

Mécanique **Générale** Langroise



Saints-Geosmes, France

Who is MGL ?

One Partner, One Global Service

Forging, Machining, Cladding, NDT, Heat Treatment



- Created in 1996
- 35 employees
- Based in Langres (France)
- 4500 m2 of shop floor
- 17 CNC machines
- 5 cladding stations



We supply key players on the following markets:

- Oil & Gas
- Nuclear
- Aerospace
- Defense

Material grades :

- Carbon Steels & Stainless Steels
- Inconel, Duplex/Super Duplex , Stellite
- Titane, Aluminum

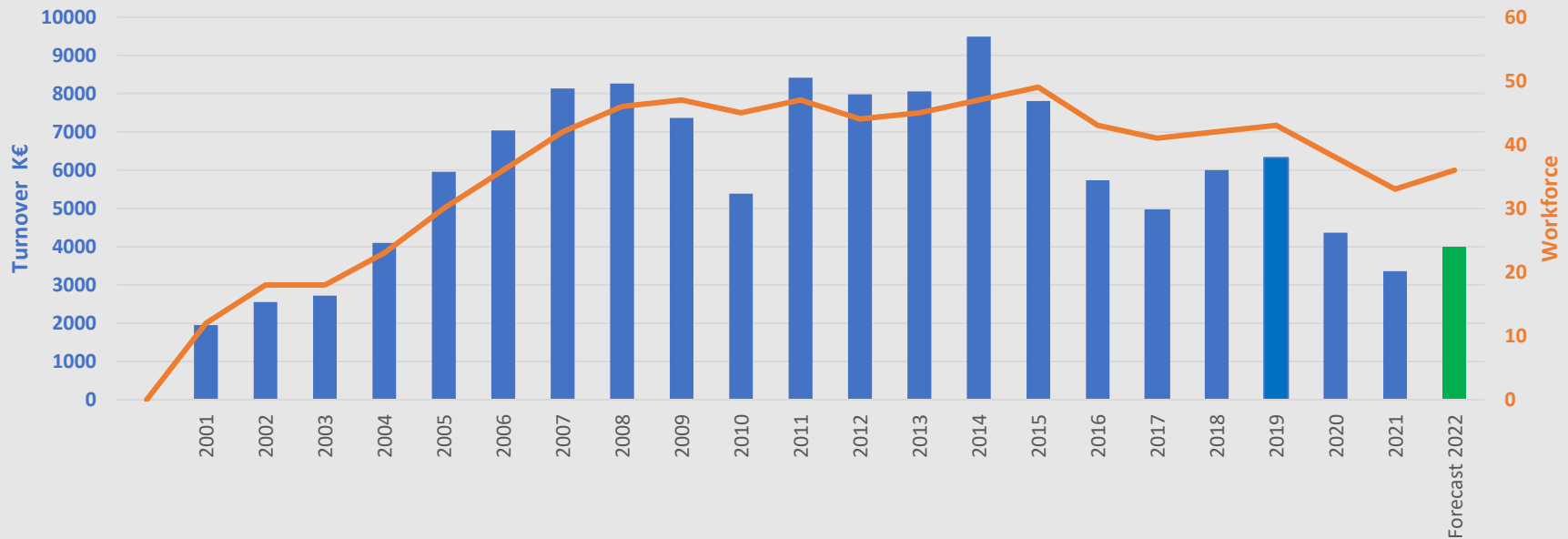


MECANIQUE GENERALE LANGROISE

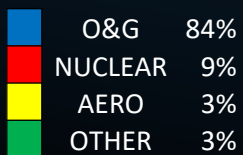


MGL in few numbers:

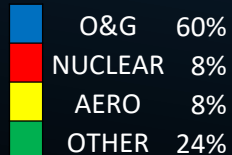
Evolution of Turnover & workforce



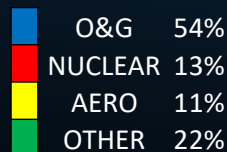
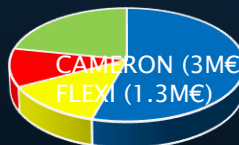
2016



