



# CONNECTIVITY & DIAGNOSTICS

*Simplify the Complex*

## 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

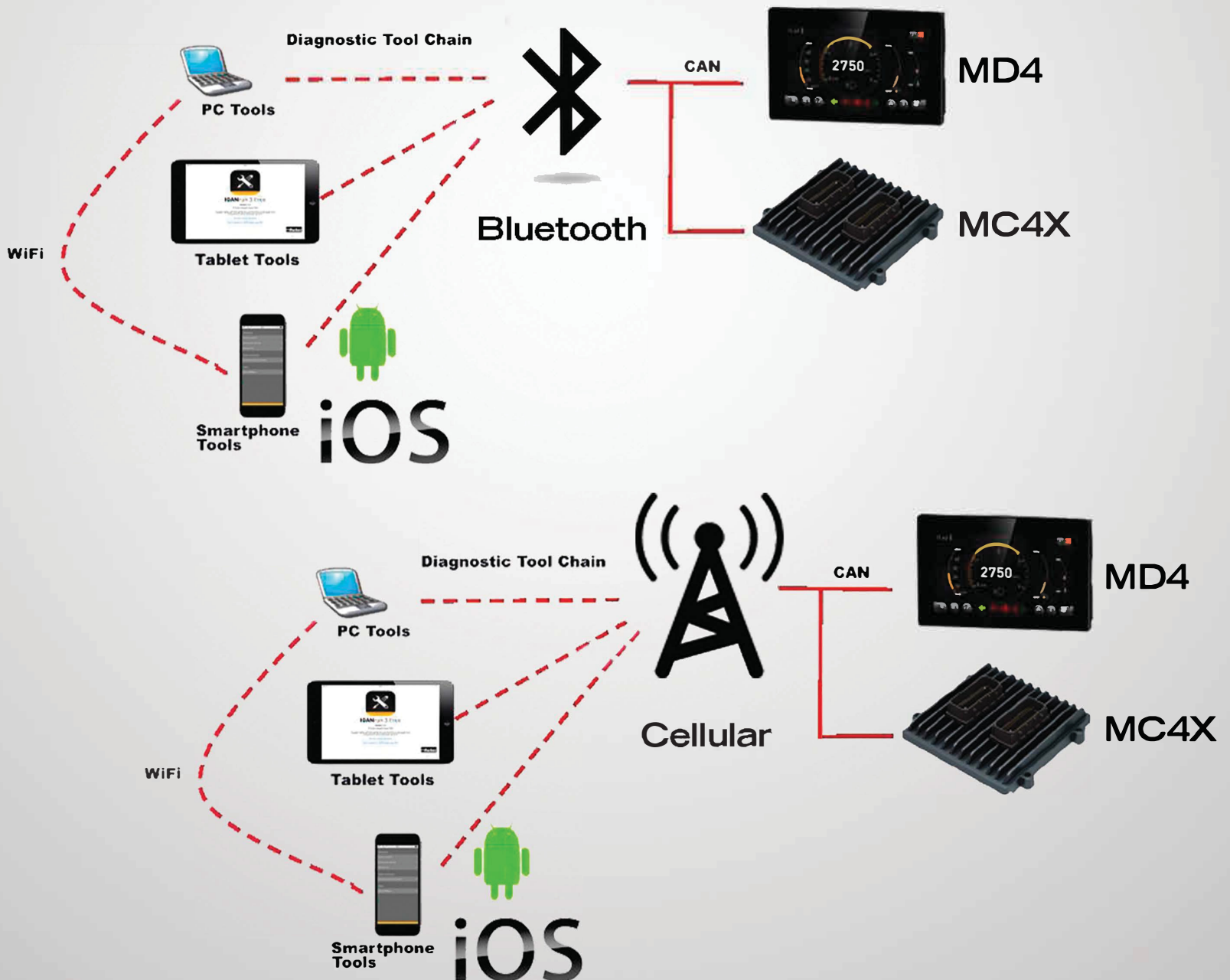
A comprehensive resource where the complex simplifies. Where peace of mind and mutual respect grow relationships. Where competitive advantage and machine performance improve—every time.



