

# VALUE ADDED SOLUTIONS

CUSTOM-DESIGNED SYSTEMS & SERVICES FOR EVERY APPLICATION



# SMART SOLUTIONS

## SYSTEMS & SERVICES

### VALUE ADDED SOLUTIONS

At Wilson, we don't just sell and ship products. We also offer a toolbox of value added services to help your business improve performance, increase profitability and ultimately do more of what you do best.

- Hydraulic Power Unit Fabrication
- 3D CAD Modeling
- HMI Touchscreen Integration
- Electrical Control Panels
- Hydrostatic Testing
- Hydraulic Hose Assembly
- Tube Bending and Fabrication
- System Evaluation and Design
- Automated Test Systems
- Classroom and Onsite Training
- Engineering Services
- Preventive Maintenance
- Repairs and Installations
- Laser Engraving
- Sub-Assembly Services
- Component and Hose Kitting
- Vendor Managed Inventory
- Instrument Calibration



### FEATURED CUSTOM SOLUTION

IntelliTest is an innovative hydrostatic pressure testing unit engineered by the team at Wilson. The operator selects a job from the HMI which interfaces serially via MODBUS TCP/IP and, during testing, pump ratios maximize test pressure resolution and accuracy. A processor corrects a proportional valve signal and keeps the output pressure within 0.15% of the target pressure. The unit monitors pump inlet pressure and warns for plugged inlet filters. Should the pressure fall below the target, the test is automatically terminated.



# RECENT PROJECTS

## CUSTOM DESIGNS

### OBJECTIVE: minimize noise to enable fracture detection

**AEROSPACE** This partner manufactures aircraft structural components and offers testing services for various aerospace OEMs. Since background noise complicates fracture detection, we partnered on this project to innovate a hydraulic power unit to help detect carbon fiber fractures. The noise limit requirement of less than 74 dBA was met and exceeded to less than 70 dBA. The unit received commands from 3 individual remote control stations, using MTS software control package for the test configuration. The stations communicate with the unit via MODBUS TCP/IP and via a web browser and internal web server in the HMI.



### OBJECTIVE: minimize friction in drill bit bearing jacket

**OIL & GAS** Wilson partnered with this global producer of oil and gas to design and manufacture five units capable of deployment on offshore drilling platforms. The units have 4 distinct purposes, are controlled from 3 positions and supply cooling, lubrication and bearing latch control for the drill bit bearing. Redundant forced air coolers removes heat from the bearing jacket with redundant coolant pumps. Lubrication fluid is maintained at a minimum temperature, delivered to the bearing at a constant pressure differential above wellbore pressure and replenished with an onboard transfer pump. The bearing latch is opened and closed with hydraulic fluid that is filtered, heated and directionally controlled. A fourth purpose controls air flow and pressure of the accessory devices. Functions are accessed by 3 control stations - one that is manually controlled at the control panel, a second through an automated control system and a third through a WIFI bridge that duplicates the touchscreen and communicates with a remote desktop.

Each unit weighs approximately 14,000 lbs. and is pull tested and certified for crane lift at a fully loaded weight. Wilson pursued and maintains ownership of ATEX, EX and NORSOK certifications for these units.



AEROSPACE



AUTOMOTIVE



CONSTRUCTION



FOOD & BEVERAGE



FORESTRY



MEDICAL



OIL & GAS



PLASTICS & RUBBER



PRIMARY METALS



VALVE AUTOMATION

# *Wilson has the products and services to solve all of your motion control challenges.*



## **MOTION CONTROL PRODUCTS**

For more than 55 years, Wilson has been a leading fluid power distributor. Parker Hannifin recognizes us as a Technology Center for both Hydraulics and Pneumatics, providing access to the largest selection of high-quality motion control products in the industry. We also represent Stauff, ASA, Enerpac, Linde, Versa Valves, Clippard, Thomas and Proportion Air.



## **FLUID CONNECTOR PRODUCTS**

Wilson is a Connector Technology Center for Parker Hannifin. We are the preferred fluid connector solution for partners that operate in the most demanding industries, such as chemical, food, pharmaceutical, primary metals, oilfield and construction. We also represent Colder Products, Dixon, Anchor Fluid Power, McDaniel Controls, Kuriyama, Noshok and Stauff.



## **VALUE ADDED SOLUTIONS**

At Wilson, we don't just sell and ship products - we deliver a toolbox of value added solutions to help your business improve performance, increase profitability and focus on what you do best. From advanced 3D modeling and fabrication to hose assembly and system testing, every service our team performs is conducted in an ISO 9001 certified facility.



## **MAINTENANCE, REPAIR AND INSTALLATION SERVICES**

Wilson provides on-site services including troubleshooting, equipment repair, maintenance planning and installation. Combined with an extensive in-house parts inventory, our services help you optimize processes and bring your equipment to life. We also provide hydraulic and pneumatic training in our classroom or at your facility.

At Wilson, we believe the right partner is as important as the right part.

Since 1965, we've combined motion control technologies of the highest quality and value with innovation to deliver solutions in motion. Our mission is to improve the lives of our associates, customers and community by committing to our company core values of Love, Serve, Care.



## **OUR LOCATIONS**

**AUSTIN** 8606 Wall St. Ste. 1700  
Austin, TX 78754 | (512) 836-6076

**DALLAS** 16301 Addison Rd.  
Addison, TX 75001 | (972) 931-8666

**Forth Worth** 6323 Airport Fwy, Suite A,  
Fort Worth, TX 76117 | (817) 595-2244

**HOUSTON** 7330 W. Sam Houston Pkwy. N  
Houston, TX 77040 | (832) 467-0001

**SAN ANTONIO** 6740 Guada Coma Dr.  
Schertz, TX 78154 | (210) 680-2496

**TEXARKANA** 3200 E. 19th St.  
Texarkana, AR 71854 | (870) 772-5693



(800) 580-1212 / [WILSON-COMPANY.COM](http://WILSON-COMPANY.COM)