2017



2019



2020



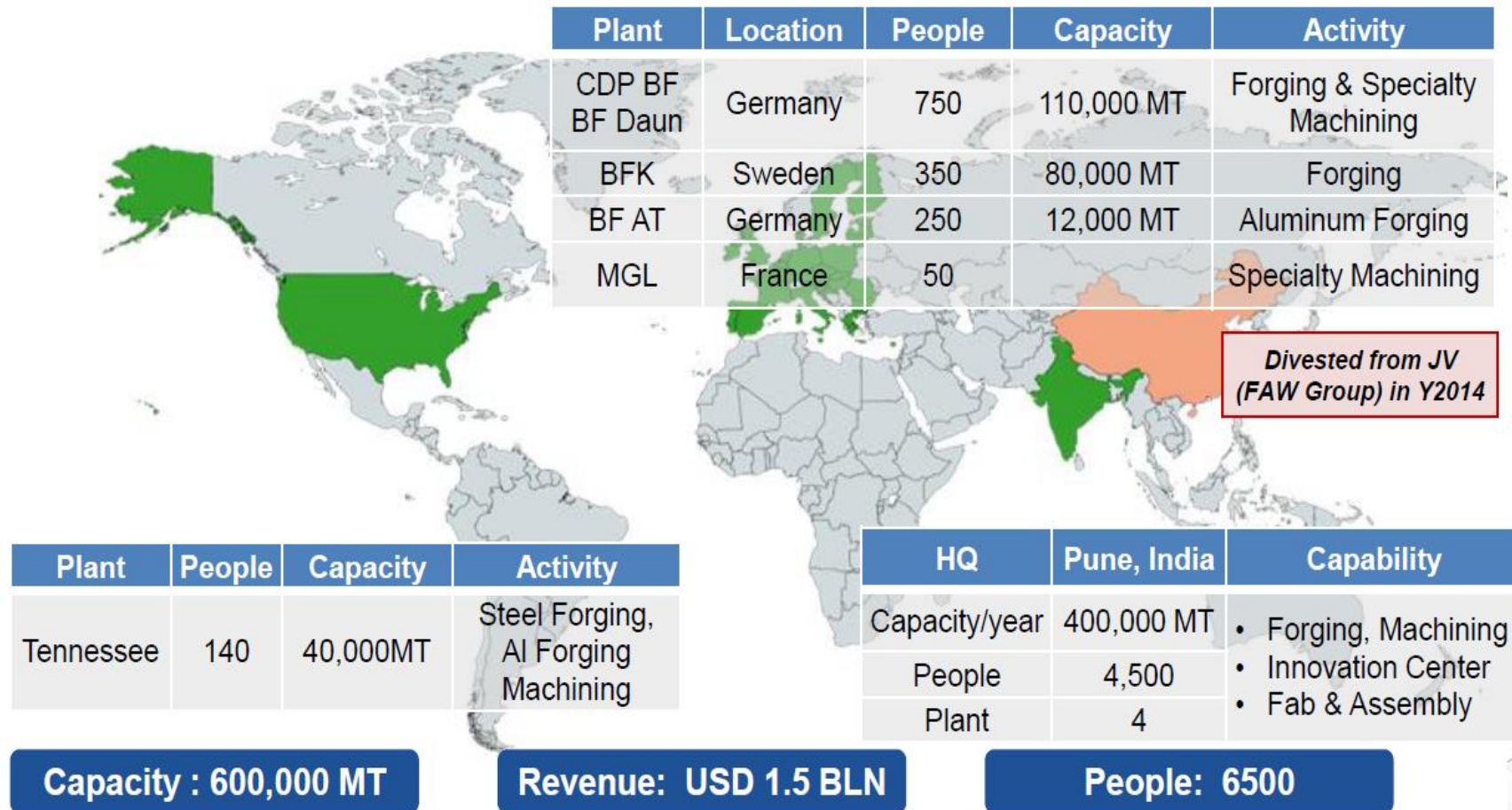
2021



MECANIQUE GENERALE LANGROISE

Since Jan 2015 MGL is part of the Bharat Forge Group

Bharat Forge : Global Footprint



MGL capabilities: 5 axis Turn Mill centers

2 center 5 Axis Turn Mill

DMG MORI NTX 4300 DCG/150

- Double spindle Dia 400 mm
- Double tool turret
- Range: Dia max 500 mm, Z max 1500 mm



2 centers 5 Axis Turn Mill

