

• Safety Rules

anium



In order to guarantee an enjoyable visit, thanks to follow these few safety rules in the production hall :

SAFETY

- Wear personal protective equipment (helmet, eyewear, earplugs, safety shoes and reflective jacket).



- Be careful at the handling devices and travelling forklifts.



- Do not cross safety fences.
- Do not touch products (danger of getting burned and/or cut).

If you see an accident, please warn ASAP a first-aid worker. They are easy to recognize thanks to a green helmet.



SHARED VIGILANCE

If you see a hazardous situation, feel free to inform us.

QUALITY PRODUCT

Do not use source of tungsten pollution : ballpoint pen, filament lamp, drill tools...

ENVIRONMENTAL

- Save energy (water and electricity).
- If you see a leakage, please inform us ASAP.

EVACUATION

If you hear the emergency alert system, follow your guide to **the meeting point** situated near the entrance.



• Safety Rules

anium

UKAD

- It is forbidden to take pictures .



- Switch off your mobile devices.



- It is forbidden to smoke in walking areas.



- Using pen (or any other thing) containing tungsten is absolutely forbidden in the EcoTitanium shop. Only use EcoTitanium pen.



2 UKAD

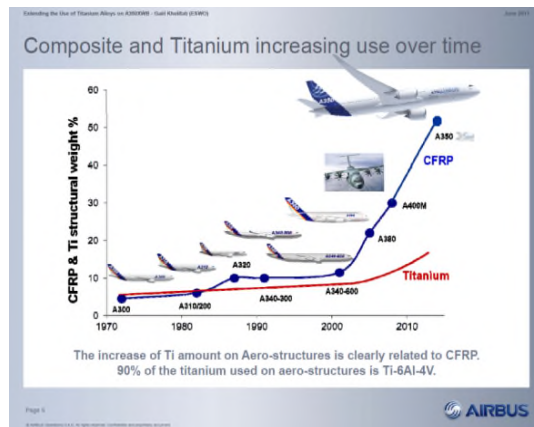


• The Raison d'Etre of UKAD



The creation of UKAD was driven by :

- The increase of Ti material in airplane structures
- The UKTMP strategy with Ti downstream development,
- The Aubert et Duval strategy with Ti upstream development,
- The support of Airbus with a 10 years sales agreement,
- The French local authorities support,



• The Foundation of UKAD



UKAD is a joint-venture which combines, in the titanium market, the strengths of 2 companies :

➤ Aubert & Duval



➤ UKTMP



UKTMP is a Kazakh registered company. Well known for its high level of Titanium sponge quality :

- Ilmenite mining operation
- Titanium slag production
- Titanium tetrachloride and magnesium production
- Titanium sponge production
- Titanium melting facility



