Ingersoll Rand **OEM Solutions**

CF1000H AIR END HIGH PRESSURE SOLUTION

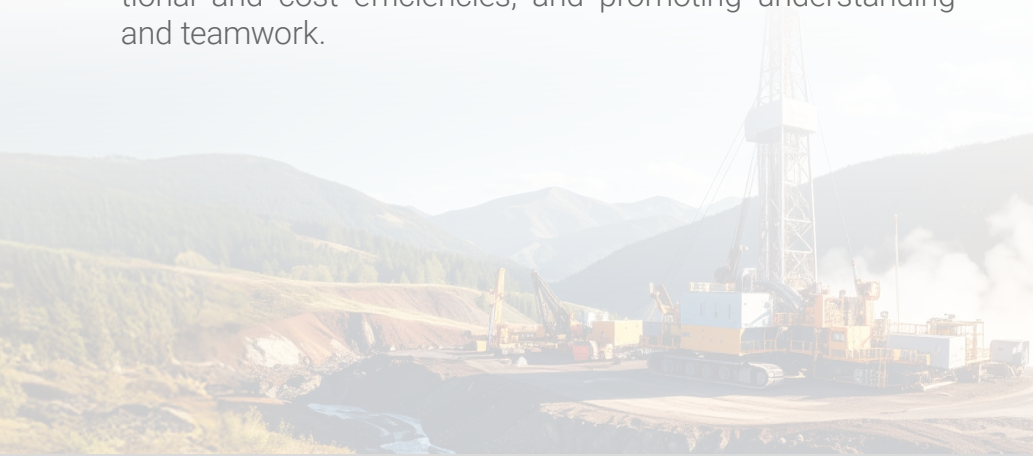
for Mining and Construction Machinery

Enhance Your Products With Our Bulletproof Compressed Air End Solutions

Who is Ingersoll Rand OEM Solutions?

Ingersoll Rand OEM Solutions is a combination of three iconic OEM compressor brands: Ingersoll Rand, GHH RAND®, and Tamrotor. Together we provide **a comprehensive screw compressor portfolio from air ends to complete compressor modules.** We work directly with Original Equipment Manufacturers (OEMs) who use compressed air inside their products such as mining and construction machinery, ground support, fire and rescue systems, and more. **We provide you with the main components of our market-leading industrial air compressors and help you integrate them into your products, allowing you to outpace your competitors.**

We are dedicated to forming long-term, meaningful relationships across industries around the globe, improving operational and cost efficiencies, and promoting understanding and teamwork.



Your Benefits

Ingersoll Rand OEM Solutions integrated co
several key benefits that will help you bring your mac
level:

Reduced Operating Costs

Integrating our compressor components you can maximize the ef-
ficiency of your products and minimize their energy consumption to make them even more appealing to your customers

Unmatched Reliability

Engineered to last, with proven track record across the most demanding applications, our solutions help you enhance your product overall dependability

Versatility

Benefit from our engineering expertise and vast application knowledge and obtain compressor solutions tailored to your specific needs, so you can check all your customers' boxes

Global Support

Leveraging Ingersoll Rand's global footprint, we provide you with help and support at every stage of your journey, wherever you are

Applications Overview

Our components are engineered to excel in various high-pressure applications:

Rock Drilling Rigs:

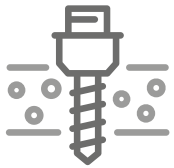
Essential for surface drilling and underground mining, our compressors deliver the high-pressure air necessary to penetrate the hardest rock formations. They ensure consistent airflow for geothermal drilling and water well creation.

Tunneling Equipment:

Our compressors power machinery for spraying concrete in tunnel construction and operate ANFO charging devices for precise explosive placement in mining and tunneling operations.

End of Borehole Air Flushing:

After drilling, air flushing removes debris using compressed air. Our compressors facilitate this process, ensuring clean boreholes ready for further operations.

