



Integra[®] Cylinders.

Work **better,**
weld **better.**



Innovative cylinders for **optimised welding.**

They're smaller, safer, lighter, quicker...and save you time and money. The Integra® range of gas cylinders can transform your welding, cutting and brazing – and a great deal more.

A range of compact 300 bar cylinders, the Integra® Cylinders are easier to handle and with a built-in regulator and quick connecting Integra® Flow Optimiser they will help you control flow rate to reduce excessive gas consumption. With safer and quicker changeover times and the ability to control flow rates, the Integra® Cylinders can help lower costs as well as improve weld quality and efficiencies.

The Integra® e² Cylinder also features leak detection at the touch of a button as well as smart technology to review cylinder contents and consumption history to keep costs under even tighter control.

So with the Integra® range of cylinders, you can work and weld more efficiently than you ever thought possible.

How **Integra®** Cylinders benefit your business

Safer, more productive welding and cutting. Integra® Cylinders may be compact, but their benefits are enormous.



Cost saving

Work **smarter**, weld **smarter**.

The compact Integra® Cylinder has a range of features to improve welding efficiency and safety. However, the cost saving benefit remains the key reason so many customers switch to the Integra® Cylinder.

Reduced gas costs

Gas flowrate is consistently controlled with the Integra® Flow Optimiser, ensuring excess gas usage and costs are avoided.

No maintenance costs

The costs to service and maintain equipment are not required with the integrated regulator and the responsibility of maintaining this lies with Air Products.

No equipment costs

The integrated regulator eliminates the regular costs of purchasing equipment.

Improved productivity

Cylinder changeover times are significantly quicker (30%) and easier resulting in more time welding.



Time saving

Work **faster**, weld **faster**.

Time is a precious commodity and for any manufacturing business maximising return on labour is always a priority. The Integra® Cylinder is designed to reduce all non-productive activities to ensure more time can be spent welding.

Quick connecting IFO

The click-on connecting Integra® Flow Optimiser (IFO) not only reduces welding gas consumption and costs, it saves time.

No tools required

There is no need for spanners or bottle keys with the Integra® Cylinder. A simple hand operated on/off valve and integrated regulator both save time.

Integrated regulator

The integrated regulator and Integra® Flow Optimiser reduce time spent attaching regulators.

Active contents gauge

Never waste time by running out of gas mid-weld. The contents gauge is active even when the Integra® Cylinder is not in use.

How **Integra®** Cylinders benefit your business



Safety

Work **safer**, weld **safer**.

Workplace safety is the number one priority. Whether welding or cutting, the smaller, compact Integra® Cylinder has features built-in to minimise risks associated with handling cylinders.

Lighter

The Integra® Cylinder is 23% lighter than traditional cylinders making it easier and safer to manoeuvre. The smaller 10 litre cylinder is light enough to be carried and is perfect for remote or mobile welding tasks.

More stable

The Integra® Cylinder has a lower centre of gravity and less risk of toppling. A lifting handle or rolling knob makes handling easier than traditional cylinders.

Integrated regulator

With a built-in regulator there is a reduced risk of regulator damage as it is fully contained within a protective guard and crucially, for the user, there is reduced exposure to pressure hazards.

Integrated safety devices

The oxygen and acetylene Integra® Cylinders cannot be operated without flashback arrestors for additional safety.



Easier Handling

Work more **productively**, weld more **productively**.

The size and weight of traditional cylinders can be a concern and with an average height of 1.5m and a small base diameter, they have a high centre of gravity and are at risk of toppling. The smaller Integra® Cylinder is designed with ergonomics in mind to reduce risks and maximise productivity.

Shorter

The Integra® Cylinder with a 30 litre capacity is shorter than traditional cylinders - around 1.1m high - so it is easier to manoeuvre. The portable 10 litre knee-high cylinder is perfect for mobile welding.

Less changeover time

Filled with 300 bar pressure, the Integra® Cylinder will last longer than traditional cylinders filled at 200 bar, resulting in fewer changeovers and less handling.

Ergonomic handle

The Integra® welding gas cylinder is fitted with an integrated handle and the cutting cylinders with a rolling knob for easier, safer manoeuvrability.

Quick-connector

Cylinder changeover times are significantly easier and 30% quicker. The Integra® Flow Optimiser simply clicks onto the cylinder to attach to the welding set-up.

