



Dueltron
System Integration



Dueltron System Integration

Company Profile

Engineering Solutions, Elevating Industries



COMPANY PROFILE



True innovation is not just about creating something new, but integrating what exists with precision and purpose to drive progress. The future belongs to those who make technology work seamlessly for people.

-Thomas Edison



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ABOUT COMPANY

Established in 2020, Dueltron (Pty) Ltd is a family-owned enterprise in the industrial automation sector. Operating as Dueltron System Integration (DSI), we deliver world-class services and technologies through two key divisions: Dueltron Automation Systems (DAS) and Dueltron Dust Extraction and Pressurisation Systems (DDEPS). Our solutions empower clients to monitor and manage their environments with ease and confidence, enhancing competitiveness, productivity, and societal progress.

At DSI, our strong partnerships with key industry suppliers enable us to integrate reliable systems using well-established solutions. Our team, certified by leading suppliers, brings uniquely valuable expertise as recognised system integrators and solution providers. We continually explore new technologies to stay ahead in this rapidly evolving landscape.

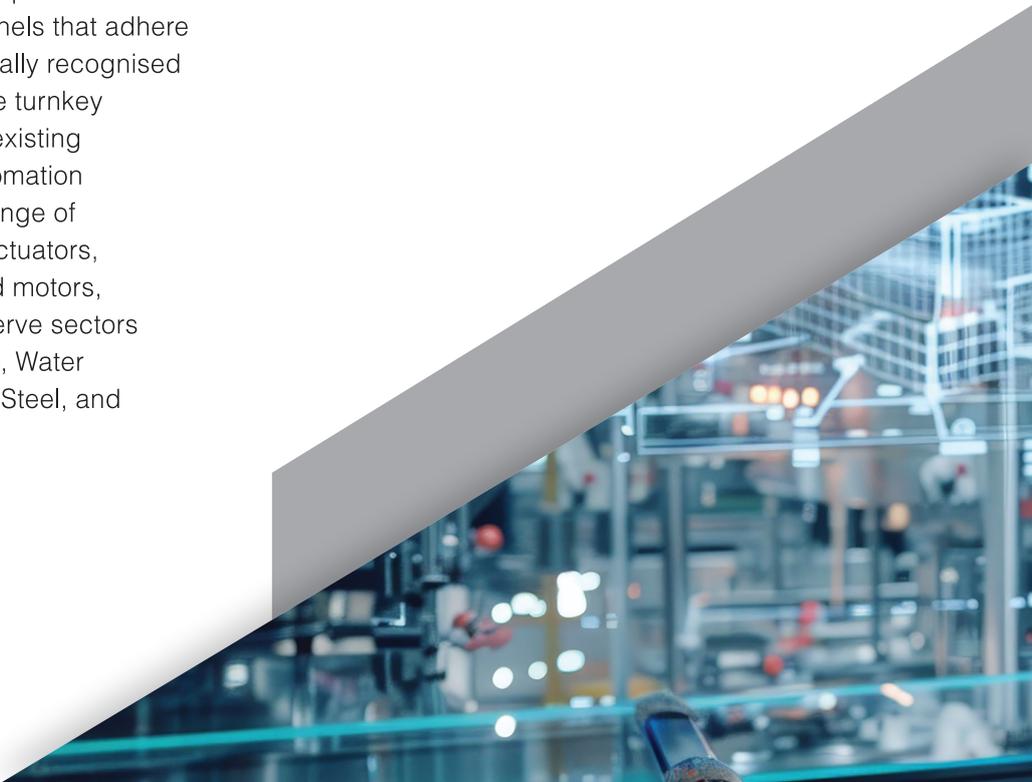
We take pride in building enduring, trusted relationships with our clients. Every day, we deliver world-class service and consultative solutions in industrial automation, guided by our core values of honesty, loyalty, transparency, dedication, and professionalism.

