

Global Kaishan



-  R&D and Manufacturing Center
-  Shanghai, China (Headquarters)
-  Sales and Service Center
-  Geothermal Power Plant



# OFC | 1500

## OIL-FREE PORTABLE SCREW AIR COMPRESSOR



The OFC1500 all-new oil-free mobile screw air compressor is tailor-made for the operating conditions of the oil-free engineering market and oil-free standby market. Leveraging its technical prowess of **"truly oil-free, no compromise"**, it redefines the professional standards for high-end industrial and special application markets.



Over nearly 70 years of development, Kaishan has consistently been a global advocate adhering to the principle that "technology drives the future" in the field of compressors. The newly launched Kaishan oil-free mobile screw air compressor, OFC1500, embodies the tradition of this industry-leading concept.

Following meticulous cross-departmental technical collaboration on a global scale, the oil-free screw air end, which is developed and produced by Kaishan's Alabama factory and boasts the latest technological intellectual property rights, is adopted. It can meet your specific requirements. The OFC1500 oil-free mobile screw compressor not only provides the power, fuel efficiency, stable application, and user-friendly operation functions you need but also complies with current and future emission regulations.

Kaishan's high performance OFC1500 oil-free mobile screw compressor can be fully utilized in various application scenarios you require: emergency standby, rental market, industrial applications, and so on.



## Developed by Kaishan's U.S. Factory and Widely Applied in China



- Kaishan Patent Technology : Oil-free Air End – Developed and Manufactured in Kaishan's U.S. Factory
- Kaishan Patent Technology : Exhaust Hyperbolic Muffler
- New Host Rotor Technology: Y-profile Screw Host
- Multi-layer Rotor Coating
- Multiple Air Seals and Oil Seals



- Equipped with SKF Bearings
- Dual-purpose Host Jacket Cooling (Oil Cooling)
- Integrated Design of Oil Tank and Transmission Case, Reducing Floor Space
- High-precision Synchronous Gears Ensure Minimum Rotor Clearance and Improve Host Efficiency

## Multiple advanced technologies of Cummins ensure strong power and low fuel consumption.



### Cummins QSZ13-C550 Engine

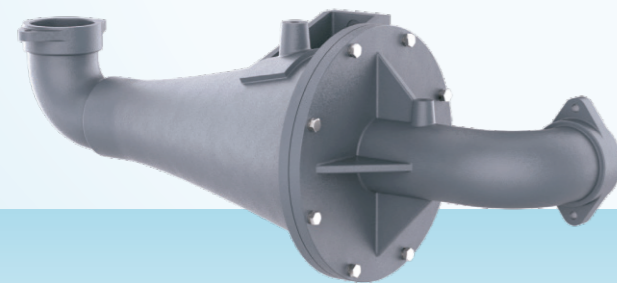
- Displacement: 13L
- Power coverage: 380-575HP
- Maximum torque: 1900-2300N.m
- Emission: China Non-road Stage III
- Type: Turbocharged and intercooled

Cummins' ultra-high pressure (XPI) fuel injection system operates at an ultra-high pressure of 2400bar, far exceeding the industry average level of 1800bar, enabling more efficient combustion.

Cummins HOLSET high efficiency supercharger, with four valves allowing a large intake air volume, makes combustion more sufficient and more fuel-efficient.

It has multiple fuel-saving functions such as an electronic fan and air conditioning.

The intelligent engine and gearbox system are professionally matched to have a wide economic fuel consumption range and a wider economic speed range, so that the engine operates in the fuel-efficient zone most of the time.



### Integrated Pulsation Damper

- Industry-leading Low Noise
- Reduce Pressure Peaks
- Laminar Flow



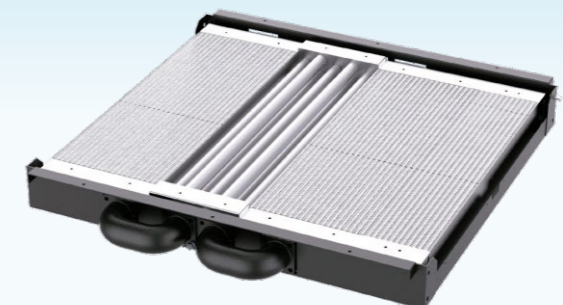
### Hydraulically Controlled Inlet Valve

