



Reg No. 2020/649094/07

Tax No. 9163441257 VAT No. 4260292877



COMPANY PROFILE

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SCAN QR CODE

Debbie Kelly

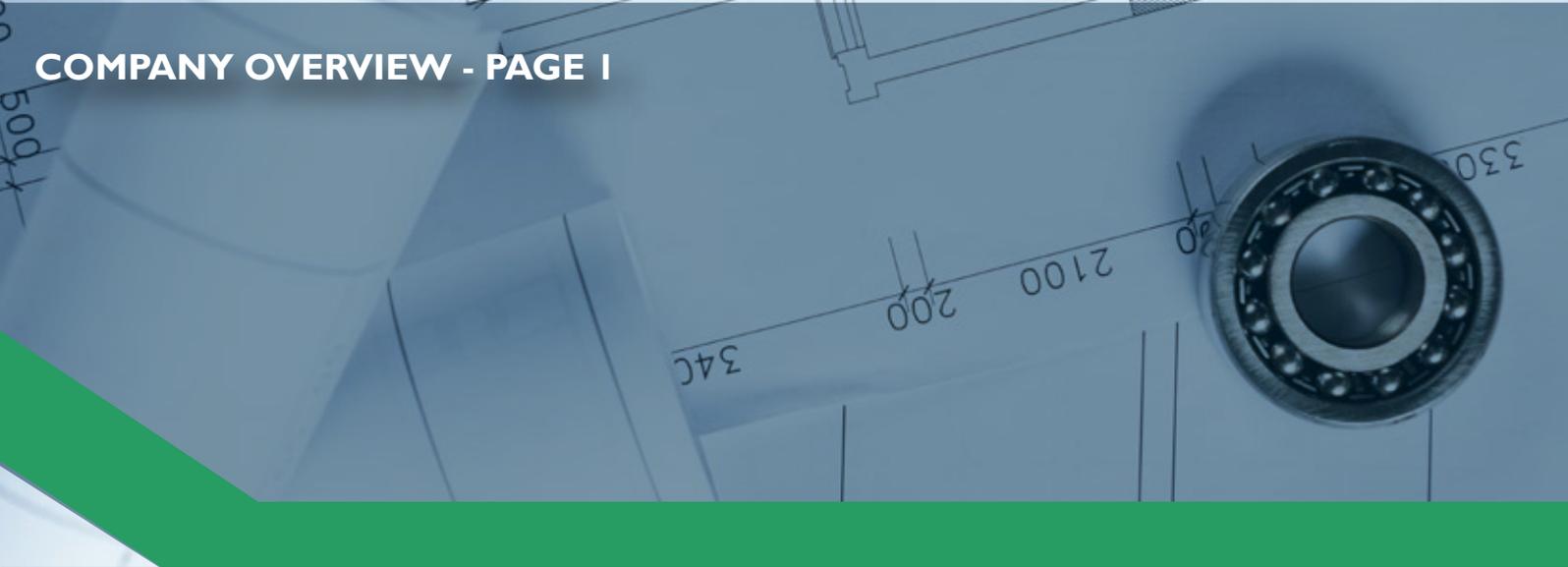
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EXECUTIVE SUMMARY

DHS Group is a multidisciplinary electrical engineering solutions provider dedicated to advancing industrial performance through innovation, precision, and reliability. Established to bridge the gap between modern technology and real-world industrial challenges, we deliver integrated solutions spanning automation, instrumentation, pneumatics, valve systems, and bulk material handling.

Our strategic approach is built on delivering engineered solutions that are technically sound, operationally efficient, and aligned with our clients' long-term objectives. We combine industry expertise, modern technologies, and structured project methodologies to ensure every solution adds measurable value and strengthens operational resilience.

At DHS Group, we believe in more than delivering products; we deliver dependable solutions, sustainable partnerships, and measurable results. Our commitment to quality, safety, and innovation positions us as a trusted partner for industries seeking robust engineering support and reliable long-term service.

With deep technical expertise and a client-centric approach, our team of engineers, technicians, and industry specialists work collaboratively to design, supply, install, and maintain systems that enhance productivity, improve safety, and reduce operational downtime. We pride ourselves on our ability to support diverse industries including manufacturing, water treatment, mining, food and beverage, agriculture, chemicals, logistics, and general industrial processing.

OUR VALUES



INNOVATION

We continuously embrace new technologies and engineering advancements to deliver smarter, more efficient, and future-ready solutions for our clients.



