

ustrial Computer pul

Advantages of Using Industrial Computers in Smart Factories

art of technology

- What is a Smart Factory?
- Advantages of Being a Smart Factory
 - > What is an Industrial Computer?
- > Why Industrial Computers Should be Preferred in Smart Factories?
 - Advantages of Artech Industrial Computer Solutions

What is a **Smart Factory?**

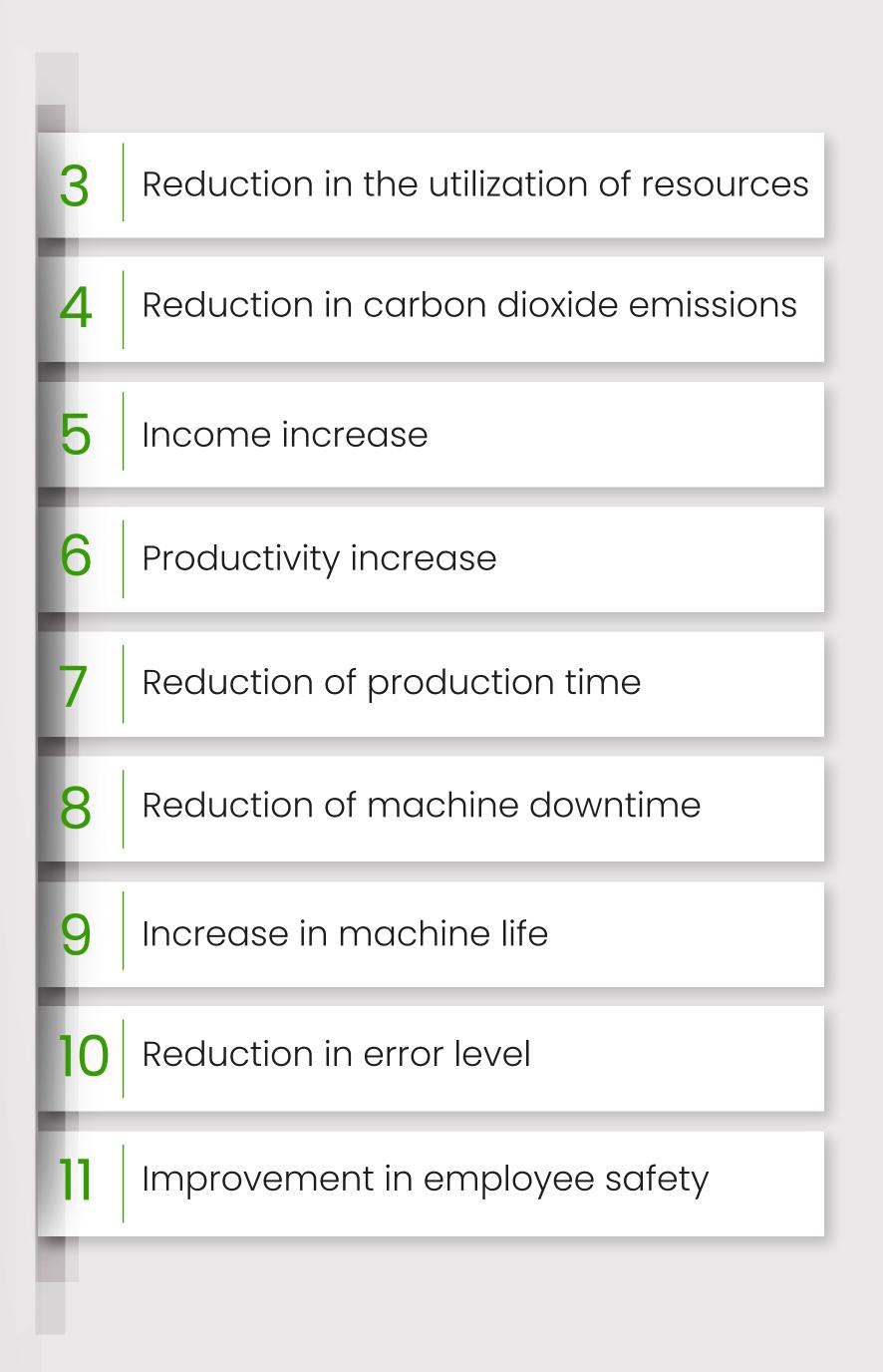
- It is an area where production equipment is intertwined with digital technology to improve production efficiency through continuous monitoring and self-optimisation.
- It connects the digital and physical worlds to monitor the entire production process, from supply chain management to production tools and even the work of individual operators on the shop floor.
- It uses equipment and devices that enable data-driven decision-making to optimize efficiency and productivity throughout the production process.



