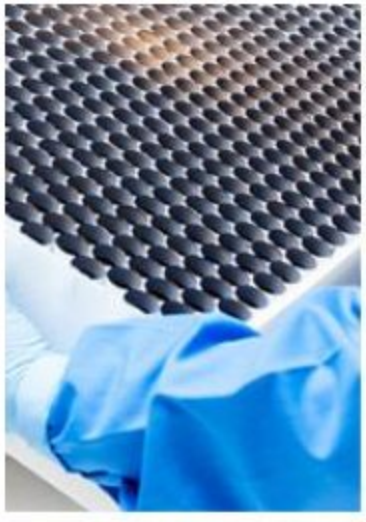


WITTE Y SOLÁ

PACKAGING PARTNER

Aluminium tubes and Accessories

www.wys.es

WITTE Y SOLÁ, S.A.

was founded in 1968 together with German partners but since 1974 it is wholly owned by the Solà family.

WITTE Y SOLÁ

10.700m²
TOTAL AREA

165
EMPLOYEES

ALUMINIUM TUBES: 7 LINES

Capacity of **200M** tubes per year

Ø 13,5-16-19-22-25-28-30-32-35-40.

From **2 to 200** ml.

WITTE Y SOLÁ, S.A.

In 1990, WYS acquires the company Amfer which currently produces 80% of our caps.

AMFER

1.200m²
TOTAL AREA

8
EMPLOYEES

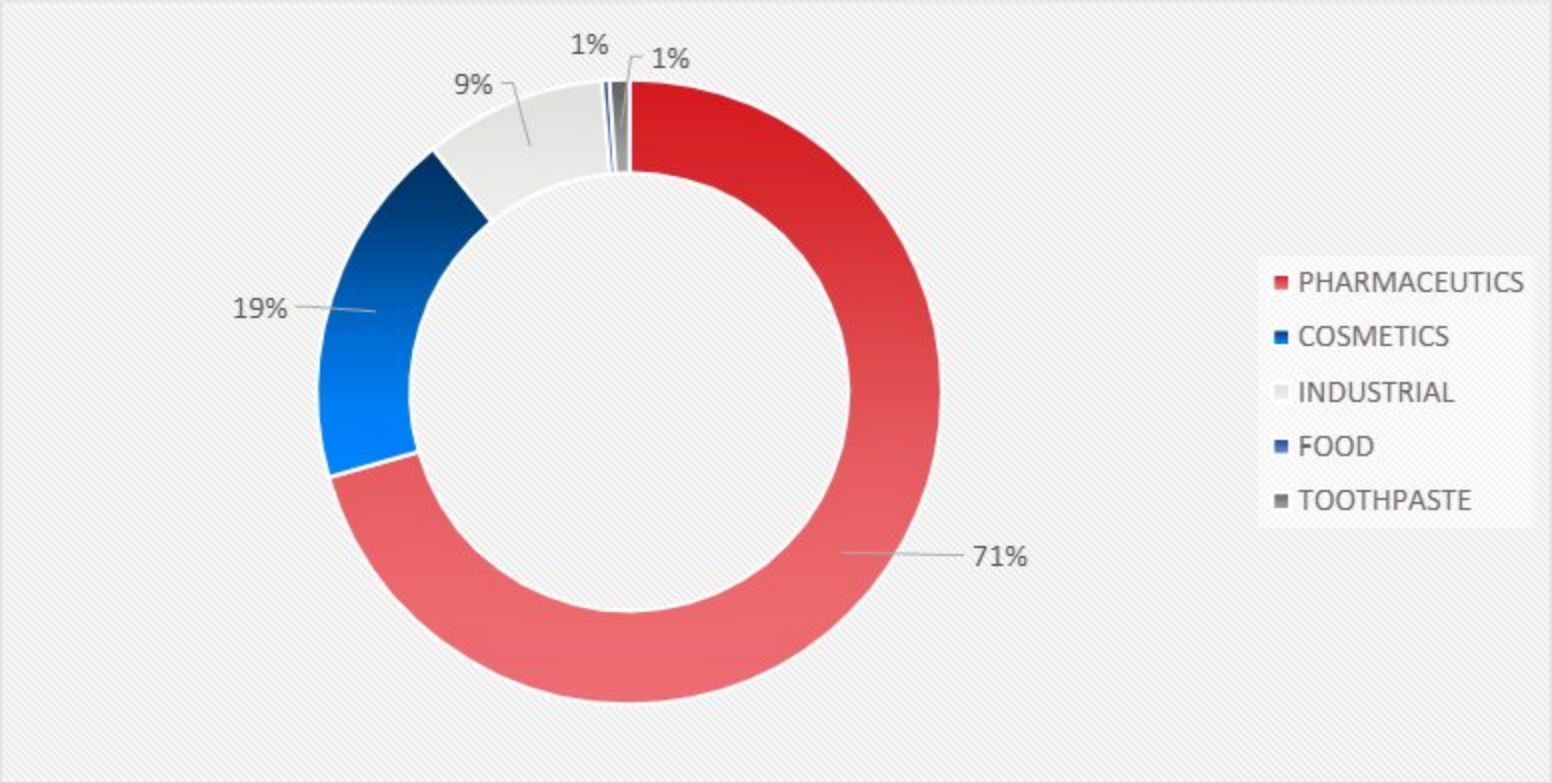
OUR HISTORY

WITTE Y SOLÁ

1968	German-Spanish foundation of Witte y Solá
1974	100% ownership by the Solá family
1983	The entire production lines are renewed
1990	Start to export. Witte y Solá buys Amfer, a cap injection company
1996	First manufacturer of aluminium tubes with UNE-EN-ISO 9002
1998	Builds its own aluminium manufacturing machines
2001	Implementation of the ERP-SAP, A3 and Scada
2007	First manufacturer of aluminium tubes with a Clean Room ISO8
2010	Strategic Plan 2010-2014 (Pharos, Marco Urarte, Acció)
2015	The third generation of the Solà family is incorporated
2016	ISO 15378 (GMP). New E-Commerce platform. Laminated tube production
2019	Investment Plan 2019-2021. New facilities and machinery
2021	Commissioning of the new production line 7
2022	ISO45001
2023	DMF certification