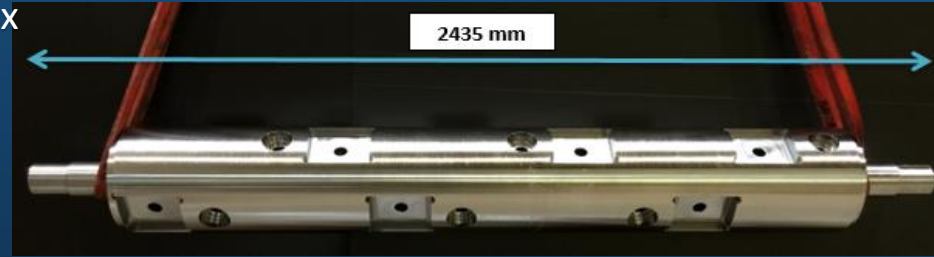
DGM MORI NTX 2000

- Double spindle Dia 250 mm
- Double tool turret
- Range: Dia max 250 mm, Z max 1500 mm



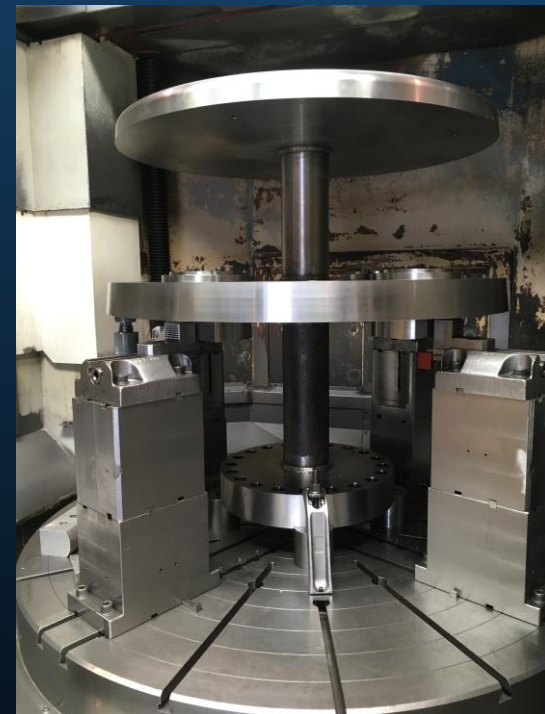
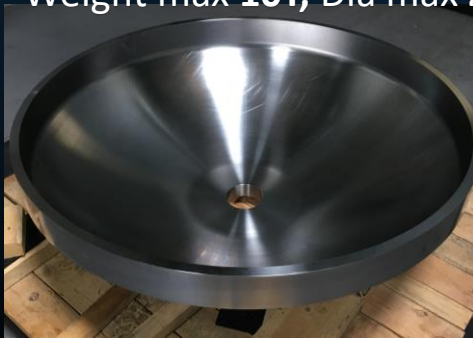
MGL capabilities: Turning

HORIZONTAL TURNING : 5 lathes CNC PUMA – DOOSAN Weight max **10T**, Dia max **900mm**, Z max **5030mm**



VERTICAL TURNING : 3 lathes CNC YOUJI VTL (2 or 3 axis)

