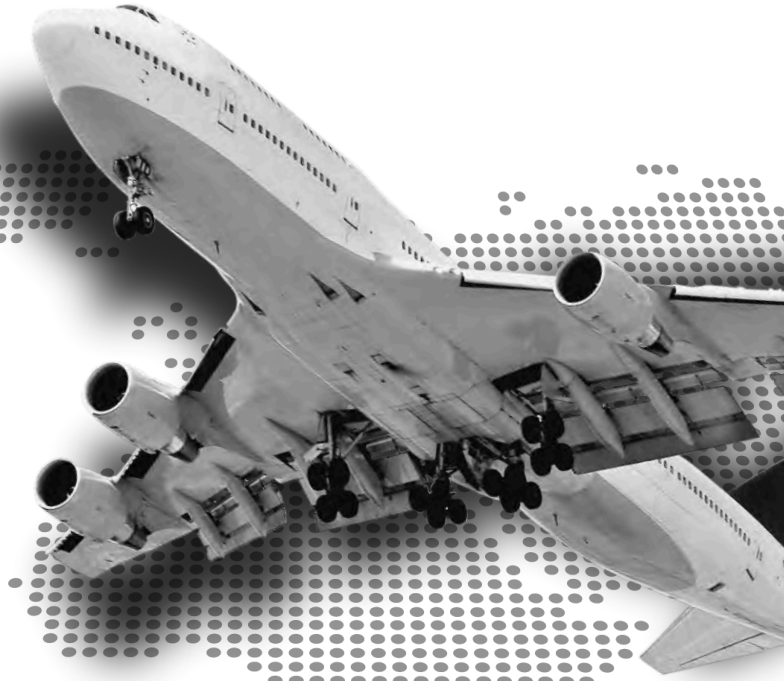




ORSCHN®



INSPIRING
SOLUTIONS

AEROSPACE & DEFENSE

PRODUCTS OVERVIEW



ORSCHNPRODUCTS.COM

OUR CORE VALUES

At Orscheln, our mission is simple: deliver high-quality, customized solutions that meet or exceed industry standards—never just commodities. Made in the USA, we focus on providing products that maximize value, performance, and reliability for every customer.

With over two decades of experience serving the aerospace and defense markets, Orscheln has built a strong reputation for engineering expertise, rigorous quality standards, and the ability to meet demanding specifications.

Our customer relationships are built on trust and mutual respect. We are committed to being a dependable partner—one that consistently delivers on promises and collaborates closely to meet evolving needs.

We don't just follow trends; we innovate with purpose. Through creativity and continuous improvement, Orscheln strives to solve real-world challenges and bring smarter, more efficient solutions to the market.

Welcome to a company that puts quality, partnership, and progress at the heart of everything we do.

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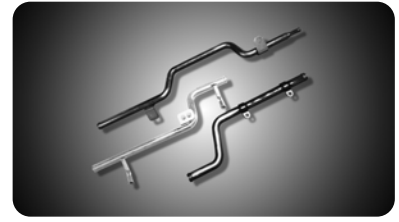
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APPLICATIONS

- Ag. Spray Controls
- Ballistic Shield Control
- Bleed Air/Vacuum
- Bomb Hoist
- Bonding Strap
- Canopy Release
- Cargo Door Struts
- Cargo Release
- Cowl Flap
- Cowl Strut
- Coolant Transfer Tubes
- Crew Module
- Door Controls
- Ejection Seat Arm Restraint
- Electronic Throttle Controls
- Electronic Shift Controls
- Emergency Landing Gear
- Engine Shutoff
- Environmental (HVAC)
- Fire Suppression
- Flight Surface Controls
- Fluid Level Indicators (FLI)
- Fluid Transfer Tubes
- Fuel Shutoff
- Gust Lock
- Inertia Reel Release



- JATO Bottle Release
- Junction Box
- Landing Gear
- Mechanical Shift Controls
- Mixture
- Oxygen Controls
- Parking Brake
- Pedal Location Lock Controls
- Power Feeder Cables
- Propeller/Pitch
- RAT Release
- Seat Adjustment
- Stow Lock Pins
- Tank Steering
- Throttle
- Tow Target Lines
- Trailing Wire Antenna
- Waste Drain
- Wheel Lock



TESTINGS

- Pressurization
- Humidity
- Sand & Dust
- Ultimate Load
- Thermal Shock
- Fluids Susceptibility
- Combined Environment
- Icing
- Cycle
- Temperature
- Vibration
- Water Ingress
- Corrosion
- Remote Witness

CERTIFICATIONS

- ISO 9001: 2015
- ISO 14001: 2015
- AS9100D
- FAA PMA
- 14 CFR 21.303



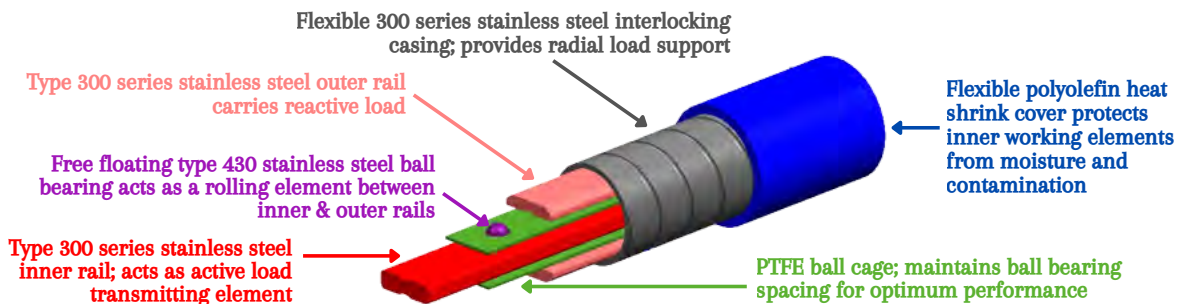
HOLD-OPEN RODS & STRUTS

Orscheln offers a reliable solution for securing engine nacelles and cargo doors in an open position. Our Hold-Open Rods are meticulously designed and rigorously tested to meet the specific requirements of each customer. With a flexible design, our product solution can be adjusted for fixed or telescoping operations, ensuring optimal functionality in different situations.