BUSINESS DATA

SALES BY SECTOR

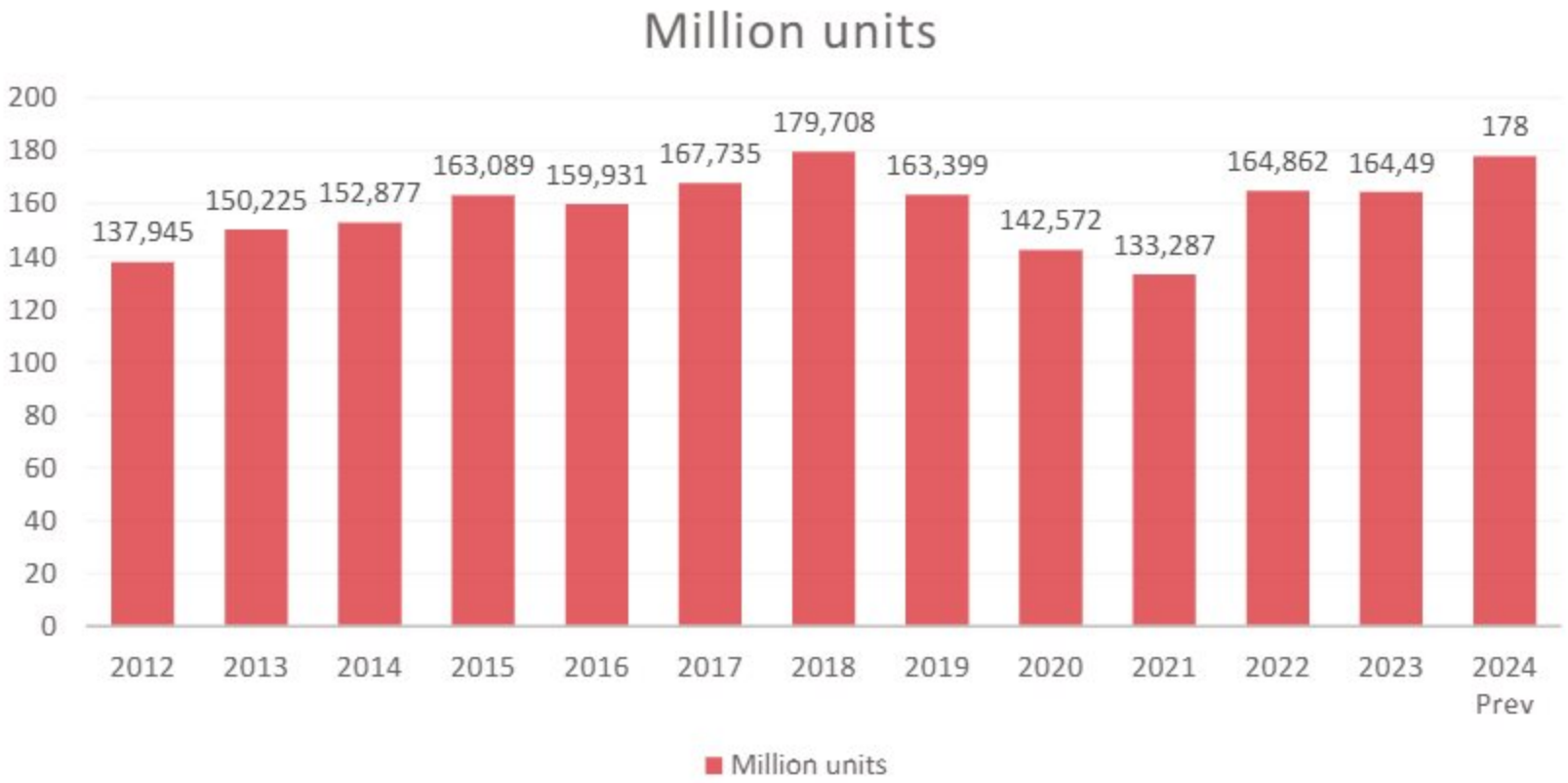


WHO TRUST US?