Advantages of Being a Smart Factory

Cost reduction

Increase in customer satisfaction

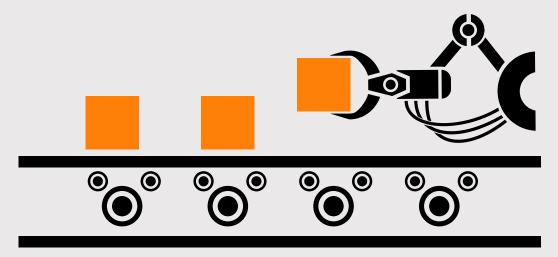


What is an **Industrial Computer?**

 Industrial Computers are devices designed to be used in production facilities and challenging environmental environments.

 They are used in production data collection, process analysis and control, operator panel applications, and machine and process automation applications.

Production Data Collection



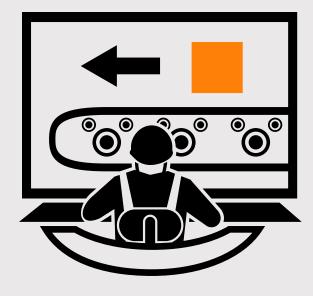
Process Analysis and Control



Machine and Process Automation



Operator Panel





Why Industrial Computers Should be Preferred in Smart Factories?



Robust Design, Resistant to Harsh Conditions



*Resistant to harsh production conditions.

* Resistant to contact with liquids, dust particles, debris, vibration and other substances that may endanger electronic components.



*Fails and wears out under harsh conditions.

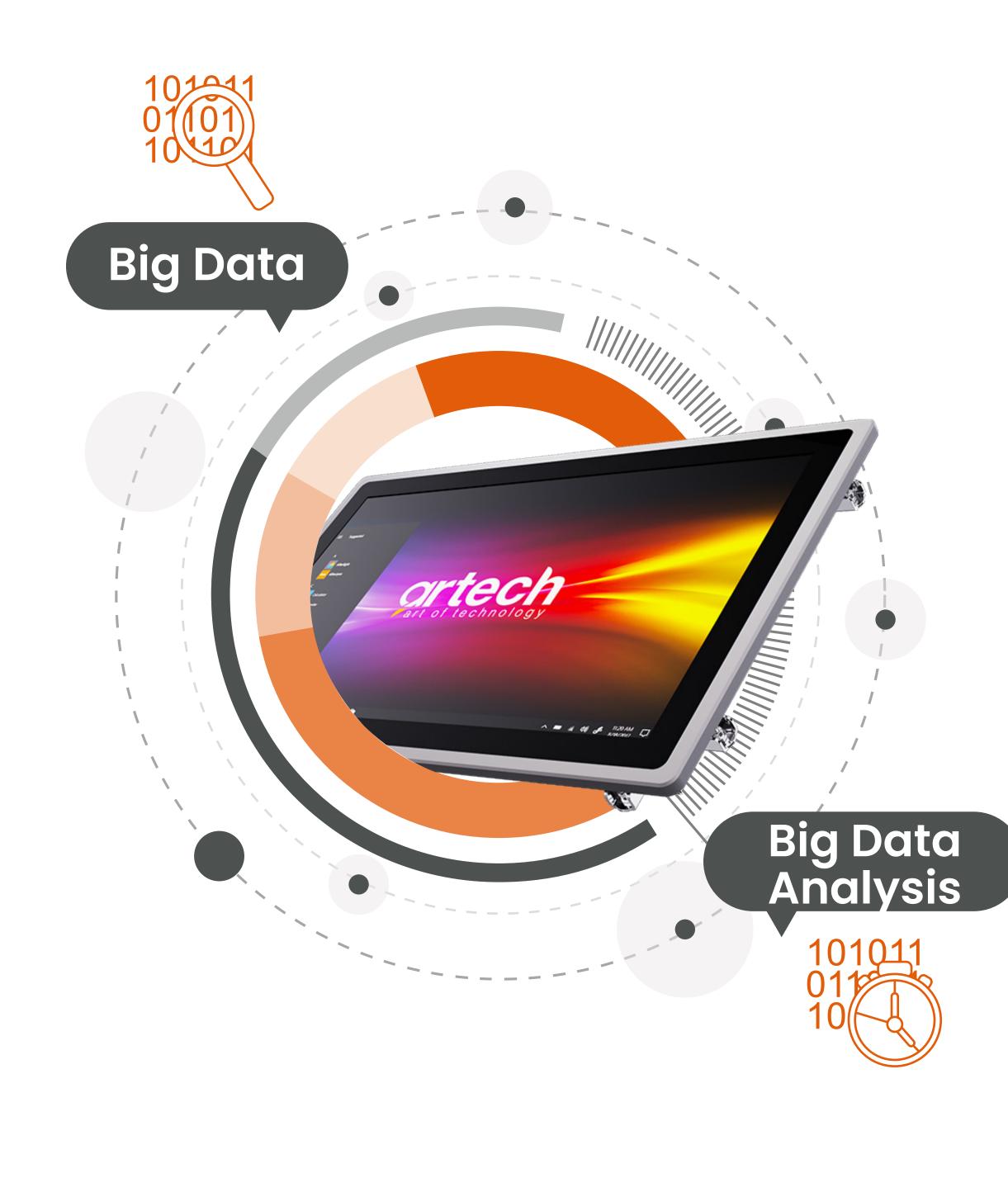
*It can become unusable quickly with temperature, chemicals, humidity, polluted air and various particles.

