

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:

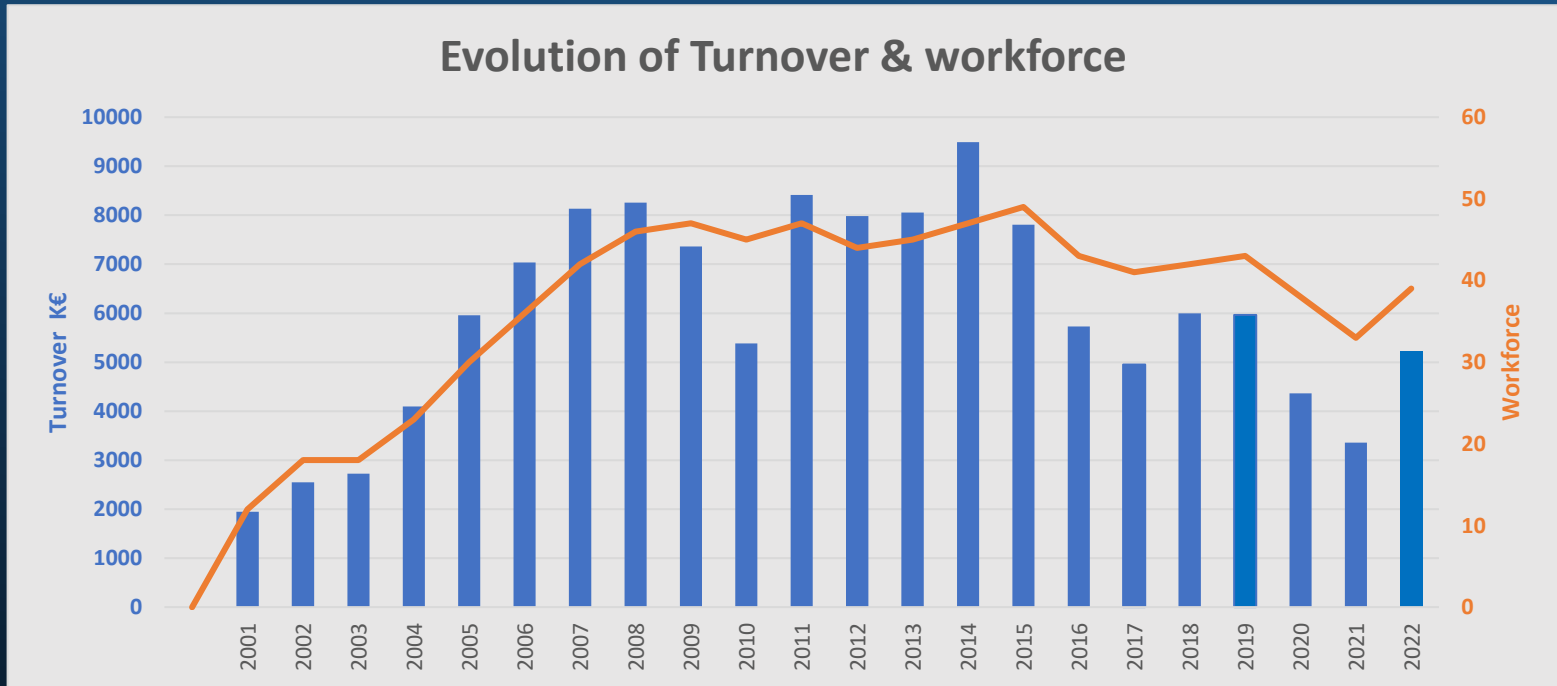
- Oil & Gas
- Nuclear
- Aerospace
- Defense

Material grades :

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



MGL in few numbers:

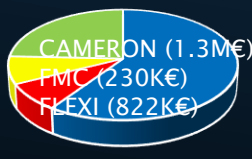


2016



O&G	84%
NUCLEAR	9%
AERO	3%
OTHER	3%

2017



O&G	60%
NUCLEAR	8%
AERO	8%
OTHER	24%

2019



O&G	54%
NUCLEAR	13%
AERO	11%
OTHER	22%

2020



O&G	71%
NUCLEAR	1%
AERO	10%
OTHER	18%

2022

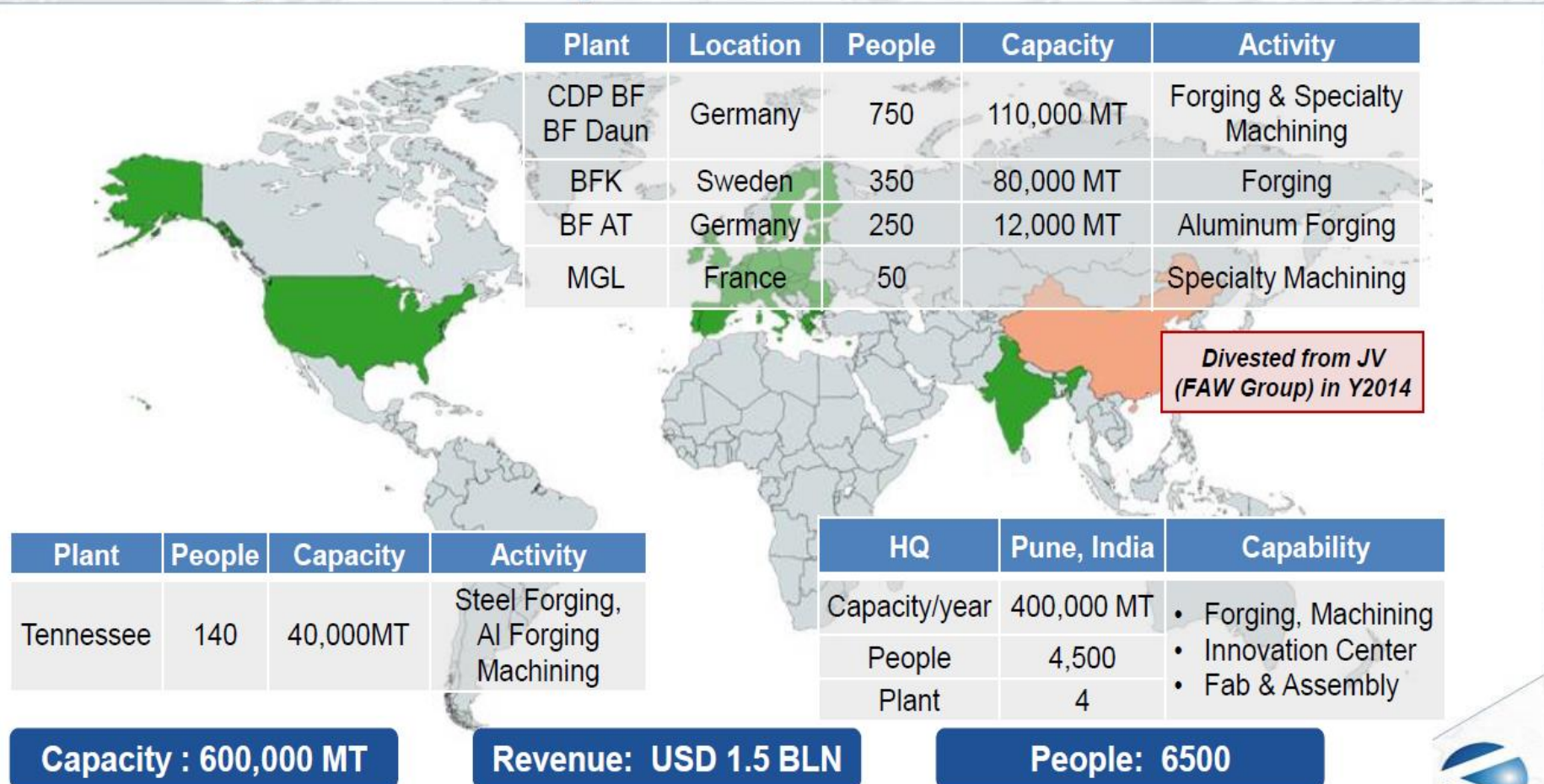


O&G	68%
NUCLEAR	4%
AERO	9%
OTHER	20%



Since Jan 2015 MGL is part of the Bharat Forge Group

Bharat Forge : Global Footprint



MGL capabilities: 5 axis Turn Mill centers