Weight max **10T**, Dia max **2500mm**, Z max **1600mm**



MGL capabilities: Milling - Boring

Milling Boring Center

ALESA MONTI IDRM180, 5 axes

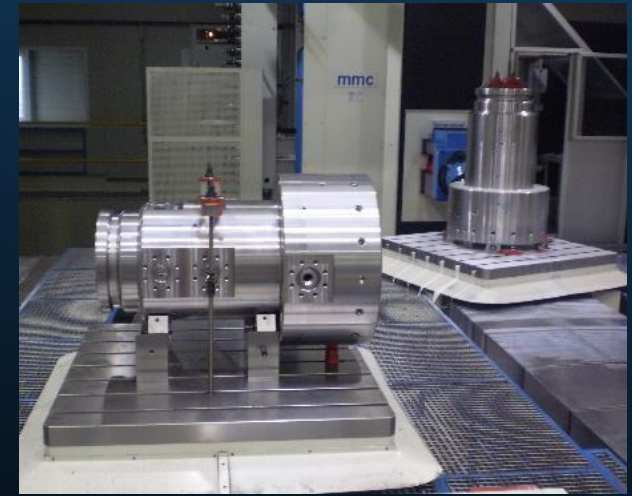
- Weight max 18T,
- X max 7000mm,
- Y max 4500mm,
- Z max 4500mm



Milling Boring Center

ALESA MONTI MMC65, 5 axes

- Weight max 18T,
- X max 4500mm,
- Y max 1500mm,
- Z max 1500mm

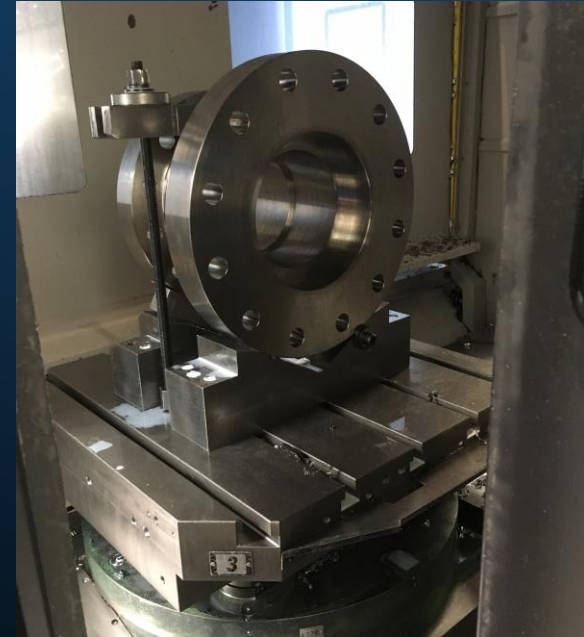
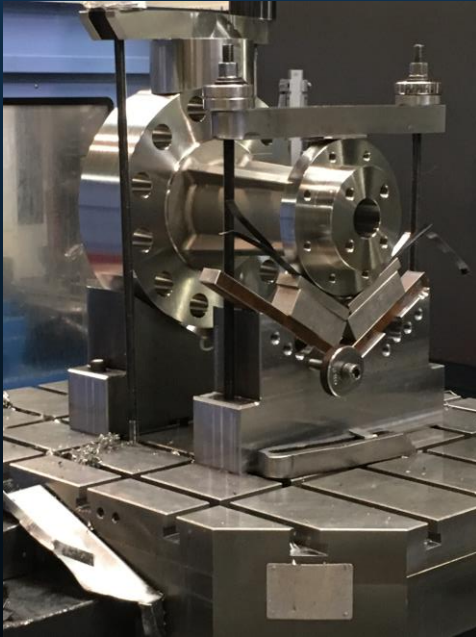