OUR CLIENTS

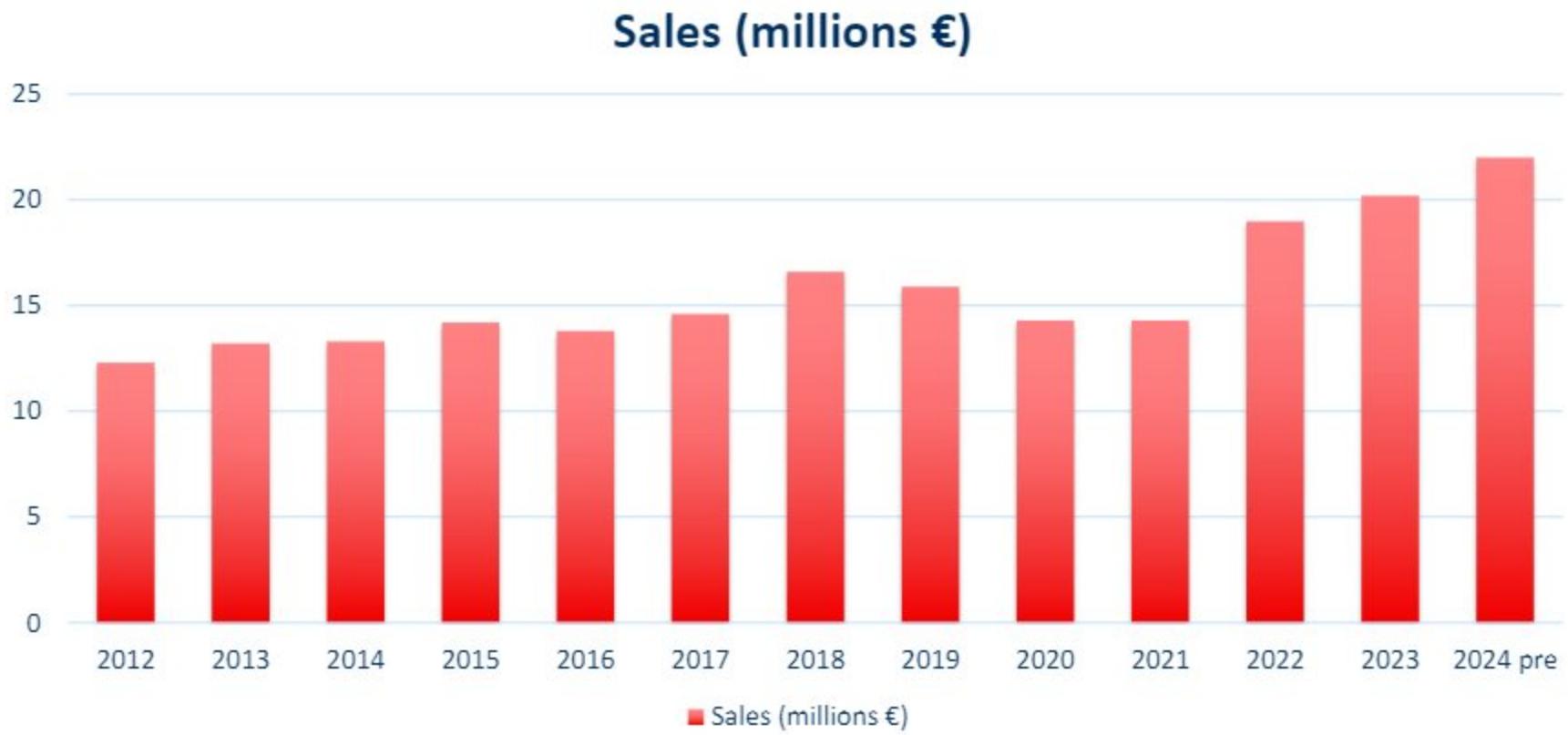
BUSINESS DATA

SALES IN MILLION UNITS



TURNOVER

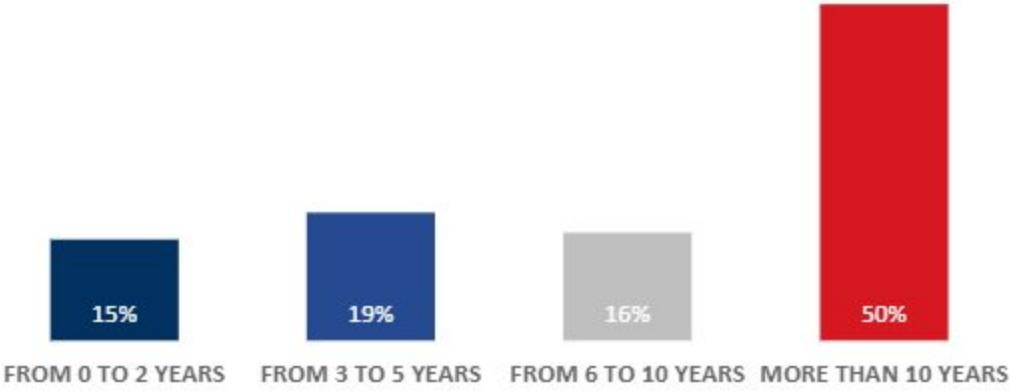
SALES IN MILLION €



CUSTOMER LOYALTY

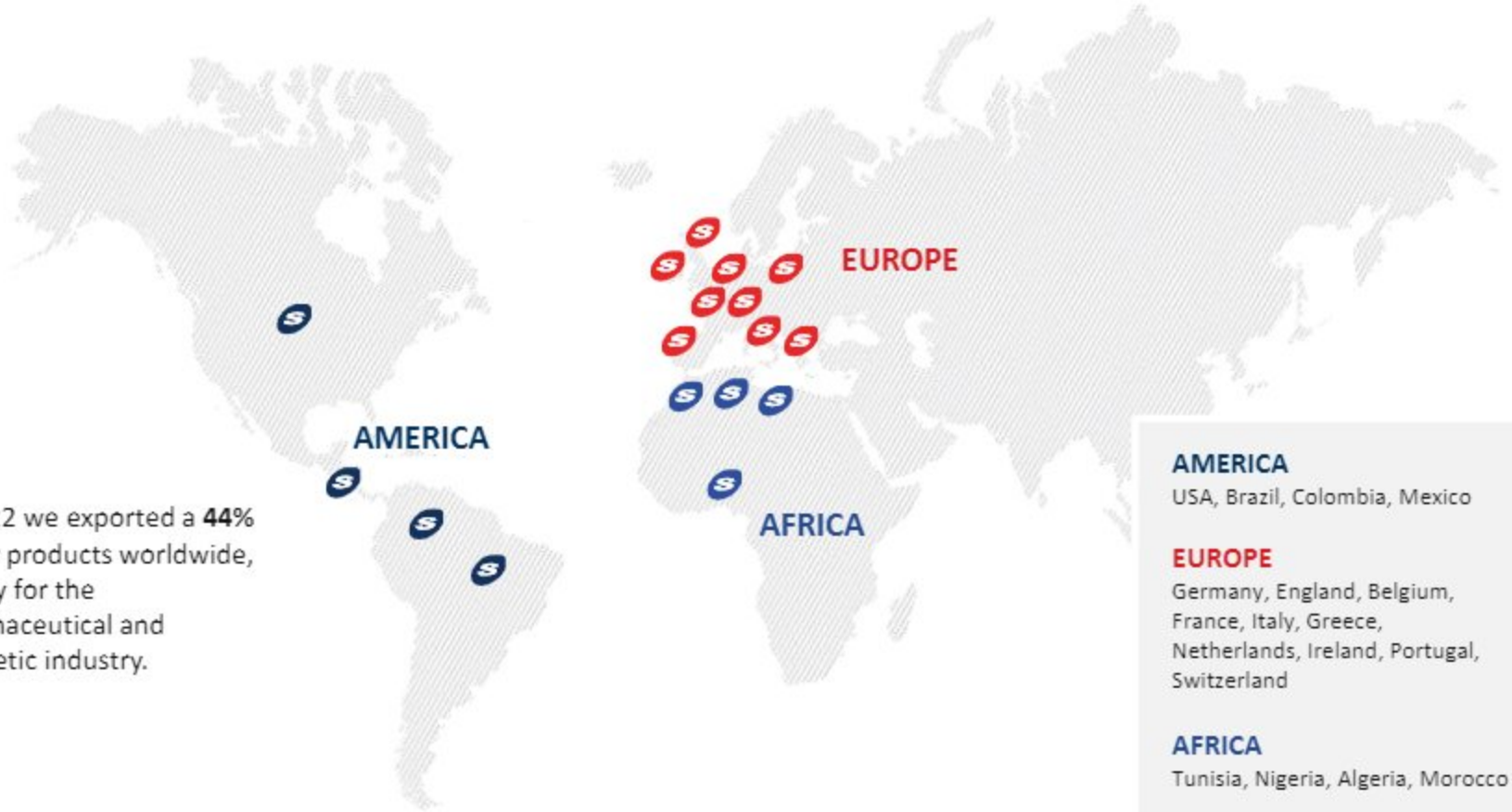
50% of our clients have been trusting us for more than 10 years

¿For how long our customers have been buying from us?



BUSINESS DATA

EXPORTS



In 2022 we exported a **44%** of our products worldwide, mainly for the Pharmaceutical and Cosmetic industry.

AMERICA
USA, Brazil, Colombia, Mexico

EUROPE
Germany, England, Belgium, France, Italy, Greece, Netherlands, Ireland, Portugal, Switzerland

AFRICA
Tunisia, Nigeria, Algeria, Morocco

QUALITY
CERTIFICATIONS

First Spanish tube producer with **ISO 9001** and **ISO 15378 (GMP)** quality certifications.

All our products are manufactured in an **ISO 8 clean room** and are subject to numerous **artificial vision controls**. We are certified as food packaging manufacturers by **ACSA and AESAN** (Catalan Agency of Food Safety and Spanish Agency of Food Safety and Nutrition).

In 2017 we obtained the **ISO 14001** certification.

In June 2022 we obtained the **ISO 45001** certification.

ISO 15378 DEKRA

ISO 9001 ISO 14001 DEKRA

Generalitat de Catalunya
Agència Catalana de Seguretat Alimentària

agencia española de seguridad alimentaria y nutrición

QUALITY

CONTROLS DURING PROCESS AND IN LABORATORY

- During production, in addition to process controls, we take representative samples of the batch.
- These samples are controlled in the laboratory, where we perform all types of physicochemical and microbiological tests.
- Finally, a certificate of analysis is issued and the batch is released.

WYS TECHNOLOGIES

IT DEPARTMENT

Information Technologies (IT): Integrity, availability and security of information.

Operational Technologies (OT): 100% virtual secure digital platform.

"Help Desk" Digital Transformation: BPM

E-commerce: www.mistubos.com

Monitored and secure network system 30% in the cloud, ISO: passwords, backups, etc.

