

ROBUSCH[®]

Leading-edge Controller



ROBOX 
CONNECT

Get Reliability & Greater Efficiency

At Robuschi, we are very proud to introduce our new controller. It has been improved with exciting features to pave the way for the digitalisation era. With this new design, our engineers were committed to provide our customers with an additional tool to improve their performance and ultimately save them money!

Among the several outstanding features, the possibility of integration with multiple lobe and/or screw blowers allows for automation and plant operation that is consistently at its optimum operating point. In addition, the iConn device monitors your equipment wherever it is located, avoiding downtimes, inefficiency, and protecting your investment.

We are ready with Robox Connect to really "connect" you to your machine!

The Robox Connect touch screen is very user friendly utilizing an intuitive menu that provides you with a real-time view of the Robox Lobe and Screw's operation. It allows you to continuously monitor your equipment, ensuring you spot problems and malfunctions before they happen thereby protecting your investment.

The controller manages a variety of operating functions available from the built-in touch screen, as well as remotely.

The embedded communication protocols are Modbus RTU, TCP, Ethernet/IP.

Main Robox Connect Controller Functions

- Multiple language configuration
- 44 analog and digital inputs / outputs
- Sequencing mode (multi-blower control)
- Interval maintenance with a dedicated P&I chart
- Parameter data transmission via Field Bus
- Parameter trends
- Alarm detection
- Data logger for service troubleshooting
- Suitable for any kind of starter device

What Are The Controlled Parameters?

- Suction pressure (P1)
- Discharge pressure (P2)
- Oil injection pressure (P3) (only for Robox Screw > 1,000 mbar(g))
- Noise enclosure temperature (T1)
- Discharge temperature (T2)
- Oil sump temperature driven side/oil injection temperature (T3)
- Oil sump temperature gears side/tank oil temperature (T4)
- Aired shaft speed indicator
- Oil level gear/driven side (*optional*) (L3 - L4)
- Main motor PTC
- Emergency stop kit (*optional*)

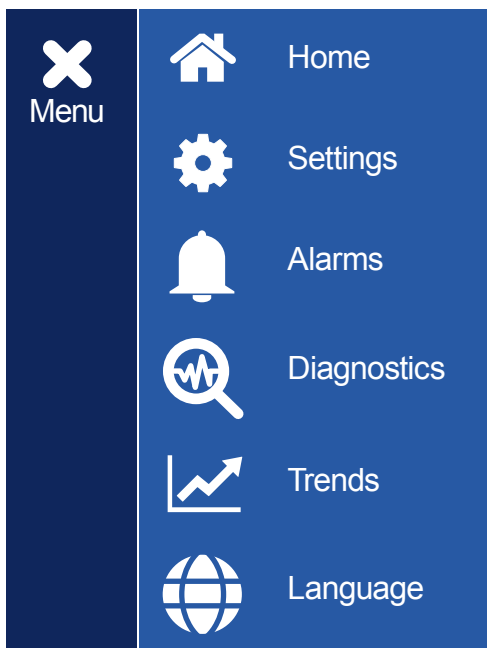
Benefits at a glance

- Full color, touch screen
- Intuitive – easy-to-learn navigation, which lowers the learning curve for customers and technicians
- Expandable – ability to sequence blowers. Robox Connect can sequence up to 4 blowers
- Connectivity – iConn modem with the ability to connect to the customer's Ethernet

How Does It Work? Everything at Your Fingertips!



All functions are clearly structured in five main display menu items:



- All functions are intuitively visualized
- Easy to get complete overview of lobe or screw blower status
- Easy to access the main functions

Menu Items: What Do They Access?

- **Settings:** controls features like Sequencing, Timer Control, Factory Settings, and Data Logging. The Timer Control function allows you to start and stop lobe or screw blowers through the use of eight channel settings. In addition, it is possible to define a specific schedule according to the customer needs. The Sequencing function allows you to pair with other controllers and blowers.
- **Alarms:** allows you to check current alarms, if present, and to review any previous alarms.
- **Diagnostics:** gives a general overview of the blower's status (total working hours, general details of software and hardware with the possibility to check and test the status of all digital and analog IOS) and communication control (checking communication protocol). In addition, the Jog Motors function allows you to start the main electric motor and the fan ventilation for a few seconds to verify if they are well connected.
- **Trends:** allows you to view the recent history of key metrics, such as, pressure and discharge temperature (and more).
- **Languages:** allows you to choose one of the operating languages available in the controller.



Diving into Details

You can realize many benefits by monitoring your lobe or screw blower, as well as other connected blowers through one single controller that provides easy access to pave your way to the Industry 4.0 world!