Our state-of-the-art panel-building facility produces high-quality automated and electrical panels that adhere to international standards, while our globally recognised wire marking systems allow us to execute turnkey solutions for both new (green-field) and existing (brown-field) sites. In addition to our automation solutions, we supply a comprehensive range of equipment - including instrumentation, actuators, process valves, electrical motors, geared motors, gearboxes, pneumatics, and more - to serve sectors such as Automotive, Food and Beverage, Water Treatment, Oil and Gas, Pulp and Paper, Steel, and Energy.

Dueltron Automation Systems (DAS) embodies the core functions of DSI, specialising in designing, building, and commissioning integrated industrial automation solutions. From panel building to complete turnkey projects, this division focuses on streamlining processes and enhancing operational efficiency across diverse industries.

In 2024, we expanded our capabilities with the launch of Dueltron Dust Extraction and Pressurisation Systems (DDEPS), bringing over 24 years of experience in dust extraction and pressurisation. DDEPS delivers comprehensive, turnkey solutions for both new and existing sites, ensuring that every project is managed with the same meticulous in-house design and expert consultation as our Automation Systems division.

This integrated approach under the DSI umbrella allows us to provide holistic, reliable solutions tailored to the unique needs of each client while upholding the highest standards of quality and reliability.



DUELTRON EXPERTS



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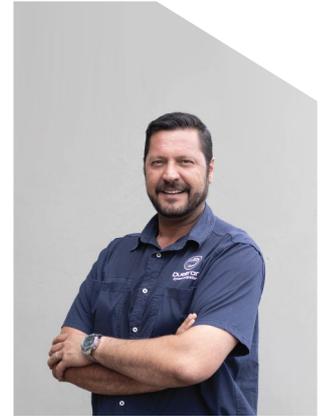
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DUELTRON

AUTOMATION SYSTEMS

AS



DAS specialises in delivering integrated industrial automation solutions that streamline and automate processes across a wide range of industries through advanced technologies and systems.

MISSION

To provide trusted, sustainable, and world-class automation solutions that empower our clients to boost productivity, enhance competitiveness, and drive societal progress. By building robust partnerships, leveraging expert engineering, and maintaining a deep understanding of customer needs, we consistently deliver innovative solutions that align with global best practices.

VISION

To be recognised as the leading provider of integrated industrial automation solutions - celebrated for our innovation, excellence, and commitment to customer satisfaction, and setting new benchmarks in motion control, PLC, and SCADA expertise.

STRENGTHS

Robust Partnerships: We collaborate with established, industry-recognised automation technology providers to gain access to trusted, cutting-edge solutions.

Engineering Excellence: Our team's exceptional skills in motion control, PLC, and SCADA systems ensure optimal performance and seamless integration for our clients.

Customer-Centric Focus: We possess a deep understanding of client processes and control needs, and are dedicated to providing comprehensive training and thorough documentation for smooth, post-implementation operations.

Continuous Innovation: Through ongoing research and development, we consistently deliver the best-fit software and solutions, keeping pace with evolving industry standards.

Commitment to Quality: Our strict adherence to international best practices guarantees that every solution meets the highest standards of quality and reliability.



The true measure of progress is not in the tools we build, but in how well we integrate them into the world around us, improving efficiency, trust, and the lives of those we serve.

- Nikola Tesla

OUR PRODUCT RANGE

At Dueltron Automation Systems (DAS), we partner with a diverse network of trusted suppliers to deliver industrial automation solutions and equipment that are perfectly suited to our clients' needs, ensuring exceptional performance and outstanding value for money.



In addition to our preferred technologies, we support a wide range of industry-recognised brands to meet diverse client requirements. These include:



No great invention is created in isolation - progress comes when minds and machines, ideas and industries, work together.