PERSONAL COMPUTER





Big Data Analysis



Follow-up of **Business Processes**

- To realize the control of processes in an automated way,
- To achieve error-free and continuously renewed production data,
- To be able to view the results regularly thanks to instantly processed data,
- To be able to program the stopping and working times of the machines,
- Measure and visualize staff and overall productivity,
- To make an automatic follow-up of the periodic maintenance as well as production,
- To eliminate the loss of time and money during manual data collection,
- Automatic data sharing with programs such as CRM, ERP and Excel.

"Provides vital benefits in terms of production."



Paperless Factory



With digital documents, operators in the production plant can quickly access, process, backup and share the necessary information.



Since using digital documents will reduce paper use, it offers significant cost advantages to businesses and minimizes the risk of loss in unexpected situations.



By using the stored information, important documents can be filled in automatically, thus increasing efficiency in the process and reducing the margin of error to zero.



Predictive Maintenance

(Automatic Check-Up)

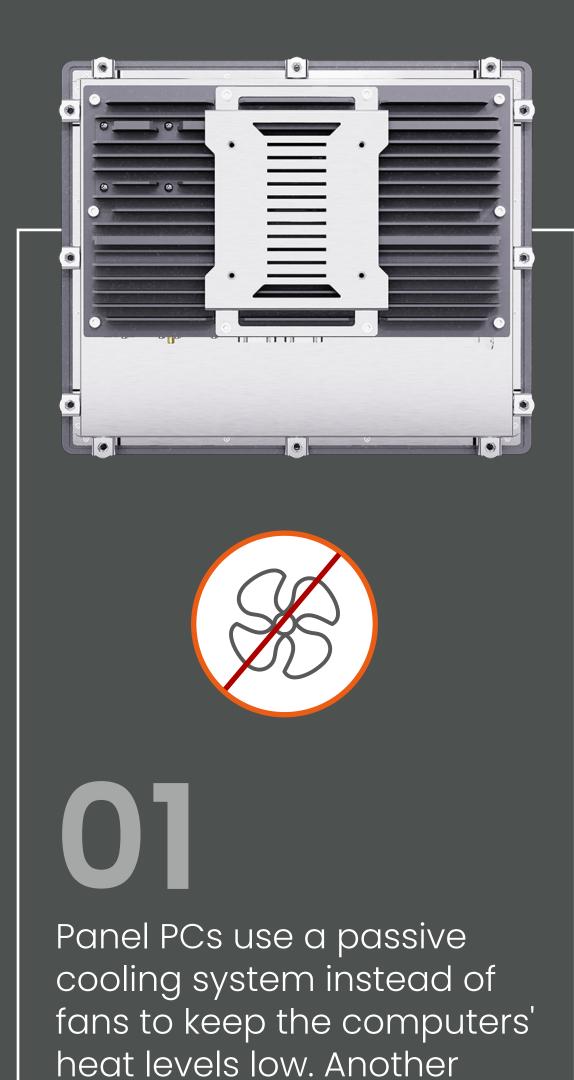
As sensors on the machines capture data about performance and productivity, this data is quickly sent to industrial computers, where it can be stored.