QUALITY EXCELLENCE

We are committed to delivering products, services, and workmanship of the highest standard, ensuring reliability, precision, and long-term performance in every project.



CUSTOMER-CENTRICITY

We build lasting relationships by understanding our clients' needs and delivering tailored solutions that truly add value to their operations.





DHS Group, we believe in more than delivering products; we deliver dependable solutions, sustainable partnerships, and measurable results. Our commitment to quality, safety, and innovation positions us as a trusted partner for industries seeking robust engineering support and reliable long-term service. Our management team consists of seasoned professionals with extensive experience and specialized expertise in automation and instrumentation. Together, we have leveraged our collective knowledge and capabilities to establish DHS Group.

Our operations are built on professionalism, engineering excellence, and long-term value creation. By combining proven engineering methodologies with cutting-edge technologies, such as IIoT, advanced sensor systems, smart automation, and high-performance industrial components, we ensure that our clients are equipped with systems that are efficient, scalable, and future-ready.

BACKGROUND

Desmond Kelly

Electrical & Instrumentation automation.
- 20 years experience

Automation / Software development
- 15 years experience

Certification:
• Siemens Simation, Unitronics basic & advanced,
• iFM codesys Experience on Schneider & koyo plc's

Machining & Fabrication custom solutions
- 10 years experience. (Fitting & turning)

Pneumatic & Electrical Panel Designs & solutions
- 18 years experience.

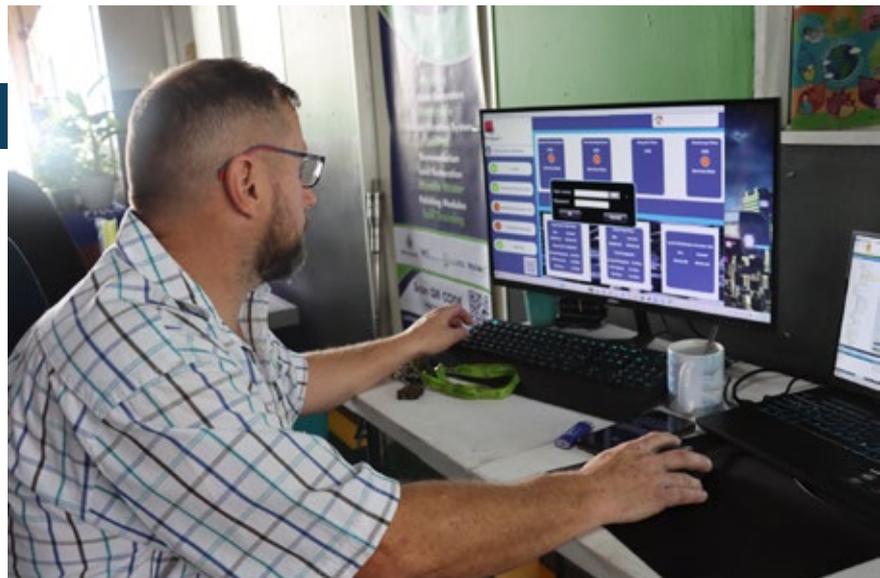
Draughtsman
- 10 years experience Visio and FreeCad

Isaac Matsai

Boilermaking & Fabrication
- 15 years experience

Debbie Kelly

Mechanical/Instrumentation & Pneumatic
- 17 Years experience
• Festo Basic Pneumatics Level 1
• IFM Condition Monitoring
• Specialize in Valves and Actuation.



Process Optimization & Control Logic Design

We modernize and refine existing control systems to improve efficiency, reduce operating costs, enhance stability, and extend asset life.

- Conduct a detailed assessment of current processes and bottlenecks.
- Analyse historical operational data and equipment behaviour.
- Develop optimized control logic and process strategies.
- Implement and test revised control sequences.
- Monitor performance and fine-tune for maximum efficiency.
- Provide long-term optimization support and system audits.

OUR SERVICES

PLC Programming, Integration & Commissioning

Service Description:

We develop, configure, and integrate PLC systems for new installations, upgrades, and process optimization.

Our expertise covers all major PLC platforms used across industrial sectors.

Process Flow

- Evaluate process requirements and existing control architecture.
- Develop PLC software and control logic.
- Simulate and test programs in a controlled environment.
- Integrate PLC hardware and software on site.
- Commission the system and ensure seamless process operation.
- Provide ongoing technical support and program refinement.

Supply and Maintenance of PLC Spares

Service Description:

We offer a comprehensive supply of PLC hardware, modules, and components, ensuring clients have access to critical spares for uninterrupted plant operations.

