



FSSCURTIS



Powered by  **FS**ELLIOTT

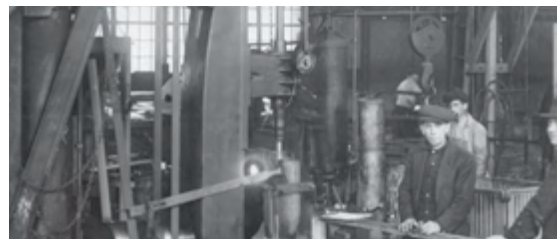
**AIR-COOLED / WATER-COOLED
CENTRIFUGAL AIR COMPRESSOR
250 - 350 HP**

ECO-TURBO



**SOME COMPANIES ARE FOUNDED ON HARD WORK.
OTHERS ARE FOUNDED ON IDEALS.**

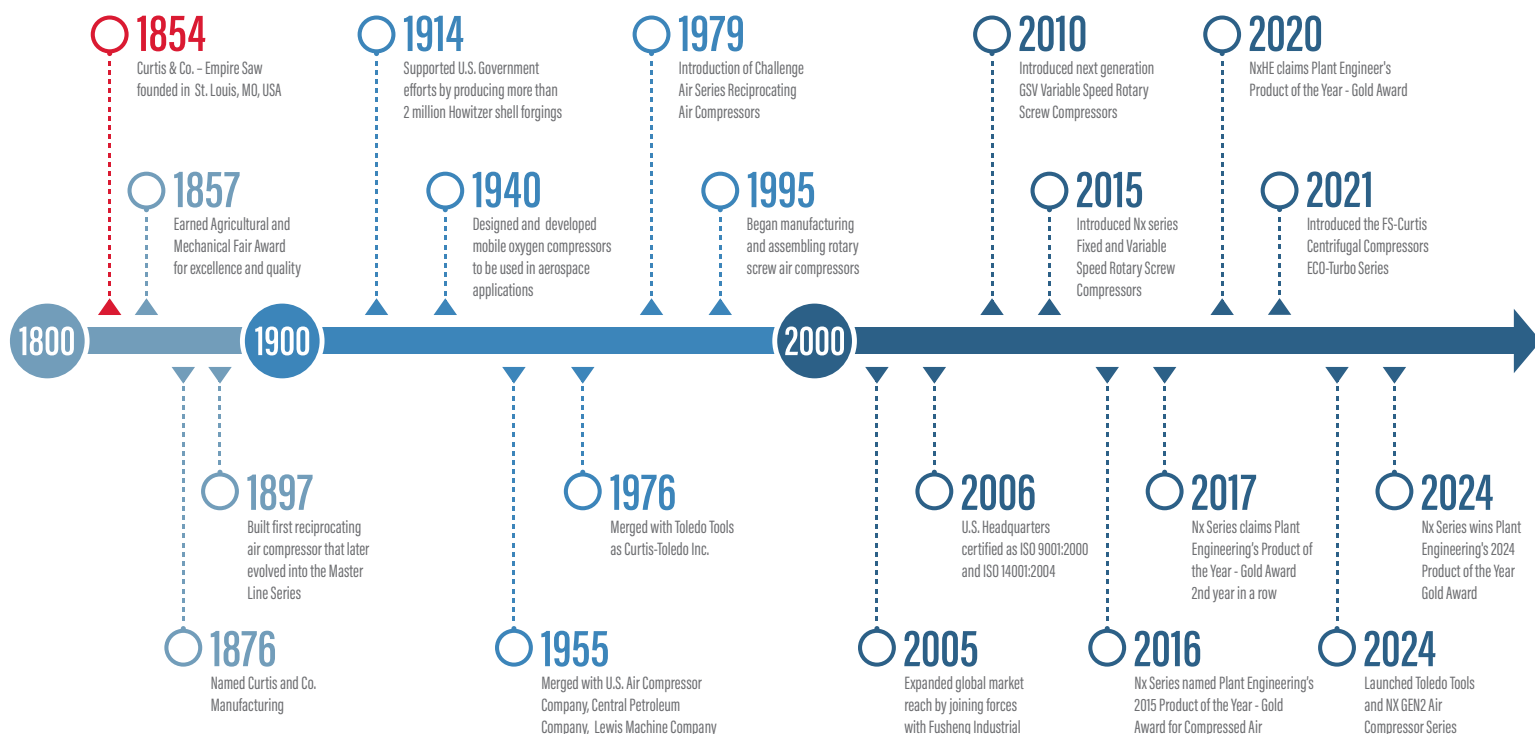
**FS-CURTIS WAS
FOUNDED ON BOTH.**



More than 170 years ago, the FS-Curtis way of doing business was established through two key commitments: a dedication to building quality products and a dedication to responsive customer service.

