Atlas Copco

PACE – Powering smart productivity

Xc2004 and Xc4004 controllers

Meet PACE, powering smart productivity

PACE (Pressure Adjusted through Cognitive Electronics) uses advanced electronic control to continuously manage pressure and airflow. Instead of operating at one fixed setting, the compressor adjusts instantly to deliver exactly what the application needs. One machine. Fully controlled. Always precise.

Different jobs. Different pressures. Different flow. No compromises.

On real jobsites, pressure and flow requirements change constantly. With PACE, operators simply set the required pressure and get the right airflow automatically. No machine changes, no manual adjustments of valves— just fast switching between applications with maximum uptime and utilization.

Ideal applications include

Construction and utility work:
Handheld tools, sandblasting, cable blowing

Drilling and mining:
Blast hole drilling, water wells, geotechnical drilling

Industrial and energy sectors:
Pipeline testing, flushing, bulk material conveying

Rental business:
One machine covering multiple customer needs

PACE makes your compressor smarter

PACE is the smarter way to work: more versatility, better fuel efficiency, and lower total cost of ownership. Its electronic control delivers up to double digit fuel savings and higher machine utilization.

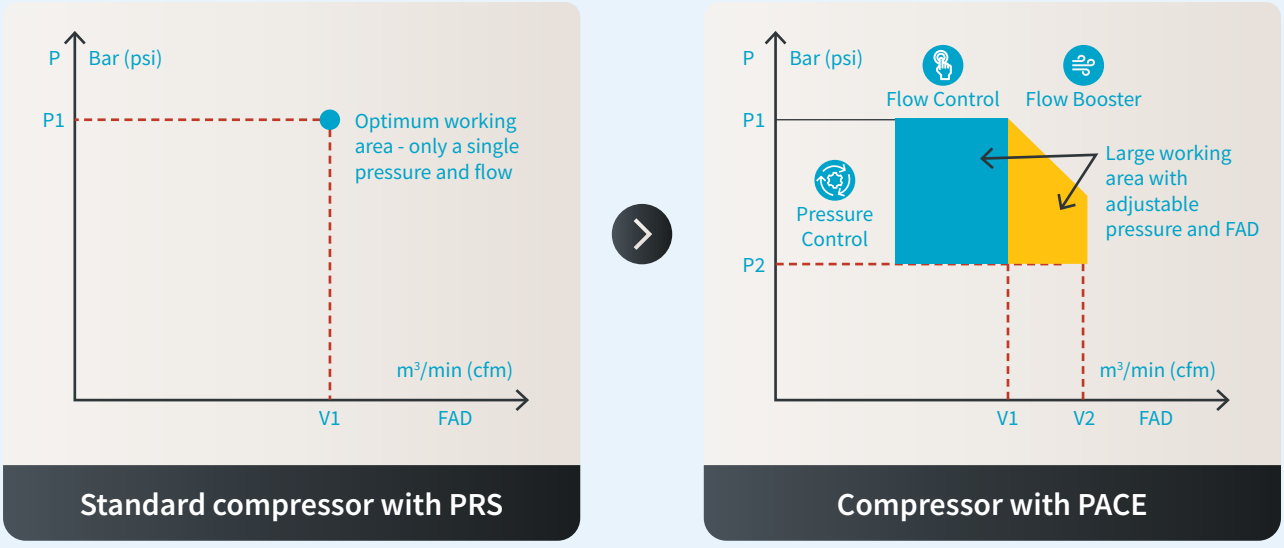
PACE makes your compressor — and your operation — future ready.

- ☑ Smarter. Faster. More efficient
- ☑ Exactly what today's job sites need.
- ☑ PACE's intelligent electronic control delivers clear advantages — in performance, efficiency, and ease of use.

1. Widest flow and pressure range

Different jobs demand different air. Take sandblasting, for example: nozzle pressure can range from 7 to 12 bar (100 to 175 psi), depending on the surface and application.

PACE technology redefines how a mobile air compressor delivers air. Instead of locking the machine into a single fixed pressure, as traditional systems do, PACE uses advanced electronic control to precisely adjust **both pressure and flow.** This gives operators exactly what the application needs — without compromise.



