



Smart, practical, mobile.  
High-tech solutions for your  
laboratory.



# GENIE®

Specialty gas cylinder  
of the future.

Complex analysis and instrumentation requirements in laboratories and research institutes call for specialty gases and equipment of the highest quality. Any compromises in the purity or accuracy of your gases or mixtures can impact the integrity of your test results. At Linde Gas, we deliver a range of HiQ® specialty gases in a range of sizes and packages to suit the most exacting laboratory needs.

### Information and support

To find out more information about our range of GENIE cylinders, pressure regulators and other accessories, visit <http://hiq.linde-gas.com/>



Linde AG  
Linde Gases Division, Seitnerstrasse 70, 82049 Pullach, Germany  
Phone +49.89.7446-1661, Fax +49.89.7446-2071,  
[hiq@linde-gas.com](mailto:hiq@linde-gas.com), <http://hiq.linde-gas.com>



### Introducing GENIE

Our GENIE® cylinder is a breakthrough innovation in the world of HiQ gases. Featuring an up-to-date design and built-in digital display, GENIE is safe, light, mobile and easy to operate. GENIE highlights at a glance:

- Maximum mobility
- Easy handling, improved stability and safety
- Higher gas volume than a standard steel cylinder
- Lightweight structure for greater portability
- Smart monitoring of cylinder contents
- Environmentally friendly design – easy recycling

## Smart.

Its innovative and ergonomic design makes the GENIE cylinder ideal for use in laboratories, clean rooms or research and development facilities. Linde Gas offers a range of specialty gases from its HiQ program in GENIE cylinders.

### 1 Less weight, more gas

Lightweight, 300-bar (available for selected gases) version has more capacity than its standard 200-bar steel counterpart. The GENIE cylinder comprises a steel-lined pressure vessel wrapped in carbon fibre and encased within a tough, all-weather and recyclable high-density polyethylene (HDPE) jacket.

### 2 Integrated digital unit with a display and alarm

The digital unit gives a clear, easy-to-follow overview of the remaining gas contents. In addition, the unit is fitted with an alarm function that acoustically and visually alerts the user if the contents drop below a certain level.

### 3 Specially designed pressure regulator

Linde Gas developed a special range of REDLINE® pressure regulators for use specifically with GENIE. These regulators maintain gas purity and operational reliability.

### 4 Wide diameter

A wide diameter and low centre of gravity make GENIE much more stable than conventional steel cylinders. Thus, it provides your facility with enhanced safety and easy handling.

### 5 Modern sturdy materials

Say goodbye to rusty, scratched floors with GENIE's new wheel base for improved mobility. And if the appearance of the cylinder is important to you, GENIE is the perfect solution with its aesthetic design.

### 6 Easy identification of gas in the cylinder

A coloured ring and a label on the cylinder in accordance with applicable standards make it easy for the user to identify the gas type at a glance.

## Practical and mobile.

### Digital display

Provides clear information about the remaining quantity of gas in the cylinder.



1 Gas type 2 Remaining quantity of gas in percent 3 Inlet pressure  
4 Indication of the remaining gas contents

### Detachable wheel unit

The robust and detachable wheel unit is designed to cope with demanding industrial environments. It features a simple clamping system for easy and quick connection.



### Pressure regulator

Easy to operate, REDLINE GENIE pressure regulators come in single- and double-stage designs. An AISI 304 Hastelloy diaphragm ensures high leak protection and prevents gas from being contaminated by the surrounding air.



Single-stage regulator



Double-stage regulator

Operating pressure of the regulator: up to 300 bar  
Outlet connection: 6 mm  
Range: 0–50 bar available in several models

### Basic types of GENIE cylinder reduction valves

Model	Reduction valve type
C300/1 GENIE	Single-stage
C300/1A GENIE	Single-stage with a closing valve
C300/1B GENIE	Single-stage with a needle valve
C300/2 GENIE	Double-stage
C300/2A GENIE	Double-stage with a closing valve
C300/2B GENIE	Double-stage with a needle valve
C300/2P GENIE	Double-stage with rinse

## Technical parameters.

With the same water volume as an empty standard steel cylinder (20 l, 200 bar), GENIE is approx. 20% (5 kg) lighter and can hold 30% more gas than the steel cylinder.

Water volume	Filling pressure	Empty cylinder weight	Cylinder diameter	Cylinder height
10 l	300 bar	15,9 kg	320 mm	570 mm
20 l	300 bar	22 kg	320 mm	662 mm

GENIE®, HIQ® and REDLINE® are registered trademarks of The Linde Group.

## Innovative.

Innovative, ergonomic functions make working with GENIE easier than ever.

