

FEBRUARY 2020

# iVT

INTERNATIONAL  
INDUSTRIAL VEHICLE TECHNOLOGY



**36-PAGE SPECIAL!**

# DIGGING LAS VEGAS

How the vehicles coming out of ConExpo will  
change the construction industry worldwide

**CASE STUDIES**

- VOLVO EC950F EXCAVATOR
- JOHN DEERE 8RX TRACTOR

**OEM INTERVIEWS**

- CATERPILLAR
- ZOOMLION

**PLUS!**



The OEMs leading the  
connectivity revolution



Six mind-blowing  
agricultural concepts

# Sensors for Mobile Automation



Functional Safety **PLd**

CANopen

CANopen  
safety easy to use

ANALOG

SAE J1939

CONEXPO/IFPE 2020 - Hall: South 2nd , Booth: S- 82846

## Robust, durable, reliable

- NEW! Sensors with PURE.MOBILE Technology: Designed for heavy use in mobile machines
- Stroke measurement in hydraulic cylinders - no piston drilling necessary
- Wire-actuated encoders for linear position measurement with robust string-pot technology
- Robust rotary encoders for safe angle and speed measurement! - Up to PLd
- Inclinometers for non-contact measurement of inclination angle of vehicles



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# Comfort without compromise



- > Specific & standard HVAC solutions
- > Full thermal management
- > High-performance products

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**SIROCO**  
NP GROUP  
WE CREATE YOUR THERMAL SOLUTIONS



MARCH 10-14, 2020  
LAS VEGAS

Bronze Hall – B91013

# Improved comfort, better performance

## SIROCO'S HEATING, VENTILATION AND AIR-CONDITIONING UNITS PROMISE COMFORT WITHOUT COMPROMISE

▶ For the last 40 years Siroco has been designing, developing and manufacturing standard and tailor-made heating, ventilation and air conditioning (HVAC) systems for engine-powered and electric vehicles in small and medium-size production.

"Siroco is a brand chosen by world's largest manufacturers because of its high-performance products and its ability to solve technical issues effectively," says Julien Brochier, sales manager at Siroco. "We work in partnership with our customers at each step of product development to find reliable and cost-effective solutions. Then we drive our customers to either standard products or specific solutions."

As a major player in cooling and heating systems, Siroco commits to total customer satisfaction with powerful products easy to integrate into the cab. This way, the company offers a turnkey service – drafting of specifications, calculation of the components, 3D validation of thermal control in the cabin and prototyping validation. "On top of that, considering the tight deadlines of our customers, we bet on smooth delivery even with rising lead times by modernising our tools," says Brochier.

### Teamwork

The Siroco engineering team, which has expanded considerably over the past couple of years, is at the heart of Siroco's research and development department, constantly strengthening both thermal and electrical products.

"These include aeraulic test bench that measures airflow efficiency as well as several measurement devices to assess thermal comfort in the cab," says Charles Bonnet, product development manager. "We are also equipped with 3D simulation software and

RIGHT & BELOW: HVAC kit for construction vehicles: HVAC or EVAP Stand Up II with integrated air filter, Cierzo 8kW condenser and mechanical compressor

BOTTOM: E-Sonora 2P compact electric heater



a climatic chamber capable of reproducing temperatures from -25°C to +50°C, as well as receiving vehicles that weigh up to seven metric tons such as compact excavators, backhoe loaders, skid steer loaders and telescopic handlers."

### Global expansion

Outside of Europe, Siroco has strong commercial positions in Japan and Korea. The company officially launched a new subsidiary in India near Indore, for 100% local production and components. The aim of this development is to offer performances and best prices even for complex HVAC units.

2019 was also a year of international expansion with the opening of a new subsidiary in Morocco,

Mohammedia, offering electrical harnesses, assembly, standard products and best prices to support the automotive industry. NP Morocco is focused on the provision of fast, cost effective solutions, from prototypes through to mass production.

### North America

Last but not least, NP Group – Siroco's parent company - opened a new subsidiary in Mexico specialising in thermoplastic injection and thermosets. These facilities offer a strong distribution network to meet with flexibility HVAC customer demands in any place.

"We have advanced a great deal operationally in adopting the group's industrial and project-based culture and we benefit from its international reach," says Mr Brochier. These operations express Siroco's willingness to enhance its international presence by extending its business into North America. For 2020, the company is searching for new business partners and more distributors there. This it intends to do via its presence at ConExpo.

Siroco offers expertise and commitment in its quest to help its customers succeed. The company is committed to creating robust, efficient, cost-competitive HVAC solutions through an international network located in Germany, Poland, India, Japan, Korea and Morocco. **ivT**

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