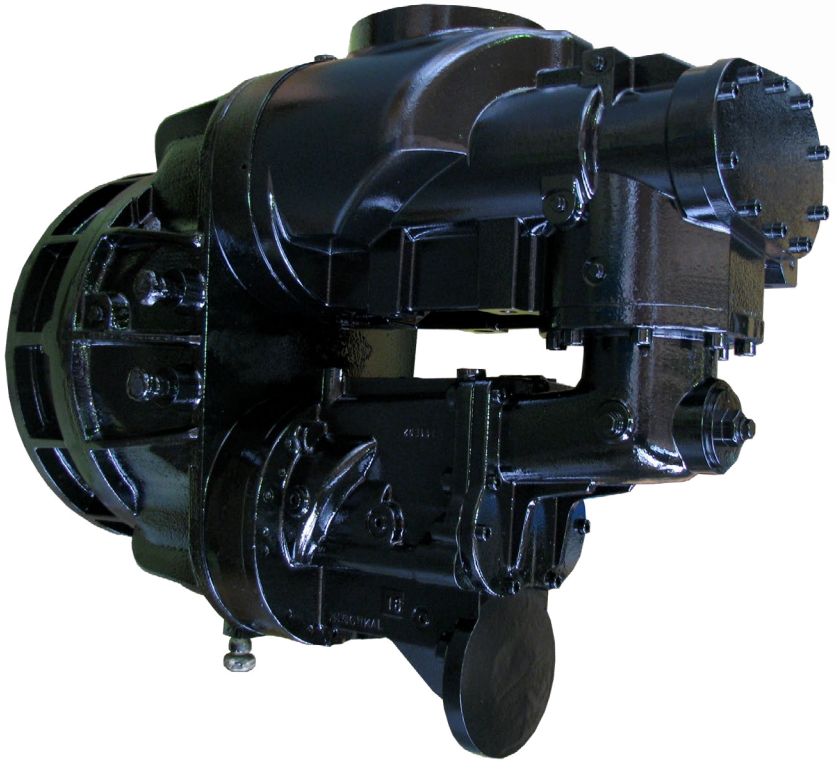


Down-the-Hole (DTH) Drilling:

DTH applications require compressed air to power hammers for rock drilling. Our compressors provide the necessary pressure and airflow, supporting efficient drilling operations.

CF1000H Air End Overview

Ingersoll Rand's CF1000H oil-injected screw air-end delivers up to **29 m³ of air per minute (1,024 cfm)** at a rock-solid **36 bar (522 psi)**, all while drawing a lean **354 kW (about 475 hp)** and slashing your kWh bill thanks to its low specific-power curve. At just 976 mm long, 560 mm wide and 885 mm high, the 645-kg unit slips easily into drill rigs or portable compressors, yet shrugs off round-the-clock abuse on the dustiest construction or deepest mining site. When the other compressors knock off for a cool-down, the CF1000H just keeps pushing air—and your project—forward.



Highly efficient

The CF1000H utilizes precision-engineered rotor profiles to maximize air compression efficiency, reducing energy consumption and operational costs.

Unmatched durability

Constructed with high-quality materials and designed for continuous 24/7 operation, the CF1000H ensures long-lasting performance in demanding industrial environments.

High pressure performance

Capable of delivering up to 36 bar (522 psi), the CF1000H meets the rigorous demands of applications requiring high-pressure compressed air.

Low maintenance

Engineered with durable components and an efficient design, the CF1000H minimizes maintenance requirements, enhancing uptime and reducing service costs.

Compact design

Its streamlined dimensions facilitate seamless integration into various equipment configurations, optimizing space without compromising performance.

Versatile

Suitable for a wide range of industries, including construction, mining, and drilling, the CF1000H adapts to various operational needs, providing flexibility and reliability.