Work **better**, weld **better** with the Integra® Cylinder

Built-in regulator

Free up time spent attaching regulators. The integrated regulator and Integra® Flow Optimiser (IFO) do the work for you in minutes.



Flow consistency

With the IFO the flow is consistent throughout the life of the cylinder to save you even more gas. With a traditional cylinder and regulator, flow rates increase as cylinder pressure decreases.

Information

The contents gauge always shows how much gas is left, even when the Integra® Cylinder is not in use. The Integra® e² Cylinder also features an electronic contents indicator and low-level alarm.



Flow control

The built-in regulator, quick connect gas outlet and pre-set Integra® Flow Optimiser (IFO) eliminate set-up time and stop excessive gas waste.

Connectivity

The free Integra® e² Cylinder app lets you remotely check gas type, leak test status, gas contents, consumption history and remaining arc time, to put you in full control.



Surge protection

The Integra® e² Cylinder's unique valve reduces pre-weld surge, to help you save gas and ensure you weld with a consistent flow.

Improved safety

Integra® Cylinders are smaller, lighter and easier to handle than traditional cylinders.



Leak detection

On the Integra® e² Cylinder a leak test is performed at the touch of a button, ensuring you don't waste even the smallest amount of gas.



The Integra® Cylinder range

Integra® Shielding Gas Cylinder

Protective Valve Guard

Integrated handle prevents accidental damage to built-in regulator and makes the cylinder easy to handle. Protects all critical components and provides full access to valve operation. Independently safety tested to exceed EN ISO 11117.

Built-in Regulator

Calibrated and maintained by Air Products. Regulates outlet pressure to 4 bar. Incorporates residual pressure valve to prevent contamination of cylinder contents.

Contents Gauge

Always shows how much gas is left, even when cylinder is not in use.

Filling Port



Quick Connect Gas Outlet

Allows safe and rapid change-over, with no gas flow if the quick connector is not fitted to the valve.

Integra® Flow Optimiser (IFO) with built-in gas economiser.

The quick connector enables you to pre-select the optimum gas flow rate and attach directly to your welding hose before snapping on to the quick-connect gas outlet.



Integra® Oxygen and Acetylene Cylinder

Protective Valve Guard

Prevents accidental damage to critical components, provides full access for valve operation and makes the cylinder easy to handle. Independently safety tested to exceed EN ISO 11117.

Built-in Regulator

Calibrated and maintained by Air Products. Regulates outlet pressure and provides a variable pressure control (0-8 bar). Suitable for all cutting, welding and brazing applications.

Contents Gauge

Always shows how much gas is left, even when cylinder is not in use.

Filling Port



Quick Connect Gas Outlet

Allows safe and rapid change-over, with a range of quick connectors with variable gas flow and pre-set (fixed) gas flow rates available.

Integra® Flashback Arrestor (FBA) with built-in safety.

The quick connector ensures the safest connection every time the cylinder is used. Snap-on connection to cylinder – no spanner needed. Additional safety locking and release device prevents accidental removal.

Built-in safety features:

- Safety locking and release
- Flame arrestor
- Non-return valve
- Thermal cut-off valve
- Dust filter



The Integra® Cylinder range

Portable Integra® Shielding Gas Cylinder

When portability is key, our range of 10 litre Integra® welding gas cylinders are compact and lightweight – ideal for remote or mobile welding tasks.

Protective Valve Guard

Integrated handle prevents accidental damage to built-in regulator and makes the cylinder easy to handle. Protects all critical components and provides full access to valve operation. Independently safety tested to exceed EN ISO 11117.

Built-in Regulator

Calibrated and maintained by Air Products. Regulates outlet pressure to 4 bar. Incorporates residual pressure valve to prevent contamination of cylinder contents.

Contents Gauge

Always shows how much gas is left, even when cylinder is not in use.

Filling Port

Quick Connect Gas Outlet

Allows safe and rapid change-over, with a range of quick connectors with variable gas flow and pre-set (fixed) gas flow rates available.

Integra® Flow Optimiser (IFO) with built-in gas economiser.

The quick connector enables you to pre-select the optimum gas flow rate and attach directly to your welding hose before snapping on to the quick-connect gas outlet.



Integra® e² Cylinder

Imagine a cylinder that saves time, improves quality and embraces sustainability by reducing welding gas consumption.