- Inspired by Nikola Tesla

OUR PARTNERS

At Dueltron Automation Systems (DAS), we partner with a diverse network of trusted suppliers to deliver industrial automation solutions. We are also proud to hold numerous registrations and certifications that underscore our commitment to excellence and reliability:



Certified
System Integrator



Certified
Solution Provider



System Integrator



Certified
Solution Provider



Certified Integrator



Certified Integrator



Certified Reseller



Certified
System Integrator



System Integrator



Certified Reseller



Bronze
System Integrator



Alliance Registered
System Integrator and
Certified Engineer



Certified
Solution Provider



System Integrator

OUR SERVICES

At Dueltron Automation Systems, our core strengths encompass a range of integrated solutions designed to meet the diverse needs of industrial automation. These include:

System Integration:

Combining various automation systems to operate seamlessly, thereby enhancing efficiency and productivity.



Equipment Supply:

Providing a comprehensive range of industrial automation equipment - including instrumentation, actuators, process valves, motors, and electrical components.



Panel Building:

Designing and constructing high-quality automated and electrical panels that adhere to international standards.



Consultative Solutions:

Offering expert advice and tailored strategies to address the specific needs of our clients.



Turnkey Solutions:

Delivering complete, end-to-end solutions for both new (green-field) and existing (brown-field) industrial sites.



Maintenance and Upgrades:

Extending the lifespan of existing automation infrastructure through proactive maintenance, retrofits, and control system modernisation.



CLIENT BASE



DUELTRON

DUST EXTRACTION AND PRESSURISATION SYSTEM

DEPS



DEPS specialises in providing comprehensive solutions for dust extraction and pressurisation in industrial environments.

MISSION

To provide innovative, efficient, and sustainable dust extraction and pressurisation solutions that protect both people and processes. We aim to enhance operational safety, environmental impact, and efficiency for our clients by delivering reliable, turnkey solutions tailored to meet the unique needs of each project.

VISION

To be the leading provider of advanced dust extraction and pressurisation systems, setting the industry standard for environmental safety, compliance, and innovation, while contributing to a cleaner, safer, and more sustainable industrial landscape.

STRENGTHS

Expertise in Dust Management: Over two decades of specialised experience across various sectors, delivering high-quality designs and installations tailored to diverse working processes.

Commitment to Sustainability: Minimising waste and emissions through intelligent, energy-saving technology and advanced, durable filter systems that surpass conventional alternatives.

Advanced Design Capabilities: Utilising 3D designs and photorealistic rendering to optimise workspace efficiency and accurately position products within working environments.

In-House Design & Engineering: Complete control over the design and implementation process, ensuring precision and attention to detail in every project.
Continuous Improvement: Focused on R&D to stay ahead of industry trends and enhance technology offerings.



The greatest advances in engineering are born from a commitment to understanding the needs of our environment, crafting solutions that not only enhance efficiency but also protect our planet.

- Principles of Nikola Tesla

OUR PRODUCT RANGE

DEPS Dura Pulse Dust Collector

The DEPS Dura Pulse Dust Collector is a baghouse equipped with the latest dust control technology. It is specifically designed to suit each application and volume required for efficient dust extraction in the workplace. This system handles intermediate-to-high air volumes with low operating pressure drops.

Advantages

- Easy top access for maintenance.
- Quick and tool-free bag replacement.
- Smart pulsing technology for optimal efficiency.
- Reduced compressed air consumption.
- No internal moving parts, enhancing reliability.
- External mounted header tank for easy access.
- High efficiency with multiple filter media options.
- Custom designs tailored to specific volume requirements.



DEPS Deca Pulse Dust Collector

The DEPS Deca Pulse Dust Collector utilises cartridge filters, employing the same principles as the Dura Pulse Collector. It is tailored for various applications requiring efficient dust extraction.

Advantages

- No filters required, reducing maintenance needs.
- No compressed air or pump requirements, simplifying operation.
- Minimal access requirements for installation and maintenance.



DEPS Decu Cyclonic Dust Separator

The DEPS Decu Cyclone Dust Separator separates heavy dust particles from an air stream using centrifugal forces, without the need for filters. It is ideal for handling larger dust particles in various applications.