Predictive maintenance software analyses performance to understand why a machine's production is slowing down. It identifies the problem and automatically notifies workers at their workstations.



This way, plants can take precautions, start repairs if necessary, and order spare parts and machinery before they suffer a much more costly breakdown.



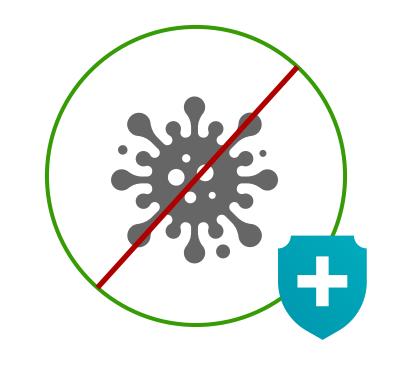


advantage of this fanless

design is that it saves energy.

Ergo 02

Because panel PCs have no fans, there are fewer moving parts, so dust and other debris do not circulate within the computer system. This reduces the need for regular cleaning and maintenance of Panel PCs, maximizing confidence in their trouble-free performance in critical business operations.



Ergonomics





03

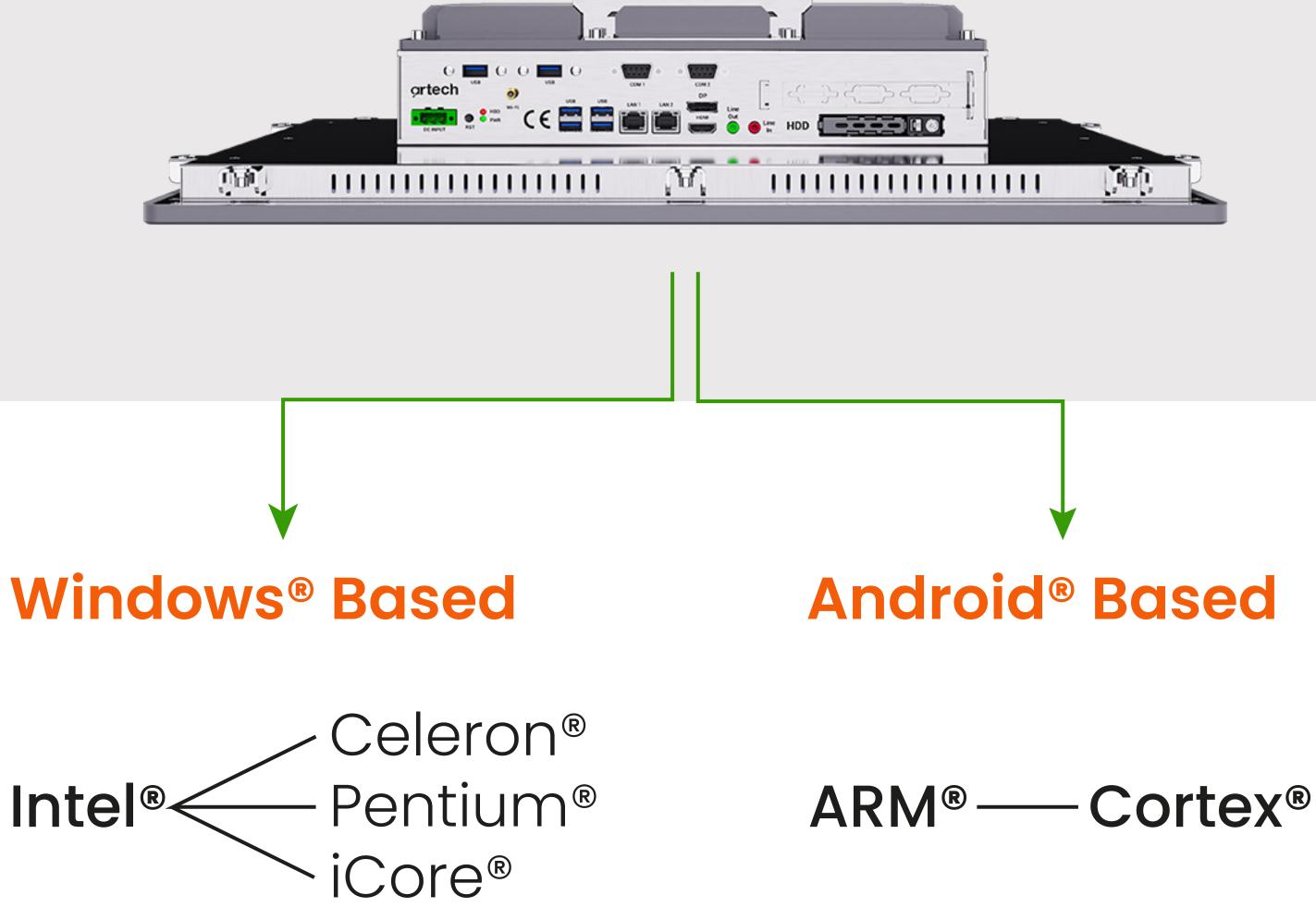
An organized, modern working environment is possible without using space-consuming accessories such as keyboards, mice and other computer peripherals.

