Mécanique Générale Langroise

June 2019
Saints Geosmes

Who MGL is ?

One Partner, One Global Service

Forging, Machining, Cladding, NDT, Heat Treatment

- Created n 1996
- 41 employees
- Based in Langres (France)

- 4500 m2 of shop floor
- 17 CNC machines
- 5 cladding cells
- 4500 h/mois

We supply key players on the following markets:

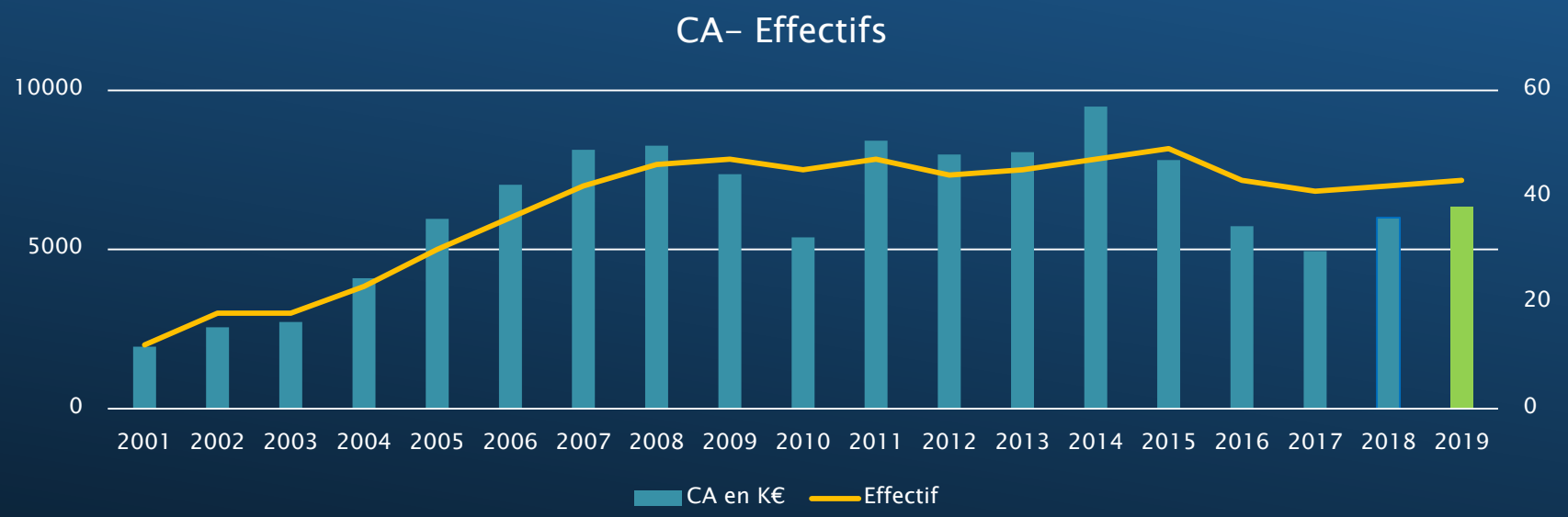
- **Oil & Gas**
- **Nucleare**
- **Aerospace**
- **Defense**

Material grades :

- **Carbon Steels & Satinless Steels**
- **Inconel, Duplex/Super Duplex , Stellite**
- **Titane, Aluminum, Composites**

Schlumberger, TechnipFMC, SAFRAN, AHD, HUTCHINSON, VELAN, DAHER, EMERSON, ANDRITZ, jean gallay sa, AREVA, AUBERT&DUVAL, MECACHROME

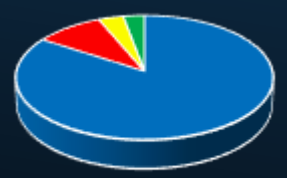
MGL in few numbers:



2014

PETROLE	95%
NUCLEAIRE	1%
AERO	0%
AUTRES	4%

2016

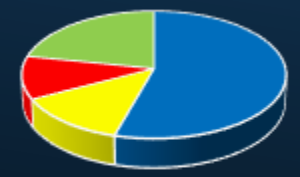


PETROLE	84%
NUCLEAIRE	9%
AERO	3%
AUTRES	3%

2017

PETROLE	60%
NUCLEAIRE	8%
AERO	8%
AUTRES	24%

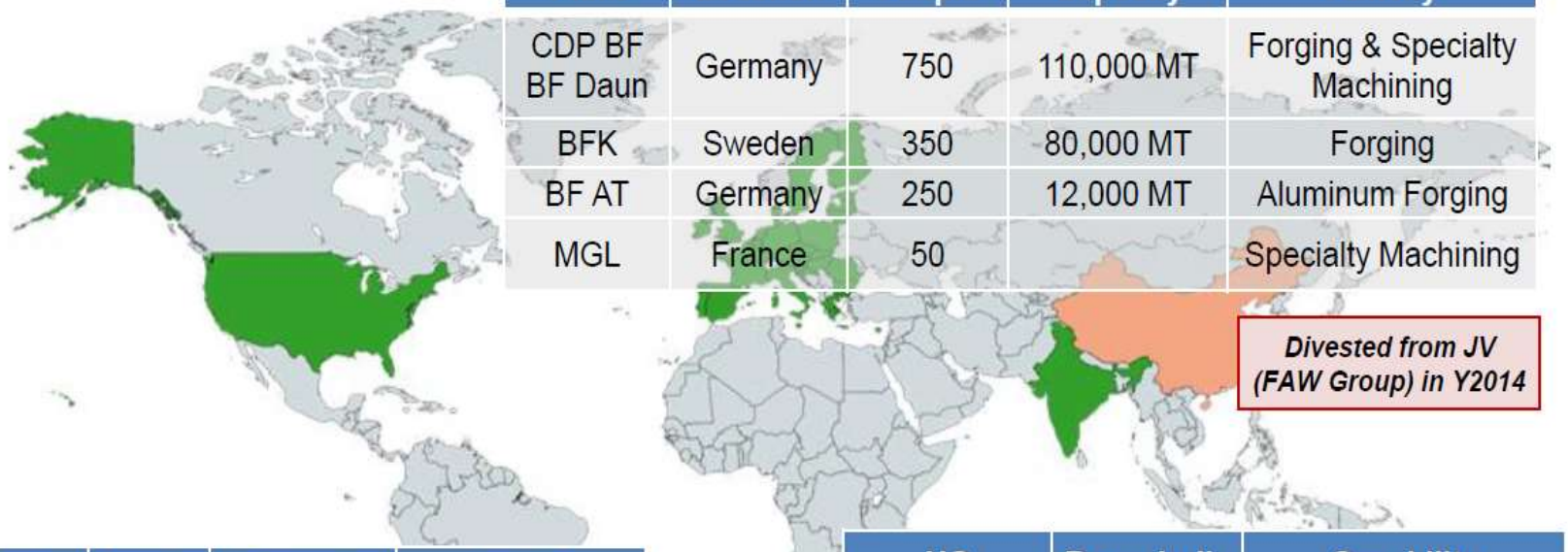
2019



PETROLE	54%
NUCLEAIRE	13%
AERO	11%
AUTRES	22%

Since Jan 2015
MGL is part of the Bharat Forge Group

Bharat Forge : Global Footprint



Plant	Location	People	Capacity	Activity
CDP BF BF Daun	Germany	750	110,000 MT	Forging & Specialty Machining
BFK	Sweden	350	80,000 MT	Forging
BF AT	Germany	250	12,000 MT	Aluminum Forging
MGL	France	50		Specialty Machining

Divested from JV (FAW Group) in Y2014

Plant	People	Capacity	Activity
Tennessee	140	40,000MT	Steel Forging, Al Forging Machining

HQ	Pune, India	Capability
Capacity/year	400,000 MT	• Forging, Machining • Innovation Center • Fab & Assembly
People	4,500	
Plant	4	

Capacity : 600,000 MT **Revenue: USD 1.5 BLN** **People: 6500**

KALYANI

MGL capabilities: 5 axis Turn Mill

1 * 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 * 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 x CNC PUMA – DOOSAN

Weight max **10T,** Dia max **900mm,** Z max **5030mm**

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

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

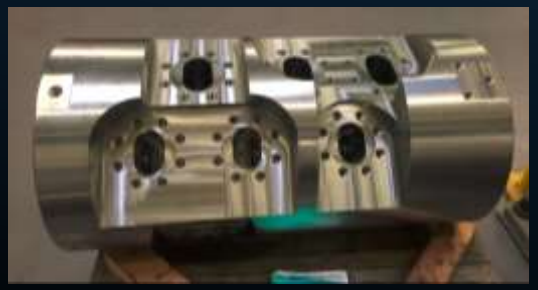
MGL capabilities: Milling - Boring

Milling Boring Center
ALESA MONTI IDRM180, 5 axes

- Weight max **40T,**
- X max **7000mm,**
- Y max **4500mm,**
- Z ma**x 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 * Horizontal Machining Center

