NXT Series

Two Stage Rotary
Screw Air Compressor

FSCURTIS

Pursuing Excellence,
Enriching Life

FSCURTIS has the final interpretation for the contents of the catalogue

FSCURTIS EMS

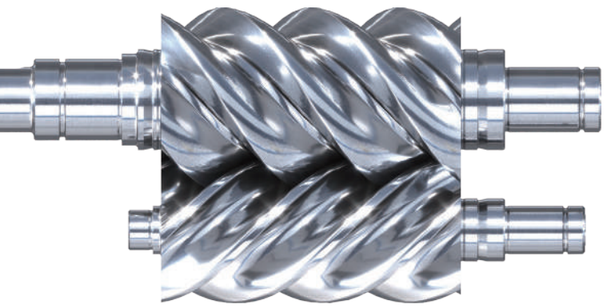
Smart integrated control system

Analyze key data

Compliant with ISO 50001 requirements

Enables precise management decisions

Applications



More energy-saving.

More reliable.

More efficient.

FSCURTIS EMS

A key management tool for

Air Compressors, HVAC, and Energy-Consuming Equipment

We take pride not only in our technologies and systems that have achieved higher energy efficiency certifications, but also in our proven expertise as an energy-saving specialist for air compressors, HVAC, and cold chain systems.

With over 70 years of experience in software and hardware integration, FSCURTIS leverages its extensive industry knowledge and technical strength to bring innovation into every product and service we offer.

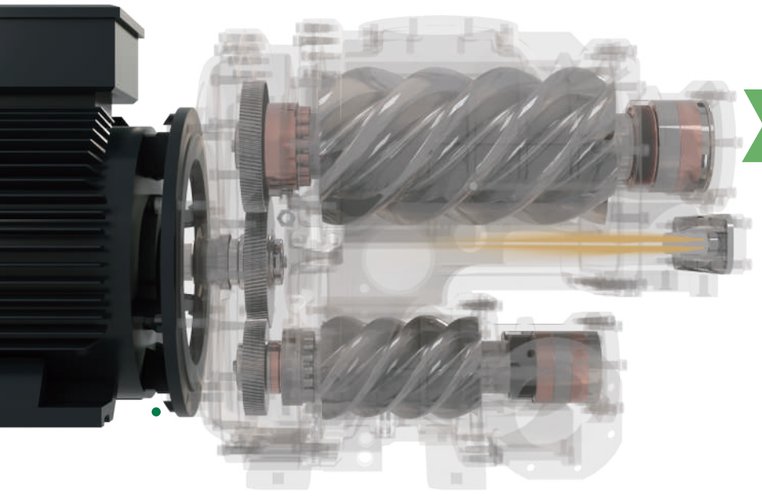
Real-time monitoring across all plant equipment simplifies complex data into smart, visual insights—unlocking hidden energy savings and cutting both operational and management costs.

Born for Corporate Energy Efficiency

A Comprehensive Equipment Management Solution

- Abnormal Alarm / Real-Time Maintenance Notifications
- Intelligent Control Mechanism
- Historical Trend Analysis
- Power Consumption Overview for Equipment Groups
- Smart Demand Management
- Automated Periodic Reports
- Intuitive HMI Interface

Pursuing Excellence · Upgraded for Energy Savings



Airend Interstage Lubrication

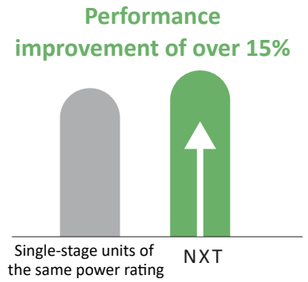
- The optimized interstage lubrication design creates a smoother cooling flow field, achieving superior compression efficiency.
- The coaxial design of the motor and gear ensures higher transmission efficiency while significantly reducing the footprint.

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.

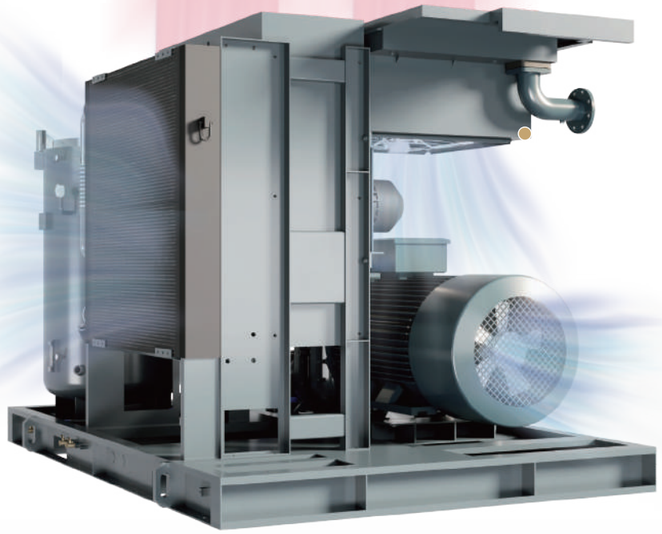
Upgrade for Higher Energy Efficiency

- 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.