ADVANTAGES OF ARTECH INDUSTRIAL COMPUTER SOLUTIONS

PROCESSOR

Low energy use and higher performance with passive cooling

Intel®





TEMPERATURE RESISTANCE

60°C Temperature Resistant



Industrial Grade SSD Resistant to 70°C of Temperature RAM

Industrial Grade RAM Resistant to 80°C of Temperature



LIQUD PROTECTION

ULTIMATE SERIES PERFORMANCE SERIES STAINLESS SERIES VERSATILE SERIES





IP 65 STANDARD

It is dustproof and protects low-pressure water from all directions.



At the Peak of Performance and Durability ULTIMATE SERIES



If the Conditions are Extreme, The Solution is **Art of technology** Industrial Panel Computer





If the Conditions are Extreme, The Solution is artechnology Industrial Panel Computer



When hardness meet's resistance STAINLESS SERIES



If the Conditions are Extreme, The Solution is **artech Industrial Panel Computer**







LIQUD PROTECTION

WATERPROOF SERIES



IP(66) STANDARD

It is dustproof and protects high-pressure water that can come from all directions.

IP66 standard is preferred in medical, construction and food production facilities.



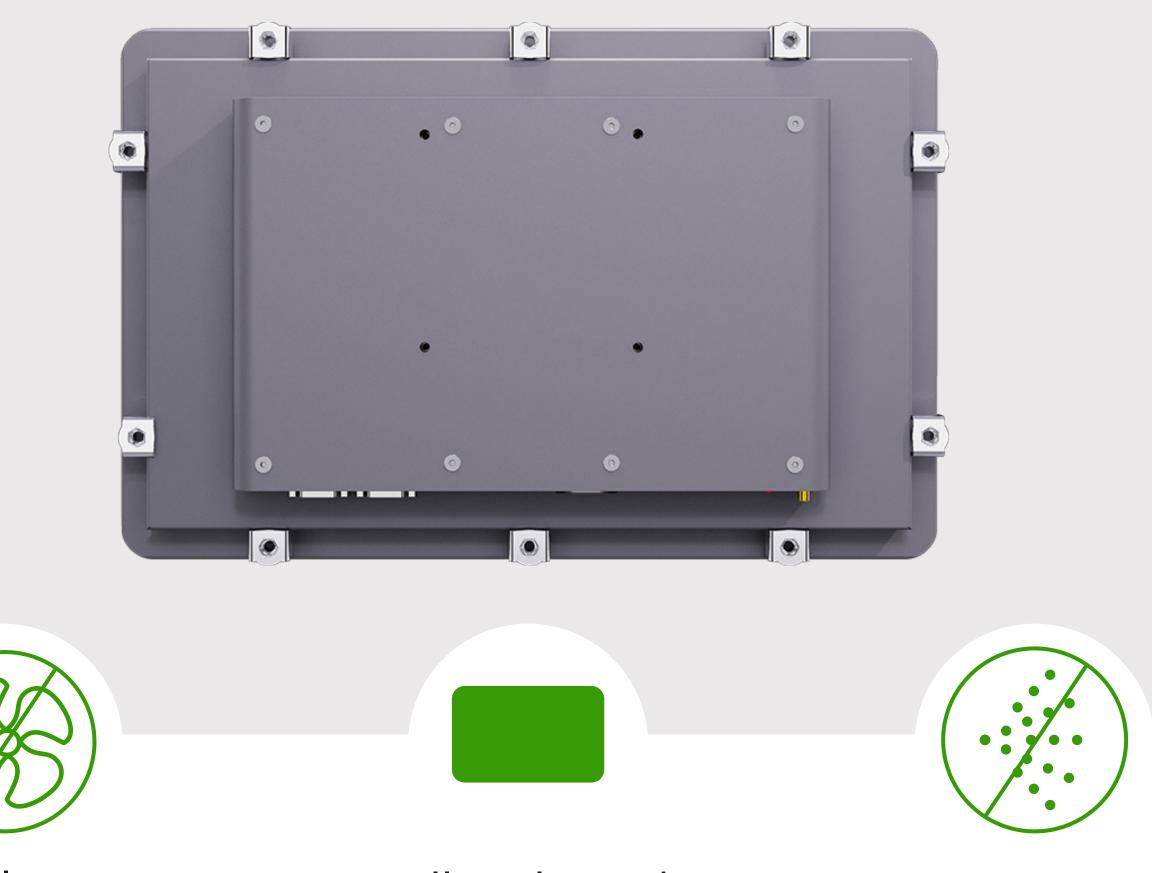
If the Conditions are Extreme, The Solution is art of technology Industrial Panel Computer

WATERPROOF SERIES



DUST PROTECTION



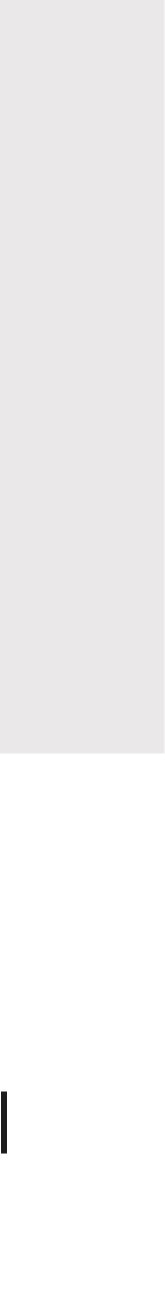


Fanless

Fully Closed

Dust Proof

Industrial Grade Stainless Steel



ERGONOMICS SCREEN SIZE

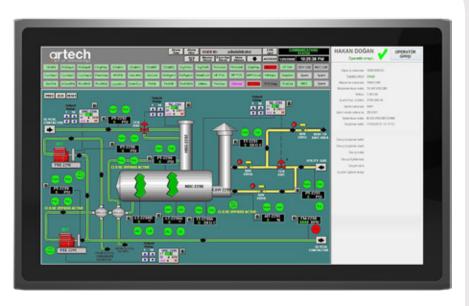


10" / 15" / 17" / 21" **TFT Screen Model Options**

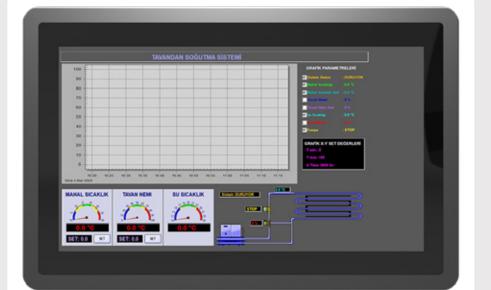


ERGONOMICS

TOUCH SCREEN



Requires pressure on the touchscreen.





Resistive **Flat-Touch**

Capacitive Multi-Touch





It does not require pressure on the touch screen and can sense the object's proximity.