# ALWAYS STAY CONNECTED TO YOUR MACHINES

No longer seen as an add-on benefit, telematics has become a necessity for OEMs in a number of industries, including construction and fleet management. Staying connected to their machines provides countless benefits for companies, like issue logging, real time monitoring, constant communication, and so many more.

## USING THE TECHNOLOGY THAT WORKS FOR YOU



# INVEST IN YOUR FUTURE

Adjusting your overall machine perspective from reactive to proactive and taking a more hands on management approach can see serious financial and operational advantages for OEMs in the long run. No matter your industry or machine application, investing in advanced telematics and connectivity solutions will benefit your bottom line.

## Geofencing

Know where your machines are at all time. Create custom geofencing zones so that you can monitor your mobile assets in the field. You can see in real time if a machine leaves a specified geofencing zone, preventing unauthorized machine use, or even theft. This data allows you to be proactive and address issues with operators and territory managers before it negatively impacts operations or revenue.

## Applications

### Machine Health



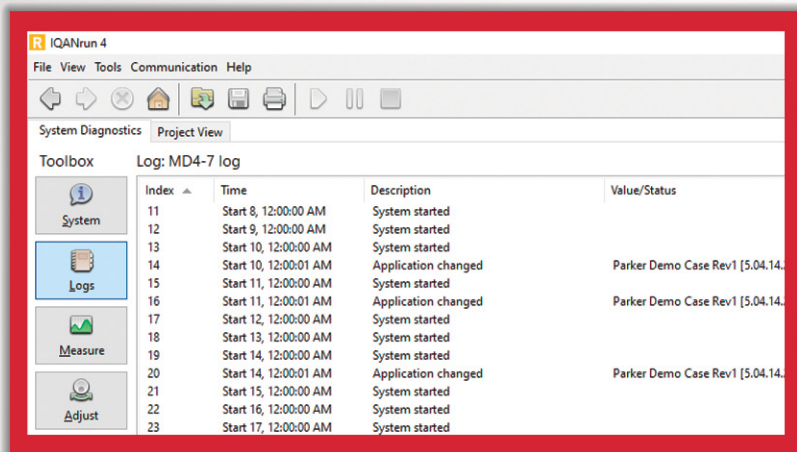
### 24/7 Communication



# Issue Logging & Tracking

Stay connected to your operators in the field. Monitor behaviors and actions of new operators to determine whether additional training is beneficial. Log machine issues and operator errors in real time. Managers can use that data to ensure operators are reaching peak performance and machine issues are resolved, keeping machines working and ultimately maximizing ROI.

## Applications



The screenshot shows the IQANrun 4 software interface. The main window displays a log titled "Log: MD4-7 log". The log table has columns for Index, Time, Description, and Value/Status. The log entries show a sequence of system starts and application changes over a period of 23 hours.

Index	Time	Description	Value/Status
11	Start 8, 12:00:00 AM	System started	
12	Start 9, 12:00:00 AM	System started	
13	Start 10, 12:00:00 AM	System started	
14	Start 10, 12:00:01 AM	Application changed	Parker Demo Case Rev1 [5.04.14.
15	Start 11, 12:00:00 AM	System started	
16	Start 11, 12:00:01 AM	Application changed	Parker Demo Case Rev1 [5.04.14.
17	Start 12, 12:00:00 AM	System started	
18	Start 13, 12:00:00 AM	System started	
19	Start 14, 12:00:00 AM	System started	
20	Start 14, 12:00:01 AM	Application changed	Parker Demo Case Rev1 [5.04.14.
21	Start 15, 12:00:00 AM	System started	
22	Start 16, 12:00:00 AM	System started	
23	Start 17, 12:00:00 AM	System started	