Up to 20% Smaller Footprint

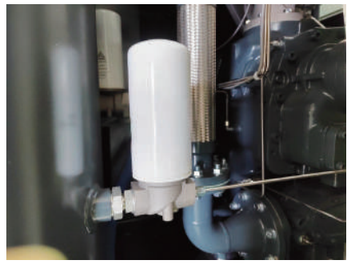
- With a smarter and more efficient layout, the footprint is significantly reduced compared to previous models—while still allowing ample space for maintenance and service access.



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



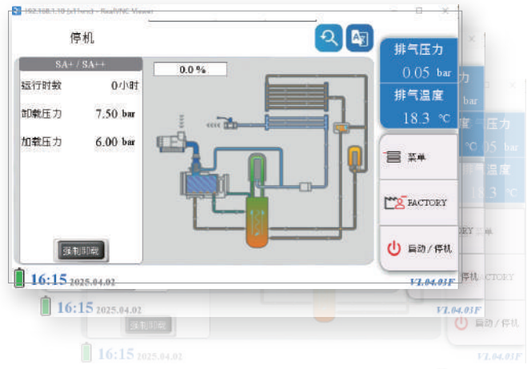
- The bearings are lubricated through a dedicated oil circuit, ensuring more efficient lubrication and cooling.
- An individual oil filter is equipped to maintain the cleanliness of the lubrication oil.

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

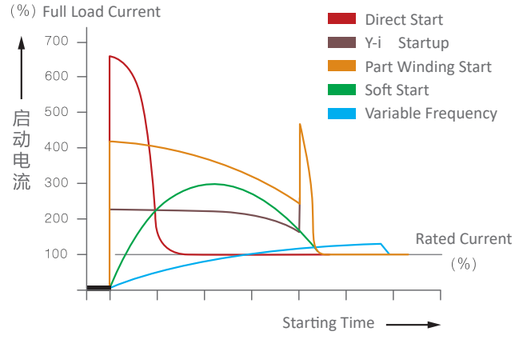
Large color touchscreen design with a user-friendly HMI interface

Intelligent monitoring of key components (motor/inverter)

Standard RS485 communication interface enables sequential control of multiple compressors

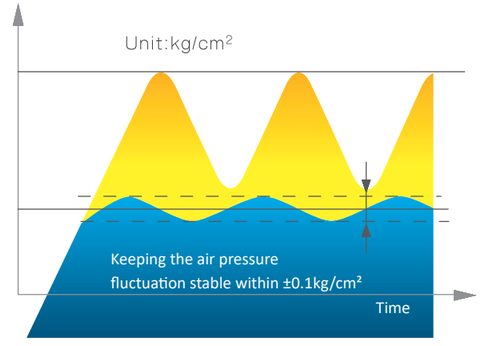
Variable frequency startup

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.



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	
NXT55A	10.5	0.8	55	2200	1480	1800	2650	DN50
NXT110A	20.8	0.8	110	2400	1800	2000	3800	DN80
NXT160A	31.0	0.8	160	2800	2000	2000	4500	DN100
NXT200A	41.0	0.8	200	3200	2100	2100	6800	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	
NXT55W	10.5	0.8	55	12.0	2200	1480	1800	2450	DN50
NXT110W	20.8	0.8	110	20.5	2400	1800	2000	3700	DN80
NXT160W	31.0	0.8	160	21.5	2800	2000	2000	4300	DN100
NXT200W	41.0	0.8	200	23.0	3200	2100	2100	6400	DN100

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	
NXTV55A	4.2-10.5	0.8	55	2200	1480	1800	2700	DN50
NXTV110A	8.3-20.8	0.8	110	2400	1800	2000	3900	DN80
NXTV160A	12.4-31.0	0.8	160	2800	2000	2000	4600	DN100
NXTV200A	16.4-41.0	0.8	200	3200	2100	2100	7250	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	
NXTV55W	4.2-10.5	0.8	55	12.0	2200	1480	1800	2600	DN50
NXTV110W	8.3-20.8	0.8	110	20.5	2400	1800	2000	3800	DN80
NXTV160W	12.4-31.0	0.8	160	21.5	2800	2000	2000	4400	DN100
NXTV200W	16.4-41.0	0.8	200	23.0	3200	2100	2100	6850	DN100