

NXT Series

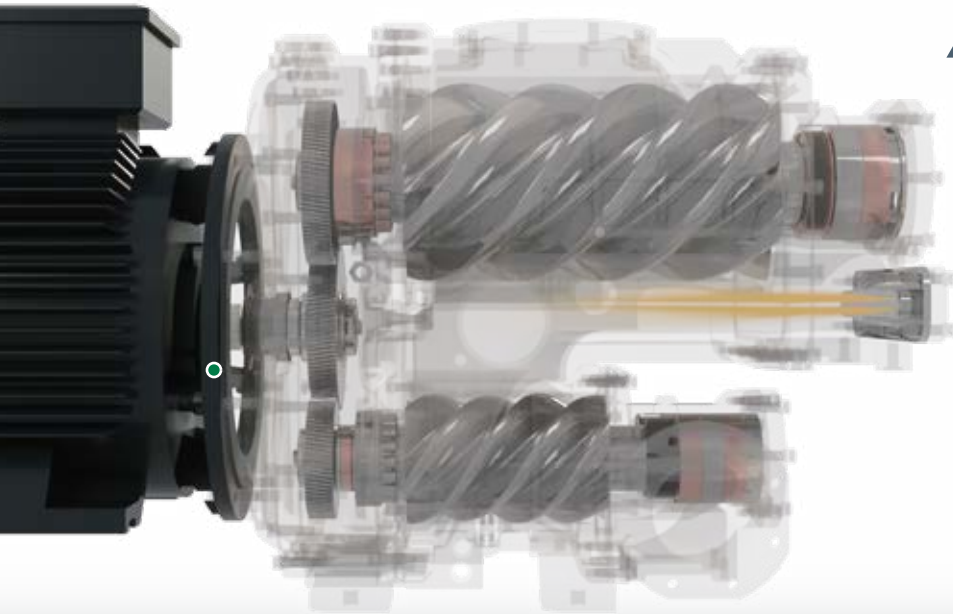
Two Stage Rotary Screw Air Compressor



Pursuing Excellence,
Enriching Life



Pursuing Excellence · Upgraded for Energy Savings



Airend Interstage Lubrication

- The optimized interstage lubrication design creates a smoother cooling flow field, achieving superior compression efficiency.
- The coaxial design of the motor and gear ensures higher transmission efficiency while significantly reducing the footprint.

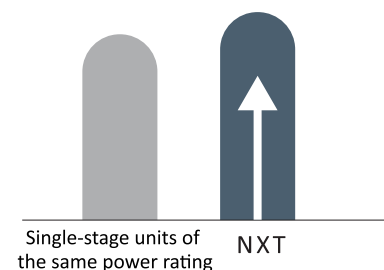
Significantly Enhanced Performance

- With upgrades focused on every design detail of the airend, the FSCURTIS series achieves outstanding energy efficiency. This next-generation airend serves as the powerful heart of the system, delivering a remarkable boost in overall performance.

Upgrade for Higher Energy Efficiency

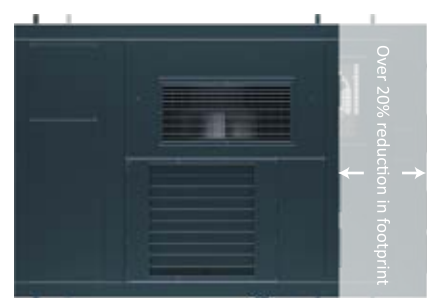
- The optimized oil injection design reduces fluid resistance while enhancing the cooling effectiveness of the lubricant. Combined with a high-efficiency motor, the entire compressor unit delivers improved specific power performance.

Performance
improvement of over 15%



Up to **20%** Smaller Footprint

- With a smarter and more efficient layout, the footprint is significantly reduced compared to previous models—while still allowing ample space for maintenance and service access.



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Separated Cooler

- Breaking the limitations of single coolers, this design optimizes oil temperature while achieving lower compressed air outlet temperatures.
- The air-cooled model uses a centrifugal fan to directly draw in cooler external air and forcibly expel hot air inside the unit, maintaining a lower internal temperature.
- The water-cooled model features a robust shell-and-tube cooler with a straight-through tube design, resulting in lower pressure drop and easier cleaning.

Independent Bearing Lubrication Circuit



- The bearings are lubricated through a dedicated oil circuit, ensuring more efficient lubrication and cooling.
- An individual oil filter is equipped to maintain the cleanliness of the lubrication oil.

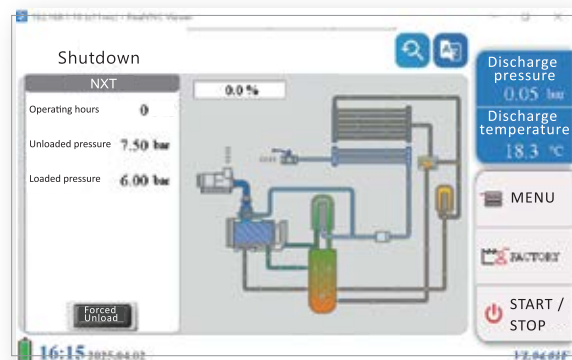
Multi-layer Temperature Protection

- Multi-layer temperature protection ensures greater reliability, reduces maintenance costs, and speeds up repair times.
- FSCURTIS's specially designed shaft barrel cover allows quick replacement of the oil fine separator element.