## Operator Identification

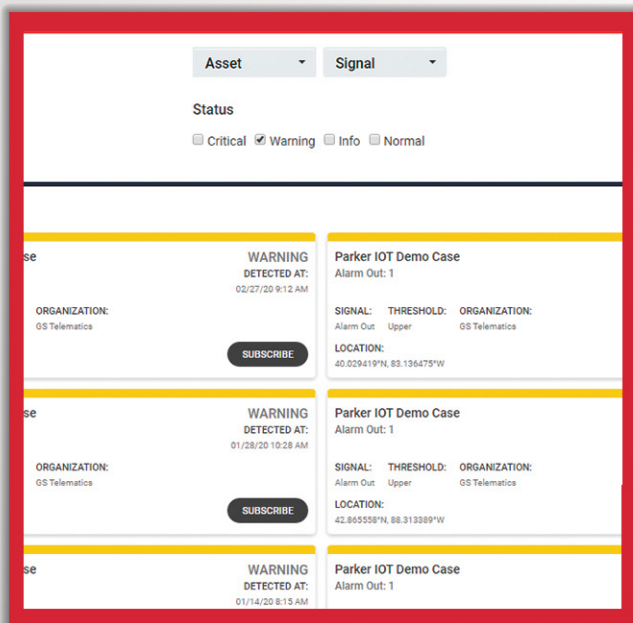
- Behavior Tracking
- Targeted Training

## Error Monitoring

- Custom Alerts
- Active SMS Text Messaging
- Utilize Proactive Maintenance

## Maximize Return on Investment

- Optimize Machine Utilization
- Key on Uptime
- Reduce Downtime
- Decrease Warranty Claims



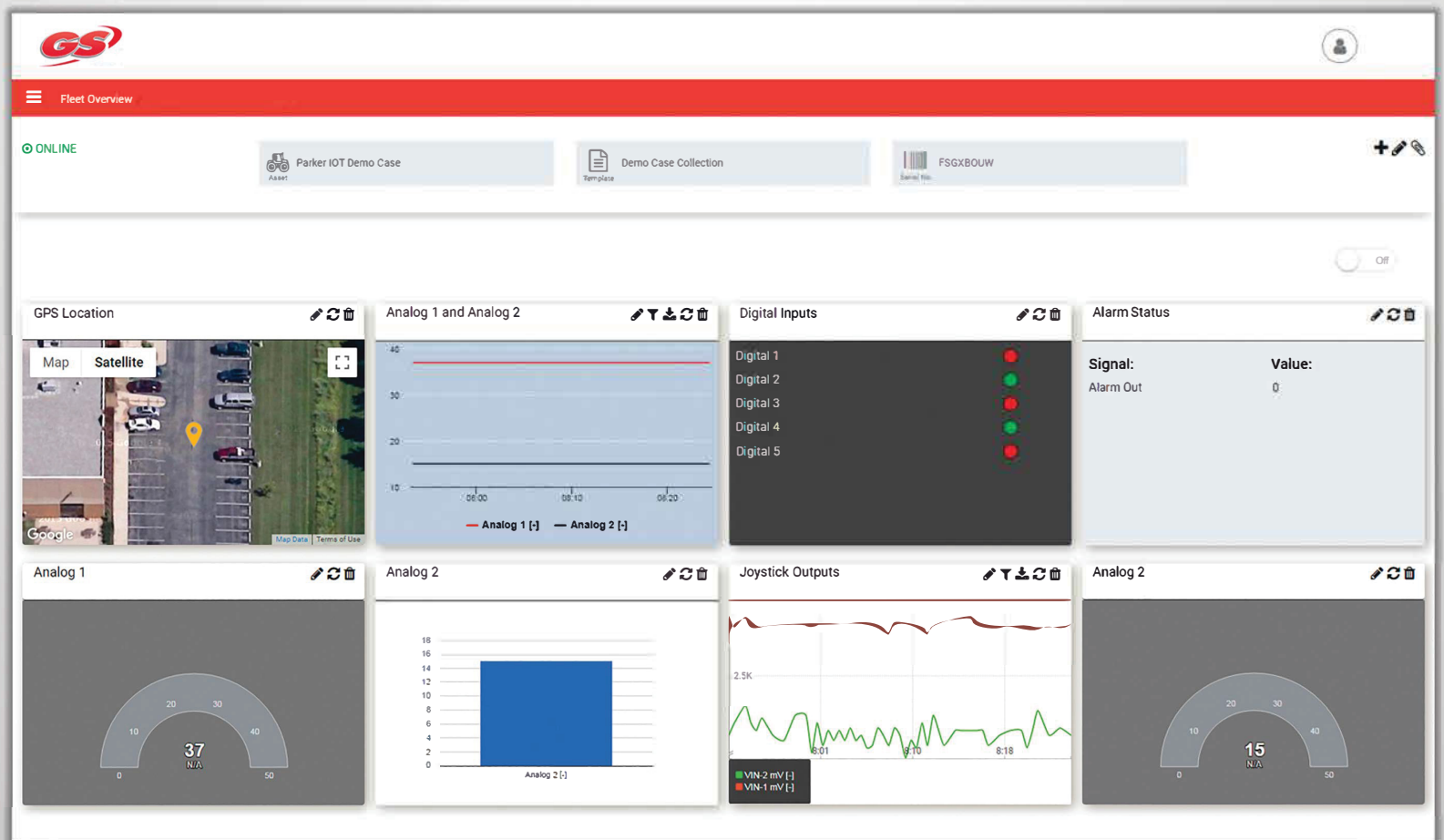
The screenshot shows a mobile application interface with a "Status" section. It displays three warning alerts for "Parker IOT Demo Case". Each alert includes the detected time, organization (GS Telematics), signal, threshold, and location. A "SUBSCRIBE" button is visible for each alert.