Advantages

- Easy side access for maintenance.
- Quick and tool-free filter replacement.
- Smart pulsing for continuous cleaning while operational.
- Reduced compressed air consumption.
- No internal moving parts for increased durability.
- External mounted header tank for easy access.
- Custom designs to meet specific volume requirements.



DEPS Desu Scrubber

The DEPS Desu Scrubber captures dust and fume particles by spraying scrubbing liquor into the air stream. This wet scrubber is designed for efficient dust and fume extraction in various industrial applications.

Types of Scrubbers Include

- Conventional Type Scrubbers
- Venturi Scrubbers
- Multi Venturi Scrubbers
- Packed Pall Ring Scrubbers

Advantages

- No filters required, enhancing operational efficiency.
- No compressed air needs, reducing energy consumption.
- Effective fume scrubbing capabilities.
- Easy access to replacement parts for maintenance



OUR PRODUCT RANGE

Spray Booth Systems

DEPS manufactures complete Spray Booths that comply with fire regulations and municipal by-laws, as well as standalone plenum extraction units for existing spray rooms.

Advantages

- Customised solutions for different application needs.
- Ensures compliance with safety and regulatory standards.
- Available with various accessories like fire dampers and flame-proof lights.



Pneumatic Conveying Systems

A system that transfers powders, granules, and dry bulk materials through enclosed horizontal or vertical lines using air pressure.

Advantages

- Flexible configuration to fit around existing equipment.
- Space-saving design compared to mechanical conveyors.
- Totally enclosed, preventing dust emissions.
- Fewer moving parts for lower maintenance costs.



Ventilation Systems

Comprehensive ventilation solutions for various environments, from industrial factories to office spaces, ensuring optimal air quality and comfort.

Advantages

- Tailored designs to suit specific ventilation requirements.
- Energy-efficient systems for sustainable operation.
- Enhances workplace comfort and air quality.

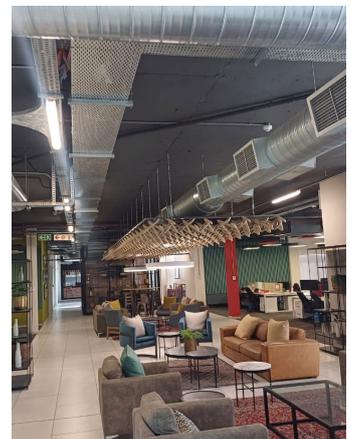


Ducting Solutions

DEPS designs, manufactures, supplies, and installs balanced duct systems for effective dust control. The systems are tailored for both new and existing dust extraction setups.

Advantages

- Round ducts available from 75mm to 1600mm in diameter.
- Custom sizes for square and rectangular ducts up to 3000mm.
- Comprehensive design services using the DEPS-TECH program for accurate calculations.



OUR PRODUCT RANGE

Accessories and Allied Equipment

A range of accessories and replacement parts for dust extraction systems, ensuring operational efficiency and reliability.

Accessories Include

- Rotary and double flap valves, collection drums, and sound attenuation systems.
- Ducting components including centrifugal fans and vacuum points.

Spares Include

- Filter bags, cages, and various types of filters.
- Pneumatic fittings, flow meters, and pressure gauges.
- Complete reverse pulse systems and control dampers.

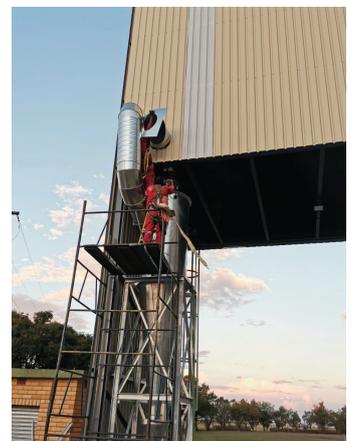


DEPS Installations

Our installation teams are certified and trained in various site working environments, ensuring safe and efficient setup of all systems.

Advantages

- Expertise in working at heights and scaffold erection.
- Certified for legal liability, first aid, and fire fighting.
- Focused on safety and compliance during installation.



CLIENT BASE



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