Process Flow

- Assess the client's installed PLC base.
- Identify and source essential and critical spare modules.
- Maintain a reliable inventory for fast turnaround.
- Provide installation, testing, and replacement of faulty components.
- Offer periodic reviews to update spares lists for ageing systems.

SCADA System Integration

Service Description:

We design and integrate SCADA systems for real-time monitoring, control, and data acquisition across wastewater, industrial, and processing environments,

Process Flow

- Analyse process monitoring and visibility requirements.
- Develop SCADA architecture and interface layouts.
- Configure alarms, trends, data logging, and dashboards.
- Integrate SCADA with PLCs, sensors, and networks.
- Conduct site commissioning and operator training.
- Provide system updates, backups, and ongoing support.

INSTRUMENTATION - PAGE 4

Our instrumentation services deliver precise, dependable measurement and monitoring solutions across flow, level, proximity, temperature, and pressure applications.

We specialise in selecting, supplying, calibrating, and maintaining high-accuracy sensors that support stable process control and compliance.

By integrating advanced instrumentation into automated systems, we ensure consistent performance, reduced variability, and enhanced process visibility.

OUR SERVICES

Flow, Level, Proximity, Temperature & Pressure Instrumentation

Service Description:

We supply, install, calibrate, and maintain precision instruments essential for process measurement and control.

Process Flow

- Conduct site assessment to match instrument type to application.
- Supply industry-compliant and process-compatible sensors.
- Install and commission instrumentation to OEM specifications.
- Integrate instruments into PLC/SCADA systems.
- Perform calibration and accuracy verification.
- Provide routine maintenance and troubleshooting.

Advanced Process Sensors & Safety Instrumentation

Service Description:

We deliver specialized sensors, including safety-rated and hazardous-area devices, to ensure compliance, plant protection, and reliable monitoring.

Process Flow

- Identify process risks and environmental conditions.
- Select certified devices (SIL-rated, ATEX, IECEx).
- Install with strict adherence to safety standards.
- Configure and test safety circuits or interlocks.
- Provide ongoing inspection and functional testing.



PNEUMATICS - PAGE 5

We supply high-quality pneumatic systems, including cylinders, rotary actuators, dampers, and accessories, designed for robust industrial performance.

Our services include both the provision of new equipment and the professional refurbishment of existing pneumatic cylinders.

With a dedicated local repair capability, we help clients extend equipment lifespan, reduce replacement costs, and maintain smooth, dependable operation across all motion control applications.

OUR SERVICES

Supply of New Pneumatic Cylinders

Service Description:

We supply high-performance pneumatic cylinders for industrial motion control applications across various industries.

Process Flow

- Evaluate application requirements (stroke, pressure, load).
- Select and size suitable pneumatic cylinders.
- Supply OEM-certified cylinders and accessories.
- Install and test stroke, pressure, and alignment.
- Provide service manuals and maintenance guidelines.

Pneumatic Cylinder Refurbishment & Repairs

Service Description:

We offer a local repair and refurbishment service for all pneumatic cylinders, restoring components to near-new condition.

Process Flow

- Strip, clean, and inspect cylinder components for wear.
- Replace seals, rods, bearings, and damaged components.
- Reassemble and pressure test for leaks and performance.
- Apply corrosion protection where required.
- Issue performance test reports and recommendations.

Supply of Pneumatic Accessories

Service Description:

Includes rotary actuators, rotary dampers, positioners, switch boxes, and pneumatic conveyor accessories.

Process Flow

- Identify motion, torque, or control requirements.
- Select compatible pneumatic accessories.
- Install and integrate with existing pneumatic circuits.
- Test systems for speed, responsiveness, and seal integrity.
- Provide spares and service support.

We offer a comprehensive range of industrial valves and actuator solutions suited to water treatment, industrial processing, chemical handling, and general manufacturing. From butterfly and ball valves to solenoid, diaphragm, and smart RFID-enabled CONEXO valves, we handle supply, installation, and integration.

Our flow control solutions ensure safe, efficient, and precise regulation of fluids and gases under varying process conditions.

Our solutions include supplying butterfly valves, ball valves, control valves, diaphragm valves, check valves, solenoid valves, electric valves, globe valves, multi-port blocks, pressure control valves, pilot valves, and accessories.

OUR SERVICES

Industrial Valves Supply

Service Description:
We supply a full range of industrial valves suitable for water, wastewater, chemical, and industrial process environments.