CF1000H Air End Specifications

Power (kW/hp)		Discharge Pressure, abs. (bar/psi)		Volume Flow (m^3/min/cfm)	
Min	Max	Min	Max	Min	Max
42.7/57.3	354/474.5	15/217.6	36/522	5.7/200.4	29/1023

Lenght (mm / in)	Width (mm / in)	Height (mm / in)	Weight (kg)	Inlet DN (mm)	Outlet DN (mm)
976 mm / 38.43 in	560 mm / 22.05 in	885 mm / 34.84 in	645	150	80

ST35-30 Oil Separator Tank

For peak performance in challenging industries, your equipment must stand up to the test. Our high-pressure and high-flow separator tank is engineered for excellence, with an **oil carryover that can reach as low as 0.8 mg/m³***. The compact design with lightweight components ensures easy maintenance without compromising performance. Say goodbye to unnecessary downtime and hello to seamless operation.

- **Supreme Oil Separation:** Low oil carryover, saving costs and benefiting the environment.
- **Lightweight and Compact:** Weighing only 310 kg (683 lbs), with a design that saves space.
- **Ease of Maintenance:** Equipped with a lightweight lid and three smaller separator elements, reducing the need for lifting tools during service.

ST35-30
Oil Separator Tank

* Internal performance tests with the GHH Rand® CF1000H Air end.

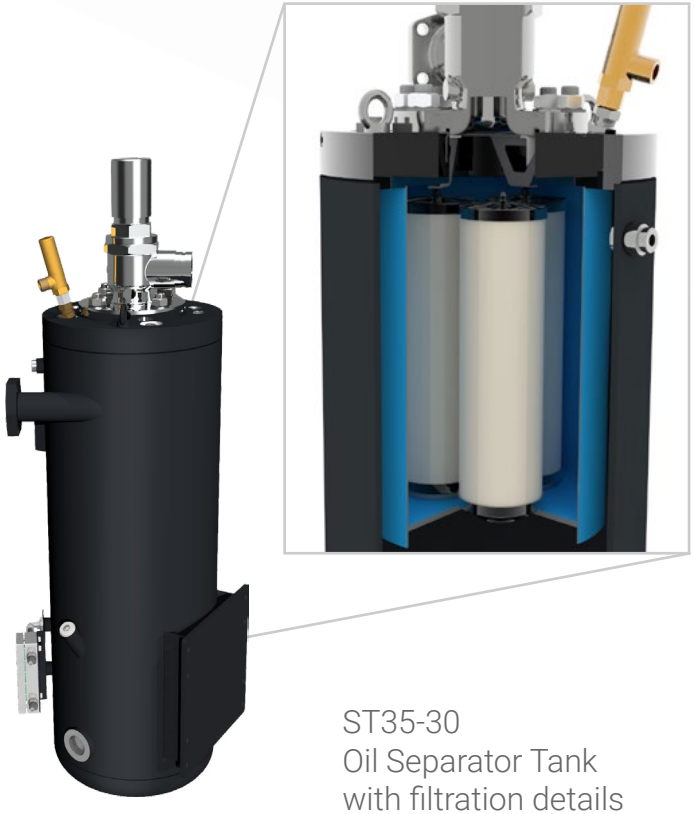
Technical Specifications

ST35-30 Oil Separator Tank

	Metric	Imperial
Capacity min./max.	6.5 / 30 m³/min	230 / 1060 cfm
Min./max. operating pressure	8 / 35 barg	116 / 522 psig
Pressure drop at max capacity and pressure	0.32 bar	4.64 psig
Oil flow, max.	370 l/min	98 gal US/min
Oil quantity, min./max.	46 / 65 liter	12 / 17 gallon US
Weight	310 kg	683 lbs
Pressure relief valve opening point	35.5 bar	515 psig
Working temperature	+0...+130°C	+32...+266°F
Separator elements, in to out	3 pcs	
Oil carryover	< 3 mg/m³ *	
Max. tilt angle	20°	
Oil level glass	Visual, explosion proof	
Available approvals	PED / multiapproval (ASME+CRN+AS1210)	
Dimensions, W x L	ø 457 mm x 1762 mm	ø 18 in x 69 in

* Internal performance tests with the GHH Rand® CF1000H Air end.

