FSCURTIS



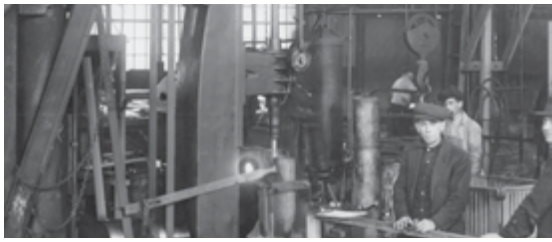
NXD SERIES

FIXED AND VARIABLE SPEED DIRECT DRIVE ROTARY SCREW AIR COMPRESSORS

15 - 37 kW

FS CURTIS
AIR COMPRESSORS







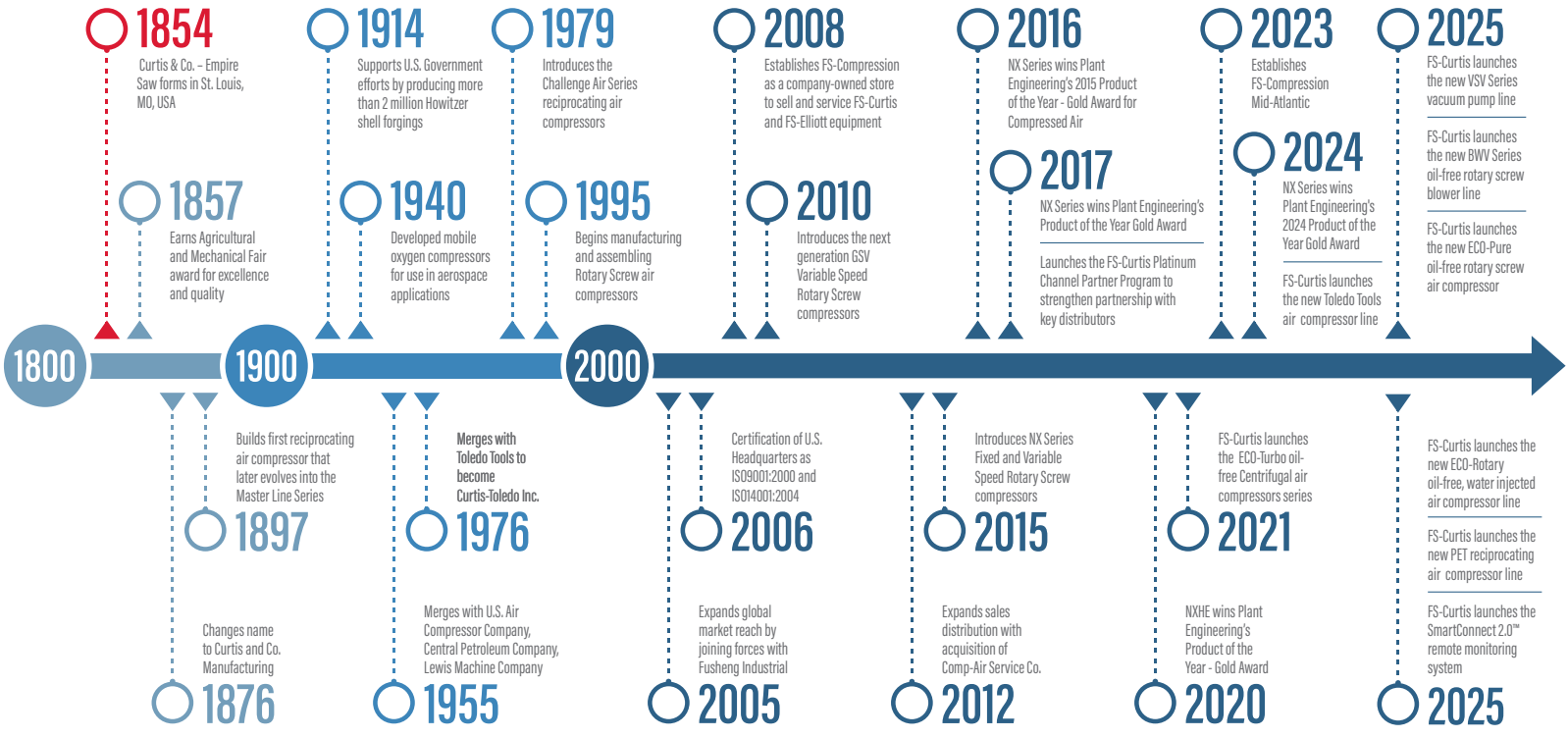
SOME COMPANIES ARE FOUNDED ON HARD WORK. OTHERS ARE FOUNDED ON IDEALS.

