which our experts were involved in (covering both shop and site inspections):**

- Salahuddin Refineries I, II - Technoexport - SEORGI
- Baiji Lube Oil Plant - SCOP
- Tuba Tank Farm, Basrah - MHI - SCOP
- Third Pay Zone Development Project, Basrah - MHI - SCOP
- Dry Gas Pipeline Project - SCOP
- Basrah Refinery I,II - Technoexport - SEORGI
- Strategic Pipeline - SCOP
- North Refinery Project, Baiji - Chiyoda - SCOP
- Lube Oil Storage Tanks, Baiji - Technoexport - SCOP
- Sfaya Oil Field Project - SCOP
- Khabaz Oil Field - SCOP
- Daura Refinery - Technoexport – SEORGI
- Najibiyah Power Plant, Basrah - Technopromexport - MOI
- Daura Power Plant - Kraftwerk Union - SOE
- Al Shemal Power Station - GIE - SOE
- Haditha Hydraulic Plant - Litostroj - SOE

- SF 6 Switchgears - 6 sites - SOE
- Water Treatment Plants - UN Projects - MOI
- Paper Mill, Basrah - Sulzer - MOI
- Paper Mill, Amara - Sulzer - MOI
- Cement Factory, Falluja - Polish Supplier - MOI
- Cement Factory, Kirkuk - MOI
- Sponge Iron Plant, Basrah - Cressot Loire - MOI
- East Factory, Amara - MOI
- Loading of Sulphur, Um Quasr, State Organization for Minerals, MOIM

## **Inspection Engineers working at:**

- Inspection Department of BPC, Basrah
- Inspection Department of NPC, Kirkuk

**Two of our electrical inspectors worked as so called International Observers in Iraq on energy projects employed by the United Nations on the basis of the Security Council Resolution No.986 (Oil for Foodstuffs).**

# LIST OF MAIN REFERENCES

- Snohvid Project - Nexans, Norway
- Castor, Constor Projects - German Gesellschaft fuer Nuclear Sicherheit, Germany
- Remanent Life Assessment of Butadien Unit - Kaucuk Refinery, Kralupy, Czech Republic
- Sulphur Production Projects - Ceska Rafinerska Refinery, Kralupy/Litvínov, Czech Republic
- Risk Based Inspections of MTBE Production - Ceska Rafinerska Refinery, Litvínov, Czech Republic
- Kandla – Bhatinda Pipeline Project, India
- JGC Petrochemical Project - Dubai, UAE
- Thessaloniki PVC Plant – Greece
- Water Treatment and Distribution Plants, Syria
- Baniyas GCG Power Plant - Baniyas GCG, Syria
- Oersted Power Plant, Denmark
- Nuevitas Power Plant, Cuba
- Las Camariocas Aluminum Plant, Cuba
- Shen – Tou Power Plant, China
- Aircraft Engineering NDT Inspections - various clients
- NDT performance and consulting - Skoda Auto, Czech Republic
- Czech Power Plants (CEZ) - longterm periodical inspections of boiler drums in service in all power plants
- remnant life assesment, Czech Republic
- Czech Power Plants (CEZ) - FCB Boiler K 8, Czech Republic
- Heat Station Dvur Kralove - Boiler K 3, Steam Piping, Czech Republic
- FBC (Fluidized Bed Cooler) for Boiler K 11, Energetika Trinec, Czech Republic
- Teplarny Brno – Bus Steam Piping 10 MPa, Czech Republic
- Teplarny Brno – Remnant Life Assessment of the Pressure System in service, Czech Republic
- Eastman Sokolov, Power Division – Boilers K13, K14, Czech Republic
- Hexion Sokolov, Power Division – Feeding Water Heat Conditioning, Czech Republic
- Slavia Capital – Palma Bratislava – Biodiesel Production – Technical Due Diligence, Slovakia
- Daiho, Impress, Eaton, Koito, Zexel Valeo, Candy/Conta – Technical Assistance during plant erections, Czech Republic
- Raiffeisen Leasing – Technical Due Diligence at Paper Mill Plant Loučovice, Czech Republic
- and others

**Sales, Inspection/supervision, Personnel  
training/qualification, ATG cert/personnel certification,  
NDT services and Outside Agency, Production, Projection and design**

## **ATG CONTACT LIST**



# ATG CONTACT LIST

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