MGL capabilities: Milling

4 centers Horizontal Machining

DOOSAN, 4 axes

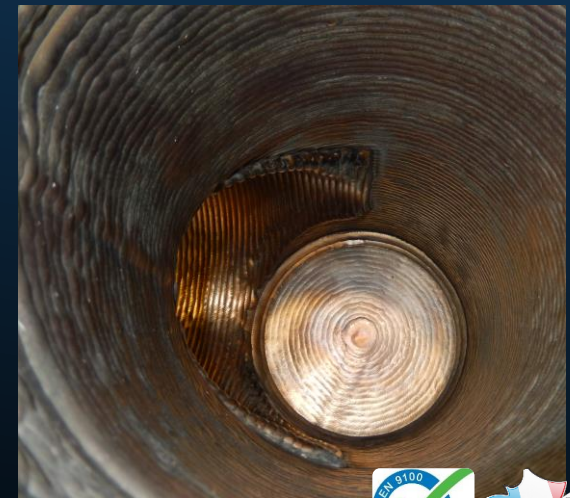
- Weight max 3.5T,
- X max 1250mm
- Y max 1000mm,
- Z max 1000mm



MGL capacités: Cladding - Welding

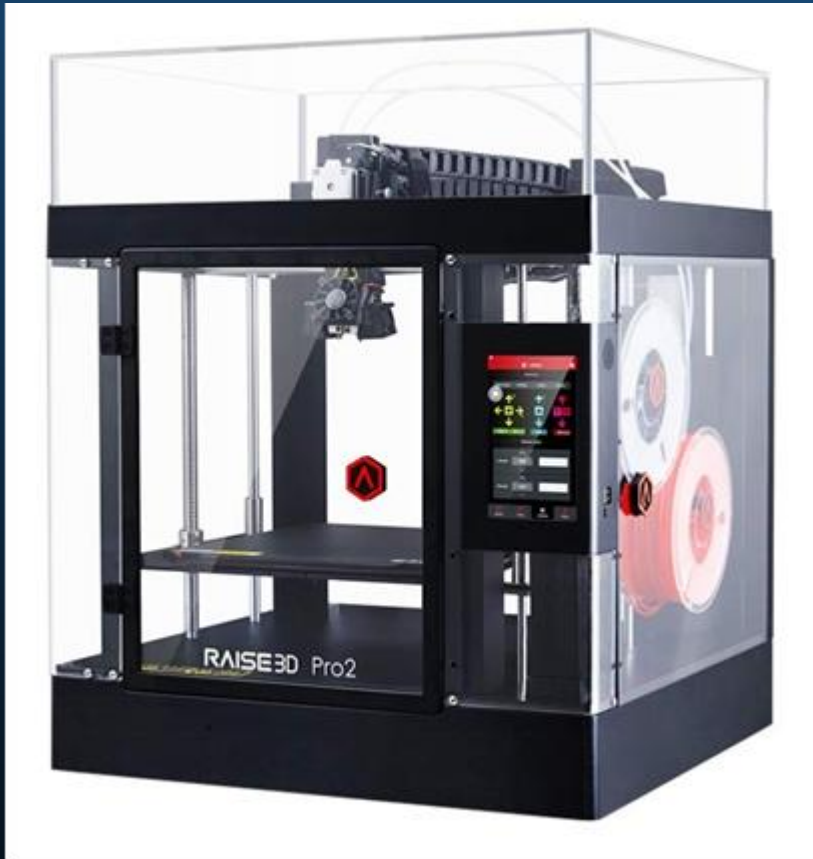
Qualified since 2006 to cladd / apply:

- **Nickel** (*Inconel 625*) / **Cobalt** (*Stellite grade 6 & 21*) / **Stainless steels**
- **TIG** / CMT (Cold Metal Transfer)
- Outer Dia max **2200** mm, Length **3900** mm
- Inner Dia min **35** mm, Length **1000** mm
- **Bore to bore** (intersecting bores)
- 3 motorized and automated stations
- 2 cells with 6 axis welding robots
- 3 Heat treatment furnaces (API qualified)
capacity up to 2500X1800X3000