Options		
Capacity oil level sensors	Supply voltage	8 ... 9 V DC
	Current supply (state OFF / ON) - NAMUR	≤ 1 mA / ≥ 2.2 mA
	Max. internal values	Ui = 12 V DC; Ii = 15 mA; Pi = 45 mW; Ci = 15 nF; Li = 10 µH
	Coupling capacity / Electric strength	44 nF / 250 V AC
	Reference value of LC parameters of used cable	Typical C < 150 pF/m; Typical L < 0.8 µH/m



ST35-30
Oil Separator Tank
with filtration details

Oil Control Manifold

Seamlessly integrated solution

The Oil control manifold is a comprehensive solution designed for optimal performance and ease of maintenance. Featuring an integrated oil filter, thermostatic valve, and oil stop valve, **it ensures precise oil management and reduced downtime.** With connections for cooler and all air end oil ports, it provides seamless integration into your 2-stage air end system. Its compact and robust design makes it an essential component for high-efficiency, reliable operations.

Benefits at a glance and key facts

- **Oil Filter:** Ensures clean oil supply, enhancing longevity of the equipment.
- **Thermostatic Valve:** Regulates oil temperature for optimal performance during cold starts and normal operation.
- **Oil Stop Valve:** Protects the air end during stops.
- **Pressure Reducing Valve:** Optimizes oil injection for each stage of the air end.
- **Oil Connections:** Simplifies assembly, all oil connections in one central place.
- **Pressure Measurement:** Possibility to add oil filter health sensor.

Main Dimensions (L/W/H)	Weight	Designed for
285 x 230 x 540 mm 11.22 x 9.06 x 21.26 inches	35 kg 77.16 lbs	CF1000H Air end

Lubricants

For GHH RAND oil-injected air ends we developed this series of high performance coolants. For contact cooled air ends this lubricant provides cooling in the compression chamber and lubrication of gears and bearings.

PRIMECOOL®

A mineral coolant containing highly refined base oils and additives with an approved operating life of up to 4.000 running hours.

PRIMECOOL PLUS®

A synthetic coolant based on polyalfaolefine, offering an extended life cycle, with an approved operationg life of up to 8.000 running hours.

Warranty

An additional and valuable benefit of using the GHH RAND family of PRIMECOOL® & PRIMECOOL® PLUS lubricants is an increased warranty period from 12 months up to 24 months for PRIMECOOL® use (limited to 12.000 running hours) and to 36 months for PRIMECOOL® PLUS with unlimited operating hours.

Buy The Bundle And Get An Attractive Price Advantage

- **Optimized to work together** with highest efficiency and easy to use
- **Bundled pricing:** more value than piecemeal purchasing
- **Bundle perfectly suited** for demanding high-pressure applications

Ingersoll Rand **OEM Solutions**

REQUEST A QUOTE

VISIT OUR WEBSITE

Service Solutions

The Ingersoll Rand OEM Solutions team is dedicated to supporting you throughout the whole equipment lifecycle. Our unique engineering services, innovative components, valuable maintenance support, spare parts and lubricants are the corner stone of our full lifecycle solutions. Using genuine OEM parts provides optimum value to you, maximizing uptime and overall productivity. Our range of top-quality parts and services includes:

- **Warranty**
  Ingersoll Rand OEM Solutions products come with **up to 24 months warranty** from start-up. Warranty can be further extended by using genuine oil, spare parts and service.

- **Maintenance and Spare Parts**
  Our goal is to support your maintenance efforts to minimize downtime and costs, while also making the whole process as easy for you as possible. To facilitate maintenance, our documentation includes product specific spare part recommendations and maintenance kits, detailing change intervals for wearing parts such as filters, oil separators, inlet and discharge valves, and more. We maintain a stock of original spare parts and offer Air end exchanges to meet your needs. This approach makes post-purchase care of our products.

- **Lubricants**
  All our lubricants will ensure the protection of your assets while providing lower full life cycle costs. They will reduce risk and maximize uptime for your customers and their investment.

Global Presence

Ingersoll Rand **OEM Solutions**

Lean on us to make life better

Contact us today to discover how our gas compression solutions can power your success!

CONTACT US