



## Original Equipment Manufacturer finds Competitive Advantage at GS Global Resources

**Industry:** Construction

**Product Name:** Rough Terrain Crane RT400 and RT500

**OEM:** Broderon Manufacturing Corp. (BMC) | Lenexa, KS



### Technical Solutions Overview

The Broderon RT-400 provides the low-height "stair step" entry and exit of a "Cab Down Rough Terrain Crane". The RT-400-A's pilot-controlled hydraulic design provides the "feel" and precision of direct mechanical to hydraulic level controls while moving the noise and heat of the control valves outside the cab operator environment.

Specific objectives for the Broderon RT400 goal were carried through by **GS Global Resources System Design, Integrated Hydraulic, Electronic and Software Engineered Solution - ready to plug-and-play** - using GS Global Resources leading engineering minds along with the technologically advanced Parker IQAN Software System.

### Single Point of Accountability

GS Global Resources worked directly with Broderon and their suppliers to identify and prevent any issues in the process, "says Colin Sheard with GS Global Resources, saving Broderon time and money. The fully tested, tuned and finished cab allows Broderon to drop the cab into the machine.

**OEM Off-Highway May 2017:** <http://www.oemoffhighway.com/operator-cab/operator-interface/whitepaper/20862964/broderon-manufacturing-corp-broderon-manufacturing-corporation-finds-gamechanging-innovation-at-gs-global-resource>

### Challenge | Project Objective:

- :: Achieve Best-in-Class Fuel Economy
- :: Develop Energy Recovery System
- :: Save horsepower during boom operation
- :: Greater boom control

### GS Global Resources Solution:

- :: Control System
- :: Hydraulic System
- :: Software System
- :: Integrated Controls
  - o Plug-and-play
  - o Electronic integrate with OEMs engine
    - HP control, fan, cooling control and safety locks

### Results:

- :: Tier 4 compliant
- :: Comfortable arm rest mounted control levers
- :: Spacious, comfortable cab
- :: Programable cab solution
- :: Confidence delivered to meet tight turnaround times, "plug-in-play"
- :: GS Global Resources 3-day on-site training and support
  - o Hydraulic system overview
  - o Machine control system
  - o Machine start-up and troubleshooting
  - o IQANrun

### Products and Software Used:

- :: Hydraulic System
  - o Pumps
  - o Priority manifold
  - o Pilot joysticks
  - o Outtrigger control valve
  - o Upper control valve
  - o Anti-2 block manifold
- :: Machine Control System
  - o Electronic Foot Pedal
  - o Input / Output modules
    - IQAN MC2
    - IQAN XA2
    - IQAN XS2
    - Eaton mRFRM
  - o Displays
    - IQAN MD4



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