Process Flow

- Evaluate process conditions (pressure, temperature, media).
- Select material and valve type suitable for media compatibility.
- Configure valve actuation: electric, pneumatic, or manual.
- Supply and integrate valve accessories (positioners, switches).
- Conduct pressure and functional testing.
- Provide documentation and maintenance support.

Smart Valves – CONEXO RFID Valve Solutions

Service Description:
We supply RFID-enabled valves for traceability, maintenance management, and digital lifecycle tracking.

Process Flow

- Identify valves for RFID integration.
- Configure CONEXO tags and database linkages.
- Install and commission RFID-enabled components.
- Integrate with plant maintenance systems (IIoT/CMMS).
- Provide training on traceability and data management.



We provide complete bulk material handling solutions, including conveyors, feeders, silo systems, bulk bag equipment, and mixing or screening technologies.

Our systems are engineered to improve throughput, reduce material losses, and support reliable, dust-controlled handling.

Whether for sludge, powders, granules, or mixed industrial materials, we deliver equipment that enhances plant performance and operational safety.

OUR SERVICES

Conveying & Feeding Equipment

Service Description:

We supply and integrate material movement systems for efficient, continuous, and dust-controlled handling.

Includes vibrating feeders, screw conveyors, rotary vane feeders, bucket elevators, air slides, dosing screws, and pneumatic conveyor accessories.

Process Flow

- Assess material characteristics and flow requirements.
- Size equipment based on throughput and particle behaviour.
- Supply robust, wear-resistant equipment.
- Install and align conveying systems.
- Test load handling, flow rate, and safety mechanisms.

Bulk Bag, Silo & Storage Solutions

Service Description:

Bulk bag unloaders, bulk tanker loaders, silos, and drum tipper.

Process Flow

- Determine storage volume and material type.
- Select appropriate equipment and materials (SS, mild steel, HDPE).
- Supply and install equipment with structural supports.
- Integrate dust control and safety systems.
- Commission and train operators on safe use.

Mixing, Screening & Conditioning Equipment

Service Description:

Blenders, mixers, sifters, screens, and lump breakers.

Process Flow

- Evaluate material mixing or classification requirements.
- Size equipment to match process flow and particle distribution.
- Install and align mechanical components.
- Test performance (uniformity, throughput, vibration).
- Provide maintenance schedules.

Our advanced sensor, communication, and IIoT solutions enable smart plant connectivity, real-time diagnostics, and data-driven decision making.

We supply motion sensors, process sensors, industrial imaging, IO-Link devices, identification systems, and IIoT gateways to support next-generation automation.

These technologies empower clients with actionable insights, improved traceability, enhanced safety, and seamless integration into modern digital platforms.

OUR SERVICES

Position & Motion Control Sensors

Service Description:

We supply and integrate precise position, distance, and motion sensors for critical automation functions.

Identification Systems (RFID/Barcode)

Process Flow

- Identify motion control application.
- Select appropriate sensor technology.
- Install and calibrate sensor outputs.
- Integrate with PLC/SCADA for closed-loop control.
- Identify assets requiring tracking.
- Deploy RFID/barcode readers and tags.
- Integrate into asset management or IIoT platforms.

Industrial Imaging Systems

Service Description:

We deploy camera systems for inspection, monitoring, and process verification.

IIoT Software, Gateways & Power Supplies

We enable digital transformation with edge gateways, cloud connectivity, analytics, and remote monitoring.

Process Flow

- Assess process area visibility needs.
- Select imaging technology (2D, 3D, thermal).
- Install cameras and ensure correct field of view.
- Integrate into SCADA or standalone systems.
- Assess plant digital readiness.
- Configure gateways and data collection points.
- Integrate with cloud or on-premise platforms.
- Implement dashboards and alarms.
- Ensure cybersecurity and system resilience.

Safety Systems

We supply safety sensors, emergency stop circuits, safety controllers, and interlock systems.

Industrial Communication & IO-Link Systems

We deliver modern communication infrastructure for sensor integration, network health monitoring, and smart diagnostics.

Process Flow

- Perform risk assessments on plant areas.
- Determine required SIL/PL ratings.
- Install safety devices and validate circuits.
- Test and document safety compliance.
- Review existing communication architecture.
- Select IO-Link masters and devices.
- Configure network protocols (Profinet, Ethernet/IP, Modbus TCP).
- Test communication reliability and redundancy.