- 180 requests/second
- 15 online platforms
- 38 servers

NEW DEVELOPMENTS

WYS SUSTAINABILITY

WYS | GREEN

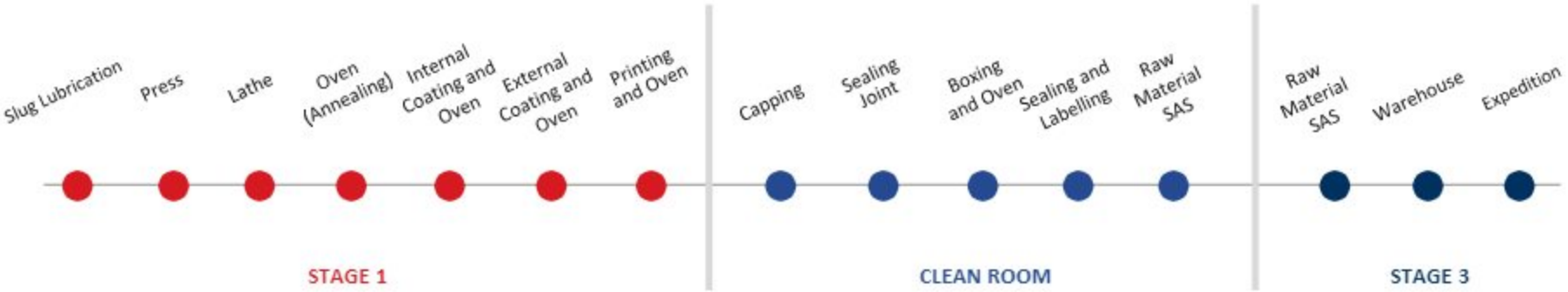
- We have completed a very ambitious project to be able to offer tubes with the cap and aluminium of 100% recycled origin.
- Witte y Solà carried out a test on its lines in mid-March 2021, which was already 100% successful.
- Currently we are already manufacturing with recycled aluminium for several clients.
- 80% of the caps we currently use come from a company of our group. All its molds are prepared to produce with recycled material.
- We also have BPA-free internal varnishes.

ALUMINIUM

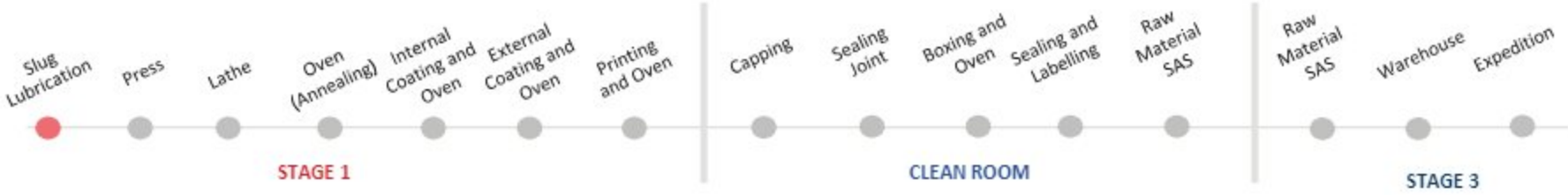
Recycles forever

ALUMINUM TUBES

THE PRODUCTIVE PROCESS

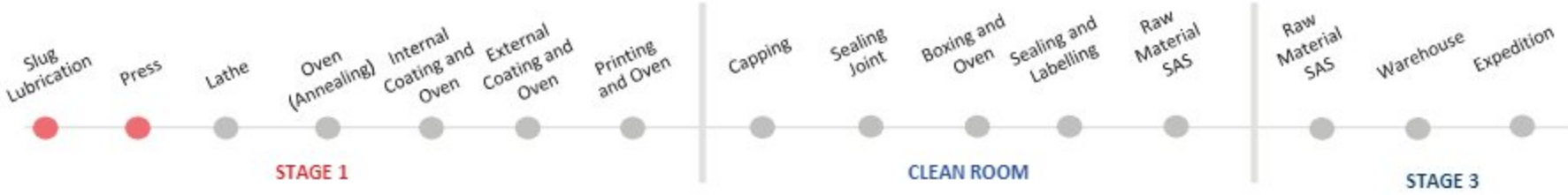


SLUG LUBRICATION



- In order to facilitate the extrusion process, it is necessary that the slug is greased.
- This process is done by tumbling the slugs together with a lubrication grease.
- For 15 minutes, about 25 kg of slugs together with the grease are turned inside the greasing drums until they are completely covered.

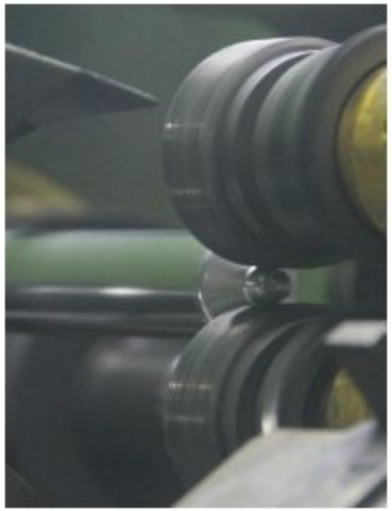
PRESS



- The lubricated slug receives a 150 tones press impact creating the body of the tube.
- The size and shape of the slug will allow us to produce a tube with the diameter and length chosen by the customer.
- We produce tubes with the following diameters:

Ø 13,5	Ø 25	Ø 35
Ø 16	Ø 28	Ø 40
Ø 19	Ø 30	
Ø 22	Ø 32	

LATHE

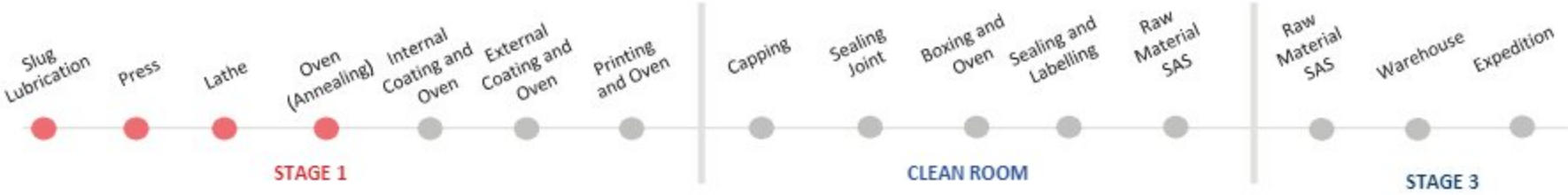


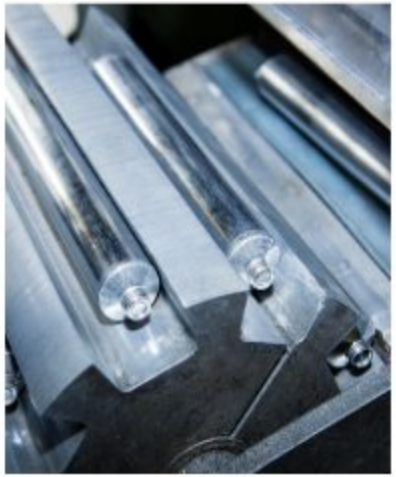
During this process, the lathe:

- Cuts the tube to the final length.
- It shapes the thread of the neck of the tube, depending on the cap that will be placed later.

Dimensional control L6 y L7

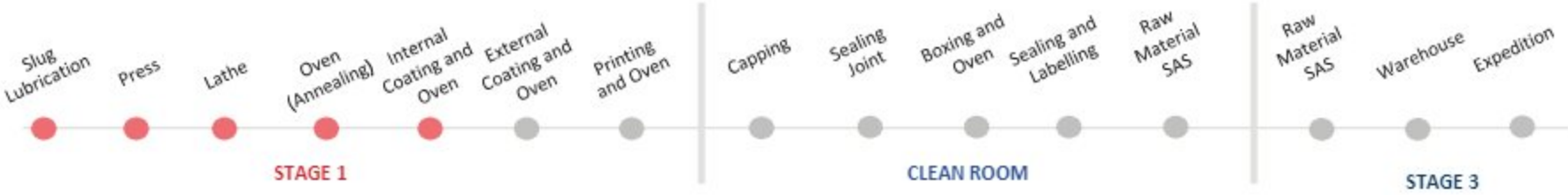
OVEN (Annealing)

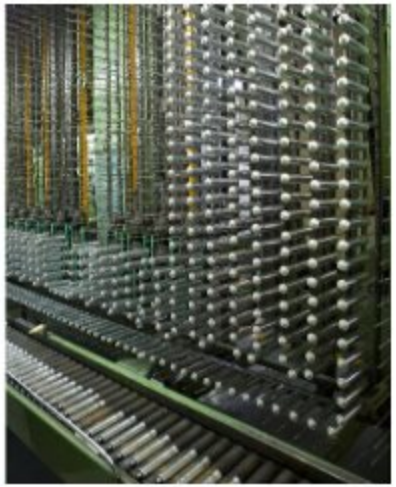




- The tube enters inside an oven, where it loses its rigidity and acquires the flexibility characteristic of our product.
- In this same phase, grease particles evaporate leaving the tube completely clean and ready for varnishing.

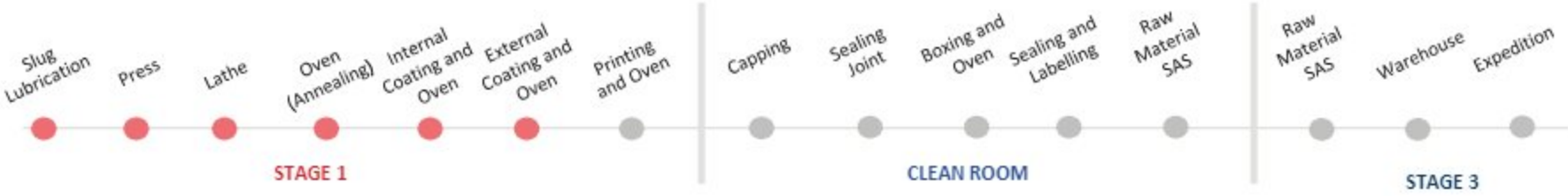
INTERNAL COATING AND OVEN (Polymerization)





- The internal varnish, made of epoxy-phenolic resins, is pulverized by three spray guns, guaranteeing the coating of the entire inside surface of the tube.
- We have polyester varnishes and modified resins, BPA-free.
- The varnish is polymerized at a temperature between 200º and 240º.

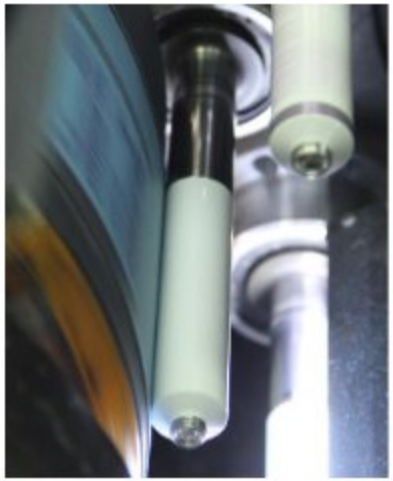
EXTERNAL COATING AND OVEN



- The tube will be externally coated using a highly elastic polyurethane lacquer, usually in white.
- In order to facilitate the subsequent printing of the tube, this enamel will be dried in an oven at a temperature between 110º and 145º.