Asset	Signal
Status	
<input type="checkbox"/> Critical <input checked="" type="checkbox"/> Warning <input type="checkbox"/> Info <input type="checkbox"/> Normal	
se	WARNING DETECTED AT: 02/27/20 9:12 AM
ORGANIZATION: GS Telematics	Parker IOT Demo Case Alarm Out: 1 SIGNAL: THRESHOLD: ORGANIZATION: Alarm Out Upper GS Telematics LOCATION: 40.029419°N, 83.136475°W
SUBSCRIBE	
se	WARNING DETECTED AT: 01/28/20 10:28 AM
ORGANIZATION: GS Telematics	Parker IOT Demo Case Alarm Out: 1 SIGNAL: THRESHOLD: ORGANIZATION: Alarm Out Upper GS Telematics LOCATION: 42.865598°N, 88.313389°W
SUBSCRIBE	
se	WARNING DETECTED AT: 01/14/20 8:15 AM
ORGANIZATION: GS Telematics	Parker IOT Demo Case Alarm Out: 1 SIGNAL: THRESHOLD: ORGANIZATION: Alarm Out Upper GS Telematics LOCATION: 42.865598°N, 88.313389°W
SUBSCRIBE	

## Real Time Monitoring

Stay connected to your machine at all times and get valuable data from your machine as it happens. No matter how remote a job may be, with industry leading connectivity solutions from GSGR, managers can always keep track of machine performance, perform diagnostics, and make program changes in real time.

This ability to be in constant contact with your machine allows OEMs to target the time period between potential failure and actual equipment issues, significantly decreasing problems and minimizing down time. So when a certain part is operating less than normal, you can solve that specific problem before it has a larger, detrimental impact on the machine on the whole.



## Fast & Easy Communication

Operators using your machines perform jobs around the globe, sometimes in incredibly remote locations. Now you can not only communicate with those individuals, but you can connect directly to your mobile assets.

Easily programmable for your communication needs, advanced telematics solutions from GSGR has a simple, easy user interface. Managers can view machine status, receive issue alerts, and make remote program adjustments from their mobile devices or tablets within a very visual user dashboard, easily customized for each user.