Over the decades, the company and its products have evolved through innovation and new technologies. But those commitments to quality and service remain unchanged. Today, just as in 1854, FS-Curtis customers can depend on our products for reliable, long-term service. Equally as important, they can depend on getting the same from our people.

A HISTORY OF EXCELLENCE



SIMPLE AND POWERFUL EFFORTLESS OPERATION, HIGHLY EFFICIENT

LOWER LIFE-CYCLE AND MAINTENANCE COSTS*

The ECO-Turbo Series combines decades of engineering experience from FS-Elliott, partnered with the trusted and dependable reputation of FS-Curtis to bring the first reliable, efficient, and innovative **air-cooled** or water-cooled centrifugal compressor to the market in the 1,200-1,500 cfm range.

The ECO-Turbo Series is designed for a wide range of industrial applications where 100% oil-free compressed air is required. Available in 185kW - 250kW; 250 HP - 350 HP, ECO-Turbo is a perfect fit for oil-free applications typically served by oil-free dry screw technology.



The simple and enclosed design of the compressor unit offers high reliability and ensures safe operation even under the most demanding conditions. The FS-Elliott engineered titanium impellers are designed for optimum efficiency and a long life.

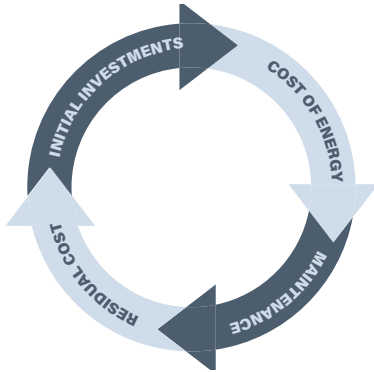
ECO-Turbo compressors are easy to install, operate and maintain making them the right choice when air quality is critical for your compressed air application.

**Compared to oil-free dry screw*



WHY CENTRIFUGAL OVER OIL-FREE DRY SCREW?

The ECO-Turbo series maximizes uptime and minimizes life cycle costs compared to oil-free dry screw compressors.

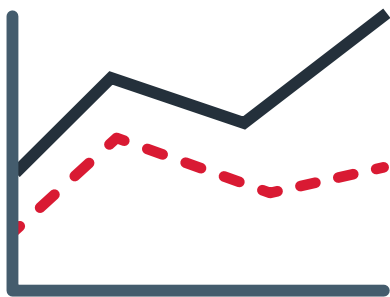


LOWER LIFE CYCLE COSTS

Let's face it, the initial purchase price of any air compressor is only a fraction of the total cost of ownership. Power consumption, maintenance costs, and downtime must be figured into life cycle costs. When compared to oil-free dry screw, ECO-Turbo simply costs less to own!

LOWER ENERGY CONSUMPTION

Positive displacement oil-free dry screw compressors use teflon coated rotors to seal the compression chamber. The teflon wears quickly and efficiency drops up to 15% during the first 4,000 hours of operation. Dynamic compression, like ECO-Turbo, has no touching parts, resulting in no loss of efficiency. ECO-Turbo maintains its superior efficiency over its entire life.



LOWER MAINTENANCE COSTS

Inherently, there are fewer components in a dynamic compressor than an oil-free dry screw. The air and oil filters are the only components requiring regular replacement, so preventative maintenance costs are minimized with ECO-Turbo. Oil-free dry screw compressors require complete air end replacement about every five years, but the ECO-Turbo only needs inspection every six years. ECO-Turbo costs far less to maintain!

MORE UPTIME - LESS DOWNTIME

Minimal preventative maintenance requirements, and longer maintenance intervals equates to more uptime compared to oil-free dry screw. Your production efficiency depends on minimizing downtime and the ECO-Turbo delivers day in and day out!



