



KONGSBERG
AUTOMOTIVE

Hands-On Control

Mechanical and Electronic Hand Controls



Hand Control Product Range:

- Single Axis hand controls translating linear and rotary motion for:
 - hand throttles
 - remote valve actuation
 - vernier control
- Dual Axis hand controls
 - remote valve control with single lever to control auxiliary equipment (e.g., front loaders)
 - can be configured to include electronic push buttons in control handle
- Electronic hand controls translating rotary motion into electronic signals using Kongsberg Automotive vSense™ technology

EXPERIENCE AND EXPERTISE

Industrial vehicle operators need to control a wide variety of functions precisely and comfortably. Since its inception, Kongsberg Automotive has produced hand controls which complement its cable control technology and meet the stringent demands of industrial vehicle operators.

The manufacturers of industrial vehicles depend upon the extensive range of Kongsberg Automotive hand controls to enhance the performance of their equipment. Kongsberg Automotive can offer simple light duty cable controls or sophisticated state-of-the-art electronic controls configured to interface with the vehicle electronic control protocols.

The global scope of Kongsberg Automotive ensures that a standardized product range is universally available. These products can be continuously developed and upgraded to match the evolution of the vehicle.



KONGSBERG AUTOMOTIVE CONTROLS

B10 Hand Controls

This deceptively simple hand control is an industry standard product and has been continuously refined and developed since its introduction by Kongsberg Automotive over 20 years ago. Typically this product is used where hand lever movement is translated to remote actuation by Kongsberg Automotive cable. Applications range from hand throttles to the complex demands of vehicles with twin control lever steering.

Remote Valve Control

Kongsberg Automotive Remote Valve Controls are designed to provide remote control of high pressure hydraulic valves, such as directional control spool valves. The valves and controls can be positioned for convenient installation and operation, eliminating the challenges of hydraulic lines.

Vernier Control

The Kongsberg Automotive Vernier Control delivers more precise mechanical control of engine RPM than other micro/macro adjusters. The newest Kongsberg Automotive design offers a larger grip for easier feel and two internal ball-bearings for smoother adjustment.





Dual Axis Control

A dual axis control lever or joystick is used when single handed control of the complex ancillary functions of an industrial vehicle is required. Kongsberg Automotive is the market leader in the supply of dual axis controllers to complement its cable product range. A typical application may be the raising, lowering and bucket control of a front loader accessory using the single lever to control remote hydraulic valves while steering with the other hand.

MH-2000

This multi-turn hand throttle control is the technically enhanced next generation control intended for use with electronic engines as a remote, hand operated control for engine RPM.

Designed for ease of installation and flexibility for ergonomic positioning and mounting per a customer's specifications, this product is adaptable for a wide range of electronic throttle applications requiring a robust, durable design, with finite adjustment capabilities. Vehicle applications include buses, fire trucks, generator sets, trucks, agricultural tractors, and construction equipment, as well as many other applications.

SERVICE AND COMMITMENT

Kongsberg Automotive has been designing and developing control systems for over 60 years, combining the expertise and skills developed with the MorseControls and Capro brands.

This diverse range of products and capabilities allows our designers worldwide access to a unique toolbox of components to configure a tailor made control solution quickly and cost-effectively.



Features:

- Designed for optimum ergonomic use, minimizing operator fatigue
- Kongsberg Automotive uniquely offers both mechanical and electrical controls, allowing vehicle manufacturers a single partner for all their technology requirements
- As a pioneer in cable control, Kongsberg Automotive has a wide, diverse, and continuously improving range of control products.
- Innovative designs allow for ease of installation regardless of application or configuration
- Fully sealed and resistant to environmental and chemical intrusion in the harshest environments
- Industry leading cycle life



KONGSBERG AUTOMOTIVE

Kongsberg Automotive is a global provider of engineering, design, and manufacturing for seat comfort, driver and motion control systems, fluid assemblies, and industrial driver interface products. We are focused on automotive, commercial vehicle and industrial markets. Headquartered in Kongsberg, Norway, Kongsberg Automotive has nearly 50 facilities in 19 countries. With revenues of MEUR 623 (2009) and about 9,000 employees, Kongsberg Automotive provides system solutions to vehicle makers around the world.



DRIVELINE

Our vision is to be our customers' preferred choice for driver controls in the global light vehicle automotive market. A Tier 1 global supplier of custom-engineered cable controls and complete shift systems, we are world leaders in both control cables and shifter systems for our customers around the world. Our global resources ensure timely innovative product development and high quality manufacturing.



INTERIOR

Kongsberg Automotive is a global leader in the design, development and manufacture of mechanical and electromechanical light-duty motion comfort and seat comfort systems to Tier 1 and Tier 2 customers. Our product portfolio includes seat adjusters, seat recline, side bolsters and lumbar support (pneumatic/mechanical), cables, seat heating, ventilation and massage systems, arm rest and head restraints, as well as other interior actuation systems.



POWER PRODUCTS

Kongsberg Automotive Power Products is a global leader in the design, manufacture and supply of vehicle control systems, providing quality engineered pedal and steering systems, electronic displays, cable and hand controls that set the standard for the world's foremost manufacturers of commercial, industrial, agricultural and construction vehicles. We offer a product range that is unmatched in the market.



ACTUATION & CHASSIS

A global developer and manufacturer of operator control systems for industrial vehicle markets, Kongsberg Automotive offers a robust product portfolio with products that range from traditional mechanical linkages to servo-assisted hydraulic systems and manual and electronic cable shift systems. These modular systems enhance flexibility and ensure cost-effective adaptation to customers' needs.

FLUID TRANSFER

Kongsberg Automotive fluid handling systems serve a wide range of fluid assembly customers in the light duty, industrial and commercial vehicle markets. Products include pipe/hose assemblies for turbo chargers, brake and fuel systems, and air system couplings.



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