



## ESCO AR

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**ESCO Turbine Technologies** has the strength and agility to exceed customers' shifting expectations in a continuously changing business environment. With facilities in North America, Mexico and Europe, ESCO specializes in challenging production that requires exotic alloys and complex geometries.

### Markets

#### Industrial Gas Turbines

- Mature frame blades
- Steam turbine blades

#### Aerospace

- Structural aero engine parts

#### Commercial

- General engineering components
- Firearm components
- Truck tire molding components
- Hydraulic unit components

### Capabilities

#### Wax Injection

- Two injection presses, with a clamping force of 245 kN / 25 ton
- Two injection presses with clamping force of 123 kN / 13 Ton
- Wax injection pressure max. 5.4 MPa / 780 PSI

#### Manual Shelling

- Water-based shell system
- 100-mold daily production
- Shell capacity: 450 (diameter) x 500 (height)

#### Casting

- Vacuum: 175 kW melting capacity 68 kg / 150 lb
- Air: 150 kW melting capacity 18 kg / 40 lb

#### Non-Destructive testing

- FPI – fluorescent penetrant inspection
  - High sensitivity fluorescent post-emulsion penetrant, level 3 AMS 2644, Zyglo Magnaflux ZL27A
  - Middle sensitivity – fluorescent water washable penetrant, level 2 AMS 2644, Zyglo Magnaflux ZL60C
  - Four level 1 employees and one level 2 employee (NAS 410 / EN 4179)



#### Non-Destructive testing

- XR – radiographic inspection
  - PHILLIPS, 320kV capacity
  - AGFA Structurix automatic developer
  - Three level 1 employees and one level 2 employee (NAS 410 / EN 4179)

### Customers

ESCO AR is an approved source for such customers as:

- Metaling
- Česka
- Zbrojovka
- Kops
- Sauer Danfoss
- Matador
- Snecma

### Quality Standards

#### Certifications

- ISO 9001:2000

### Typical Products

#### Aerospace



Valve Body



Semelle



Semelle



Sommet de Bras

#### Industrial Gas Turbines



Steam Turbine Blades