## Active Reports on Machine Status

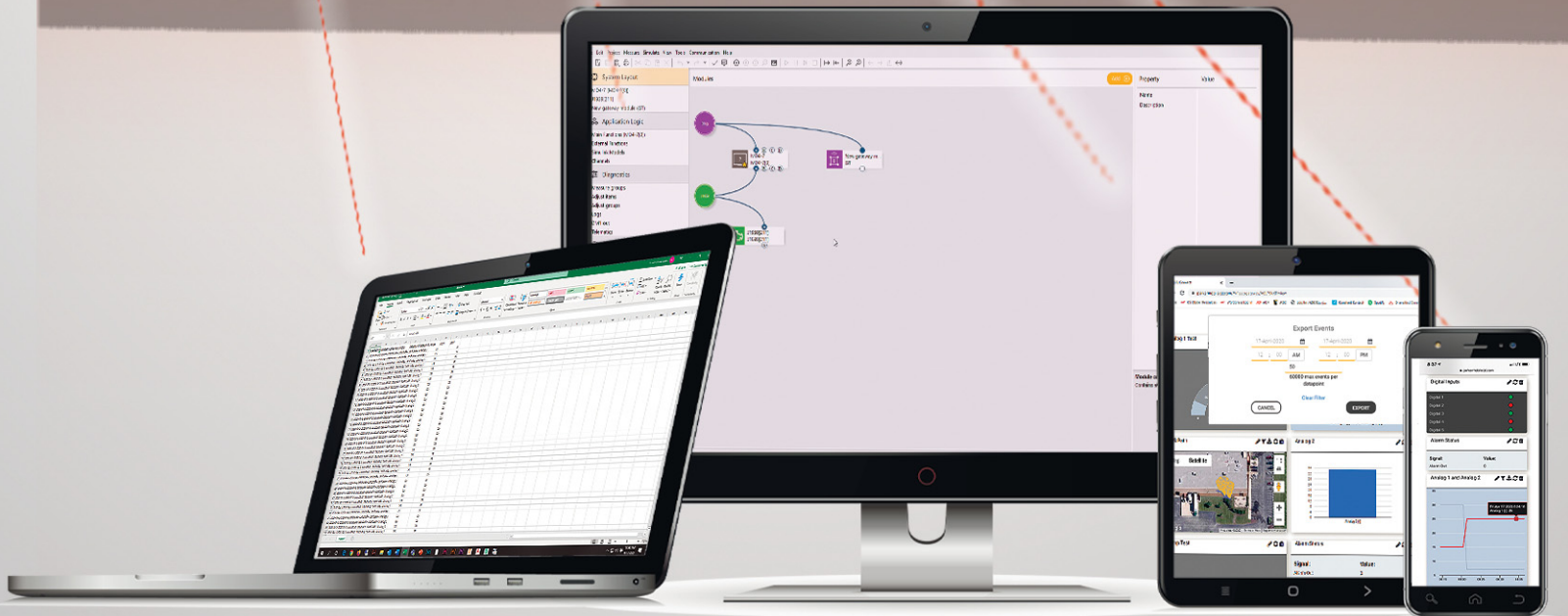
Data drives decisions. With the ability to regularly receive critical reports, you can make the best decisions and future strategies for your machines, maximizing their profitability. You can create automated reports for regular behavior or equipment monitoring, or get targeted data on current machine status and usage.

Understand a problem and solve it before machine failure occurs. Being fully informed about the details of your machine can significantly improve day to day operations and reduce diagnostic time. Replace parts and stay on top of equipment maintenance with customized alerts, keeping machines running properly and efficiently.

## Remote Programming Capabilities

Your machine and program needs are constantly evolving. Making program changes and other adjustments need to be done quickly and correctly, no matter where a job is taking place. You can now make those important adjustments without expending valuable resources of time and manpower by physically sending a technician to a job site.

With a complete telematics solution from GSGR, your programmers in the office can have complete control and get machines working properly, maximizing productivity and time worked in the field.



## Bottom Line ROI

Advanced analytics supports informed decisions. See a positive impact on revenue in the long term. Increase your aftermarket sales while simultaneously reducing your warranty spend. By closely monitoring assets in the field through custom condition alerts, you can address equipment issues before they impact a machine's performance, significantly decreasing down time and maximizing utilization and productivity.

Take it a step further and use the information gleaned from your customized reports to improve future machines. Design cabs or hydraulics that eliminate current issues or negative operator behaviors. Use real data from real customers to create optimal products, constantly innovating to give end users exactly what they need.

Because telematics and IOT solutions are so beneficial and quickly becoming essential to your customers, getting them this programmable solution will ultimately make your product invaluable to them and create strong brand loyalty from your OEMs.

# Stay One Step Ahead

Why remotely monitor a machine? Because it gives you a substantial opportunity to be proactive with some of the biggest challenges facing OEMs.

Active Machine Health

Give Issues Greater Visibility

Clear Diagnostic Messaging

Increase Utilization & Productivity

Preventative Maintenance Notification



## 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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