

stegner controls

A Premier Provider of Solutions for Electrical and Fluid Power Control





SUPPORT IT

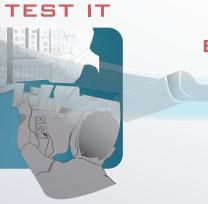
INTEGRATE IT

COMPLETE LIFE-CYCLE SUPPORT FOR MORE THAN 50 YEARS

THINK IT



from simple panel builds, to full integration of complex turnkey solutions.



LEARN FROM IT



SOURCE IT

DESIGN IT

PLAN IT

your intelligent solution

THINK IT

• Specification Review

- Concept Generation
- Resource Analysis

PLAN IT

- Requirements Review
- Scope of Work
- Cost & Timing

DESIGN IT

- Design Engineering
- Layout
- Analysis
- Approvals

SOURCE IT

- Component Selection
- Sourcing/Purchasing

BUILD IT

- Prototyping
- Manufacture
- Quality Assurance

TEST IT

- Performance Validation
- Build Process Validation

INTEGRATE IT

- Installation
- Start-Up
- In-Process Validation

SUPPORT IT

- In-Process Quality
- Maintenance & Repair

LEARN FROM IT

- Technical Memory
- Sharing/Leveraging
- Continuous Improvement

STAGE 2

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INDUSTRIES

AEROSPACE



Empennage Assembly **Final Assembly** Fuselage Assembly Wing Assembly



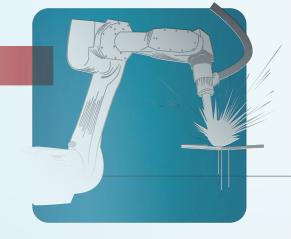
Stegner's body of knowledge not only provides exceptional solutions, but also tremendous value.



JOINING TECHNOLOGIES



Dispensing Cells Final Assembly Cells Gluing/Sealant Inspection & Verification



DEFENSE





Autonomous Vehicles **Factory** Automation **Special Machinery** Track Vehicles Wheeled Vehicles

AUTOMOTIVE

Controls Verification Robotics Safety Vision Body In White Engine & Transmission Assembly

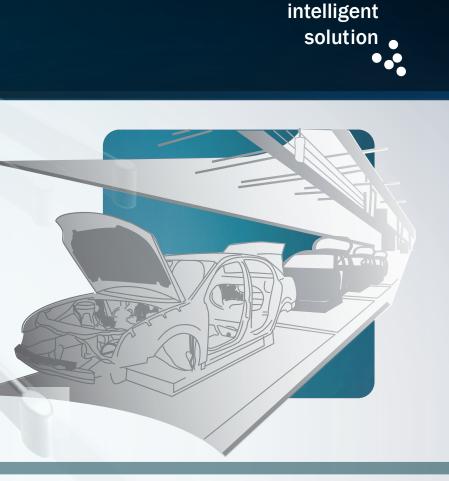
Final Assembly Metal Removal Paint Test

MACHINE TOOL POWER GENERATION ENTERTAINMENT PHARMACEUTICAL FOOD AND BEVERAGE PRESS AUTOMATION PRINTING & CONVERTING AND MORE

MOBILE EQUIPMENT

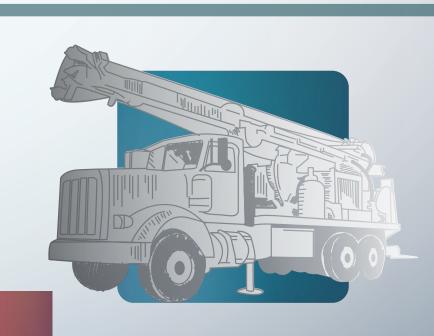


Agricultural Machines Forestry Machines **Off-Road Vehicle Control Rail Transportation Renewable Energies**



your

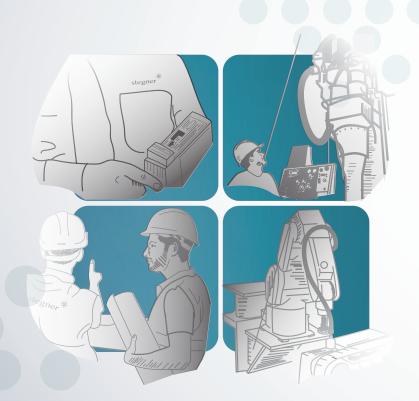
Our broad industry experience has left us a unique technical memory that we leverage with tremendous success for all our customers.