Industrial Membrane Keypad S Touchpad







ERGONOMICS

TOUCH SCREEN



3mm. Thickened, Impact-Reinforced

Resistive and Capacitive Flat-Touch Technology

FAST RESPONSE





FAST RESPONSE TO FAILURE WITH NO LOSS OF COST



NOUNTING



Compliance with Panel and Vesa Mounting

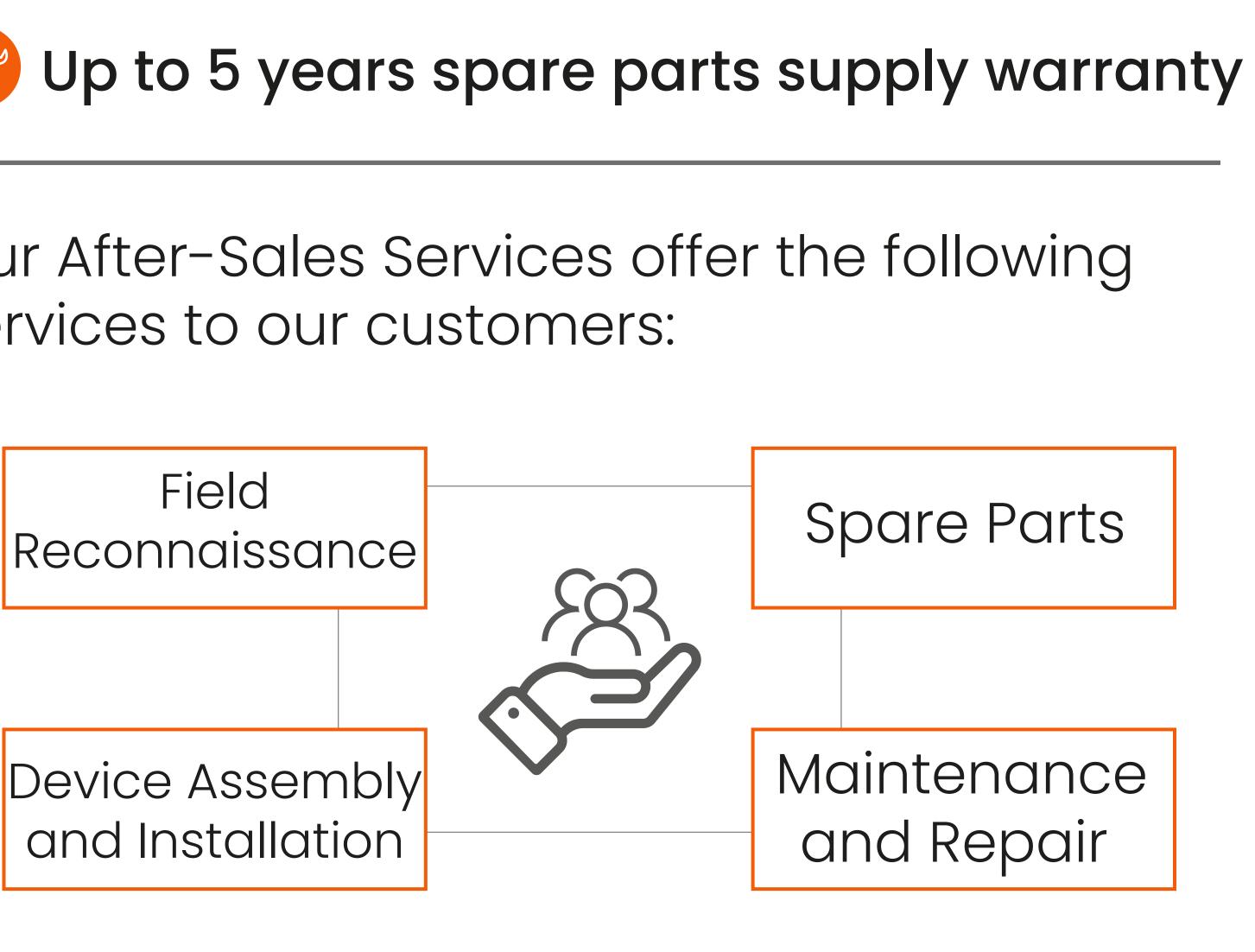
SUITABLE MOUNTING FOR YOUR WORKING ENVIRONMENT



AFTER SALES SERVICES







Op to 3 years warranty



ÇİZGİ TEKNOLOJİ



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