UKTMP plant in Kazakhstan

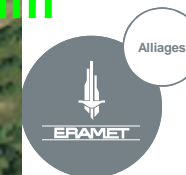
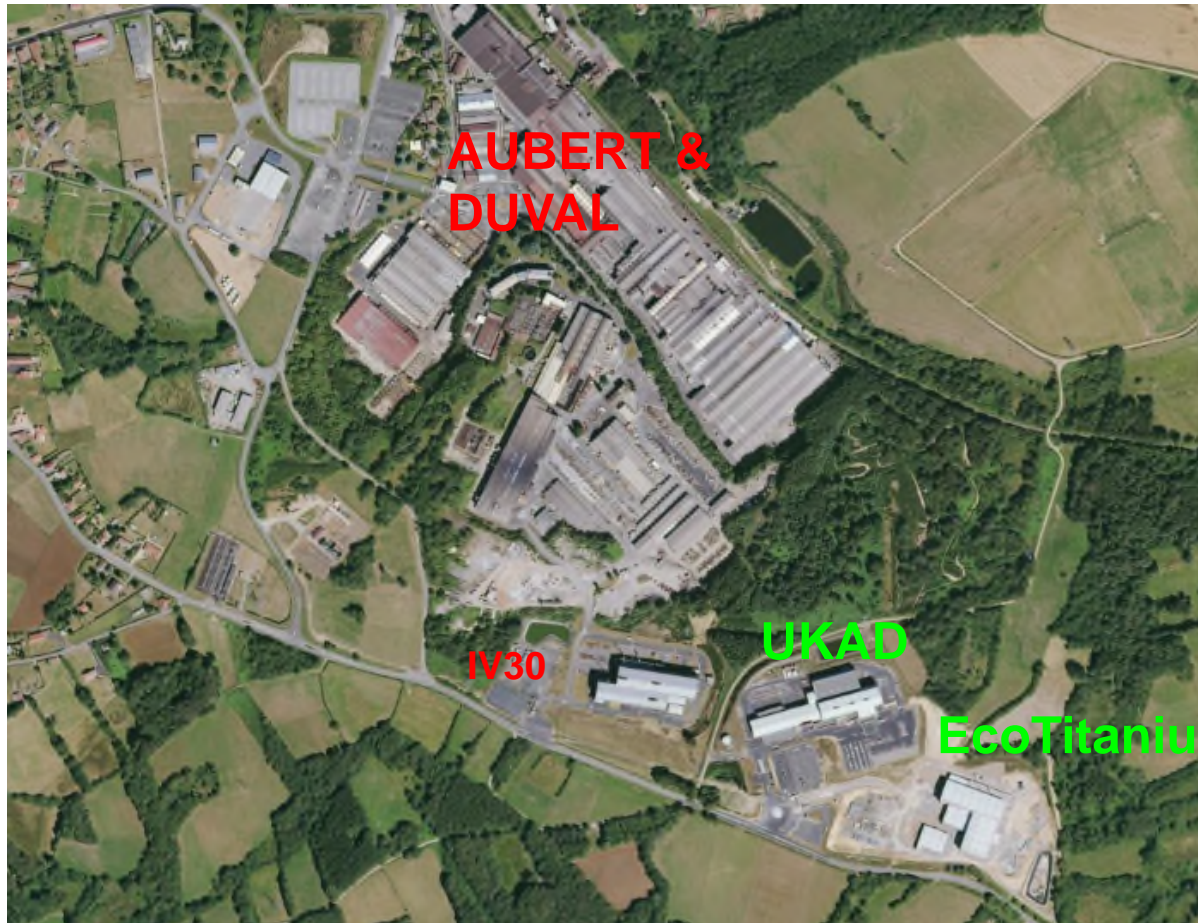