Thanks to PACE and electronic engine control, speed of engine and pressure are intelligently balanced to always provide the optimal combination of performance, efficiency, and flexibility for the application (under the picture)

More air when you need it most

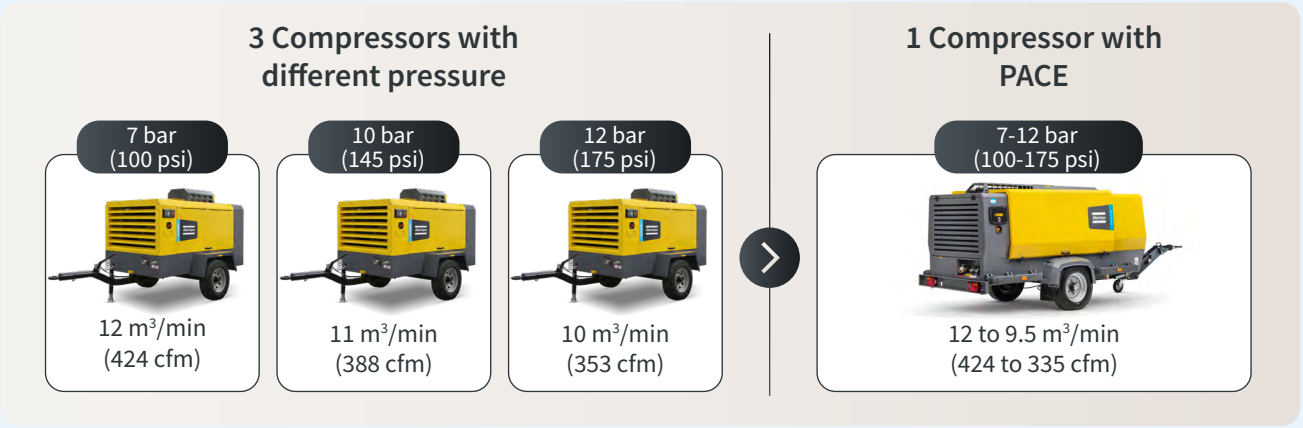
During drilling, PACE goes even further. Its **Flow Booster** mode increases airflow during flushing and filling, helping operators work faster and more efficiently.

At lower pressures, the system can deliver higher airflow within safe operating limits. This is especially useful for applications that require high air volume rather than high pressure — such as **bulk material conveying,** where low pressure and high flow are essential.

One machine instead of 3

Because PACE covers a wide range of pressure and flow combinations, one compressor can replace several fixed-pressure machines.

No need to change compressors. Faster setup between jobs. Always the right pressure and flow.

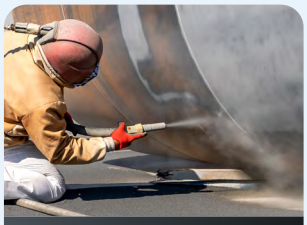


Suitable for multiple applications

Need to run handheld tools? Or switch to cable blowing? With PACE, it can be done.

Traditional PRS compressors are tied to narrow pressure and flow ranges, limiting their flexibility. PACE breaks free from these limits, allowing one machine to instantly adapt to different applications by precisely controlling pressure and flow — no compromises, no machine changes.

Handheld tools
7 bar
(100 psi)



Abrasive blasting
7 to 12 bar
(100 to 175 psi)

Cable blowing
10 to 14 bar
(145 to 200 psi)

Drilling
14 to 25 bar
(200 to 362 psi)

PACE technology – Optimized compressor settings for different applications

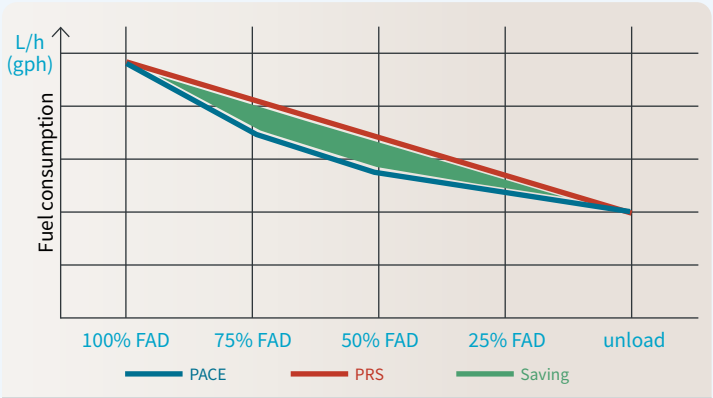
Pressure range	Construction				Mining							Marine		
	Pneumatic tools	Shotcrete blasting	Ground engineering drilling	Shallow water well drilling	Borehole drilling	Top hammer drilling	Quarry drilling	Down-the-hole (DTH) drilling	Jackleg drilling	Coal mining	Blast hole drilling	Abrasive blasting	Inflating airbags	Bubble curtains
7-12 bar (100-175 psi)	●	●	○	○	○	○	○	○	○	○	○	●	●	●
12-17 bar (175-250 psi)	○	●	●	●	●	●	●	●	●	●	●	-	-	-
17-25 bar (250-362 psi)	-	-	-	-	●	-	-	●	-	-	●	-	-	-

