Gardner Denver

TurboScrew

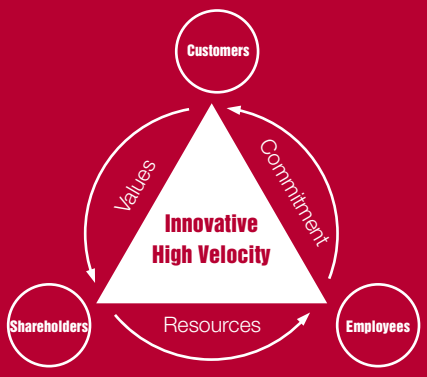
Portable Compressor

C200TS-24 C220TS-21 C210TS-18 C230TS-17
C240TS-14 C250TS-12 C260TS-10 C270TS-9

Oil saved by 30% compared to conventional compressors

The Gardner Denver Way ——DELIVER

Differentiate
Evolve
Listen
Innovate
Velocity
Execute
Results



Founded in 1859 and headquartered in Milwaukee, Wisconsin, Gardner Denver is a leading global supplier of fluid transferring equipment. It produces industrial air compressors, liquid ring pumps, blowers as well as reciprocating pumps, water injection systems, loading arm, etc. for the production of petroleum and natural gas, oil well maintenance and drilling.

Adhering to the principle of providing high-quality products, we have supplied products for many end markets and our products have been applied widely. We have become one of the first choices of high-end customers and governments. Our business as well as offices, branches and subsidiaries are located across the world. We have 40 manufacturing plants in the world and the sales of all markets, excluding the US, account for 67% of the turnover. Our key products rank the top among the global industry.

Gardner Denver had been listed in American Stock Exchange. It is one of the world's top 1000 Enterprises. The FORTUNE ranked it at 69th place among the top 100 enterprises with fastest growth.

Our mission is to satisfy our customers, shareholders and staff with continuous improvement of business processes, innovation and speed, provide services in line with the highest ethical standards and become the leader of every market segment in the industry.

Gardner Denver insists on providing good services and innovative products and pursues sustainable development on the basis of lean operation and selective acquisition.

Gardner Denver's Mission Statement

We provide a safe and clean working environment for our partners, encourage individuals and teams to achieve outstanding performance, and promote respect and integrity.

For our customers, we deliver high-quality products and services on time and at competitive prices

For our suppliers, we keep long-term mutual benefit and cooperation to ensure mutual sustainable development.

For the service communities, we ensure a clean environment and better life quality.

We always follow the highest ethical standards.

GARDNER DENVER
1859 2009
SESQUICENTENNIAL

- One of world's Top 1000 Enterprises
- Ranked 69th place among the top 100 enterprises with fastest growth by FORTUNE
- Ranked 26th place among the best 100 medium-sized enterprises by FORBES

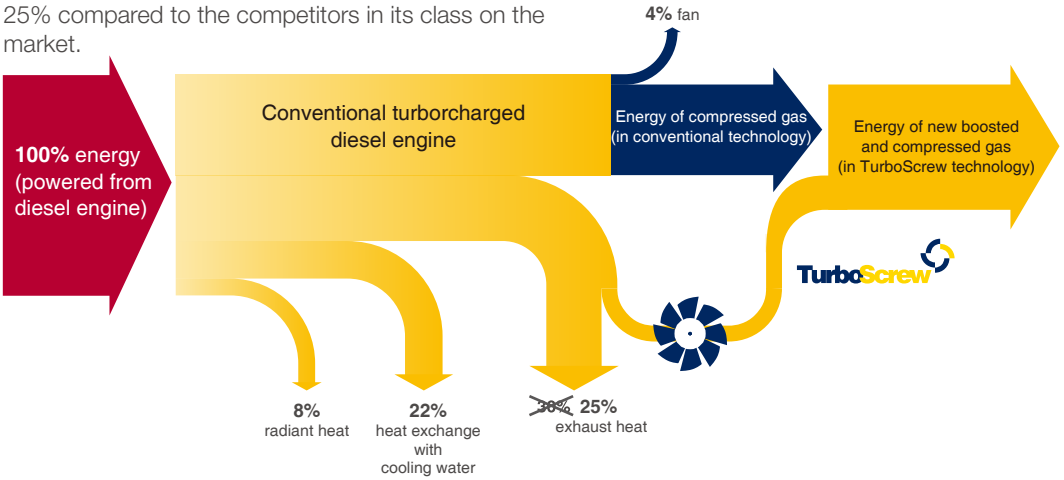
Ideal for energy-saving applications

Operating costs reduced by 30% due to patented dual-turbine boosting technology

C-TS series is designed with unique two-stage compression solutions in the world. The first stage is equipped with a centrifugal compressor to push gas exhausted from diesel engine, allowing that air is compressed to the setting pressure, intercooled, and delivered into the screw compressor for secondary boosting. The first-stage compression power of GD C -T S "consumes no energy" compared to conventional 2-stage screw compressor, which is fully powered from the output shaft of the diesel engine. Under the same operating conditions, its oil consumption is reduced by 25% compared to the competitors in its class on the market.