FS-CURTIS WAS FOUNDED ON BOTH.

One-hundred and seventy 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









HIGH-PERFORMANCE
LEGENDARY RELIABILITY

DIRECT DRIVE PERFORMANCE

The FS-Curtis NXD and NXV Series rotary screw air compressors are valued worldwide for their legendary reliability and industrial performance. Intuitive controls and diagnostics make them easy to use and service, too. Power efficiency is maximized with FS-Curtis' exclusive airend profile, centrifugal fan, and generously sized components - making the NX Series ideal for large industrial manufacturing and power generation.



NXD SERIES

FEATURES AT A GLANCE

EFFICIENT DIRECT DRIVE SYSTEM

Powerful design for maximum efficiency and reliability

- Delivering more power directly to the airend.
- Fewer moving parts reduces service time and costs.
- Ensures the motor and airend run at optimal speed, reducing stress and vibration, enhances reliability

dBA SHIELD NOISE REDUCTION

Designed for quiet operation.

- Centrifugal cooling fan and compartmentalized package air flow make for extremely smooth and quiet operation
- Extra thick, laminated oil-proof sound insulation greatly reduces noise
- Can be installed in applications where a quiet setting is critical

eCOOL® TECHNOLOGY

The ultimate in system protection and reliability.

- Protects critical components from compressor-generated heat
- Intelligent component layout optimizes cooling air flow through the package and improves overall efficiency and reliability
- Extends component life and reduces downtime

QUALITY COMPONENTS

Built to the highest levels of dependability and reliability.

- Exclusive FS-Curtis air end utilizes precision cut rotor profiles to maximize efficiency
- Premium efficiency TEFC (IP55, Class F) main motor protects against dust ingression and high operating temperatures, prolonging the life of the motor
- Components are generously sized to reduce pressure drop throughout the package, increasing overall efficiency

SUPERIOR PACKAGE DESIGN

Designed for low cost of ownership and sustainable reliability.

- Space-saving design
- Pulsation-free compressed air
- 100% continuous duty
- Easy to maintain
- Controls
  - Load/Unload
  - Modulation
  - Variable Speed (8kW+)
- Energy efficiency at full load delivers more air for the money in a smaller footprint

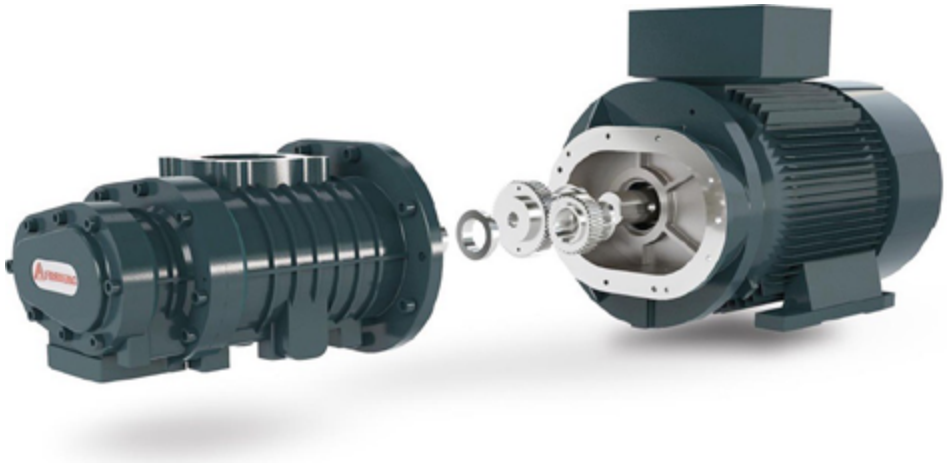
DEMANDSMART ENERGY MANAGEMENT SYSTEM

The ideal combination of variable speed drive, controller, and drivetrain

- Greatly reduces energy consumption at part load
- Reduces lifecycle costs by limiting energy consumption

OPTIONAL iCOMMAND TOUCH+ CONTROLLER

- 7" HMI full color touchscreen is intuitive and easy to use
- Expanded functionality for integration with higher level communication systems
- Trending and graphing capabilities
- Precisely controls and protects your compressor