PRODUCTS & BRANDS- PAGE 9

DHS Group has negotiated OEM "Trading Partner Agreements" with the following distributors:

- Kinetrol
- Bulkmatic
- GEMU

Electrical & Mechanical Accessories

- Cables, glands, connectors, brackets, junction boxes, and mounting hardware.
- Identify installation requirements.
- Select compatible accessories based on environment.
- Supply and fit accessories during installation.
- Perform final inspection for insulation and environmental protection.

Power Supplies & Distribution Accessories

- Identify voltage/current load requirements.
- Select industrial-grade power supplies.
- Install and integrate with control systems.
- Test redundancy and load balancing.

OUR PRODUCTS



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| <ul style="list-style-type: none"> • Air Slides & Accessories • Blenders & Mixers • Bucket Elevators • Bulk Bag Unloaders • Bulk Tanker Loaders • Dampers • Drum Tippers • Flap Valves | <ul style="list-style-type: none"> • Flow Control Gates • Knife Gates, Rod Gates & Clamshell Gates • Pneumatic Conveyor Accessories • Rotary Vane Feeders • Screens, Sifters & Lump Breakers • Screw Conveyors, Dosing & Sampling Screws • Silos & Silo Accessories • Vibrating Feeders |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Butterfly valves • CONEXO - Valves with RFID • Pressure control valves • Fittings & tubes • Ball valves • Solenoid valves • Electric valves | <ul style="list-style-type: none"> • Diaphragm globe valves • Control valves • Check valves • Globe Valves • Valve actuators • Pilot valves • Accessories valve designs |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> • Pneumatic Cylinders <p>We offer a local repair service on all pneumatic cylinders</p> | <ul style="list-style-type: none"> • Rotary Actuators • Rotary Dampers • Positioners • Switch Box | <ul style="list-style-type: none"> • Systems for Mobile Machines • Connection Technology • IIoT Software • IIoT Gateways and Appliances • Power Supplies • Accessories • Identification Systems | <ul style="list-style-type: none"> • Position Sensors • Sensors for Motion Control • Industrial Imaging • Safety Technology • Process Sensors • Industrial Communication • IO-Link |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

PROJECTS COMPLETED 10



Project 1 Municipality

- Water Plant - Pneumatic Air System
- Upgrade*56 Solenoid Valve Panel c/w
- Manifold, Isolation valves, Air dryer,
- Tubing, Filter Regulator, water separator, cyclone water trap.
- Service existing compressor.

Project 2 Transalloys

- Design and install Hydraulic power pack and hydraulic piping installed for Mudgun.

Project 3 Wenzane

- PLC panel for bend break (hydraulic system) automation of system.



Project 4 Consol Glass

- Pneumatic PLC panel for waste water separation.

Project 5 Jelawe Projects

- Sinyanqoba Sewage Plant
- MCC Build & install.
- Sewage Level indication(ultrasonic) supply & installation.
- Electrical Highbay Lights (supply& install)
- Solar Upgrade

Project 6 OMV

- Install Isolation Knife Gate Valve at Silo's
- Supply & Install custom work platform at Silo including hand railing.
- Hoist service and install new wireless remotes
- Air cannon pneumatic panel supply & install
- Pneumatic cylinder for bulk bag handling & loading supply & install.
- Custom build & install safety guards for all motors and belts



Project 7

Sibambene Mining Supplies

- Soft Start panel complete

Project 8

Flowbin sales and reconditioning

- Upgrade washplant: from manual operation to automated.
- Automated cleaning and wash stations.
- Temperature controls on caustic cleaning system c/w plc control system.
- VSD system - for speed control.

Project 9

Witbank water plant

- Replacement of critically damaged double acting pneumatic actuators with new Vane type rotary actuators.
- Install Electric Isolation Valves.
- PLC upgrade for timer control.

Project 10

Witbank water plant

- Secondary Lime Dosing System c/w PiD control.
- Building custom tank with aeration for agitation of lime.
- Supply & Install motors & pumps
- vSd's, isolation valves, pneumatic panel, plc auto/manual control panel
- Ultrasonic levels, ph monitoring

Project 11

Greenroom

- Hydraulic Ventilation doors underground power pack
- Cylinders
 - Plc panel
 - OEM (Dhs) Custom build light sensing beams
 - Proximity Switched (open/close indication)
 - Traffic Light (status indication)
 - Safety Beams for auto closing feature.

Project 12

Procon

- Dwarsrivier PLc panel complete
- Booyendal PLc panel complete
- Anglo Mototolo PLc panel complete



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