FEATURES AT A GLANCE

Clean, Oil-free Air

The ECO-Turbo Series supplies 100% oil-free, Class 0 (ISO 8573) compressed air.

Ease of Maintenance

Optimized design with wear-free compression principle offers low maintenance and less downtime.

- Removable enclosure panels allow for easy access to all maintenance components
- Airend designed with horizontally split gearbox allowing for quick inspection of impellers and gears

Featured Advantages

Built to the highest levels of dependability, reliability & efficiency

- 100% oil-free, Class 0 (ISO 8573) compressed air
- 2-stage compression for greater energy efficiency
- Long service life
- Low maintenance costs
- Premium efficiency TEFC (IP55) main motor
- Wear-free titanium impeller designed for long life and optimum efficiency
- Sound enclosure with removable panels protects compressor from harsh environment

Standard Equipment

Premium PLC controller

- Provides 3 energy control modes to optimize energy consumption during operation
- 7" HMI touchscreen operation

Cooling water connection

- Available as water-cooled or air-cooled

Heavy duty inlet air filter

- Protects aero components with low pressure drop
- Reduced noise

High efficiency coolers

- Compact finned coolers provide excellent heat exchange properties
- Integrated aftercooler

Inlet and unloading valve

- Work independently or together depending on the control mode selected
- Adjusts the flow capacity and discharge pressure
- Helps save operation cost

Oil Mist Eliminator

- Ensures oil mist doesn't contaminate the compressor or environment

Optional Equipment:

- Heat of compression dryer solution available
- Zero-loss auto drain trap
- Extended Warranty Program
- Solid state motor starter
- Additional vibration probe on second stage
- Silicone-free components
- Factory performance test certificate

SIMPLE, PACKAGED, OIL-FREE AIR TO COMPETE WITH DRY SCREW IN THE 1200-1500 ACFM RANGE.



Class 0 100% Oil-free Air

Available air-cooled or water-cooled

Ease of maintenance

- Removable panels allows easy access to all maintenance components



Easy to install, operate, and maintain

iCommand-Touch Premium Controller:
HMI interface to PLC control for easy machine operation