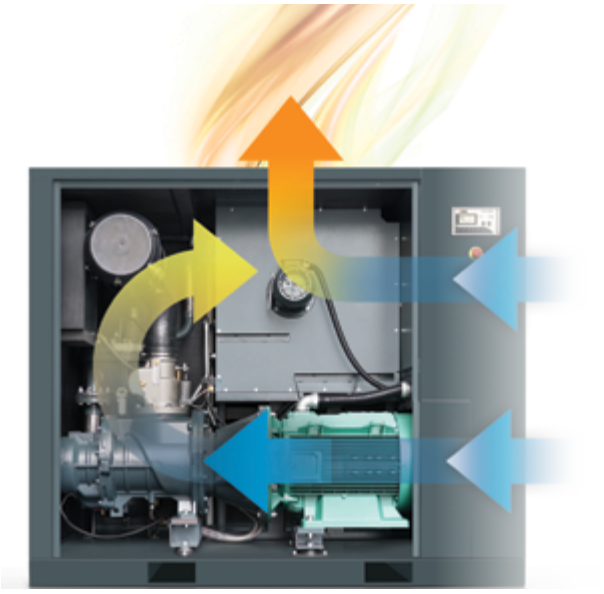
NXD SERIES

eCOOL® TECHNOLOGY

A COOL INNOVATION

Compressors generate heat. FS-Curtis' exclusive eCOOL technology provides protection from heat and reduces thermal stress.

By combining smart compressor layout with intelligent component selection, eCool Technology maximizes cooling airflow for greater energy efficiency and improved reliability. eCool extends the life of motors, electrical components, bearings, hoses, and seals by up to 30%.



eCool technology maximizes cooling airflow for greater energy efficiency, improved reliability and extended service life.

eCOOL® TECHNOLOGY



NXD SERIES
DEMANDSMART SYSTEM™

ENERGY SAVINGS ARE SMART SAVINGS

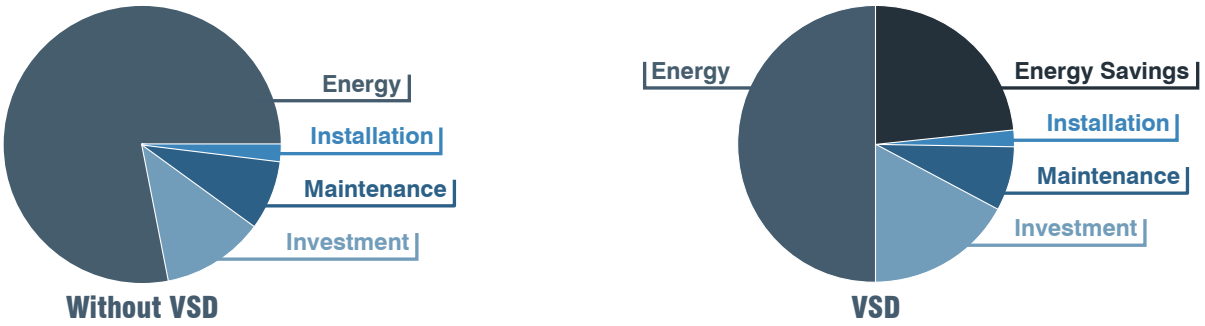
Take control of your energy savings with our DemandSmart Energy Management System! The combination of iCommandTouch+ controller, variable speed drive, and precision cut air end provides superior part load energy efficiency. This innovative design maximizes energy savings and reduces overall operating costs.

DemandSmart™
ENERGY MANAGEMENT SYSTEM

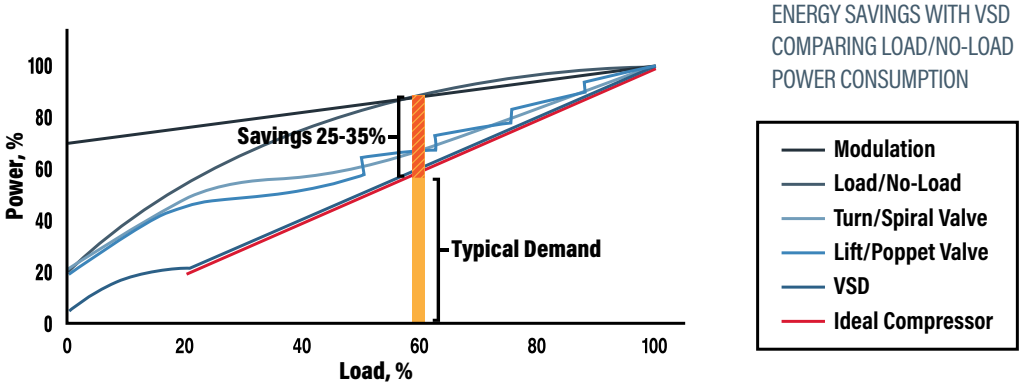
INTELLIGENT VARIABLE SPEED DRIVE

The DemandSmart Energy Management System matches power consumption to plant demand by adjusting the speed of the main motor based on changes in compressed air usage. When the demand for compressed air in your plant decreases/increases, the main motor speed decreases/increases to match power consumption to demand. Plant pressure is held within +/-1 psig and the result is the lowest possible operating costs!

