Integrated Control System for Construction Machinery Cabs

Integrated Cad Control System for Construction Machinery

Seat • Armrest Console • Electronic Joystick • Steering Column • Throttle • Control Box • Shifter Assembly





Supplied as a Set • Retrofit Ready • Customizable

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01 / Company Profile

Focused on R&D and Manufacturing of Construction Machinery Control Components

Luoyang Guanjie Electric Control has long focused on the R&D and manufacturing of electronic control components for construction machinery, holding 100+ independent patents. We provide one-stop cab electro-hydraulic control packages for OEMs, retrofit workshops and overseas buyers; products fit loaders, skid steers, mini excavators, road rollers and mining vehicles.

In-house R&D

Self-developed core control components, backed by independent patents

Application Fit

Fits loaders, skid steers, mini excavators, rollers and more

Customizable

Buttons, wiring harness, connectors and mounting dimensions customizable

Durable & Reliable

Vibration, dust and oil resistant for harsh jobsite conditions

Integrated Cab Control Assembly · Complete Package

A one-stop integrated package covering all cab control components, cutting multi-supplier procurement and coordination costs.



- Seat + GJ212 Armrest Console
- GJ029 Electronic Joystick
- GJ115 Shifter Assembly
- GJ142 Electronic Foot Throttle
- Steering Column Assembly
- Available separately or as a complete package

03 / Core Product

GJ212 Modular Electronic Control Armrest Console Assembly



- Hall non-contact sensor: long service life, stable signal
- Integrated multi-function buttons with high expandability
- Ergonomic floating armrest reduces fatigue during long shifts
- Vibration, dust and oil resistant for harsh jobsite conditions
- Retrofit-ready: replaces traditional cables and flexible shafts on older machines

GJ212 integrated electronic control armrest box, Hall non-contact sensor, suitable for loader, excavator, skid steer, easy refit for old machines.

GJ029 Electronic Control Joystick



- Ergonomic grip for smooth, agile operation
- Customizable button layout for different hydraulic functions
- High protection rating, vibration-resistant and durable
- Signal-matched to proportional valves for smooth, controlled movement



- Die-cast aluminum housing, shock and bump resistant
- Supports Hall-effect joysticks and various sensors
- Waterproof and dustproof for dusty, damp working environments
- Programmable and customizable

Spring Suspension Construction Seat



- Spring suspension cushions jobsite bumps
- Multi-direction adjustment for drivers of different heights
- Wear-resistant leather upholstery, comfortable and durable
- Mounts directly with the armrest console assembly

Shifter Assembly & Electronic Foot Throttle



GJ115 Shifter Assembly

Smooth shifting, precise control, robust build, long service life



GJ142 Electronic Foot Throttle

Fast response, precise control, compact size; fits 12/24V construction vehicles

Construction Machinery Steering Column Assembly



- Light, agile steering feel
- Stable structure, reliable over long working hours
- Strong installation compatibility across multiple models
- Comfortable control that reduces driver steering effort

05 / Comparison

Mechanical Cable vs Electronic Control

Traditional Mechanical Cable	Guanjie Electronic Control Package
Cables stretch, jam or fray; frequent maintenance	Hall electronic control: low failure rate, stable signal
Heavy, stiff operation	Electronic stepless speed control; smooth movement protecting the hydraulic system
Hard to expand functions or add new buttons	Buttons and joystick functions customized and expanded on demand
Messy cab wiring	Integrated package with clean, tidy wiring

06 / Customization & Business

Customization, Sample Support & Business Cooperation

Customization

Button layout, harness length, connectors, mounting dimensions, signal protocol

Sample Support

Samples for testing and condition matching; mass supply after fit confirmation

MOQ

Low MOQ for standard models; custom MOQ negotiated separately

Lead Time

Standard stock: 3–5 days; custom samples: about 7 days

For: OEMs • Equipment Retrofit Workshops • Export Buyers

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