BALL-BEARING CABLES

Orscheln provides push-pull ball-bearing control cables. It is essentially a flexible linear ball bearing which transfers push-pull motion from one point to another. Its unique design allows for the transmission of movement with maximum efficiency and minimal lost motion.



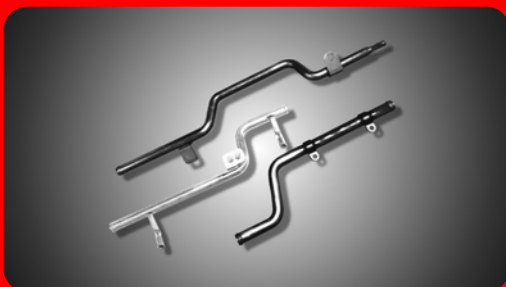


ELECTRONIC THROTTLE PEDALS

Orscheln ETC is designed for easy installment and ensures a hassle-free setup process. The flexible mounting & positioning options allow for seamless integration into various vehicle configurations. With the validation of over 10,000,000 full-stroke cycles, they're built to long withstand rigorous usage and harsh environments. Equipped with a long-lasting programmable Hall-Effect sensor, our ETC ensures consistent & precise throttle response over extended periods of use. Such versatility makes our product suitable for various vehicle types.

FLUID LEVEL INDICATORS

Our Twist2Lock™ sealing system eliminates oil leakage and offers repeatable accuracy. It can work with polymer or metal tube materials and has a maximum tube bending capability of 2 inches. Effectively operates in a temperature range of -40°F to +225°F (-40°C to +107°C).



FLUID TRANSFER TUBES

Our tubes offer durable and reliable solutions for coolant fluid transportation, addressing the needs of both ICE and Zero-Emission vehicles.

BONDING STRAPS

Orscheln bonding straps are engineered to dissipate static electricity between metallic aircraft components, protecting sensitive radio and navigation systems. They also play a key role in lightning strike protection by efficiently channeling current through the airframe, minimizing arcing and safeguarding critical electrical systems. All bonding straps can be customized to any length for your unique application, supporting your testing and qualification processes as part of the upper-level aircraft system.



POWER FEEDER CABLES

Orscheln power feeder cables are built to transmit electrical current from power generation equipment—such as Ram Air Turbines and auxiliary power units—to the aircraft's electrical bus. Each cable is custom designed to your specific application and integrates seamlessly into your upper-level systems. Our solutions are typically tested and qualified by the customer as part of the complete system, ensuring reliable performance in every flight.



STOW LOCK PINS

Orscheln stow lock pins are fully customized ground-support tools engineered to secure aircraft systems during maintenance—preventing unintended Ram Air Turbine deployment or landing-gear retraction. While classified as non-flight hardware, we can design, test, and certify to rigorous aerospace standards—including MIL-STD-810 and RTCA DO-160—via our in-house lab and accredited partners. Functional checks are standard, with optional proof-load and durability testing per specification. We offer extensive customization in size, materials, locking mechanisms, interfaces, and finishes, along with corrosion-resistant construction, clear markings, and color coding to enhance usability. From concept to production, our team tailors each pin to your requirements to deliver exceptional durability, reliability, and operational efficiency.



SHIFT CONTROLS



PBSS (Push Button Shift Selectors)

Part of the *Shift-X-Wire* system offers efficient and precise control for different transmissions. It is compatible with Allison Transmission models 1k, 2k, 3k, and 4k, ensuring seamless integration and functionality. The PBSS also includes a display that allows users to access Transmission DTC codes, providing valuable diagnostic information. Additionally, our PBSS supports custom DTC code text, enabling personalized troubleshooting. With its IP67 rating, the system is designed to withstand challenging environmental conditions, ensuring durability and reliability in a wide range of applications.



Hand-Lever Shifters

Orscheln offers different handle styles, providing ergonomic and comfortable shifting options. Additionally, it supports auxiliary transmission shifting, allowing for enhanced control and versatility. Our shifter incorporates a CAN programmable sensor, enabling customization and integration with the vehicle's control systems. It also features a Hall Effect Sensor, ensuring accurate and reliable detection of lever position for precise shifting.



PARK BRAKE SYSTEM

Park Brake Levers

Orscheln has been setting the industry standard for over 75 years with our exceptional *over-center-style Park Brake Levers* and *Foot Pedal Levers*. With a wide range of mounting configurations, handle lengths, locking mechanisms, and light switch options, we offer unparalleled versatility. Our standard durable levers provide the ideal solution for various applications, and these reliable levers ensure secure and efficient operation. In situations that call for specific mounting or customized features, we possess the expertise and capability to design levers tailored to meet your unique requirements.



Park Brake Cables

Orscheln park brake cables are a premium design. Our fully jacketed conduit and plastic-coated strand provide corrosion and abrasion protection while improving cable efficiency. Brake Cables are sealed to keep lubricant in and dirt and water out. We also offer cable hardware to connect your cable to any common parking brake systems, including equalizers for 2 brake systems.





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