TurboScrew dual-turbocharging technology.

The new units are designed with world's unique GD turbocharging technology for main screw unit. With single-stage compressor head, turbocharged engine may force air intake of screw compressor to increase compression efficiency, displacement and pressure.

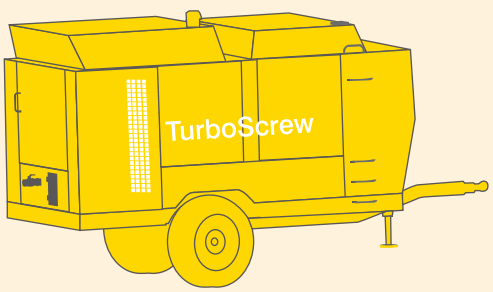


Compared to conventional technology, a TurboScrew compressor in turbocharging technology additionally increases energy of 14% approximately, measured under full-load condition.

It features light weight and strong adaptability to environment

A lightweight TurboScrew compressor is only equipped with one standard vehicle for traction, with maximum traction weight of 3500 kg and strong maneuverability. It is especially ideal for field operation.

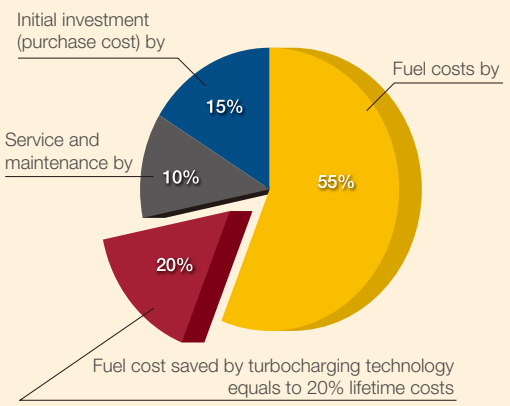
A new unit is designed with independently developed single-rail traveling technology. It features free travel, small turning radius inside and high ground clearance of chassis, so it is suitable for complicated operating conditions.



Great cost effectiveness due to fuel conservation

TurboScrew may save up to 30% fuel consumption, equivalent to 20% lifetime costs, compared to conventional compressor with the same output range under general operating conditions on site based on life more than 10,000 operating hours.

Users' benefits: Significant cost savings



The TurboScrew turbocharging technology features the most outstanding advantage of fuel saving, i.e. each design stage highly outperforms to maximize efficiency and cost saving and strictly meets local standards of emission.

The mobile TurboScrew features advanced high pressure output, operating reliability and low operating costs.

Soft start
The engine life is extended through reduction in engine pressure during starting and allowing that engine realizes operating temperature with no-load compressor.

High-effective TurboScrew technology
Diesel consumption is reduced by 30%. It features higher compression efficiency, higher displacement and higher pressure.

24 V electrical system
It ensures sufficient power output and operating safety under cold-start condition.

Excellent profile and structural design
It uses outline features of GD family to meet users' demands. In addition to the exquisite structural design, it also adopts premium parts imported from Germany.

Bolted independent compartment plates
Compartment plates fully galvanized and electrostatically sprayed features outstanding protection from damage and corrosion. Bolted independent compartment plates are easy to replace.

Side wing door easy to open
Outstanding space design for convenient access and maintenance

Wide range of models

There are 8 variants (8.6 to 24 bar， 20 to 27 m3/m in) to meet demands of a variety of applications.

Imported dual-turbine Cummins diesel engine

Equipped with Cummins (one of world leading diesel engine manufacturers) water-cooled QSB turbocharged engine series, with power output of up to 228 kW

New unit is equipped with imported engine conforming to Euro III emission standard. It outperforms engines with China Stage 1 and China Stage 2 emission standards on the market. EK series of screw compressor main unit imported from Germany features high compression efficiency, low noise, low profile, convenient installation, etc.

- **High reliability and long service life**
- **Cost-effective, quiet and environmentally friendly**
- **Outstanding cold start capacity**
- **24 V electrical output system**

High pressure common rail (HPCR) fuel system

Injection pressure of up to 1600 bar to realize multi-point injection

Quick accelerator response at various revolutions, with high efficiency of power output, better fuel economy and lower noise.

Up to **24** BAR

TurboScrew dual-tubine boosting compressor - Small size, high efficiency

- Low operating costs
- Fuel consumption reduced by 30% equivalent to 20% lifetime costs
- One of lightest products in its class on the market, 2000 kg lighter than that of competitors.
- It is easy to be towed with one standard vehicle. It conforms to requirements that the traction weight should not be greater than 3500 kg.
- Thanks to HPCR, the injection pressure may be up to 1600 bar to realize multi-point injection, with quick accelerator response at various revolutions, high efficiency of power output, better fuel economy and lower noise.
- A selection of variants (8.6 to 24 bar, 20 to 27 m3/min) to meet demands of a variety of applications.
- Powerful and reliable to meet the most demanding requirements of industry.
- Specially designed for extreme ambient temperature ranging from -10 to 50℃ (Standard version).

