Focused on improving metal fabrication...
tell me more
In today’s competitive business environment, it is crucial that quality and productivity are combined to give your business the edge. Air Products’ gases and gas supply solutions are proven to provide the highest weld and cut quality, to minimize rejects and to increase productivity. Our cylinders, gases and gas supply installations offer the highest safety standards, and with your health in mind, are carefully assessed to ensure minimum impact on the work environment.

As your business evolves, we have the expertise and technology to ensure you have the most cost effective method of gas supply. Solutions include the full-range of gases, gas mixtures and supply solutions from compressed cylinder gases to large volume gas supply in tanks.

**Fabrication technologies**

- **Welding** – high performance, easy-to-use shielding gases which deliver quality welds and improved productivity.
- **Cutting** – excellent fuel and assist gas technology to provide precise cuts and high cutting speeds for all processes from oxy-fuel to the latest high-power lasers.
- **Thermal spraying** – high-quality fuel and process gases and unique liquid nitrogen (LIN) cooling technology
- **Brazing, gouging and other technologies** – gases and expertise for all your fabrication needs

### Maxx® shielding gases = lower welding costs

Air Products’ innovations

- **Maxx® shielding gases** – our unique range of gases, delivering the best combination of quality, productivity and safety. Achieve more with fewer rejects when welding carbon steel, stainless steel, aluminium or high-performance alloys.
- **Integra® cylinder** – our revolutionary Integra® cylinder offers a smaller, lighter and safer alternative to conventional cylinders. The Integra® cylinder’s advantages include: built-in regulator protected by an easy-to-handle guard; high volume 300 bar technology and customer quick connect gas coupling.
- **High-volume 300 bar cylinder technology** – our compressed gases are available in high-volume 300 bar single cylinders and cylinder packs.
- **BIP® technology** – when dealing with the most reactive materials or sensitive process equipment such as lasers, our patented BIP cylinder technology is the best solution to achieve ultra-low levels of critical impurities.
- **CryoEase® service** – our flexible gas supply solution which combines compact storage tanks with regular replenishment by small vehicles, provides an alternative to handling more than 10 cylinders a month or cylinder packs.
- **LIN cooling** – our patented cryogenic nitrogen cooling technology which helps you achieve the highest quality thermal spray coatings and reduce manufacturing costs, through improved process efficiency and elimination of waste.
CryoEase® service
= replacing cylinders, dewars and packs with the convenience of bulk supply
Easy from order to supply

You can order all products online using APDirect at any time of the day.

If you prefer the personal touch, you can contact your local Air Products customer service team.

Should you require only cylinders, or need the flexibility to collect gases at short notice, our extensive network of local agents provides the best option.

If you have bulk gas supply, our telemetry systems ensure that your tank is automatically replenished.

Advice that helps your business

Our team of metal fabrication experts will help you optimise your processes and demonstrate how alternative gases could be considered to help bring improvements to your production process.

Product and safety training

We offer a wide range of standard and tailor-made training courses covering the most common fabrication technology, process and safety.

Analytical and audit services

Our application engineers will work with you to identify and understand problem areas. Services include leak-detection, gas analysis and process review.

Equipment which meets your needs

Air Products offers solutions from complete turn-key installations to simple cylinder connectors. Our engineers design and commission installations which meet the highest standards in safety and productivity. Our depots and agents stock a wide range of gas control equipment and accessories, selected with efficiency and safety in mind.

Maxx® shielding gases = improved weld quality

Example cost/meter in €

- Gas costs (rental and transport included)
- Wire costs
- Labour and overhead costs

<table>
<thead>
<tr>
<th>Cost per meter in €</th>
<th>Ar/CO₂</th>
<th>Maxx welding gases</th>
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</thead>
<tbody>
<tr>
<td>10.50</td>
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Maxx® welding gases:

- Improved weld quality

Ar/CO₂:

- Standard shielding gas

Wire costs:

- Cost for welding wire

Labour and overhead costs:

- Additional costs for labour and overhead
A complete range of gas supply solutions

Air Products provides a complete range of gas and supply options to match your requirements. We will work with you to choose the most cost effective and convenient method of supply. As acknowledged leaders in safety, you can be confident that your workplace will be using the latest industry standards.

<table>
<thead>
<tr>
<th>Supply format</th>
<th>Application</th>
<th>Gases available</th>
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</thead>
</table>
| Single cylinders               | Cylinders are the flexible and portable solution. All gases and gas mixtures are available in a range of convenient cylinder sizes, including the unique Integra® cylinder – our safest cylinder yet. | Acetylene
Argon
Carbon Dioxide
Helium
Hydrogen
Nitrogen
Oxygen
Shielding gas and other high-performance mixtures |
| High volume cylinder packs    | Multi-cylinder packs offer a convenient and safe mode of supply for high volume cylinder gas users. Specially designed DNV* certified offshore cylinder packs are available worldwide. | Acetylene
Argon
Carbon Dioxide
Helium
Hydrogen
Nitrogen
Oxygen
Shielding gas and other high-performance mixtures |
| CryoEase® microbulk solutions | The gas-on-tap alternative to large quantities of cylinders. CryoEase® tanks are small and easy to install. They are available in a variety of sizes and should be considered when demand reaches 10 or more cylinders a month. | Standard pressure CryoEase® Service:
Argon
Carbon Dioxide
Nitrogen
Oxygen
High pressure CryoEase® service:
Nitrogen
Tanks for single use or on-site mixing of shielding gases and other high-performance mixtures |
| Bulk liquid gases             | On-site bulk tanks are the best option for high volume users. We offer complete turn-key solutions for any application. Our engineers design and commission installations which meet the highest standards. Our telemetry system option monitors your consumption and automatically reorders to ensure continuous production. | Liquid bulk:
Argon
Carbon Dioxide
Nitrogen
Oxygen
High pressure liquid bulk:
Argon
Oxygen
Nitrogen
Other products
Helium
Hydrogen
Tanks for single use or on-site mixing of shielding gases and other high-performance mixtures |
Maxx® shielding gases
= a safe and healthy work environment
Air Products (NYSE:APD) serves customers in industrial, energy, technology and healthcare markets worldwide with a unique portfolio of atmospheric gases, process and specialty gases, performance materials, and equipment and services. Founded in 1940, Air Products has built leading positions in key growth markets such as semiconductor materials, refinery hydrogen, home healthcare services, natural gas liquefaction, and advanced coatings and adhesives. The company is recognized for its innovative culture, operational excellence and commitment to safety and the environment.

tell me more

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