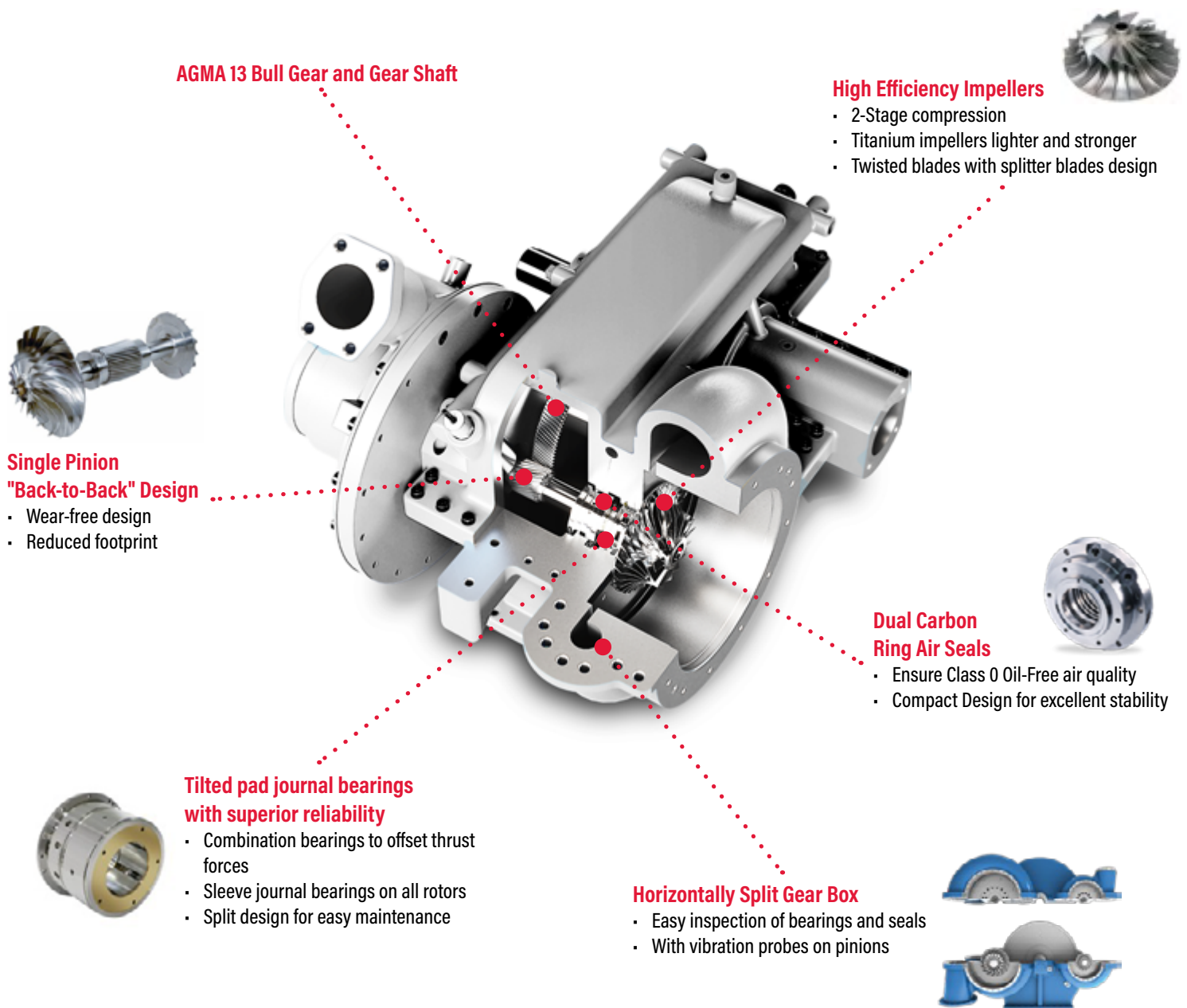


ECO-TURBO SERIES

FEATURES

ECO-TURBO AIREND

The heart of any air compressor is the airend, and the ECO-Turbo is no exception. Decades of centrifugal design and manufacturing have resulted in a simplified airend design that is highly efficient and less expensive to own. The single pinion "back to back" design reduces the footprint of the entire package, making the ECO-Turbo easy and convenient to apply in most oil-free industrial applications.



ECO-TURBO SERIES

FEATURES



Control System:

- New PLC platform
- Ease of Use
- Energy Efficiency
- Industry Leading Reliability
- Traditional Core Functionality
- Base Mode
- Suction Throttle
- Ambient Compensation Control (ACC)
- Pressure Band Optimization (PBO)

iCOMMAND-TOUCH PREMIUM CONTROLLER

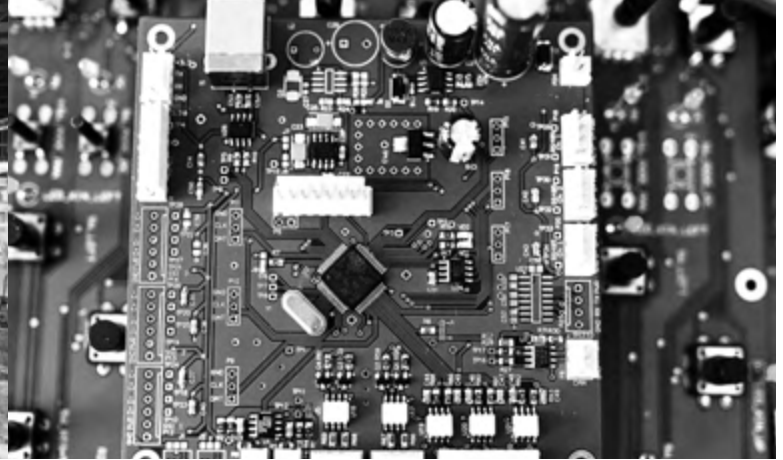
A new milestone for smart compressor control - focusing on energy efficiency and ease of use.