MGL capacités: 3D Printing

3D RAISE PRO2: Max Volume 300x300x300mm



MGL Certifications QA/QC

1/1



CERTIFICAT N° FR.9001.00032

OSAC certifie que le Système de Management de la Qualité de
OSAC certifies that the Quality Management System of:

MECANIQUE GENERALE LANGROISE

Site hébergeant la fonction centrale (*Site that contains the central function*)
9 Rue du Stade
52200 Saints Geosmes, France

est conforme aux exigences requises par la norme :
meets the requirements of the standard:

ISO 9001 : 2015

pour le domaine d'activité :
for the scope:

Usinage, rechargement et contrôles non destructifs de pièces mécaniques pour les secteurs aérospatial et de la défense.

Machining, cladding and non-destructive testing of mechanical parts for the aerospace and defense sectors.

Date d'émission (Issue date) : 21/11/2019
Date de ré-émission (Re-issue date) : 26/08/2022
Date d'expiration (Expiry date) : 20/11/2022
Date de certification initiale (Original certification date) : 21/11/2016 (*certifié par un autre organisme de certification avant le 26/08/2022*)

Et reste valable sous réserve d'un fonctionnement satisfaisant du Système de Management de la Qualité lors des audits de surveillance. (*And remains valid subject to satisfactory surveillance audits*)


Houda JANHAOU - Directrice de Certification
Certification Manager


Des précisions sur la portée de ce certificat et l'applicabilité des exigences du système de management peuvent être obtenues en consultant l'organisme.
Pour vérifier la validité de ce certificat, appelez le +33 (0)1 41 46 10 50.
*Further clarifications regarding the scope of this certificate, the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity, please call +33 (0)1 41 46 10 50*

OSAC SAS, 14 Boulevard des Frères Voisin, Immeuble Zénéo, 92137 Issy-les-Moulineaux Cedex - France
Tél. : 33 (0)1 41 46 10 50 - Fax : 33 (0)1 46 42 65 39 - www.osac.aero



FDC-4-3 Ind.C

1/1



CERTIFICATE N° FR.9100.00013

The certification has been performed in accordance with the requirements of EN 9104-001:2013
La certification a été réalisée conformément aux exigences de la norme EN 9104-001: 2013

OSAC certifies that the Quality Management System of:
OSAC certifie que le Système de Management de la Qualité de ::

MECANIQUE GENERALE LANGROISE

Site that contains the central function (*Site hébergeant la fonction centrale*)
9 Rue du Stade
52200 Saints Geosmes, France

meets the requirements of the standard:
est conforme aux exigences requises par la norme :

EN 9100:2018

for the scope:
pour le domaine d'activité :

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OSAC accrédité dans le système ICCP


Houda JANHAOU - Certification Manager
Directrice de Certification


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FDC-4-8 Ind.C



MECANIQUE GENERALE LANGROISE



MGL capabilities: QA/QC

Dimensional Control

3D Measuring Machine DEA ALPHA

X = 2000mm / Y = 3300 mm / Z = 1500 mm

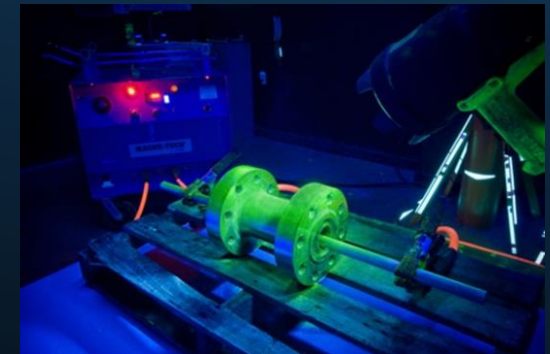
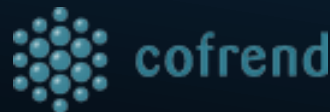
3D Measuring arm ROMER 7525HA

