

# OTTO<sup>®</sup>

## PRODUCT SUMMARY

**MPLUS**  
TECHNOLOGIES



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Dust, wind, water, sand, shock and vibration are no match for OTTO's line of switches, grips and joysticks made for demanding construction, agriculture and other Off-Road applications. OTTO controls are used all over the world in off-road vehicles and machinery such as trenchers, drillers, bulldozers, excavators, sprayers, tractors, harvesters, tillers and mowers.

## ELECTROMECHANICAL SWITCHES



K1S: Sealed ON-ON Triple Throw Rocker



P6-4: Sealed Commercial Grade Limit Switch



K5: Sealed Illuminated Rocker



T7: Lower Cost Sealed Toggle



P3: Sealed Momentary Action Pushbutton



LP30M: Large Sealed Illuminated Pushbutton



P7-D / P9: Sealed Momentary Action Pushbutton



LP3V: Ring Lit Vandal Resistant Pushbutton

## HALL EFFECT CONTROLS



HTWS: Thumb Paddle Wheel with Seal Boot



HPL: Hall Effect Linear Output Pushbutton Switch



HTL2 / HTL4: 2-Way and 4-Way Single Axis Linear Finger Joysticks



HPW: Hall Effect Single Axis Paddle

## HALL EFFECT JOYSTICKS & GRIPS



HJLG3-C/ HJLG3-M: JHL Joysticks with G3-C / G3-M Grips



HJLG3-D: JHL Joystick with G3-D Grip



JHT Z-Axis: Miniature Z-Axis Joystick



G3: Contour Grip



FAR PART 145 Repair Station



EASA Part 145



ISO 9001:2015



ISO 14001:2015



AS9100:2016



A2LA: ISO/IEC 17025

OTTO specializes in precision controls for the most demanding military and aerospace applications, offering a wide variety of product offerings and configurations, such as actuator styles, circuitry configurations, electrical ratings, terminations, button styles, and standard grip shapes. Our controls feature high cycle life, extreme temperature ratings, fully sealed, and resistance to potentially harmful environmental elements.

## ELECTROMECHANICAL SWITCHES



B2-5: Single Break Subminiature Basic Switch with Levers



P7: Subminiature MIL-PRF-8805/110 Pushbutton



T4-T: Tactile 4-Way Mini Trim



T9: Commercial and Military Toggle

## HALL EFFECT CONTROLS



HTL2: 2-Way Single Axis Linear Finger Joystick



HTL4: 4-Way Single Axis Linear Finger Joystick



HTLT4: 4-Way Finger Joystick with Pushbutton Option



HTLT2: 2-Way Finger Joystick with Pushbutton Option

## TRANSDUCERS



J2-S1: Strain Gauge Transducer



J2-S2: Strain Gauge Transducer



J2-S3: Full Bridge Transducer



J4: Hall Effect Transducer

## GRIPS



G2: Commander Grip



G2: Flight Control Grips



G2: Helicopter Cyclic and Collective Grip Universal Grip



G2: Military Flight Control Grip



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Use OTTO's switches, grips and joysticks to control the movement, storage and protection of your material goods in machines like side loaders, forklifts, automated guided vehicles (AGV), container handlers, winches and cranes.

## ELECTROMECHANICAL SWITCHES



**K5:** Sealed Illuminated Rocker with Legends



**FNR:** Rocker



**CS:** Capacitive Touch Switch



**T3:** Commercial and Military Miniature Toggle



**LP5:** Illuminated Alternate Action Pushbutton



**P8:** Momentary Sealed Subminiature Pushbutton



**P7-D / P9:** Sealed Momentary Action Pushbutton



**P3-D:** Sealed Momentary Action Pushbutton

## HALL EFFECT CONTROLS



**HTWE:** Hall Effect Friction Actuation Thumbwheel



**HP7C:** Lower Cost Momentary Action Pushbutton Switch



**HTWS:** Thumb Paddle Wheel with Seal Boot



**WP:** Operator Control Module

## HALL EFFECT JOYSTICKS



**JHM:** Medium Industrial Joystick



**JHL:** Cost Effective Sealed Joystick



**HTL4:** 4-Way Single Axis Linear Finger Joystick



**JHT:** Miniature Joystick



AS9100:2016



ISO 9001:2015



ISO 14001:2015



A2LA: ISO/IEC 17025

Controls are the backbone of an industrial equipment environment, regulating how devices and systems operate in real time, both manually and automated. OTTO controls are used all over the world in industrial equipment applications like manufacturing, food processing, water treatment, communications, warehousing, electric transmission and power plants.

