



# Manufacture, Rehabilitation, Reverse Engineering for Fluid Film Bearings

Our goal is to put competence and professionality at the service of the Customer. We are the guarantee of your success.

### **Services**

General Project Energy collaborates with companies in the gas, steam and hydro turbine sectors, as well as in the pump and compressor industries, maritime, steel, and cement industry, providing the following specialized services:

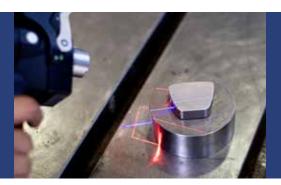
#### **New components**

Supply of **new components** based on customer documentation, drawings, and technical specifications



#### **Reverse engineering**

**Reverse engineering** through advanced 3D laser scanning technology



#### **Overhaul of in-service components**

**Overhaul of in-service components**, with technical support on applicable refurbishment methodologies



#### Fluid Film Bearing

**Supply and refurbishment** of **hydrodynamic fluid film bearings**, including pads, bushings, and components with anti-friction alloy overlays, covering a dimensional range from 20 mm to 2200 mm



#### **Mechanical machining**

Complete mechanical machining services: turning, boring, and grinding for small, medium, and large components



#### **Anti-Friction Overlay Technologies**

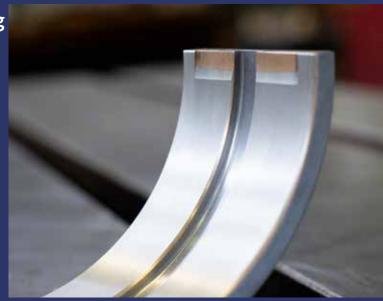
Specialized equipment for anti-friction metal coating processes

Max melting furnace capacity: 1000 kg

Rotation Ø: 20 to 2200 mm

Max weight: 6000 kg

Brons 300 Centrifuge
Brons 400 Centrifuge
Brons 1500 Centrifuge
GPE 2200 - Industry 4.0 Centrifugal Casting System
Gravity casting station - dimensions 4 x 6 m
White metal brazing and coating using
oxy-acetylene torch welding
and TIG/GTAW welding
Application of pink metal coating for
trimetallic bearing assemblies



#### **Quality Control**

**Quality control activities** performed by certified Level 2 NDT personnel (UNI EN ISO 9712) across multiple sectors (PT/UT/MT/VT)

Hexagon Absolute Arm V2P, 8525, 7-axis with magnetic base and locking ring

REcreate Reverse Engineering Solution software

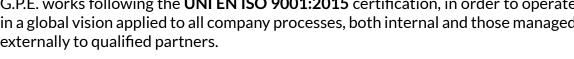
PC-DMIS Portable Interface software

SolidWorks CAD software



## Quality

G.P.E. works following the UNI EN ISO 9001:2015 certification, in order to operate in a global vision applied to all company processes, both internal and those managed externally to qualified partners.





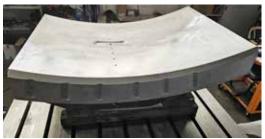










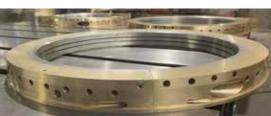












General Project Energy - G.P.E. - S.r.l.

Via San Giuseppe Operaio 15 29014 Castell'Arquato (PC) - Italy