- Patented Hydraulically Controlled Inlet Valve, Responsive
- Realize Light-load Startup of the Unit, Reduce Grid Impact
- Mechanical Interlock for Inlet Blowdown, Efficient and Reliable
- Effectively Reduce Unloading Noise



### Air-cooled Type: Stainless Steel Pre-cooling + Plate-fin Main Cooling

- Efficient and Energy-saving Pre-cooler
- Efficient and Reliable Two-stage Cooling
- Supply Air Temperature is Only 8°C Higher than the Ambient Temperature



# Assured Service Guarantee

## Provision of Reliable-quality Spare Parts and First-class After-sales Service.



Regardless of the project you undertake, Kaishan mobile screw compressors are capable of delivering suitable solutions.

Ranging from our full range of Kaishan mobile oil-injected screw compressors to Kaishan's "On-demand, Oil-free & Cleaner, Rentable & Controllable" oil-free mobile screw air compressors, we have solutions that meet your requirements.

A customer-centric successful enterprise needs not only a comprehensive range of equipment but also an experienced global service network at your disposal.

Kaishan stands side by side with you at every step. Kaishan mobile screw air compressors have been providing high-quality services consistently.



Original Spare Parts



Fast Response



Professional Consultation



class zero  
OIL-FREE ROTARY

# Product Parameters

Engine	
Brand	Cummins
Model	QSZ13-C550-30
Emission	Tier 3
Number of Cylinders	6
Bore (inches/mm)	5.12 / 130
Stroke (inches/mm)	6.42 / 163
Displacement (cu in/l)	793.31 / 13
Rated Speed (rpm)	1900
Idle Speed (rpm)	1300
BHP @ Rated Speed	550
Fuel/Cooling Method	Diesel/Water
Electrical Volts/Batteries, CCA	24 / (2) 1400
Engine Oil Capacity (US quarts/l)	36.99 / 35
Radiator Coolant Capacity (US gallons/l)	7.25 / 23.1
Adaptable Altitude (feet/m)	14776.9 / 4504
Fuel Consumption (gallons per hour/liters per hour):	
-At 75% Load	20.7 / 78.4
-At 100% Load	23 / 87.1
Fuel Tank Capacity (gallons/l)	237.75 / 900
Operating Time (hours)	10 & 11.4

Executable Standards: API, DNV, ASME... Optional

Compressor	
Type	ISO-1217 Two-stage Screw Compression
Displacement (cfm/m <sup>3</sup> min)	1500 / 43
Rated Operating Pressure (psig/bar)	150 / 10.0
Pressure Range (psig/bar)	100 to 175 / 7.0 to 10.3
Outlet Size	DN80
Number of Outlets	1
Separator Tank Volume (gallons/liters)	Oil-free
Hydraulic Oil Capacity (gallons/liters)	48.87 / 185

Dimensions and Weight (with Travel System)	
Overall Length (inches/mm)	248.17 / 6300
Overall Width (inches/mm)	89.37 / 2270
Overall Height (inches/mm)	103.19 / 2621
Wheelbase (inches/mm)	86.61 / 2200
Tire Size	16.25x7x11.25 (6)
Transport Weight (pounds/kilograms)	21098 / 9570

Dimensions and Weight (without Travel System)	
Length (inches/mm)	238.98 / 6070
Width (inches/mm)	89.37 / 2270
Height (inches/mm)	81.10 / 2067
Transport Weight (pounds/kilograms)	Not Applicable

\*Optional

## The OFC1500 features application-based multifunctional options.

### Automatic Start

It incorporates the connection of a voltage relay switch, enabling the operator to operate the machine within a certain range, along with a pressure detection system. If the system pressure drops below a specific level, the system will start the machine automatically.

### Charger

It ensures the battery remains fully charged; the option for backup when the machine is in a long-term hibernation state is a highly useful function for the backup or rental market.

### Oil Replenishment System

By permitting up to 500 hours of full-load operation between maintenance intervals, it keeps the engine sufficiently lubricated and reduces maintenance costs.

### Other Global Standards

ASME, CE, and UL are optional.