2 centers 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



1 center 5 Axis Turn Mill

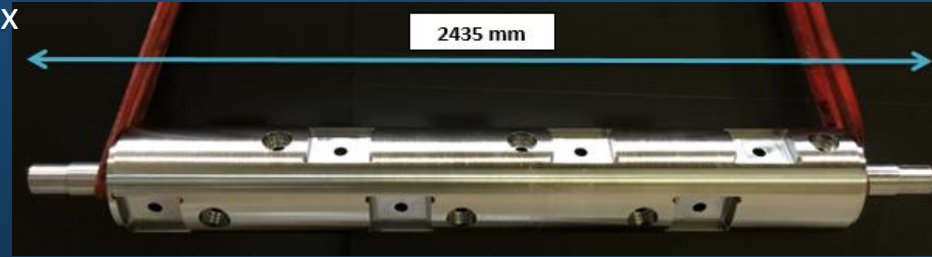
DGM MORI NTX 2000

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



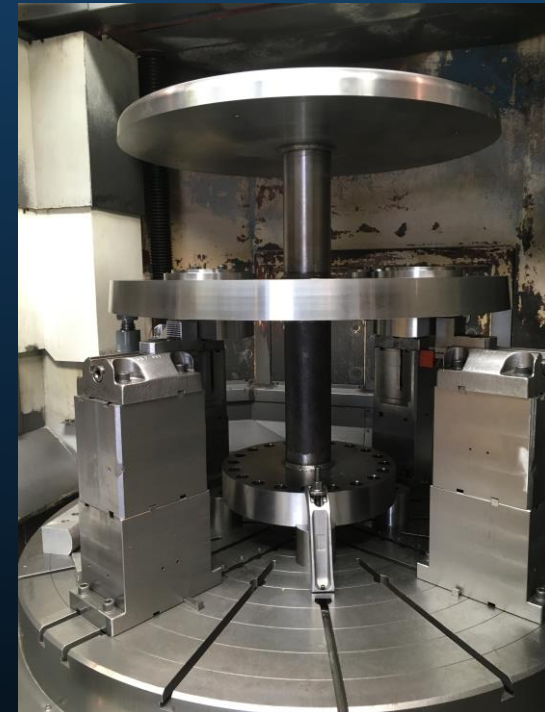
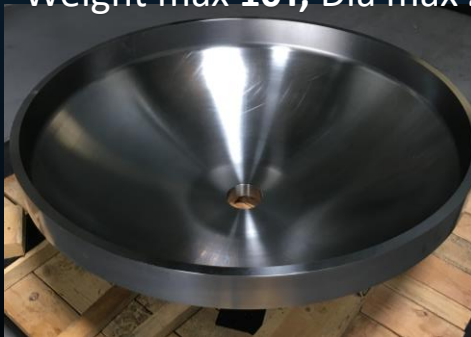
MGL capabilities: Turning

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 IDR180, 5 axes

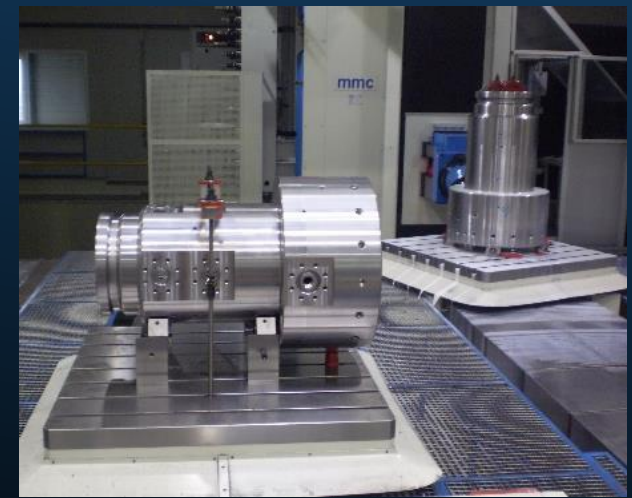
- Weight max 18T,
- X max 7000mm,
- Y max 4500mm,
- Z max 4500mm