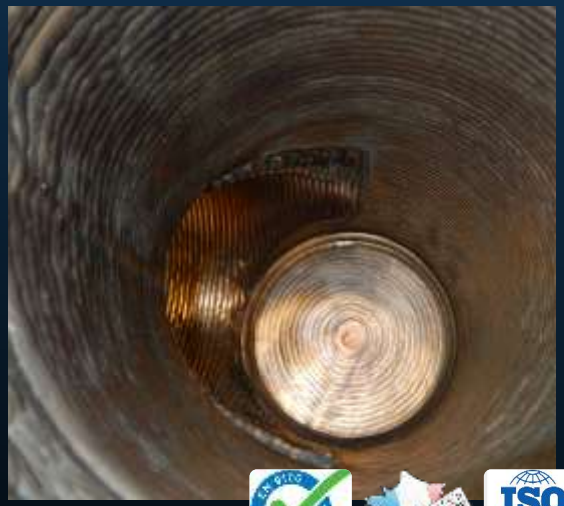
DOOSAN, 4 axes

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

MGL capabilités: Cladding - Welding

Qualified to cladd / apply:

- **Nickel** *(Inconel 625)* / **Cobalt** *(Stellite grade 6 & 21)* / **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 potences
- 2 cells with 6 axis welding robots
- 3 annealing furnaces (API qualified)



MGL Certifications QA/QC

SGS TÜV SAAR

SGS

Certificat DE12/711040900

Le système de management de

MECANIQUE GENERALE LANGROISE MGL

9, rue du Stade
F-52200 Saints-Geosmes

a été audité et certifié selon les exigences de

ISO 9001:2015

Pour les activités suivantes

Usinage, rechargement et contrôles non destructifs de pièces mécaniques pour les industries de l'énergie

Ce certificat est valable du 23.11.2017 au 29.10.2018 et reste valide jusqu'à décision satisfaisante à l'issue des audits de suivi. L'audit de renouvellement doit avoir lieu avant 21.10.2018

Version 3

Date d'audit de certification: 17.10.2017
Date d'expiration du précédent certificat: 29.10.2018

Autorisé par

ppa. Jan Meerman
Director CBE Germany

Hagen Senne
Head of Certification Body

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e-mail: de.cbe.certifizierung@sgs.com www.sgs-tuv-saar.com

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DAkkS
Deutsche Akkreditierungsstelle
D-ZM-12088-01-00

SGS

Certificate FR 16/81842412

The certification has been performed in accordance with the requirements of EN 9100:2018

MECANIQUE GENERALE LANGROISE

9 rue du Stade
52200 SAINTS-GEOSMES
France

Has been assessed and registered as meeting the requirements of

NF EN 9100 : 2018

For the following activities

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

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

Certificate Issue Date: 21 November 2018
Issue 3, Certificate Reissue Date: 14 December 2018
Certificate Expiry Date: 20 November 2018
This certificate remains valid subject to satisfactory surveillance audits.
First certification Date: 21 November 2018

Authorised by

SGS-ICS
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Accredited under the SGS Scheme

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SGS

MGL capabilities: QA/QC

Certifications: ISO 9001-2015 EN 9100

Quality Control

3D Measuring Machine DEA ALPHA

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

3D Measuring arm ROMER 7525HA

Measuring Range 2.5 m

- Ultrasonic Inspection, COFREND LEVEL UT2 & UT3
- Magnetic Particles Inspection, COFREND LEVEL MT2 & MT3
- Liquid Penetrant Inspection , COFREND LEVEL PT2 & PT3
- Visual Inspection, COFREND LEVEL VT2
- PMI, Positive Material Identification

cofrend

MGL, samples of what we've delivered…Aéronautic.

Ti10-2-3

Inco 625

Inco 718

TA6V PQ

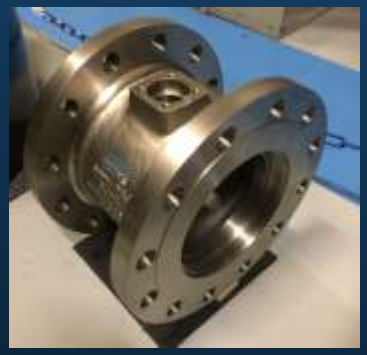
KC25NW

TAV6V PQ

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

MGL, samples of what we've delivered…Nucleare.

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



MECANIQUE GENERALE LANGROISE

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

MECANIQUE GENERALE LANGROISE

MGL Proposal:

- Recognized long term O&G experience & expertise,
- Used to work as per highest quality standards,
- Cost competitive,
- Local and responsive,
- Backed up by a global industrial group.

Willing to prove MGL can become a key partner:

- meeting Customer's requirements & expectations,
- adding value to Customer's products,
- Supporting Customer's complete manufacturing process.

Thank you.