Newly developed computer based control system

- Fitted with electronic control system and LCD at a glance
- Touch button allows for simple pressure setting
- It supports many languages for easy operation.
- It may provide immediate error codes so that engineers and after-sales technicians can troubleshoot properly.

Excellent engineering design

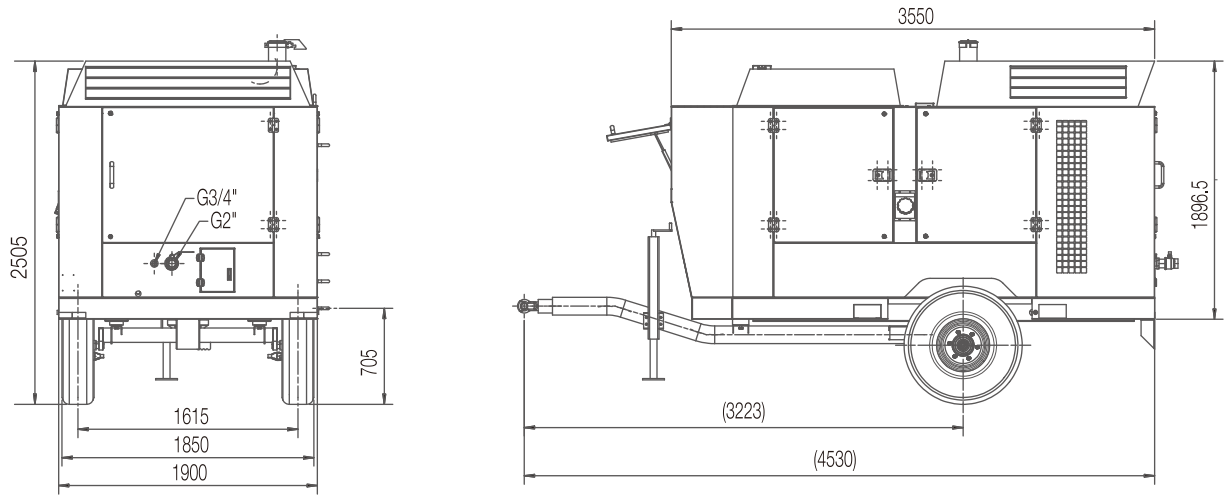
Single-shaft traveling system is designed for actual operating conditions in China. Independent enhanced cooling system may accommodate demanding operating environment compared to European and American versions. Fully computer-based operating system allows for easier maintenance. Three-stage fuel filtering system is more suitable for fuel quality of China. Thanks to lowest profile and lightest weight, it is easy to move and suitable for integrated drilling machine.

Applicable for plateau of 5000 m

GD C-TS series of mobile diesel powered compressor is suitable for demanding environment with high altitude, low temperature, large dust particles, and complicated structure of rock. In February, 2014, this series of mobile compressor successfully passed test on the construction site with an altitude of 5000 m and it outperforms the various models that the customer used in the past with respect to drilling speed, pressure holding, oil consumption, noise, cold start, etc. Therefore, it is highly appraised by customers.

Model		C200TS-24	C220TS-21	C210TS-18	C230TS-17	C240TS-14	C250TS-12	C260TS-10	C270TS-9
Main compressor		Exhaust turbocharged centrifugal primary boosting and screw compressor fulfill secondary compression thanks to imported main compressor.							
Discharge pressure	bar	24	21	18	17	14	12	10	8.6
Displacement	m^3/min	20	22	21	23	24	25	26	27
Engine		Engine is imported Cummins QSB6.7 turbocharged engine.							
Displacement of diesel engine	L	6.7							
Emission standard		Euro III							
Rated power of diesel engine	Kw/HP	228(308)							
Rated revolution of diesel engine	rpm	2400							
Rated idling speed of diesel engine	rpm	1000							
Voltage of electrical system	V	24							
Capacity of fuel tank	L	350							
Cooling water temperature of diesel engine	℃	≤107							
Exhaust temperature of compressor	℃	≤117							
Specifications									
Overall dimensions	mm	4530×1900×2525 (with tractor)							
Chassis system		It is equipped with single shaft and two wheels for speed limit of 20 km/h and with optional skid.							
Weight	kg	3300				3340			
Interface dimensions		1×G 2" 1×G 3/4"							
Noise	dB	76±3							
Applicable altitude	M	≤5000							
Applicable ambient temperature	℃	-25~52							

1) In accordance with ISO 1217 Ed.4 2009, Annex D
2) Based on legal limit value defined in 2000/14/EC directive
3) Noise level measured at 7 m from machine in accordance with PNEUROP/PN8NTC2.2



TurboScrew

Innovative Products and Services

Reliable, Ergonomically Smart Solutions of Compressed Air

Options:

- Post-cooler
- Superfine filter
- Integrated generator function
- Base tank
- Exhaust spark extinguisher
- Exhaust particulate filter
- Cold starter

Gardner Denver

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