NXD SERIES WITH VSD LIFE CYCLE COSTS OVER 5 YEARS



- The DemandSmart Energy Management System is anchored by a time proven and robust direct coupled drive arrangement
- Main motor speed varies to match plant compressed air demand, thereby matching power consumption to compressed air requirements at any given moment
- Part load power consumption is greatly reduced compared to other common control methods such as load/unload and modulation
- System air quality is enhanced with the DemandSmart Energy Management System by stabilizing your plant pressure to within +/-1 psig, virtually eliminating artificial demand
- Built in DC choke protects against harmonic disturbances and eliminates the need to source additional power corrective devices



ENERGY SAVINGS WITH VSD
COMPARING LOAD/NO-LOAD
POWER CONSUMPTION

NXD SERIES
TECHNICAL DATA

FIXED SPEED

MODEL	MOTOR kW / HP	CAPACITY FAD (CFM)				SOUND LEVEL dB(A)	DIMENSIONS L x W x H in.	WEIGHT lbs.
		100 psi	125 psi	150 psi	175 psi			
NXD15	15 / 20	96	88	73	62	70	57 x 38 x 60	1449
NXD18	18 / 25	114	115	92	78	70	57 x 38 x 60	1552
NXD22	22 / 30	136	124	111	92	70	57 x 38 x 60	1592
NXD30	30 / 40	203	206	174	146	70	63 x 41 x 66	1663
NXD37	37 / 50	251	226	197	182	70	63 x 41 x 66	1771

VARIABLE SPEED

MODEL	MOTOR kW / HP	CAPACITY FAD (CFM)				SOUND LEVEL dB(A)	DIMENSIONS L x W x H in.	WEIGHT lbs.
		100 psi	125 psi	150 psi	175 psi			
NXDV18	18 / 25	112.00 - 33.40	102.40 - 32.80	90.50 - 32.40	79.80 - 40.30	67	50 x 35 x 60	1469
NXDV22	22 / 30	128.60 - 33.70	117.90 - 32.70	112.30 - 32.00	105.40 - 40.30	60	50 x 35 x 60	1486
NXDV30	30 / 40	183.00 - 51.80	168.70 - 51.00	152.80 - 49.70	134.90 - 48.00	65	54 x 37 x 67	2051
NXDV37	37 / 50	227.00 - 51.80	210.30 - 50.90	189.20 - 49.00	167.80 - 48.00	71	54 x 37 x 67	2051



THE NEXT GENERATION OF NX GEN
EXTENDED WARRANTY COVERAGE

EXTENDED WARRANTY PROGRAM

All NX products are backed by an industry leading warranty:

- Five-year major components warranty
- Ten-year airend warranty

Just register the machine online, use only FS-Curtis Genuine Parts and Lubricants per the required maintenance schedule, and you will have peace of mind knowing that your machine is backed by the NXGEN Warranty.

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.

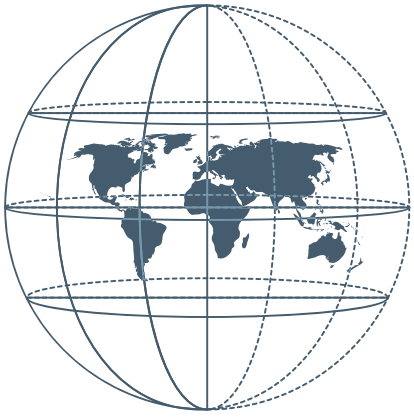


You can count on **FS-Curtis** to approach the next 170 years by staying true to the values and strengths that are appreciated by our customers today.

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.



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bsi ISO 9001 Quality Management Systems CERTIFIED

CAGI Compressed Air & Gas Institute PERFORMANCE VERIFICATION PROGRAM

COMPRESSED AIR CHALLENGE SPONSOR

CORPLITERATURE: FSL-NXD15-45_ BROCHURE_ REV1

Improvements and research are continuous at FS-Curtis. Specifications may change without notice.

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