

In Service of Industry:

DRM is the bridge to industries of all types, allowing operators, maintenance and managers to get the most from their systems.

Automotive

- Assembly Cells
- Dispensing/Spray Cells
- Robot Assisted Manufacturing
- Test Equipment
- Polyurethane (RIM) Integration
- Data Tracking
- Electro-Mechanical Equipment Rebuilds
- Safety Upgrades

Chemical

- Data Collection and Reporting
- HASMAT, HASWOP Compliant
- Process Piping Design and Installation
- Installation for 3rd Party Equipment Systems
- Process Controls Integration
- SCADA
- DCS to PLC Replacement

Consumer Goods

- Apparel Distributors
- Ball Bearing Manufacturing
- Capturing of Water to be Bottled
- Color Ad Printing
- Kitchen Appliance Manufacturing
- Light Car and Heavy Truck Tire Manufacturing
- Lumber Mills
- Office Products Material Extrusion
- Steel Build Manufacturing
- Tile Manufacturing
- Water Heater Manufacturing

Environmental

- Installation for Equipment and Systems
- Process Controls
- Integration into Complete Solutions
- Regulatory Data Collection and Reporting
- Integration
- Remote Site Installation and Monitoring

Food and Beverage

- Processing and Packaging
- Regulated Metering and Reporting
- Food Grade Pipe Design and Installation
- Food Grade Work and Machine Surfaces
- Machinery and Equipment Installations
- Machinery Upgrades including Safety
- Remote Site Design, Installation and Monitoring

Foundry

- Smelting, quenching and tempering applications
- Process heating - humidity chambers, glass truing, etc.
- Process cooling - chilled water systems, material forming, etc.
- OEM equipment installation
- Furnaces and Ovens Installation and Repair
- Custom built solutions tailored to specific needs
- Data collection & reporting - Plant Metrics and OEE solutions

Process

- Design and build of process skids
- Complete for RIM (Reaction Injection Molding) systems
- Vessel, equipment and piping installations
- Custom mezzanine design, fabrication and installation
- Mechanical and electrical installations
- Fiber and copper networking of various protocols
- Data gathering and report generation
- PLC and SCADA control
- Upgrades to existing systems

Plant Solutions:

Our understanding of automated systems, electrical and piping schematics, flow diagrams, proper power and control wiring practices, and more gives us an edge over our competition.

Verification

- Automotive soft and hard tubing assembly
- Appliance applique adhesive dispensing, verification, joining
- Kitting assistance for ever changing material orders
- Part inventory and lot tracing control
- Packout station - correct assemblies in shipping container
- Automated labeling for in-process/completed goods
- Automated positioning for next proces

Arc Flash

Coating and Dispensing

- Adhesive spray application
- Primer application
- Under coat application
- Robotic spraying
- Metering systems
- Draw and dose (Lance systems)

General Contracting

- Custom CAD designed cable tray layouts
- Hazardous location capable
- Custom fabrications
- Certified welders skilled in chemical and food facilities
- On-site project management
- Fuel farms
- Fire alarms
- Emergency or disaster capable
- Equipment relocation
- Network installations for fiber and copper
- Chemical and process piping
- On-site equipment rebuild
- Safety guarding
- Controls retrofits
- Electrical and mechanical installation
- Security systems

Line Layout

- Best fit scenarios for machining lines and processes
- Personnel and fork truck egress expectations
- Ventilation layout and operation
- Mezzanine design
- Piping and vessel layouts
- Material flow
- Utilities routing
- A scaled virtual model of your finished cell/line/facility.

Manufacturing Upgrades

- Press controls
- Machine guarding, both hard and soft
- Electrical Controls retrofits
- Machine cell grouping
- CNC to modern PLC/Motion conversions
- Dedicated operator interface to off-the-shelf available units
- Convert hydraulics to servo electrics
- Robotic machine tending
- Ventilation
- Advanced combustion controls
- Data gathering and report generation

Paint System Integration

- Liquid electrostatics paint integration
- Bulk paint control and monitoring
- Fire suppression systems installation
- Robotic spraying
- Utilities installation including power, ventilation and piping

Process Heating and Cooling

- Control and Instrumentation Design
- Process Monitoring
- Combustion and Controls
- Clean and Harsh Manufacturing Environments

Safety

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Technologies:

We supply cutting edge technolgy developed to meet the needs of the manufacturing world of today and for the future.