CAPABILITIES

Going forward, look to Stegner for recurring needs, but also for technologies that differentiate your business.



We gain your trust with products and processes that prove time and again to be, by far, the most cost effective.

Control Expertise

Automation/Assembly

- Allen-Bradley CompactLogix¹
- Allen-Bradley ControlLogix¹
- Allen-Bradley Micrologix¹
- FactoryTalk View²
- Fanuc³
- Modicon, Quantum⁴
- Siemens S Series⁵
- Telemecanique⁴
- RS View Series¹

Metal Cutting/Powertrain

- Allen-Bradley Kinetix¹
- Bosch Rexroth CLM/CLT/CLC⁶
- Bosch Rexroth DIAX02/04⁶
- Bosch Rexroth Indra Drive⁶
- Bosch Rexroth MLC⁶
- Bosch Rexroth MTX⁶
- GE Cimplicity⁷
- Fanuc i Series³
- Fanuc PowerMate³
- Mitsubishi CNC⁸
- Siemens 840 Series⁵
- Telemecanique NUM CNC⁴

Panel Build

- 100% Panel Testing Before Shipment
- Labor Plus Material
- UL Panel Build Facility – Built to CSA, CE, IÉC

Welding

- Advanced Alloys
- Aluminum Welding
- Flash/Butt Welding
- General Purpose Resistance Welding
- High Current Flash Welding
- Precision Spot Welding
- Press Welding
- **Projection Welding**
- Seam Welding
- Short Duty/High Current Applications

Machine Control Design Expertise

Automation/Assembly

- AGV/ASRS Systems
- Automated Inspection
- Material Handling Equipment
- Press Automation
- Robotic Manufacturing Cells
- Seat PODS Systems
- Sortation/Distribution/Towline/ Power & Free Conveyors
- Specialty Machines
- Trim Press Machines
- Underbody Assembly
- Weld Panel & Weld Lines
- Wheel Alignment Machines

Metal Cutting/Powertrain

- Adhesive Application Equipment
- Broaching Machines
- Chilled Water Systems
- CNC Machining Centers/Turning Machines/Lathes
- Fastening Systems
- Gear Shapers/Shavers/Hobbers
- Induction Heating Machines
- Leak Test Machines
- Linear and Area Gantries
- Micro Finishing Machines
- Press Fit Machines
- Torque-To-Turn Test Machines
- Transfer Machines/Dials

Vision

- Assembly Verification
- Defect Inspection
- Part Identification
- Vision Guided Robotics

Americanization of Off-Shore Machines

- Conversion Of Hardware/Software Design
 - HMI Screen Conversions
 - New Panel Drawings
- Re-Engineering of Existing Machine Design to North American Standards
 - Safety Standards
 - Specification Compliance
 - UL, CSA

your intelligent solution

Hardware Design

- AutoCAD 2007 to present
- Designed to Specification for Compliance
- Electrical, Pneumatic, Hydraulic, Lube, Coolant Design
 - Complete Stocklist/BOM Generation
 - Heat Calculation/Air Conditioner Sizing
 - High & Low Voltage Systems
 - I/O Layouts
 - JIC, ANSI, or IEC Drawing Standards
 - Load & Phase
 - Panel/Backplate Layouts
 - PLC/CNC Architecture Hardware Layouts
 - Power Consumption/Transformer Sizing
 - Single Line to Complete Design Packages
 - UL 508 Compliance Review Services

Software Design

- HMI
 - Computer or Dedicated HMI
 - Designed to Reference
 - Diagnostics Level 1, 2, or 3
 - Level of Control through HMI
 - Touch Screen or Keypad
- Motion/CNC
 - Basic Parameters
 - Logic
 - Macros
 - PC Front End
- PLC
 - Designed to Detailed Sequence of Operations
 - Diagnostics
 - Ladder Logic/Sequential Function Chart/Flow Chart
 - Required Software Revision Level

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Stegner Controls. A proud member of the Morrell Group.

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Stegner Controls is a member of the Morrell Group, which also includes Morrell, WESS, and Morrell Defense.

The Morrell Group distributes world-leading components, integrating them on demand into highly engineered solutions – all backed by a legacy of family-based customer service for more than 50 years.

Locations Auburn Hills, MI Chicago, IL Evansville, IN Indianapolis, IN Fort Wayne, IN Grand Rapids, MI Saginaw, MI Toledo, OH Windsor, CA