Milling Boring Center

ALESA MONTI MMC65, 5 axes

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

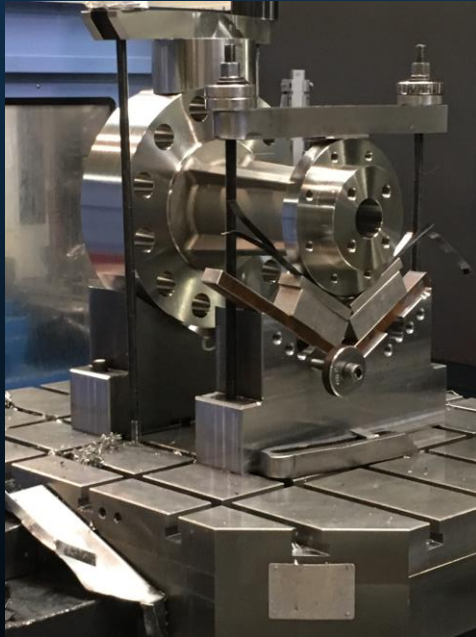


MGL capabilities: Milling

4 centers Horizontal Machining

DOOSAN, 4 axes

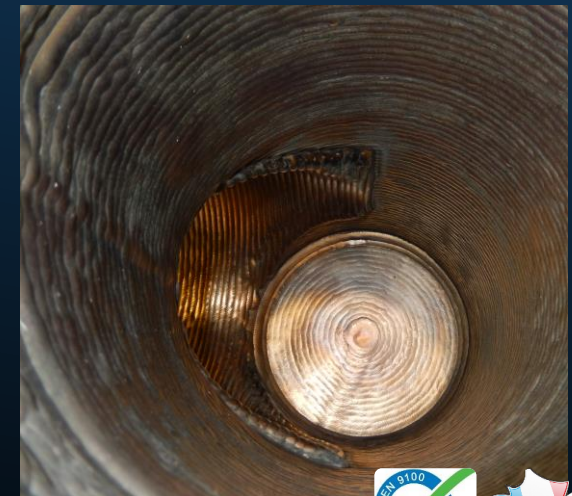
- Weight max 3.5T,
- X max 1250mm
- Y max 1000mm,
- Z max 1000mm



MGL capacités: Cladding - Welding

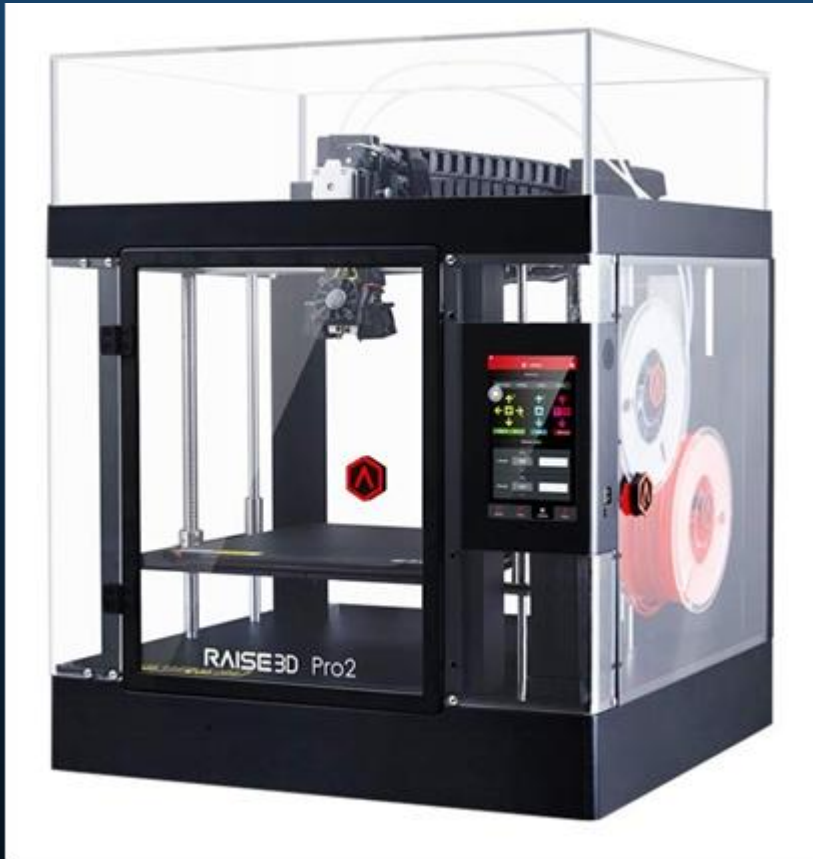
Qualified since 2006 to cladd / apply:

- **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/r1
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.
Machining, cladding and non-destructive testing of mechanical parts.

Date d'émission (Issue date) : 21/11/2022
Date d'expiration (Expiry date) : 20/11/2025
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 JANHAOUI - 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



F2DC-4-3 Ind.C

1/1



CERTIFICATE N° FR.9100.00013/r1
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 :

Machining of mechanical parts for the aerospace and defense sectors.
Usinage de pièces mécaniques pour les secteurs aérospatial et de la défense.

Issue date (Date d'émission) : 21/11/2022
Expiry date (Date d'expiration) : 20/11/2025
Original certification date (Date de certification initiale) : 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.


