

OTTO's Value Added Program: Innovative Solutions Designed Specifically for You

OTTO's value added program leverages our full suite of expertise to design, manufacture and fully certify solutions that address your unique applications and resolve your specific challenges.

OTTO is a fully-integrated manufacturing facility, utilizing;

- Design and engineering expertise
- Rapid prototyping
- Machining and product manufacturing
- Test lab certification

This program reduces your supplier base, minimizes your time to market and provides measurable cost benefits by leveraging one consistent group of professionals from concept to completion.

Minimize Supplier Base –

Utilize one team of dedicated experts to design, manufacture and test custom solutions who will follow your project through the complete development cycle.

Save Time –

OTTO's vertically integrated manufacturing capabilities allow us to fabricate parts as needed for custom requirements.

From custom controls, grips and joysticks to creating full panels, OTTO can develop a design and deliver prototypes quickly through the use of its CNC machining and state of the art 3D production technologies.

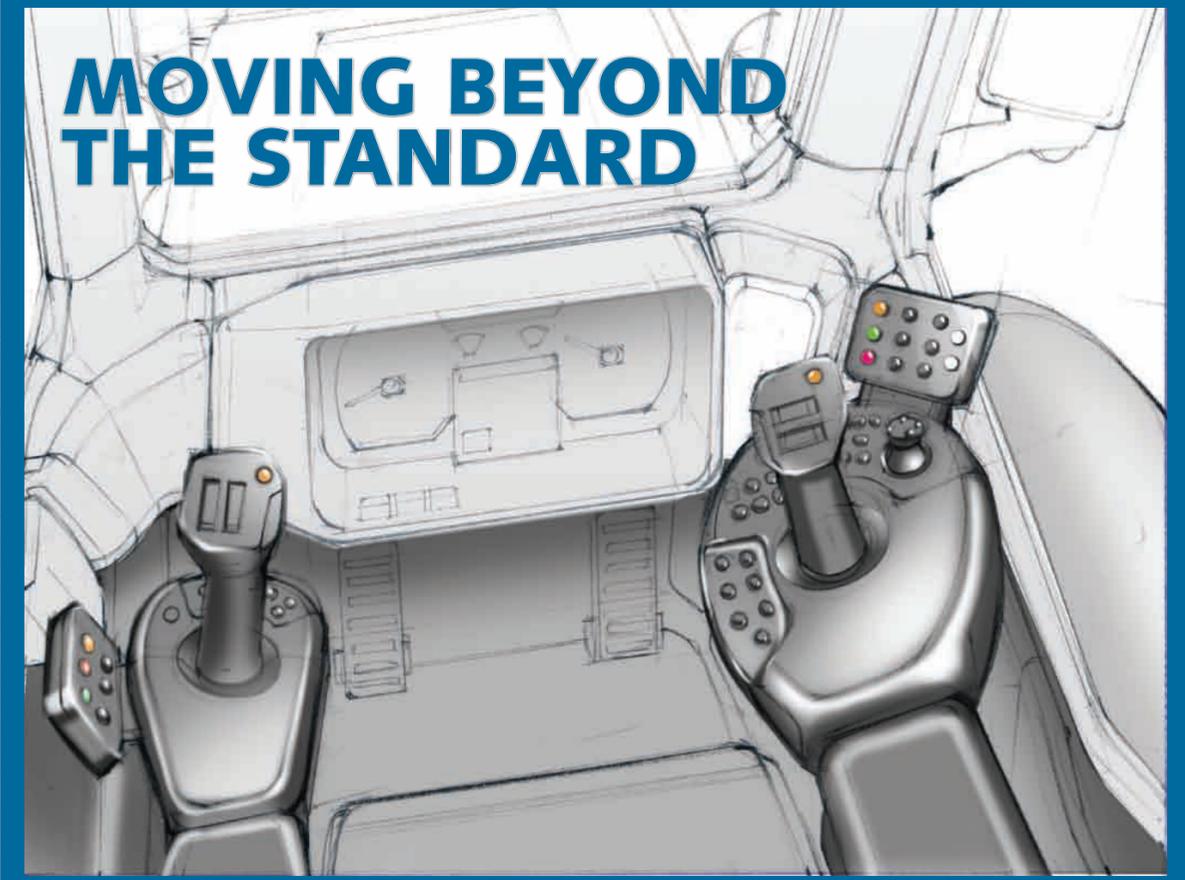
Greater scheduling efficiency is achieved through work cells that coordinate projects between departments.

Reduce Cost –

Realize savings by reducing the supplier base, minimizing the project cycle time and leveraging strong relationships with a dedicated team who cares about your success.