- Multi-language HMI with 7-inch touch screen
- EMF filter technology to avoid harmonics
- Monitors amp draw on main motor and fan motor
- Modular design
- Energy Modes:
 - Base Mode
 - Inlet valve stays 100% open and unload valve throttles to control discharge target pressure.
 - Compressor produces full flow and dumps excess to atmosphere.
 - Most efficient control mode for base load applications
 - Suction Throttle Mode
 - Inlet valve and unload valve throttle to maintain discharge target pressure
 - Compressor matches output to demand.
 - Most efficient control for trim or variable demand applications
 - Ambient Compensation Control
 - In Suction Throttle mode, compensates for varying ambient conditions that affect compressor surge point.
 - Most efficient operating mode under all conditions
- Discharge Pressure Control
- Pressure Band Optimization (PBO)
- Auto-Unload

INDUSTRY APPLICATIONS

FS-Curtis has earned the reputation for building the most rugged industrial-duty compressor you can buy. Our professional engineering staff and factory-trained distributor network are committed to supplying you with a complete offering of the very best in compressed air equipment.

- Large-scale manufacturing
- Automotive
- Mining
- Beverage
- Textiles
- Food
- Electronics
- Glass
- Pharmaceutical



ECO-TURBO SERIES

TECHNICAL DATA

WATER-COOLED

MODEL	CAPACITY (ACFM)	MOTOR (kW / HP)	DISCHARGE PRESSURE (PSI)	SOUND LEVEL (dBA)	DIMENSIONS (L x W x H in.)	WEIGHT (lbs.)
ET185	1,241	185 / 250	100	75	126 x 73 x 73	11,166
ET200	1,249	200 / 270	125			11,244
ET220	1,541	220 / 300	100			11,354
ET250	1,469	250 / 335	125			11,464

AIR-COOLED

MODEL	CAPACITY (ACFM)	MOTOR (kW / HP)	DISCHARGE PRESSURE (PSI)	SOUND LEVEL (dBA)	DIMENSIONS (L x W x H in.)	WEIGHT (lbs.)
ET185	1,242	185 / 250	90	82	126 x 79 x 87	10,835
ET200	1,250	200 / 270	115			10,913
ET220	1,512	220 / 300	100			11,023
ET250	1,462	250 / 335	115			11,133



CONTINUED COMMITMENT

A company history that dates 170 years is a company history that, to us, is just the beginning. FS-Curtis is committed to offering a world-class portfolio of products. Through the dependability of our people and our quality-focused manufacturing, FS-Curtis will continue to be the most trusted and dependable name in compressed air serving even more markets through our ever-growing global presence.

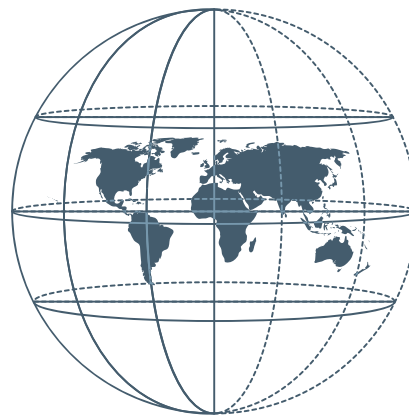


You can count on **FS-Curtis** to approach the next 170 years by staying true to the values and strengths that are appreciated by our customers today.

A WORLD OF DIFFERENCE

The FS-Curtis headquarters in St. Louis, Missouri, U.S.A. is the anchor of a larger global network. FS-Curtis builds quality products — and a quality reputation — at locations around the world.

In addition to our manufacturing and packaging locations, a large global network of sales agents and distributors ensures that sales and service support is available around the world, day in and day out.



ST. LOUIS, MO USA (HEADQUARTERS)

TAIPEI, TAIWAN (FUSHENG HQ) | SHANGHAI, CHINA (FUSHENG)
PITTSBURGH, PA USA (FS-ELLIOTT) | KONGEN, GERMANY (ALMIG)
PUNE, INDIA (FS-CURTIS) | HO CHI MINH CITY, VIETNAM (FUSHENG)



★ **AUTHORIZED DISTRIBUTOR** ★

INDUSTRIAL TOOLING TECHNIQUES

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Faridabad-121004, Haryana

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 Website:
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RELIABLE PRODUCTS ★ TRUSTED PARTNER ★ LASTING SOLUTIONS



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CORPLITERATURE: FSL-ETBROCHUREREV2
Improvements and research are continuous
at FS-Curtis. Specifications may change
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