Artificial vision. Defects control L 2, 3, 5, 6 y 7

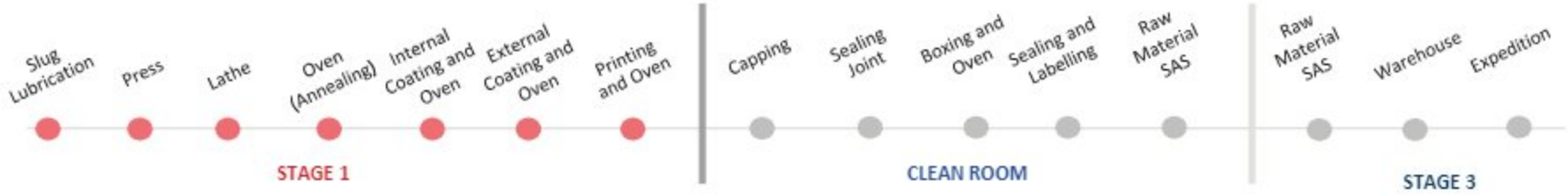
PRINTING AND OVEN



- In this step, the tube is personalized by using a dry offset printing system.
- Our rotaries can print up to 5 inks.
- After that, the tube is dried in an oven at a temperature between 140º and 160º.

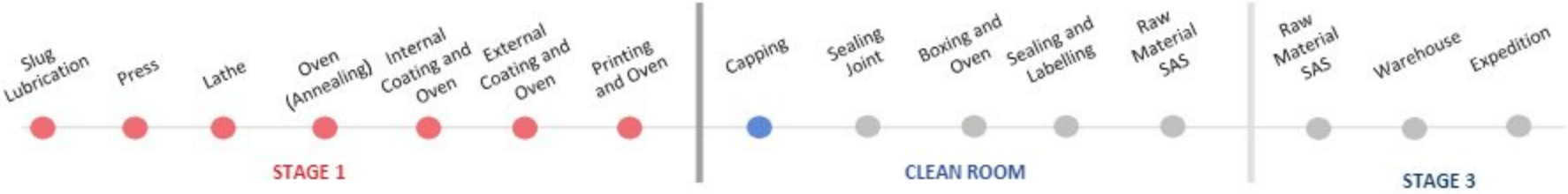
Artificial vision. Print control L2

CLEAN ROOM



- Then the tube gets into the Clean Room which has been built by the specialized company Axima.
- It is certified ISO Class 8 equivalent to class D or 100.000 particles.
- Since 2007, we are the only Spanish tube manufacturer with an installation of these characteristics.

CAPPING



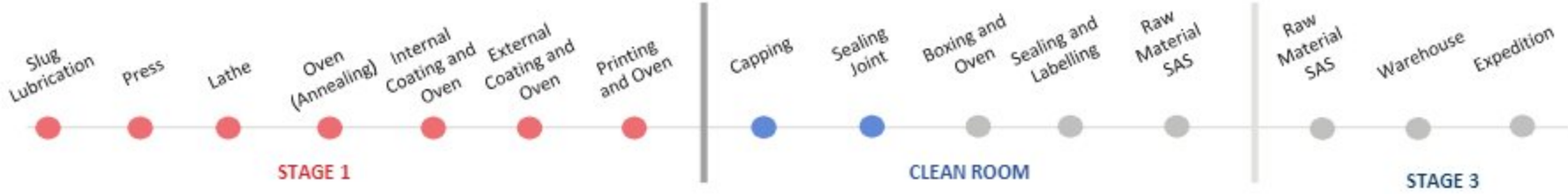
- The capping machine will place the cap by threading it.
- We can offer different types of caps or even adapt models owned by the client.

Unprinted tube detector L 1, 2, 3, 4, 6, 7

Missing cap detector L 1, 2, 3, 4, 5, 6, 7

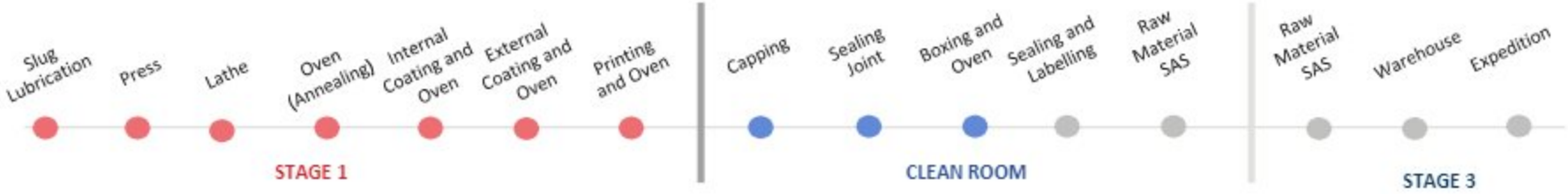
Cap height detector L 3, 6, 7

SEALING JOINT



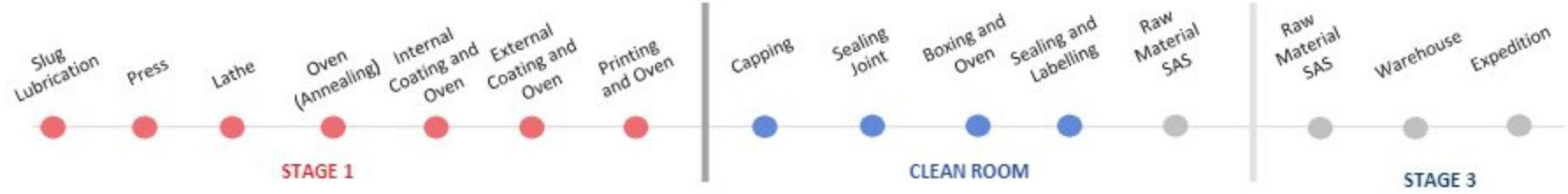
- Under customer request and to obtain greater hermeticity in the area of the fold of the tube, a sealing joint is applied by gun.
- The sealing joint is made of water-based acrylic polymers.