Houda JANHAOUI - Certification Manager
Directrice de Certification



OSAC accrédité dans le schéma ISO/IEC 17021



Accréditation N° 4-0203
Portée élargie sur www.osac.fr

Further clarifications regarding the scope of this certificate, the applicability of the management system requirements may be obtained by consulting the organization.
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*Des précisions sur la portée de ce certificat et l'applicabilité des exigences du système de management peuvent être obtenues en consultant l'organisme.
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F2DC-4-8 Ind.C



MECANIQUE GENERALE LANGROISE

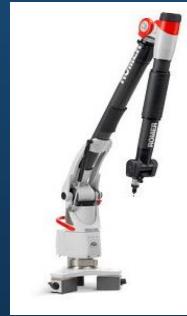


MGL capabilities: QA/QC

Dimensional Control

3D Measuring Machine DEA ALPHA

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



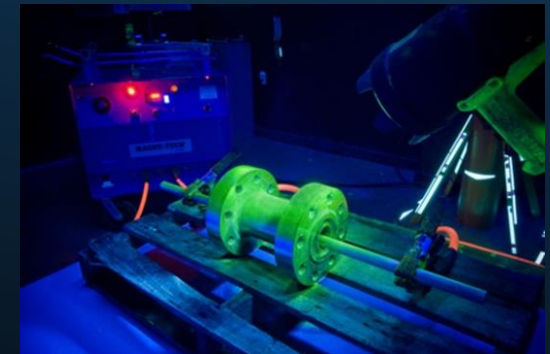
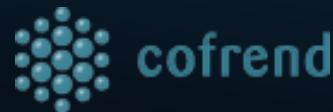
3D Measuring arm ROMER 7525HA

Measuring Range 2.5 m

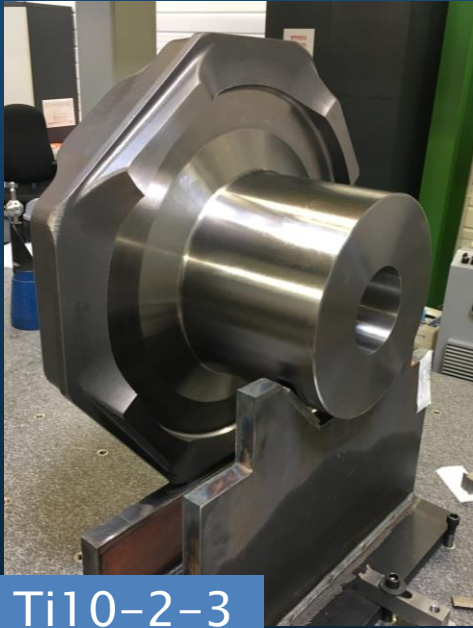


NDT Control (per COFREND / ISO 9712)

- ❖ 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



Inco 718

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



TA6V PQ



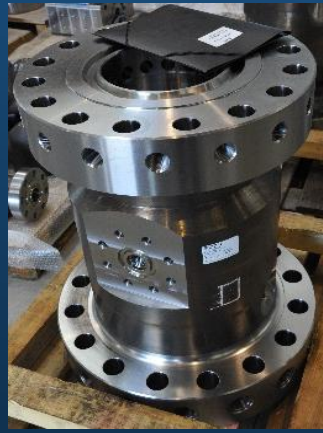
KC25NW



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

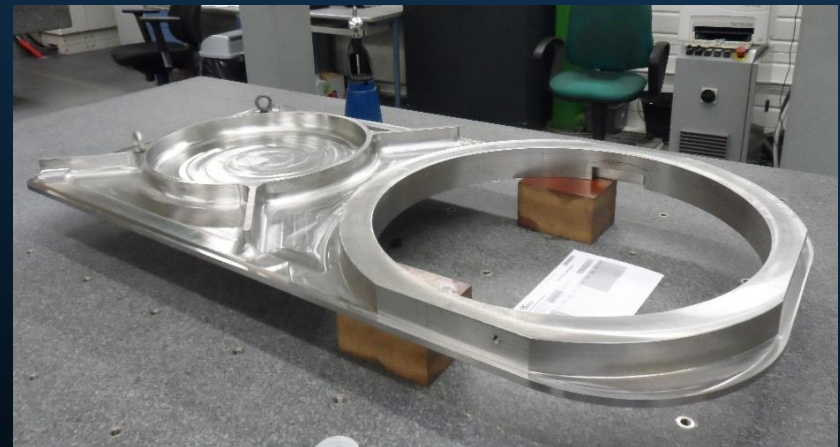
Cladded Swivel



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



Stellite cladded valves



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



Hydraulic press table



Water filters



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



Dilatation compensator



Press die for automotive



Turbine elements



Thank you.