Measuring Range 2.5 m

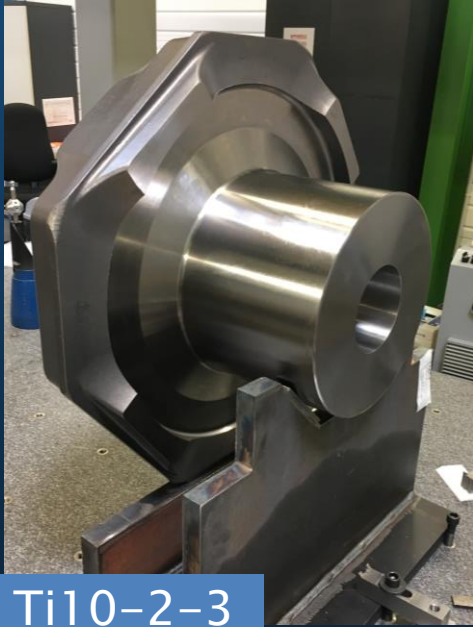


NDT Control (per COFREND / ISO 9712)

- ❖ Ultrasonic Inspection, LEVEL UT2 & UT3
- ❖ Magnetic Particles Inspection, LEVEL MT2 & MT3
- ❖ Liquid Penetrant Inspection, LEVEL PT2 & PT3
- ❖ Visual Inspection, LEVEL VT2
- ❖ PMI, Positive Material Identification (XRay gun)



MGL, samples of what we've delivered...Aerospace & Defense.



Ti10-2-3



Inco 625



Alu 7050

Wheels, helicopter rotors, hemisphere for aerospace launchers, main strut



Inco 718



TA6V PQ



KC25NW



TAV6V PQ



MGL, samples of what we've delivered...Oil & Gas.



Components of Risers, Tubing spools, Blow Out Preventer, Uniheads, T bodies, Clamp



Cladded Connecting block

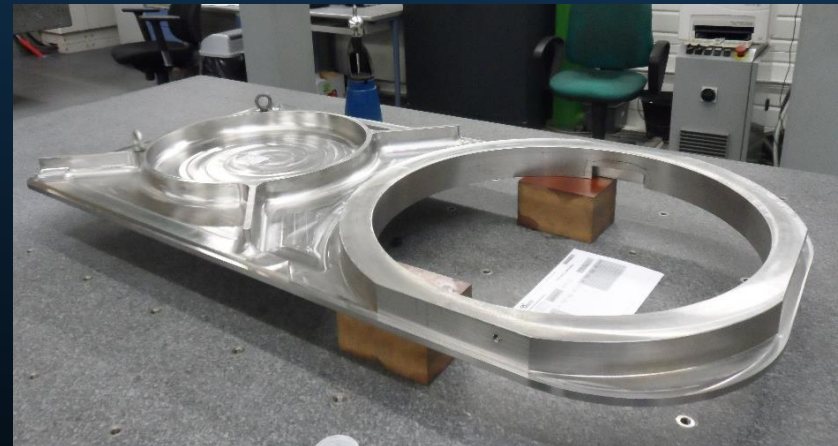
Cladded Swivel



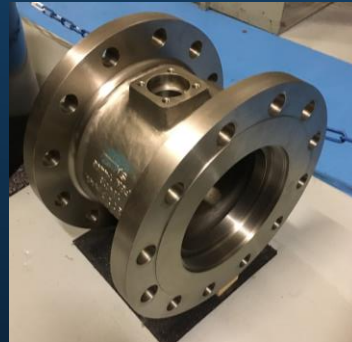
MGL, samples of what we've delivered...Nuclear.



Stellite cladded valves



MGL, samples of what we've delivered...Industry.



Hydraulic press table



Water filters



MECANIQUE GENERALE LANGROISE



MGL, samples of what we've delivered...Industry.



Dilatation compensator



Press die for automotive



Turbine elements



Thank you.

