

> Intelligent inventory control of materials, equipment and components throughout the entire lifecycle of industrial assets <



- > MODS Connect Materials is a comprehensive inventory solution that enables real-time tracking of your materials, equipment and components throughout their transformation value chain, from fabrication through to installation and beyond to ensure delivery on time, in sequence and to the correct location <

> How is the materials management process made intelligent with MODS Connect Materials?

MODS Connect Materials enables accurate planning of warehouse operations around both impending and ongoing projects, from storage forecasting to resource deployment, using workfront planning and real-time warehouse inventory information to maintain fidelity to project timescales.



> How does MODS Connect Materials use QR codes and barcodes to manage materials?

MODS Connect Materials supports the use of both barcodes and QR codes, which can be used separately or in conjunction to digitalize the management of materials. Built-in tools enable the system to automatically formulate both barcodes and QR codes, which can be utilized throughout both MODS Connect Materials and the entire MODS Connect system.

There is also an option to create & print QR/barcode labels directly from the system which are then applied to individual items or a group of items.

> Does MODS Connect Materials work with handheld devices?

Yes, MODS Connect Materials comes with a handheld app. The use of handheld devices streamlines the stock-picking process by reducing the picking failure rate, providing improved inventory visibility and mitigating redundant stockpiling, which reduces project costs. The warehouse staff receive clear instructions from handheld devices, eliminating manual paper-based operations.

> How does MODS Connect Materials reinforce Lean Construction principles?

Both Lean Construction principles and MODS Connect Materials approach processes in as time-and-cost efficient a manner as possible by streamlining workflows, cutting out waste, saving time as well as materials, thus reducing embodied carbon in materials and increasing project ROI.

> MODS Connect Materials Business Case



> MODS Connect Materials Features

- 3rd party system integration (procurement) and auto-population of materials from existing ERP systems
- Delivery tracking and advance delivery notification
- Access/permission controls
- Asset tagging
- Asset photo management
- Automatic report & dashboard generation
- Material availability / readiness indicators
- Barcode / QR generation & scanning
- Requisitioning tools for creation, bulking and surplus stock checking
- Container and equipment management
- Expediting
- Integration with MODS Connect WorkPack and MODS Reality (activity management) to enable allocations and Bills of Materials for either fabrication or installation work scopes
- Multi-departmental / and multi-project capabilities
- Perform materials management by work pack or job card
- Full photographing functionality for easy identification
- Manifest creation and execution
- Document management
- Mobile/handheld companion application
- Rentals cost management
- Weight reporting
- Test certification management and re-certification flags
- Inventory management and stock control
- Space management & visualization
- Stocks and spares management
- Management of material transfers
- Stock issuance to assets/plants, fabricators & vendors/suppliers
- Schedule and communicate the readiness of materials
- Data import & export
- Vendor appraisals
- Asset inventory management
- Project & operations material management all in one place

> MODS Connect Materials Benefits

- Clearer, more accurate reporting
- Reduced administrative burden
- Fewer business disruptions
- Greater regulatory compliance
- Enhanced productivity
- Better project quality
- Increased project ROI

6.2 million
Materials

shipped for construction and maintenance projects in the Gulf of Mexico alone, making real-time and archival traceability of materials digitally accessible to all stakeholders anywhere and at anytime.





> Challenge

Improve materials management efficiencies for major offshore client of GIS

> Solution



> Impact

Eliminated a 22 week lead time, saving **\$20,050**



UKCS brownfield TAR & on CAPEX offshore brownfield O&M of multiple North Sea assets with springhanger rectification and small-bore tubing anomalies



Contractors able to track materials being delivered offshore, and to demonstrate receipt of goods with proof.

Elimination of shipping time; as soon as a digital work pack was signed off offshore, it progressed to closeout.

Achieved on-schedule 30-day TAR.

“We have standardized what ‘good’ looks like and we have the flexibility to meet client-specific requirements. We can record all information that goes into the system and measure and monitor data in a consistent manner so we can be very confident that what we report is accurate. Progress and photographs are at the click of a button. The accuracy is a very important point, the tools allow the folks in the field to trust the information coming to them to quality check. MODS Connect has strengthened quality control and transparency of project information. This gives us the ability to be more efficient, removing manual processes, including labor required to process information, all in one environment.”

Digital and Innovation, Future of Project Delivery Lead

> A note from our partners

"We started using MODS software for controlling materials in 2012. Before using MODS Connect Materials, we used Excel in managing our inventory, a complicated warehouse inventory process that could often be very time consuming. We partnered with MODS to start our digital transformation and have used the system to manage our project's inventory ever since. MODS Connect Materials has great functionality that helps us better plan, receive, distribute, and track in real-time. A great feature we like is the reporting, which gives us insight into how materials are being aligned with the work fronts we have planned within a specific period. The MODS team has also been invaluable at evolving their system regularly to adapt to the ever-changing needs of their customers, adding new and efficient elements to help solve bottlenecks and make the experience better."

Senior Project Manager at Grand Isle Shipyard



> Client Feedback

"We haven't missed one nut or bolt, not ONE gasket, gland or tag, out of over 150,000 items, using MODS Connect Materials."

GoM Materials Manager

"In the UK all Petrofac materials are managed with MODS Connect software, controlling thousands of material line items for projects, shutdowns, and operations across the energy sector in the UK."

Supply Chain Director at Petrofac

"A quick note to say how impressive the MODS Connect system is for generating shipping manifest. The level of detail the warehouse team plus MODS software is providing to the offshore team is excellent."

Senior Project Manager at Petrofac

"MODS Connect Materials, MODS Connect WorkPack & MODS Connect Completions software used during the planning and executions phases for this enhanced oil recovery project. MODS Connect is used to manage all purchased materials as well as free issue 3rd party materials. All received against PO, shipped by MODS Connect WorkPack as per construction schedule".

Project Manager at EOR Ithaca