Intelligent Controller

- Intuitive and multilingual user interface for effortless operation
- Enhanced anti-interference performance ensures stable control
- Remote start/stop capability for flexible system management
- Built-in CAN bus communication interface for seamless integration



Enables smart IoT control for real-time monitoring of compressor operation



Large color touchscreen design with a user-friendly HMI interface



Intelligent monitoring of key components (motor/inverter)



Standard RS485 communication interface enables sequential control of multiple compressors

NXT Series two-stage screw air compressor (Air-cooled model)

Model	Delivery	Working pressure	Motor power	Length	Width	Height	Weight	Air outlet size
	m ³ /min	MPa	kW	mm	mm	mm	kg	
NXT 90A	17.5	0.8	90	2400	1800	2000	3700	DN80
NXT 110A	20.8	0.8	110	2400	1800	2000	3800	DN80
NXT 132A	25.5	0.8	132	2800	2000	2000	4300	DN100
NXT 160A	31.0	0.8	160	2800	2000	2000	4500	DN100
NXT 200A	41.0	0.8	200	3200	2100	2100	6800	DN100
NXT 250A	52.5	0.8	250	3200	2100	2100	7000	DN100

NXT Series two-stage screw air compressor (Water-cooled model)

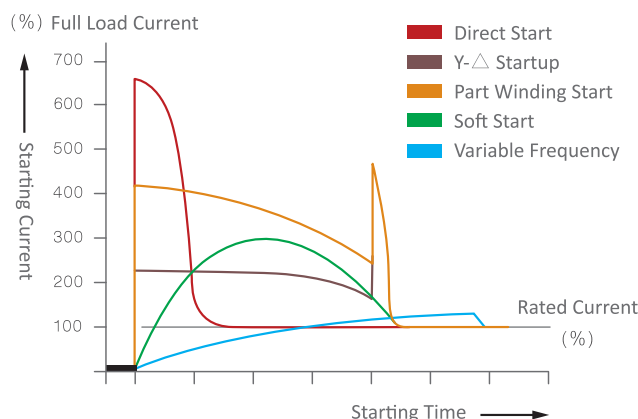
Model	Delivery	Working pressure	Motor power	Cooling water flow rate	Length	Width	Height	Weight	Air outlet size
	m ³ /min	MPa	kW	m ³ /h	mm	mm	mm	kg	
NXT 90W	17.5	0.8	90	20.0	2400	1800	2000	3600	DN80
NXT 110W	20.8	0.8	110	20.5	2400	1800	2000	3700	DN80
NXT 132W	25.5	0.8	132	21.0	2800	2000	2000	4100	DN100
NXT 160W	31.0	0.8	160	21.5	2800	2000	2000	4300	DN100
NXT 200W	41.0	0.8	200	23.0	3200	2100	2100	6400	DN100
NXT 250W	52.5	0.8	250	27.0	3200	2100	2100	6600	DN100

NXT SERIES

Two Stage Rotary Screw Air Compressor

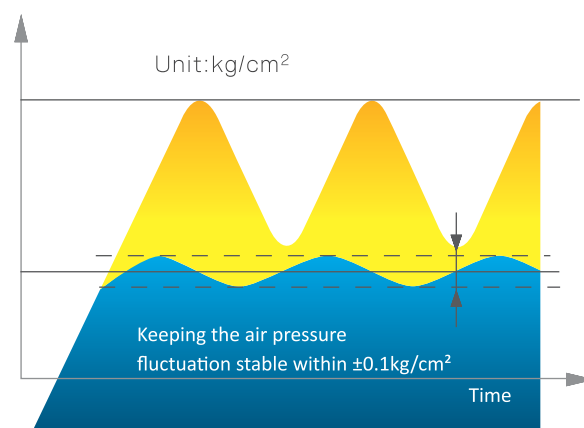
Variable frequency startup

Soft startup with variable frequency, smooth linear operation without the high current of traditional direct startup or star-delta startup. Reduces impact on electrical circuits, significantly extending the service life of electromagnetic contactors, motors, and compressor airend.



Constant pressure air supply

Variable frequency control responds instantly to changes in air demand, maintaining stable discharge pressure. Unlike traditional compressors that require a 1–2 kg/cm² pressure differential for load/unload operation, this significantly reduces energy consumption.



NXTV Series permanent magnet variable frequency two-stage screw air compressor (Air-cooled model)

Model	Delivery	Working pressure	Motor power	Length	Width	Height	Weight	Air outlet size
	m ³ /min	MPa	kW	mm	mm	mm	kg	
NXTV 90A	7.00~17.5	0.8	90	2400	1800	2000	3800	DN80
NXTV 110A	8.30~20.8	0.8	110	2400	1800	2000	3900	DN80
NXTV 132A	10.2~25.5	0.8	132	2800	2000	2000	4400	DN100
NXTV 160A	12.4~31.0	0.8	160	2800	2000	2000	4600	DN100
NXTV 200A	16.4~41.0	0.8	200	3200	2100	2100	7250	DN100
NXTV 250A	21.0~52.5	0.8	250	3200	2100	2100	7550	DN100

NXTV Series permanent magnet variable frequency two-stage screw air compressor (Water-cooled model)

Model	Delivery	Working pressure	Motor power	Cooling water flow rate	Length	Width	Height	Weight	Air outlet size
	m ³ /min	MPa	kW	m ³ /h	mm	mm	mm	kg	
NXTV 90W	7.00~17.5	0.8	90	20.0	2400	1800	2000	3700	DN80
NXTV 110W	8.30~20.8	0.8	110	20.5	2400	1800	2000	3800	DN80
NXTV 132W	10.2~25.5	0.8	132	21.0	2800	2000	2000	4200	DN100
NXTV 160W	12.4~31.0	0.8	160	21.5	2800	2000	2000	4400	DN100
NXTV 200W	16.4~41.0	0.8	200	23.0	3200	2100	2100	6850	DN100
NXTV 250W	21.0~52.5	0.8	250	27.0	3200	2100	2100	7150	DN100

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

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