Pressure range	Utility				Oil & Gas			Manufacturing			
	Pneumatic tools	Abrasive blasting	Dry ice blasting	Cable blowing	Abrasive blasting	Pipeline pressure testing	Pipeline pigging	Back-up air	Pneumatic transportation	Abrasive blasting	Painting and Coating
7-12 bar (100-175 psi)	●	●	●	●	●	○	○	●	●	●	●
12-17 bar (175-250 psi)	-	●	●	●	●	●	●	-	-	-	-
17-25 bar (250-362 psi)	-	-	-	-	-	●	●	-	-	-	-

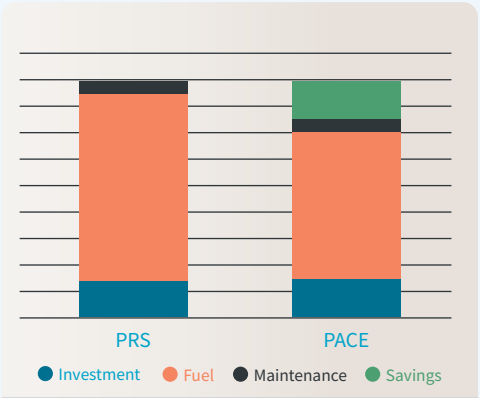
● Best choice ○ Suitable

2. Saving fuel consumption and improving TCO

Comparing fuel consumption and TCO



Fuel consumption with PACE reduced by up to 15%



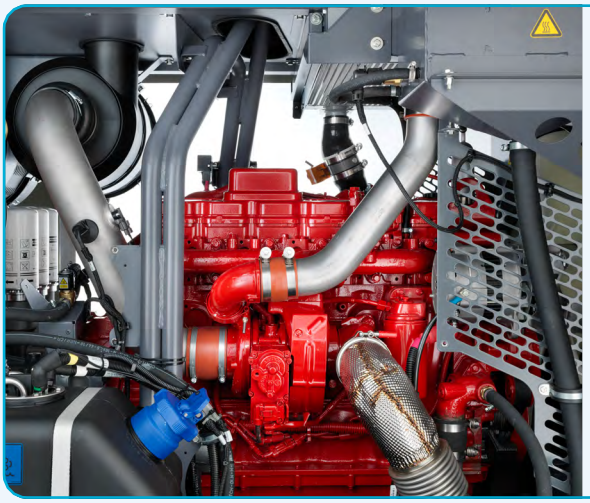
TCO reductions up to 10%*

PACE delivers higher efficiency between 25% and 75% load thanks to its advanced regulation features and precise engine speed control.

* For engines of the same manufacturer and type, operating under similar conditions with PACE and PRS (Pressure Regulation System).

PACE combines advanced electronic engine control with intelligent pressure management to optimize performance at all times. Engine speed and throttling are adjusted accurately and continuously, so the compressor delivers exactly the pressure and flow the application requires — no more, no less.

The result is higher efficiency across the operating range. PACE can reduce fuel consumption by up to 15% and lower total cost of ownership by up to 10% over five years, while maintaining reliable, high-quality performance.



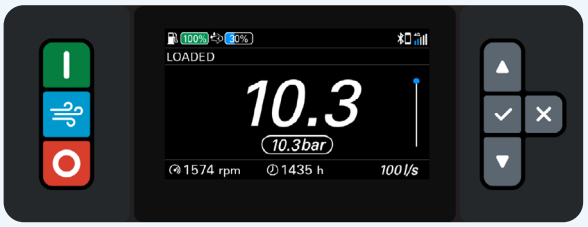
Electronic engine – What's different with mechanical engine?

Thanks to advanced ECU control, electronic engines **optimize performance continuously,** ensuring smoother operation, lower emissions, and compliance with modern standards.

Mechanical engines, by comparison, depend on slower mechanical governors and pneumatic actuators. This limits precision and prevents dynamic optimization across different pressure settings.

Electronic engines are **lighter and more compact,** contributing to better machine design and improved user experience without compromising on power.