BOXING AND OVEN



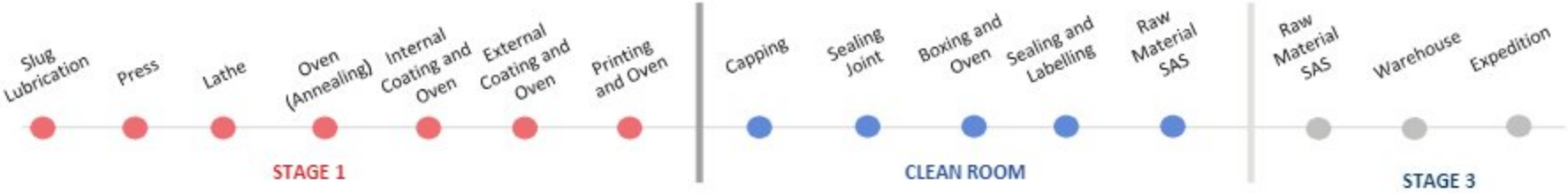
- Depending on the customer's filling system, different box sizes and types of material are used.

SEALING AND LABELLING



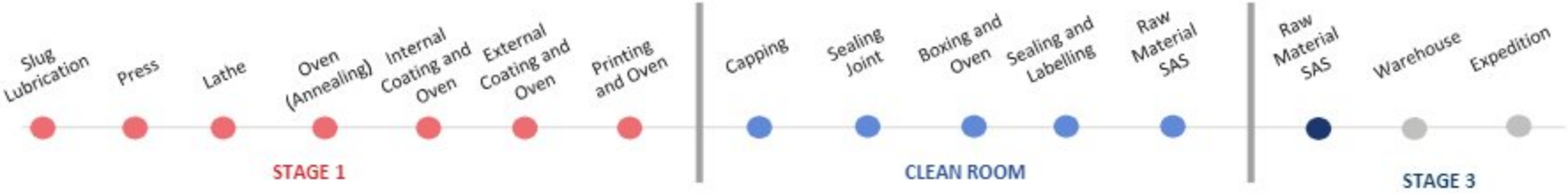
- A final visual control is made and then de boxes are sealed and labelled.

RAW MATERIAL SAS



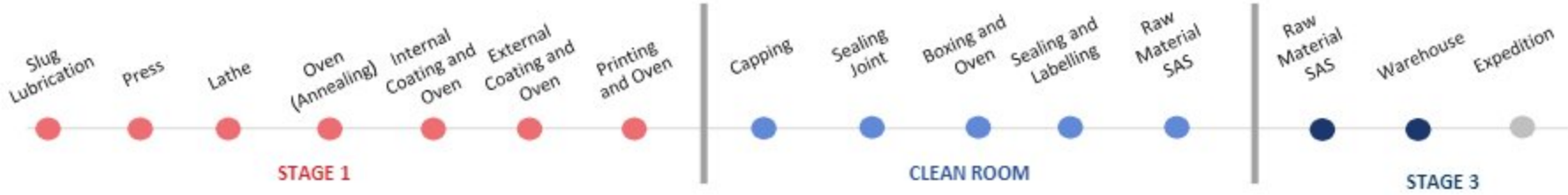
- Boxes are placed on a pallet for a subsequent shrink.
- This area is still inside the Clean Room.

RAW MATERIAL SAS



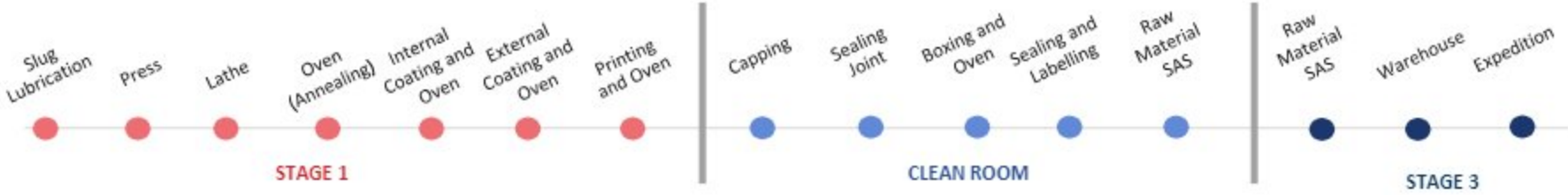
- Placement of reinforcements, shrink wrapping and labelling of the pallet.
- Each label has a barcode that will help us to identify each of the pallets.

WAREHOUSE



- We use a barcode scanner to read the codification of each pallet and its location in our warehouse.
- This information is automatically registered in our ERP in order to have them always under control.

EXPEDITION



- As soon as the delivery date of the order approaches, the corresponding pallets are loaded onto the truck to take them to their destination.

WITTE Y SOLÀ

THANK YOU

www.wys.es