## ELECTROMECHANICAL SWITCHES



K1: Sealed Rocker



B3S-5: Sealed Subminiature Basic Switch with Levers



P7-D / P9: Sealed Momentary Action Pushbutton



K4: Sealed Snap-In Rocker



LP3: Illuminated Sealed Momentary Action Pushbutton



LP5-V: Vandal Resistant Alternate Action Pushbutton



LPL: Indicator Light



T71: Narrow Single Pole Toggle

## HALL EFFECT CONTROLS



HP7: Hall Effect Momentary Pushbutton



HPW: Single Axis Paddle



HTWS: Smaller Proportional Output Thumbwheel



HTWE: Hall Effect Friction Actuation Thumbwheel

## HALL EFFECT JOYSTICKS & GRIPS



JHS-F: Friction Hold Single Axis Joystick



JHT Z-Axis: Miniature Z-Axis Joystick



G3-C: Universal Grip



G3-E: Control Grip



FAA Part 145 Repair Station



ISO 9001:2015



ISO 14001:2015



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Our control solutions meet the stringent demands of medical-related equipment, providing superior performance and high cycle life – up to 10 million cycles. Precision testing ensures that our glove-friendly controls are rated up to IP69K and can handle demanding applications. Quality adheres to ISO 9000 standards and our products are designed to be easy-to-clean, disinfected and are highly customizable.

OTTO has been a responsive partner in the fight against the Covid-19 pandemic, creating products for critical medical applications such as ventilators, laboratory test equipment, mobility equipment, remote surgical equipment, and disinfecting devices.

## ELECTROMECHANICAL SWITCHES



**B3S-5:** Sealed Subminiature Basic Switch with Levers



**P6-3:** Subminiature Sealed Single Pole Limit Switch



**K1:** Sealed Rocker



**T8:** 8-Way Mini Trim



**P7:** Subminiature Sealed Pushbutton



**P5-V:** Vandal Resistant Sealed Alternate Action



**LP5-V:** Illuminated Vandal Resistant Alternate Action



**P3:** Sealed Momentary Action or Push-Pull Button

## HALL EFFECT CONTROLS



**HPL:** Linear Output Pushbutton



**HTL4:** 4-Way Single Axis Linear Finger Joystick



**HTLT4:** 4-Way Finger Joystick with Pushbutton Option



**J4:** Hall Effect Transducer

## HALL EFFECT JOYSTICKS



**JHT:** Miniature Joystick



**JHT Z-Axis:** Miniature Z-Axis Joystick



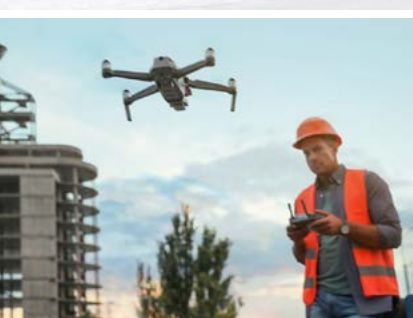
AS9100:2016



EASA Part 145



Far Part 145 Repair Station



Dust, wind, water, sand, shock and vibration are no match for OTTO's line of switches, grips and joysticks made for demanding applications. OTTO serves numerous specialty markets with standard, yet highly-customizable solutions for industries such as marine, communications, security, sporting and recreation.

## ELECTROMECHANICAL SWITCHES



R2: Sealed Rotary Switch with Illumination Options



B5-7: Double Break Miniature Basic Switches



CS: Capacitive Touch Switch



FG: Flip Guards



LP3S: Shorter Behind Panel Pushbutton



LP3-V: Fully Illuminated Vandal Resistant Pushbutton



LP9: Illuminated Sealed Momentary Action Pushbutton



P3-D: Sealed Momentary Action Pushbutton

## HALL EFFECT CONTROLS



HTWS: Thumb Paddle Wheel with Seal Boot



HP7C: Lower Cost Momentary Action Pushbutton Switch



HPL: Hall Effect Linear Output Pushbutton



HPW: Hall Effect Single Axis Paddle

## HALL EFFECT JOYSTICKS & GRIPS



JHT: Miniature Joystick



JHT Z-Axis: Miniature Z-Axis Joystick



G3-CK: Universal Grip



G3-B: Universal Grip



Far Part 145 Repair Station



EASA Part 145



ISO 9001:2015



ISO 14001:2015



AS9100:2016



A2LA: ISO/IEC 17025



# OTTO®

OTTO designs and manufactures precision switches, grips, joysticks, operator control modules transducers and custom solutions for the most demanding applications, including a broad range of standard and unique offerings from snap action switches to Hall effect technology to capacitive sensing, incorporating USB, PWM, CANopen® and J1939 communication protocols.

In business for over 60 years, OTTO's products perform in some of the toughest industries including off-road, military, aerospace, material handling, industrial, medical, consumer and marine. We are ISO 9001, ISO 14001 and AS9100 registered, A2LA accredited to ISO/IEC 17025, TS 16949 and QS 9000 compliant, Far Part 145 Repair Station & EASA Part 145 certified and ITAR registered—maintaining the highest quality standards.



Far Part 145  
Repair Station



EASA Part 145



ISO 14001:2015  
ISO 9001:2015



AS9100:2016



A2LA  
ISO/IEC 17025

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