3D Design

- 3D Solid Object Modeling
- Plant HVAC Systems
- Harsh Duty Mechanical including Mezzanines
- Automation Fixturing, Work Cells, Robotic End of Arm Tooling
- Plant Utilities
- Process Heating and Cooling

Automation

- PLC and PC Based Controls
- Robotics for Material Handling
- SCADA and HMI Graphical User Interface
- Robotics for Dispense/Spray
- Robotics for Pick/Pack/Pal
- Vision for Inspection
- Motion Applications
- Simulation
- Data Management inc. Historian & Metrics

HMI / SCADA

- Plant Metrics, Process Efficiencies
- ILVS In Line Vehicle Sequencing
- Performance Reporting
- Data Tracking and Product Tracing
- Inventory Control

Industrial Networking

- Hirschmann Systems Integrator
- Network planning, design and installation
- Specialists with fiber-optics and copper
- Fabricate and install termination cabinets
- Server cabinets
- Point of use hardware clients
- Network testing and documentation survey

Motion Control

- Multiple axis machine coordination
- Spindle control
- Hydraulic system replacement
- CNC replacement
- Robotic EOAT applications
- Machine energy savings
- Pump control
- Safety upgrades
- Simplify existing mechanical applications

Panel Fabrication

- NEMA 12, Food Grade, Hazardous, Furnace, Damp locations
- NFPA 70E, NFPA 79, RIA 15.06, UL-508A with IEC and CSA
- Power-up and performance testing
- Custom painting and labeling
- Custom climate control capabilities
- Quick connect solutions for rapid field installation
- Fiber-optic and copper distribution panels
- Server cabinets

PLC

- Master controller for robots, operator interface, SCADA
- Master controller for burner systems and test equipment
- Communications master for different networks topologies
- Communications master for machine controller types
- Communications master for data acquisition.
- Replacment of CNC controllers on machine applications.
- Replacment of DCS controllers on process applications.
- Capable of data collection and storage to data base systems.
- Capable of remote monitoring and control.
- Complex mathematics, coordinated motion nd kinematics
- Safety controllers

Process Piping

- Certified 4G welders for black pipe and stainless steel
- X-ray analysis
- 3D design
- Instrumentation installation, wiring and programming
- Pump and skid design and installation

Technologies:

The wide reange of expertise and mastery of technologies within our comjpany enables us to take virtually any project.

Process Systems

- Design, fabrication, installation - stainless steel chemical lines
- Certified welders on staff
- Tracing
- Process skids
- Process design with 3D graphical representation
- Electrical installation and calibration
- Batching

Robotics

- Custom End Of Arm Tooling (EOAT) design and fabrication
- Quick change tooling - electrical/pneumatic/vacuum
- Multiple gripping technologies
- Custom base design
- Safety system functionality
- 3D simulation
- Direct communication with PLC or HMI - best-in-class control
- Material handling, dispensing/spraying, pick/pack/pal
- Vision, Force Guidance and 7th axis positioning applications

Structural Design

- Professional Engineer stamped designs
- Certified welder construction
- Mild steel, aluminum and stainless
- Built-in catch basins
- Built-in illumination

Vision

- Part type distinction
- Defect detection
- Orientation
- Location adjustment
- Bin picking
- OCR
- Robotic position offset adjustment
- Label verification
- Blackout boxes/Custom illumination/Custom camera holders

Products

DRM's years of work in the field has enabled us to develop a number of custom products and turn key systems, such as portable robotic work cells, and test equipment.

Industrial Contracting

- Certified Welders
- Electrical and Mill Wright crews
- Steel Fabrication
- Sheet Metal Fabrication
- Machine Shop
- Electrical Panel Shop
- Plant Illumination
- Industrial Piping
- Process Skids
- Machine Moving
- Line Relocation and Upgrades
- Furnace and Oven Upgrades

Roboskid

- Designed to fit inside most semi-trailers
- Complete from FAT (Factory Acceptance Testing)
- Minimal installation time on the factory floor.
- Easy move within the manufacturing facility

Test Equipment

- Run Testers for HVAC units
- High Potential testers
- Component performance and endurance testing
- Calendar roll strand proving
- Moisture content
- Process Weighing

Turnkey Systems

- Assembly Lines
- Conveying Systems
- Building Environmental
- Process Controls
- Process Humidity and Temperature
- Packaging Systems
- Palletizing Cells
- Equipment Relocation or Re-Application
- Plant wide data collection