3. Managed by the smart controller



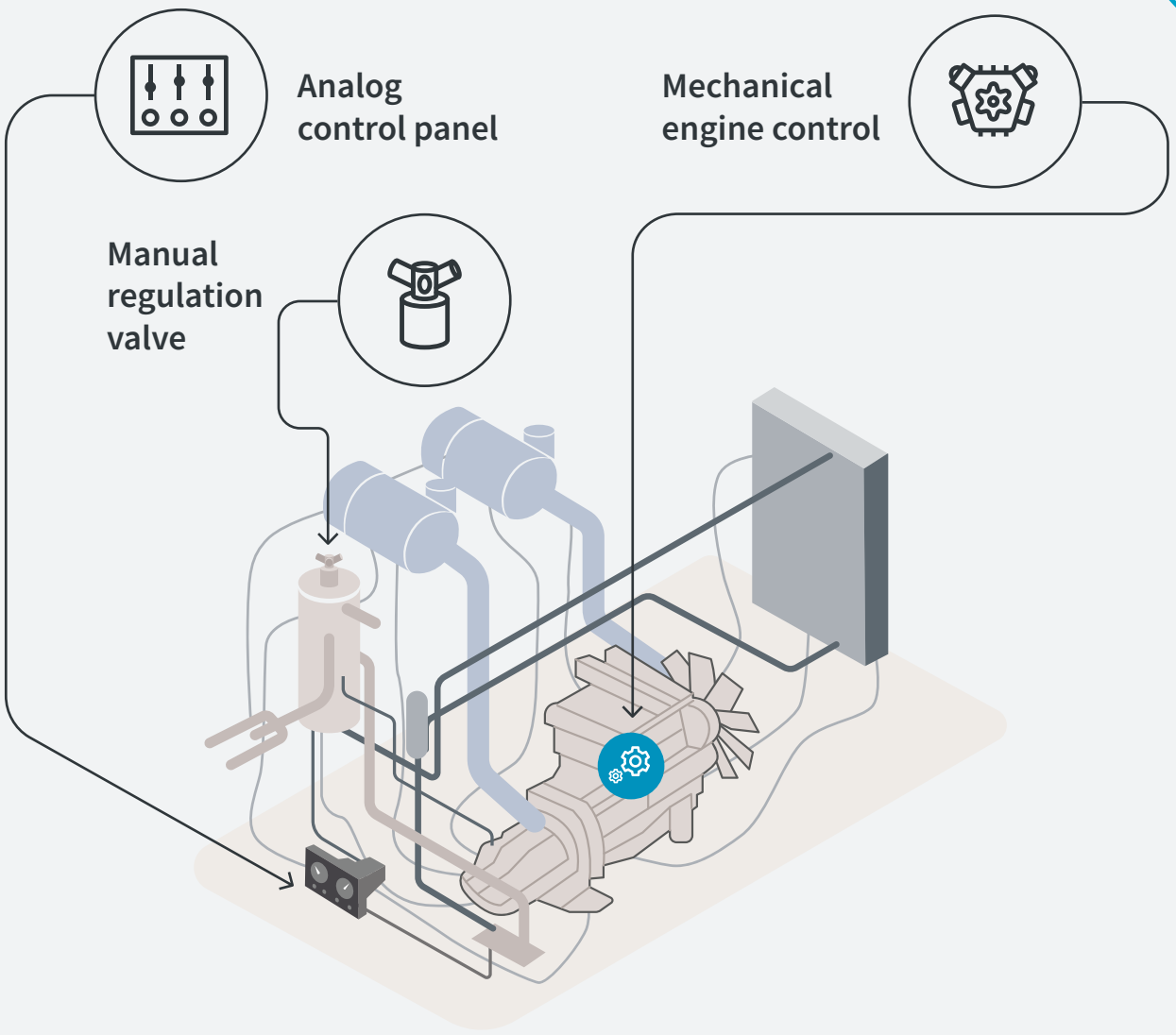
Compressors, equipped with advanced, intuitive controllers, like the Xc2004 or Xc4004, monitor the system in real time. Setting the required pressure takes just three clicks, and presets can be saved for quick and easy switching between applications. The intuitive controller allows operators to set any pressure within the machine's pressure band, in **0.1 bar (1.5 psi) increments,** ensuring accuracy, repeatability, and safe operation.

PACE – what's different from conventional machines?

Traditional pressure regulation systems (PRS) rely on mechanical valves and springs to react to changes in airflow. They work reliably for fixed-pressure applications, but offer a limited pressure range, slower response to fluctuations, and lower overall efficiency.