Designed, manufactured and precision tested,
right here in the USA.

www.ottoexcellence.com



VALUE ADDED PRODUCTS AND SERVICES

OTTO[®]
Expect Excellence.

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OTTO

Vertically Integrated Manufacturing

For over half a century, OTTO has been designing and manufacturing precision switches and operator controls for the most demanding applications including a broad range of standard and unique products from traditional snap action switches to Hall effect technology, USB, PWM, CANopen® and J1939 communication protocols.

OTTO excels in providing all levels of value added services to meet your needs by managing every phase of your project from conceptual design to finished product. Capabilities include product engineering, rapid prototyping, injection molding, stamping, milling, machining, and full quality testing, all performed at the OTTO campus.

Conceptual Quotations –

OTTO can provide pricing on various custom products - whether it's a custom switch, a complete grip with cable assembly, or a full control panel.

Collaborative Design & Product Engineering –

- In house mechanical, electrical and RF design engineering expertise
- Custom design using Pro/ENGINEER, Cosmos and Autodesk® Moldflow® software

Rapid Prototyping –

- Fortus 400mc provides the latest 3D production systems technology
- Transform CAD drawings into durable high-quality thermoplastic parts in 3D
- Physical modeling ensures the product design meets your expectations
- A working prototype is in your hands within days instead of waiting months for tooling
- Available in your choice of three different plastic materials and a variety of colors

Capabilities –

- 17 production turning centers
- Extensive tool room capabilities for custom dies and molds
- In house injection molding, from 25 ton hydraulic up to 110 ton electric
- On site high production stamping, up to 65 tons
- True 5-axis CNC machining – great for complex multi sided parts
- From 1/4" up to 2" diameter machining capabilities
- Over 250,000 square feet of manufacturing space

Testing –

- Electrical and mechanical endurance cycling
- Moisture, humidity, sand, dust, vibration and shock test equipment
- ISO 9001, ISO 14001 and AS9100 registered
- TL 9000, TS 16949 and QS 9000 compliant
- A2LA Accredited to ISO/IEC 17025
- Approved by DSCC to test to various MIL STD's
- Certified by Underwriters Laboratories (UL) to test electrical product under the UL Component Recognition Program
- Certified by the Canadian Standards Association (CSA) for electrical product testing
- Certified Federal Aviation Administration (FAA) Part 145 repair station

Product Overview – Standard and customized toggle, pushbutton, rocker, slide and rotary switches are used in applications ranging from vending machines to industrial, medical, off highway, military and aerospace equipment. Our expertise allows us to offer complete custom interfaces incorporating LED indicators, marking, cable assemblies and additional electronic interfaces. From a simple basic switch to a sophisticated panel assembly integrating many components, the array of possibilities are endless.



Pro/ENGINEER and Moldflow Software



Rapid Prototypes



5-Axis CNC



Assembly



Focused-beam Safe X-Ray



 <p>OTTO moves to a new facility in Morton Grove.</p> <p>1962</p>	 <p>OTTO moves to a larger facility at 36 E. Main Street in Carpentersville, IL.</p> <p>1968</p>	 <p>P6 pushbutton is used in military and commercial aircraft.</p> <p>1973</p>	 <p>OTTO mini trim switch is used in the space shuttle.</p> <p>1980</p>	 <p>OTTO Communications division is established from a single product prototype and OTTO produces its first audio accessory, the V1 surveillance kit.</p> <p>1990</p>	 <p>Hall effect technology is designed into new products.</p> <p>1996</p>	 <p>OTTO expands from switches into joystick design and manufacturing.</p> <p>2004</p>	 <p>Value added offerings expand to include rapid prototyping.</p> <p>2011</p>	 <p>OTTO Expect Excellence.</p>	
<p>1961</p> <p>OTTO is founded by Jack Roeser in the basement of his Park Ridge, IL home. Key products are the P1 and rotary switches.</p> 	<p>1963</p> <p>A5 Epoxy Applicator machine is sold. The OTTO Equipment Division is formed.</p> 	<p>1971</p> <p>B3 basic switch is developed.</p> 	<p>1972</p> <p>T4 trim switch is developed for the F-15 fighter jet.</p> 	<p>1979</p> <p>OTTO moves next door to 2 E. Main Street.</p> 	<p>1987</p> <p>Tom Roeser joins OTTO as General Manager.</p> 	<p>1994</p> <p>OTTO's first speaker microphone is designed and manufactured.</p> 	<p>2000</p> <p>The Communications division grows to become 46% of OTTO sales.</p> 	<p>2006</p> <p>OTTO Communications division moves into its own facility at 10 W. Main Street.</p> 	<p>Today</p> <p>Focused on the future!</p>