



## ESCO Herstal, Belgium

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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

- Small, medium and large vanes and nozzles
- Small, medium, and large equiaxed blades
- Shrouds, heat shields and combustion hardware

#### Aerospace

- Blades
- Vane segments
- Vane rings
- Small and mid size structural castings

#### Turbochargers: Diesel Engines, Trains, Ships

- Radial and axial blisks
- Nozzle rings
- Blades

#### Defense

- Fine grain radial and axial blisks for missiles

### Capabilities

#### Wax Injection

- State-of-the-art MPI wax injection presses provide repeatable process parameters

#### Wax Assembly

#### Robotic Shelling

- Kawasaki Robot with VA-Tech producer unit provides repeatable mold consistency

#### Airmelt

- 40 kg (88 lbs) pour capacity
- Maximum diameter 600 mm (24 in)
- Maximum height 550 mm (22 in)

#### Vacuum Melt

- 55 kg (121 lbs) pour capacity
- Maximum diameter 600 mm (24 in)
- Maximum height 750 mm (30 in)

#### DS and SC

- 55 kg (121 lbs) pour capacity
- Maximum diameter 600 mm (24 in)
- Maximum height 750 mm (30 in)

#### Fine Grain Casting

- 55 kg (121 lbs) pour capacity
- Max part diameter 380 mm (15 in)
- Max part height 150 mm (6 in)



### Capabilities continued

#### Destructive Testing Analysis

- Porosity %
- IGA, IGO, ICO
- Alloy depletion
- Carbide studies
- Nitride layer
- Metal/mold reaction

#### Non-Destructive Testing

- In-house FPI and X-Ray inspection
- 2 X-Ray machines rating 320 kV.

### Customers

ESCO Herstal is an approved source for such customers as:

- Snecma
- Turbomeca
- MTU
- Hamilton Sundstrand
- Liebherr
- GE Energy
- Siemens
- ABB

### Quality Standards

#### Certifications

- EN 9100 - AECME EASE

#### Snecma

- Macro Etching: DMC9512, DMC9513
- Fluorescent Penetrant Inspection: DMC0010
- Radiographic Inspection: DMC0050

#### Turboméca

- Fluorescent Penetrant Inspection: LC418 / Mil Std 6866
- Radiographic Inspection: LC624 / Mil Std 00453C

### Typical Products

#### Aerospace

- Vane segments
- Blades

#### Missiles

- Fine grain radial wheels

#### Industrial Gas Turbines

- Blades
- Vane segments

#### Turbochargers

- Blades
- Radial blisks