



## JOYSTICK ASSEMBLIES

*Simple Solutions.  
Seamless Integration.*



## YOUR TRUSTED RESOURCE

GS Global Resources is trusted by OEMs who demand a competitive advantage for every solution. From system and component design to production and market support, we help OEMs interpret, adapt, and adopt technology. Solving OEM challenges at the intersection of fluid power and electronic control, our customers profit from our continuous technology and innovation transfer.

## PERFORMANCE

Access to the foremost machine performance resource trusted by OEMs ensuring a competitive advantage from every solution.

## PROFITABILITY

Continuous technology and innovation transfer through a single point of accountability provides OEMs unmatched value.

## PRAGMATIC

Problem solvers, renowned by our customers, we relentlessly pursue and develop fresh ideas to benefit OEMs.

## TALENT

Rare technical talent, scalability, and flexibility, coupled with incomparable ability to understand and overcome OEM challenges.

## CONFIDENCE

Support to help OEMs best integrate and utilize technology from system and component design to production and market support.

## VALUE

A rare combination of speed to market, improved safety, higher productivity, greater predictability and unbeatable efficiency.

## COMMITMENT

A comprehensive resource where the complex simplifies. Where peace of mind and mutual respect grow relationships. Where competitive advantage and machine performance improve—every time.





# PRECISELY PROGRAMMED FOR YOUR MACHINE

As the primary human machine interface for your machine, joystick assemblies are a key factor in operator efficiency, productivity, & overall experience. And the engineering team at GS Global Resources have extensive experience in CAN programming to integrate a custom joystick with your control system. Joystick programming provides precise machine movement using function ramping, pulse width modulation and feedback. Utilizing our 3D design tools and rapid prototyping capabilities, we can figure a combination of bases, handles, and controls to suit your application.

## INDUSTRY LEADING CONTROL INNOVATIONS INCLUDING:

### MEMBRANE SWITCHES

- Indicate Machine Function Status in Real Time
- Higher Density of Button to Action Ratio
- Available in Multicolor



### THUMPER CAPABILITIES

- Tactile Feedback for Immediate Operator Awareness
- Alerts Without Visible Distractions
- Available for Hydraulic or Electric Options



### HYDRAULIC & ELECTRIC CONNECTION

- Proven Hydraulic Base Joystick Controls with Advanced Tactile Feedback & Integrated Electric Functions.



# EVERY DETAIL COUNTS

## HANDLES

- Multifunction Hand Grips
- Momentary Button Action
- Ergonomic Design
- Safety Locks and Features



## BASES

- J1939, CAN Open
- Hall Effect - Dual Redundant
- Single, Dual, & Triple Axis
- Potentiometric
- Pulse Width Moderation
- Tactile Feedback (Thumper Function)
- Directional Switches



## FINGERTIP CONTROLS

- Proportional Rockers
- Dual Axis Thumbsticks
- Proportional Sliders
- Push Buttons
- Toggles
- Indicators
- Triggers





# TAILOR-MADE FOR YOUR APPLICATION

Serving countless industries, our diverse team of engineers keeps application and environmental factors top of mind when designing your custom joystick assembly. Whether optimal ergo-nomics requires a specific handle angle, or your operator needs efficient, constant access to many different functions. We've pretty much seen it all and wil make a joystick that supports your operators in their unique situation.

**Forestry**



**Utility**



**Mining**



**Cranes**



**Material Handling**



**Construction**





# WE SEE THE BIG PICTURE

## ERGONOMIC ARMREST & SEAT ASSEMBLIES

A custom joystick is just one small, albeit important, detail in an operator's overall experience. We know that an efficient joystick is only as good as the ergonomic armrest assembly it's built into. Working with a partner who not only sees how every component fits into your overall machine or operator control system, but has the capabilities and the experience to develop a full solution for you is essential to achieving total machine optimization.





# TAKE CONTROL WITH YOU

## ADVANCED BASKET CONTROLS WITH GS GLOBAL RESOURCES



- On-screen safe zone control to keep detailed operating status at a glance
- Troubleshooting diagnostics during machine application
- Ability to adjust functional capabilities
- Built to withstand external and environmental forces, including water for fire trucks
- Designed for optimal ergonomics, both in terms of operator position and application view



## ABOUT GS GLOBAL RESOURCES

GS Global Resources is the foremost machine performance resource. We are trusted by the world's most recognizable OEMs who demand a competitive advantage from every solution. Our integrated application solutions perform for the life of the machine, and for the lives of the people who touch it.

From system and component design to production and market support, GS Global Resources helps OEMs interpret, adapt, and adopt technology.

Our leading engineering minds in hydraulic, electronic, mechanical and software applications simplify the complex. We use innovative & reliable technologies to speed solutions to market. Whether reacting to market forces or changing markets altogether, GS Global Resources is essential to achieving total machine performance.



## CONTACT

Please visit [GSGlobalResources.com](http://GSGlobalResources.com) or contact us directly for more information. Our dedicated team of long-term, invested employees look forward to working with you.

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