TRENDS

Your plant is monitored 24/7!

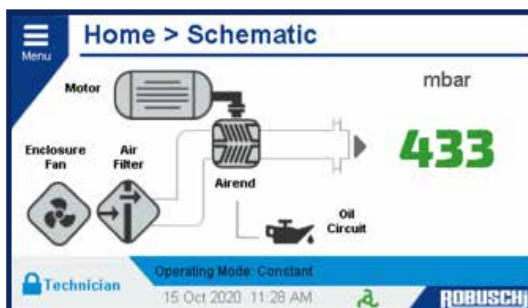


Monitor all the vital metrics, such as suction pressure, discharge pressure, discharge temperature, rpm, oil temperature and more. In addition, compare the current data with data from up to 30 days in the past. For a better view and data comparison, Robox Connect functionality allows you to download the records to your device.



SCHEMATICS

Your machine is in safe hands!



Control the status of the major components of your lobe or screw blower, such as the airend, air filter, main electric motor and enclosure fan. See when you should replace consumable parts, perform oil changes and check the status of the airend and main motor.



ALARMS

For Your Peace of Mind



Track alarm codes easily! When you see an alarm code with its related description, simply touch the alarm to see the active alarm's details. You can also review previous alarms, if present.



SERVICE



The Service function allows you to see the service status of filters, lubrication, belts and other important components so you know when to replace them. You can also reset the notifications when each component is replaced.



Add further value



SEQUENCING Save energy, save money!

Connect one Robox Screw or Robox Lobe with up to four rotary lobe and /or screw blowers. See how easy it is to regulate and modulate all of them!

Set one to act as a master to make the other machines following the decided regulation mode. This function promotes energy savings, allowing you to operate all connected equipment in unison according to real plant demand.



Industry 4.0 Solution

The new Controller is compatible with iConn, our Industry 4.0 solution.

iConn is the new, smart and proactive real-time monitoring service that delivers in-depth and real-time data essential for optimised and efficient operation of the device. It provides remote availability via the Internet, which saves you time by eliminating the need to be onsite for diagnostic

activities. You can perform online tasks with iConn, such as supervision, optimising maintenance and parts management, paving the way for the development of predictive models.

Maximise blower reliability and focus more time on your core business with iConn!

iConn Integration Customer value



Robox

Signals

- Hours counter (Oil, Filters, Blower)
- Pressures (Suction, Discharge)
- Temperature (Suction, Discharge)
- Oil parameters
- ...

iConn
INDUSTRY 4.0

Cloud

iConn platform



Accessible to customers



**GENUINE
PARTS**



- Proactive remote support that is less costly and more time efficient than supervision on site
- Enhanced service efficiency
- Predictive maintenance
- Optimisation of maintenance and parts management

- Continuous supervision from a remote place
- Industry 4.0 access
- Data-driven root cause analysis
- Risk mitigation
- Unexpected failure avoidance

Additional Feature

Integration with Robox Lobe & Robox Screw Plug & Play Version



Hardware totally embedded into the power electric cabinet



Choosing the Robox Screw or Robox Lobe Plug & Play version with Robox Connect allows you to use only one tool to monitor the entire system. Robox Connect allows you to connect directly to the frequency converter to monitor the system and act as an automation control. All you need is the Robox Connect controller to perform any modifications to the VFD parameters or logic.

Retrofit Kits

Available retrofit kits allow you to replace the old controllers on existing Robox Screw and Robox Lobe with the new Robox Connect.





Maximum uptime. Extending performance.

We provide a range of services to ensure our customers' machines are well maintained to deliver maximum performance.

We offer preventative and planned maintenance programs, genuine parts, on-site service, professional maintenance and efficient training.

Within our service portfolio, you will find many and varied options and services needed to get optimal performance, maximum uptime and operating efficiency from your Robuschi equipment.

Visit us:

www.robuschi.com

Scan the QR code to get it more



GARDNER DENVER S.r.l. **Divisione ROBUSCHI**

Manufacturing facilities

Via S. Leonardo, 71/A
43122 Parma - Italy
Phone: +39 0521 274 911

Filiale di Milano
Phone: +39 02 51 62 80 65

Filiale di Padova
Phone: +39 049 807 8260

info.italy@gardnerdenver.com

GARDNER DENVER **NEDERLAND B.V.**

Barwoutswaarder 3
3449 Woerden
Netherlands
Phone: +31 348 410 150
robuschi-benelux@gardnerdenver.com

GARDNER DENVER Ltd. **United Kingdom**

Claybrook Drive,
Washford Industrial Estate
Redditch, B98 0DS - UK
Phone: +44 1527 838 200
sales.red@gardnerdenver.com