- UKTMP in pictures



Alliages

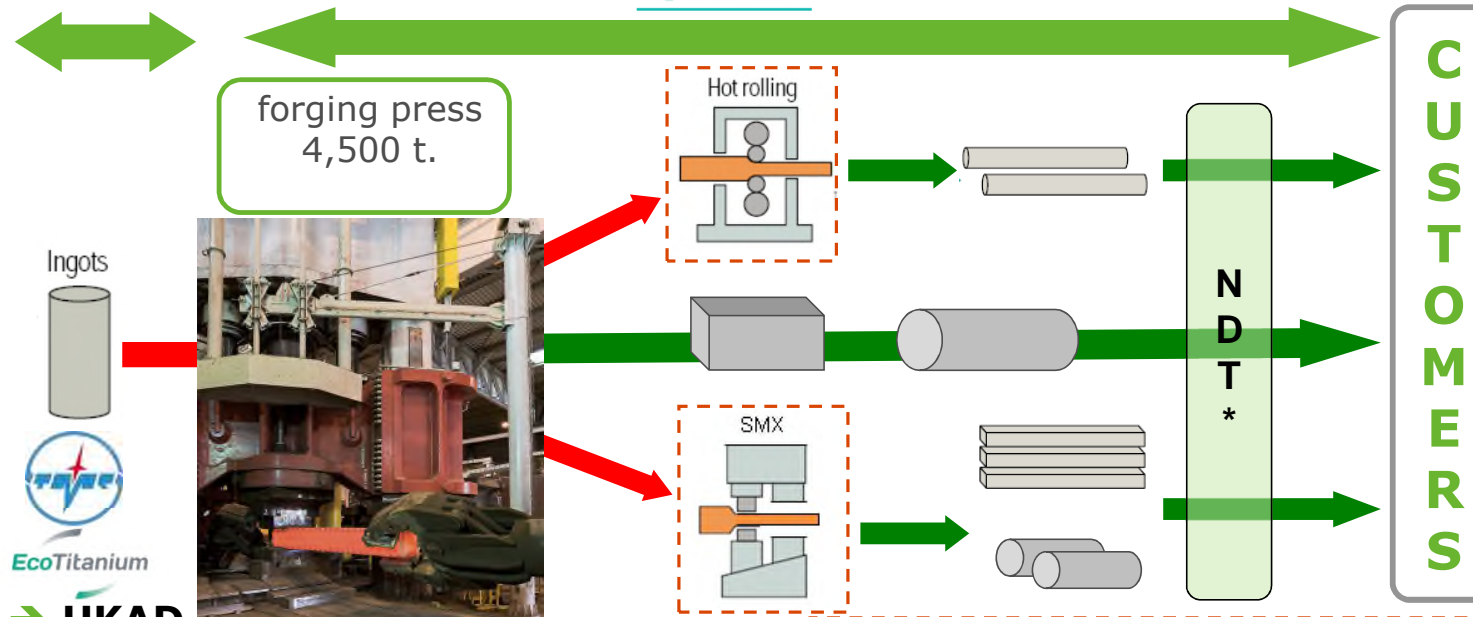
- **Location**



• The Process of UKAD



Lingots



→ UKAD :

- Ingots from 7 (titanium) to 18 t
- Blooms and billets (round) from 85 to 450 mm in Ø and 4 to 6 m long, rectangular bars.
- Bars below 80 mm in 2019, allowed by new investment in Aubert et Duval.

Operations subcontracted to Aubert & Duval



Worldwide Aeronautical Market

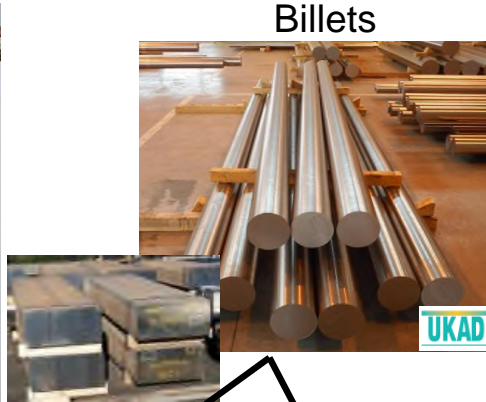


CUSTOMERS

UKTMP



Ti Alloy Ingot



Billets



• Fasteners and Medical Market

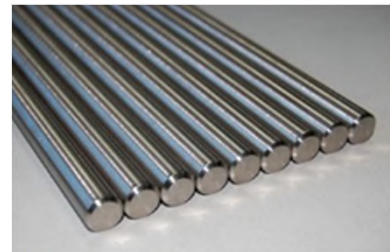


UKTMP



Ti Alloy Ingot

Ingot → Blooms → Bars



CUSTOMERS

Aeronautical fastening market



Orthopedic Implants



• Oil and Gas, Industrial Market



UKTMP



Ti CP or Ti Alloy Ingot

Ingot → Blooms, Billettes



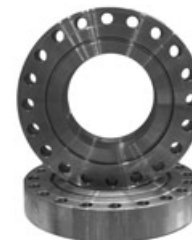
CUSTOMERS



Welding Neck



Covers and flanges



• UKAD certifications



- ISO 9001 and AS 9100, last approval Dec 2018
- ISO 14 001 and OHSAS 18001, last approval Dec 2018
- Ultra Sonic Nadcap Certification in Dec 2014, confirmed in 2015, 2016 and in April 2018.
- **Airbus :**
 - IPCA Jan 2013 « C » → IPCA+ 28 Jan 2016 « B »
- **UKAD** delivers billets and bars in accordance with **AMS 4928** and Ultra Sonic tested in accordance with **AMS 2631**.



- UKAD Awards**



Best Improver Award

UKAD
 For demonstrated improvement of performance in 2015,
 Strong continuous improvement and customer-oriented approach,
 In line with Airbus targets and expectations.

Klaus RICHTER Chief Procurement Officer AIRBUS Group & AIRBUS	Olivier CAUQUIL Senior VP, Head of Material and Parts Procurement, Chairman of the Airbus Group Material board	Thomas MOIK Senior VP, Head of Procurement Operations	Thierry VUILLEQUEZ VP Supply Chain & Quality, Procurement Operations Material & Parts



For two years running, UKAD was awarded by Airbus :
 Best Improver Award 2014 and 2015 .



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