

1990
— COMANOR acquires ALFA, creating the **COMANOR-ALFA group**

1994
— Certification as **ISO 9001:1994** Company.
— Concentration of all production lines in Guimarães.
— New finishing line and new furnace.

1996
— New returnable cylinder line

1997
— **AMTROL, Inc** acquires **COMANOR-ALFA**

1998
— Started production of non-refillable cylinders

1999
— Launched the Full Jacket cylinders

2000
— New **RABBIT** cylinder

2003
— **ISO 9001:2000** registered

2005
— New composite cylinder production line.
COMET composite metal cylinder

2006
— **NGS** and **SOFT GRIP**

2008
— **XLITE** cylinder

2009
— **ISO 9001:2008** registered

2010
— New returnable cylinder line

2013
— **GENIE** cylinder

2016
— **COMET HP** Carbon Fiber Cylinder

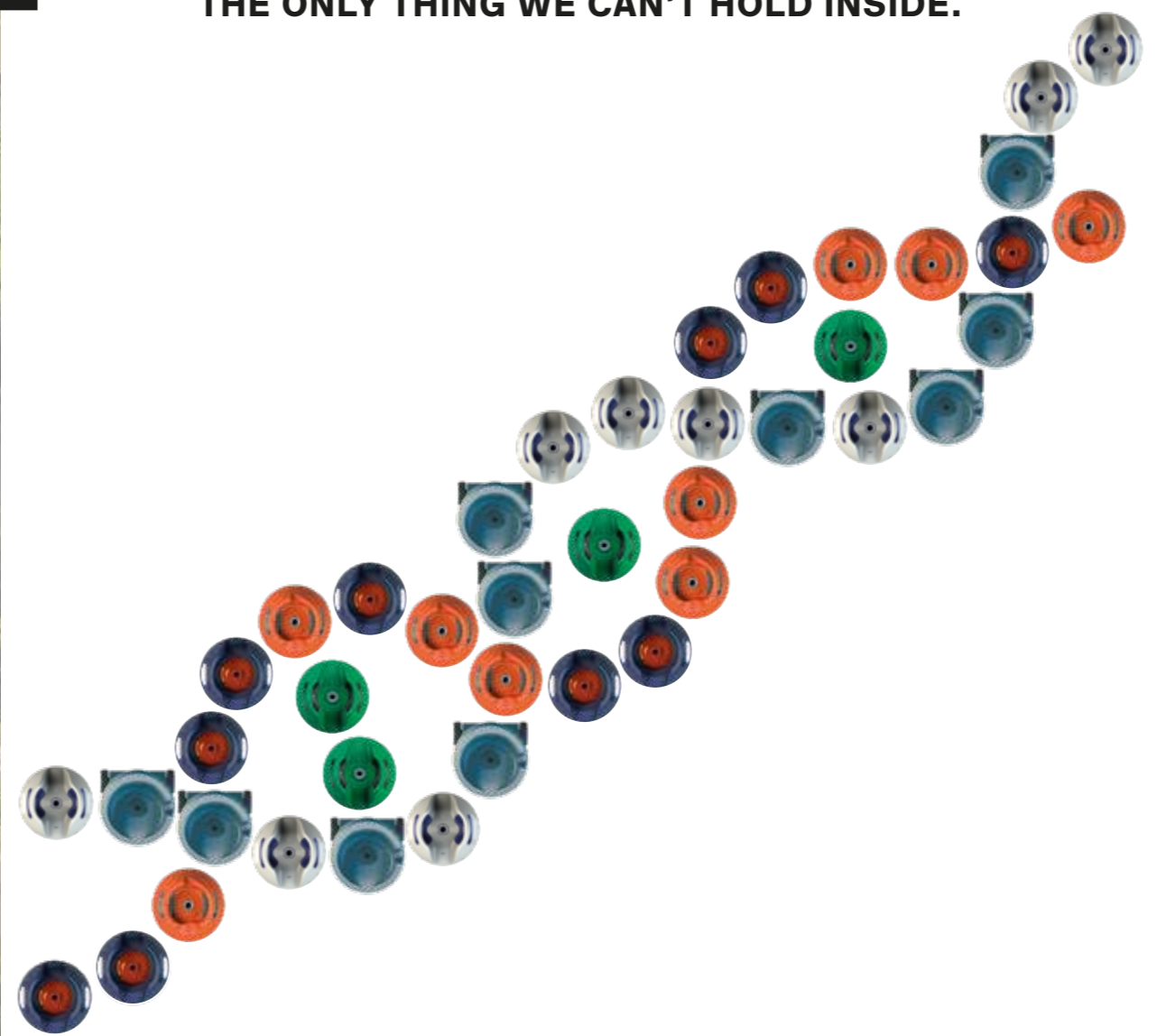
2017
— Acquired by **WORTHINGTON INDUSTRIES**

2021
— **FOURTIS** New Type IV cylinder

2022
— **NEXI** New IoT cylinder
— First production of **SCBA** composite cylinder



INNOVATION.
THE ONLY THING WE CAN'T HOLD INSIDE.



WORLD #1
MANUFACTURER OF STEEL
AND COMPOSITE LIGHT
WEIGHT CYLINDERS



CREATING VALUE THROUGH INNOVATION

Innovation is not a recent passion. Setting the industry standards for over 50 years is proof of that.

1960
1962
— **Petroleo Mecânica Alfa** is founded by Sacor and Schwelm Eisenwerk Muller GmbH

1965
— Assembly of petrol dispensing pumps

1966
— Started **LPG Cylinder** manufacturing

1970
1976
— First export to Middle East

1980
1983
— Stopped assembly of Petrol-Dispensing Pumps and concentrated **all efforts in LPG cylinders**

1989
— Relevant investment in automatic deep drawing press; Cutting/Blanking line and forging equipment

AMTROL-ALFA SAFETY AND INNOVATION WELDED TOGETHER.

Amtrol-Alfa, a Worthington Industries company, forges safety and innovation together. Our position as Europe's largest manufacturer of gas cylinders comes from more than 50 years of experience and constant efforts to offer value-adding features and better performance on each product, every day. A long list of patents and intensive research are just two of the reasons that make Amtrol-Alfa a true leader in this field.

Innovation is the only thing we can't hold inside.



CREATING VALUE TROUGH INNOVATION

Competitive advantage

Our action is guided by six principles that ensure our place as leaders in a competitive market.

- . Differentiation
- . Quality
- . Reliable Delivery
- . Responsiveness
- . Technical Expertise
- . Innovation
- . Sustainability

Manufacturing Capabilities

By cultivating excellence we achieved world-class manufacturing techniques, from the concept stage to the finishing touches.

- . Product engineering
- . Industrial design
- . Deep-drawing technology
- . Integrated welding cells, including thin steel technology
- . Heat treatment
- . Integrated finishing lines and surface treatment
- . Composite filament winding
- . Plastics engineering



SETTING THE STANDARD

Our workplace has a focus on proactivity and customer service, a philosophy that has served Amtrol-Alfa well in designing solutions for all clients' demands. This culture brings out the full potential of impressive production lines that are capable of an output of 25.000 cylinders per day.

INDUSTRIES

Our commitment to partnership takes place across all segments, and ensures continuous innovative solutions for each market.