PACE technology takes a smarter approach. Sensors continuously monitor pressure and temperature, while the electronic controller adjusts the compressor in milliseconds. The result is always the right pressure, better stability, and higher efficiency — even as applications and air demands change.

PRS



PACE makes your compressor smarter

- No need to change compressors
- Faster setup between jobs
- Always the right pressure and flow

Utilization **100%**

Productivity up to **15%**

Fuel savings up to **15%**

Total cost of ownership (TCO) up to **10%***

* For engines of the same manufacturer and type, operating under similar conditions with PACE and PRS (Pressure Regulation System).

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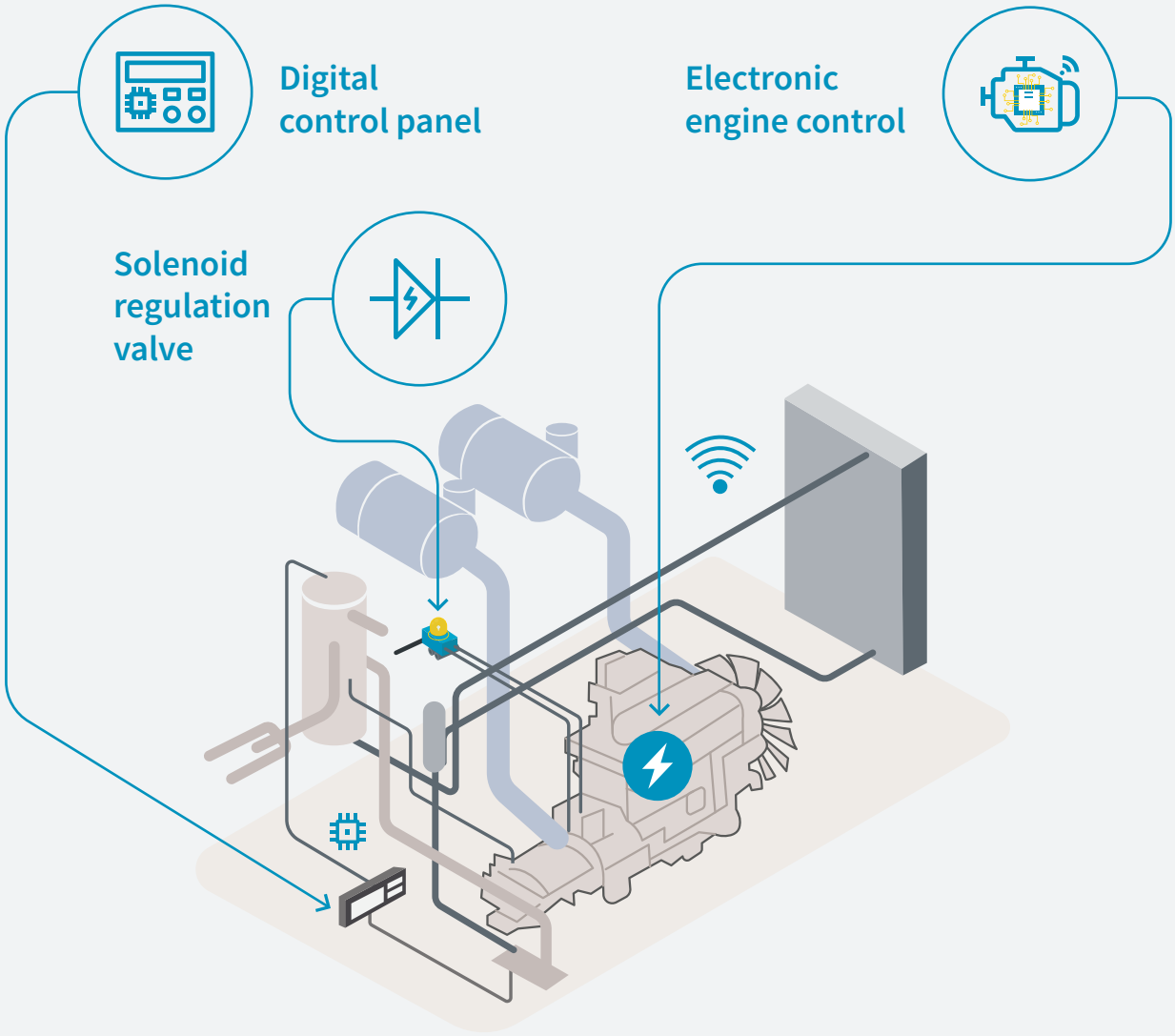
PACE



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