

DESCRIPTION OF THE METHOD

Penetrant testing method (PT) is one of the most widespread NDT methods. PT method is used to search for surface defects, especially in automotive, aerospace, petrochemical, and energy industry. Its main importance is in inspection of welds. Testing by PT method is very easy, undemanding and in basic application also cheap. PT method is capable of detecting imperfections like cracks, porosities, laps, cold laps etc.

DESIGN AND PRODUCTION

ATG supplies complex solution for PT

Our FPI/PT lines are able to: provide regular checks for proper function of the system, measure day light and UV light intensity, evaluate indications, check concentration of the emulsifier, measure sensitivity of the system etc.

ATG provides the complete range of equipment needed for penetrant testing:

- | Penetrant lines – manual or automatic /with precleaning and etching/
- | Penetration boxes
- | Filtration units with active carbon
- | Tanks for application of powder developer
- | Equipment for electrostatic application of penetrant and developer
- | UV lamps - manual or stationary
- | Test blocks, luxmeters, UV meters
- | Penetrants, cleaners, developers...



SELECTED PRODUCTS FOR PT

FPI LINES

Company produced lines are for large scale review in aerospace, automotive industry, and engineering. We produce manual and automatic lines, with environmental friendly operations and full rinse water recycling .



UNIVERSAL PENETRANT CABIN KPM 1000

The set is adjusted for all steps of fluorescent penetrant inspection in one box; functions: rinsing, drying, ventilation, filtration of rinsing water, darkening.



PENETRANTS ARDROX

Red dye, fluorescent or dual penetrants. High quality products, for various application, approved by most important producers.



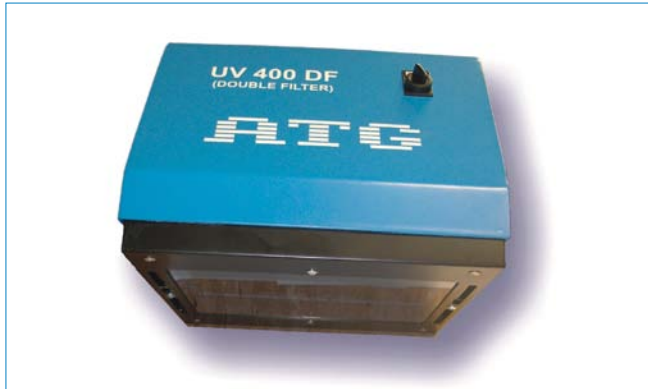
Test blocks and accessories for PT

- | Al-crack ASTM/ASME CODE V, 6
- | WTP-1 (Wash Test Panel) - Test block type I, II acc. to EN ISO 3452-3
- | Gauge TAM 135273 M
- | PSM - 5 panel - TAM 146040
- | Ni-Cr test block I/MIL-I-8963/JIS



UV LAMPS - ATG 400 DF

| Filter for UVA and UVB radiation



MEASURING OF LIGHT

| Luxmeter

| UV meter



SERVICES AND TESTING

ATG offers installed FPI lines for outside services:

- | FPI line for Aerospace, method A and D acc. to ASTM E 1417
- | FPI for big quantities - up to 8000 pcs/day, suitable for automotive industry

ATG products comply with requirements of: Volkswagen, General Electric, Boeing, Airbus, Embraer, Honeywell, Pratt & Whitney, Parker Hannifin, Rolls Royce Aircraft Engines etc. in accordance with following standards:

- | EN ISO 3452 - 2-3-4
- | EN 571-1
- | EN 1289
- | EN 1371 - 1,2
- | EN 10228 - 2
- | ASTM E 1417, ASTM E 165, ASME Code, NAVSHIP
- | NADCAP AC7114/1



TRAININGS AND SEMINARS

ATG provides qualification of NDT level I, II and III personnel. Our company belongs to the most important training agencies of "special processes" in Europe. During the training personnel is prepared for duties of NDT examination in industrial conditions. Training courses include practice on professional NDT equipment !

Each candidate for our NDT training acquires:

- | **Attendance certificate**
- | **Qualification certificate** - after passing the final exam

Preparation and qualification of personnel is in accordance with standards:

- | EN 473/ISO 9712- qualification and certification of personnel in NDT
- | EN 4179/NAS 410 for aerospace industry - JAR 145.30
- | SNT-TC-1A for employer's qualification



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