Protective Valve Guard

Ergonomic valve guard with a rolling-knob and collar to make it easier to move the cylinder and place it on your welding machine.

Electronic Contents Indicator

Quickly see how much gas remains, even when the cylinder is not in use.

Leak Detection

One-touch is all it takes to test your welding machine and hoses for leaks.

Valve with Pre-weld Surge Protection

Ensures consistent weld quality from start to finish with no wastage from pre-weld surge.

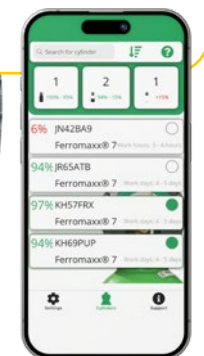
Power Arm

Simply move from the off ('O') position to the 'eco' position to start - this ensures optimised gas usage. Use the + settings to boost gas flow to deal with extreme working conditions.



Connected

Download the free app to manage inventory and view useful cylinder information from your smartphone.



Integra Flow-Optimiser (IFO)

A pre-set Integra® Flow Optimiser (IFO) with quick-connect gas outlet ensures set-up time is eliminated and the correct gas flowrate is assured.



Gases for welding, cutting and brazing applications

The following gases are available in the Integra® Cylinder:

Maxx® shielding gases

	MIG/MAG					TIG/PLASMA		
	Carbon Steel		Stainless Steel		Aluminium & Alloys	Carbon Steel	Stainless Steel	Aluminium & Alloys
	Solid Wire	Cored Wire	Solid Wire	Cored Wire				
Ferromaxx® Plus The best gas mixture for faster, cleaner MAG welding of carbon steel.	•	•		• ₁				
Ferromaxx® 15 The reliable all-rounder for carbon steel MAG welding.	•	•						
Ferromaxx® 7 The thin and medium carbon steel MAG welding specialist.	•							
Inomaxx® Plus The best gas mixture for MAG welding stainless steel.			•	• ₂				
Inomaxx® 2 The reliable gas mixture for MAG welding thin and medium thicknesses stainless steel.			•					
Inomaxx® TIG* The best gas mixture for TIG welding austenitic stainless steel.						• ₃		
Alumaxx® Plus The best gas mixture for MIG and TIG welding of aluminium.					•	•	•	

Standard gases

	MIG/MAG					TIG/PLASMA		
	Carbon Steel		Stainless Steel		Aluminium & Alloys	Carbon Steel	Stainless Steel	Aluminium & Alloys
	Solid Wire	Cored Wire	Solid Wire	Cored Wire				
M21 ArC20 (20% CO2 in Argon) Standard gas mixture for MAG welding carbon steel.	•	•		• ₁				
M26ArCO20/2 (20% CO2, 2% Oxygen in Argon) Suitable for Carbon Steel, solid wire.	•	•						
Argon Technical Standard gas for MIG and TIG welding.					•	•	•	

Oxygen and acetylene
For cutting, welding and brazing.

All shielding gases meet or exceed the requirements of ISO 14175.

(1) Flux cored wires (slag forming) (2) Metal cored wires (3) Austenitic stainless steels only (eg. 300 series)

Comparison Chart

				
	Integra® e ²	Integra®	Integra®	Integra®
	Shielding Gas Cylinder	Shielding Gas Cylinder	Oxygen and Acetylene Cylinder	Portable Shielding Gas Cylinder
Size	30 litre	30 litre	30 litre	10 litre
Diameter	230mm	230mm	230mm	176mm
Height	1150mm	1080mm	1080mm	655mm
Empty weight	50 kgs	to follow	to follow	to follow
Built in regulator	•	•	•	•
Contents gauge	Electronic indicator with low level alarm	•	•	•
Quick connector (IFO)	•	•	•	•
Protective valve guard	•	•	•	•
300 bar pressure	•	•	•	•
Surge protection	•			
Leak detection	•			
Connectivity	•			



Air Products PLC
Millennium Gate,
Westmere Drive
Crewe CW1 6AP
0800 389 0202
apukinfo@airproducts.com

Air Products Ireland Ltd
Unit 950,
Western Industrial Estate 2
Killeen Road, Naas Road,
Dublin 12
1800 995029
ieinfo@airproducts.com

AIR
PRODUCTS 

GENERATING A CLEANER FUTURE

airproducts.co.uk/integra
airproducts.ie/integra