



Matthew Preston
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*Facilitating Construction Site
Resource Logistics Through
Linked RFID Tagging*

Byrne Group

Byrne Group PLC is one of the UK's fastest growing companies in the Project Management and Construction services industry. Projects include 2012 Olympic Stadium, and the Shard of Glass which will be the tallest in Europe.

Byrne Group believes that through collaboration, there are always different, better and safer ways of doing things; lateral thinking is never far from the agenda if it means faster, more efficient delivery of the project

Specialists in concrete frame construction, fit-out, new-build and refurbishment. As an integrated Group we can leverage better value and more efficient services so that we deliver contracts at the right time, every time

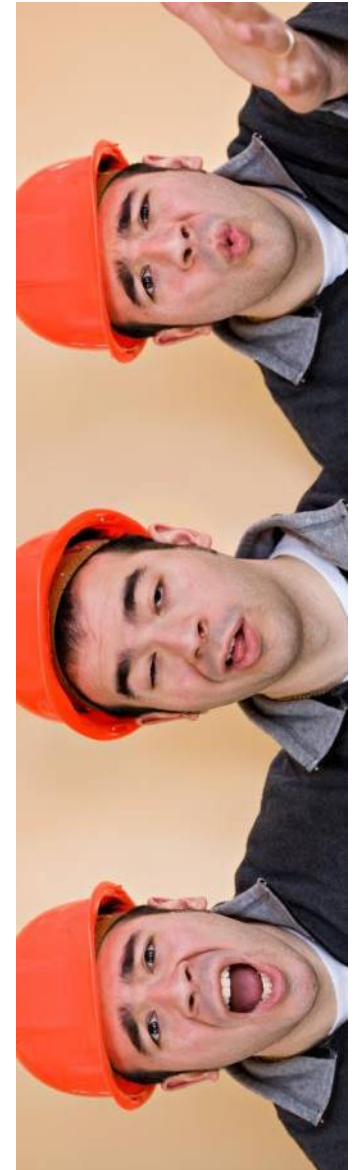
The Group established a consolidation centre, one of the first in the industry to do so. The seven-acre facility in London serves as a hub to provide plant, materials, warehouse and distribution facilities to most of our construction sites



Plant and Stock Requisition...

The bad old days....

- Paper based (Faxes, Telephone calls), requisitions were misplaced or misinterpreted.
- Every engineer and foreman had their own way of describing what was needed, which required interpretation back at the consolidation centre.
- Associated items were never requisitioned but were needed.
- No accurate method of knowing what was where and when it was being returned.
- Poor asset management of owned plant meant more re-hire from external plant companies was taking place.



Plant and Stock Requisition...

Moving forward....

- **Created the Coins Plant Catalog to place all Plant and Stock Requisitions**
- **Hire Desk within the Consolidation Centre processes requests within Coins OA**
- **Picking lists created and sent to RFID Handheld within Stores.**
- **Stores pick all items, test & certify equipment within the Handheld application.**
- **Equipment dispatched with delivery note to site.**

Web Catalog

Simple to use, very quick to find all Plant & Stock Items

Search Groups View Basket Previous Requests Log Out

COINS

Groups

Search: Search Groups View Basket Previous Requests Log Out

Code

All Groups > A Mechanical Plant

Search: Search Groups View Basket Previous Requests Log Out


COINS

Groups

All Groups > A Mechanical Plant > A20 Excavator


Search: Go Sort By: Code


COINS

Code	Description	Guide Price/Per	Full Description	Docs
A2050	MEC006M  TRACKED EXCAVATORS UPTO 10T	1,128.00 Week	Excavator Tracked	View

Refresh

Refresh

A30  Generator [View](#)


A40  Lighting Tower [View](#)

Search Groups View Basket Previous Requests Log Out

COINS

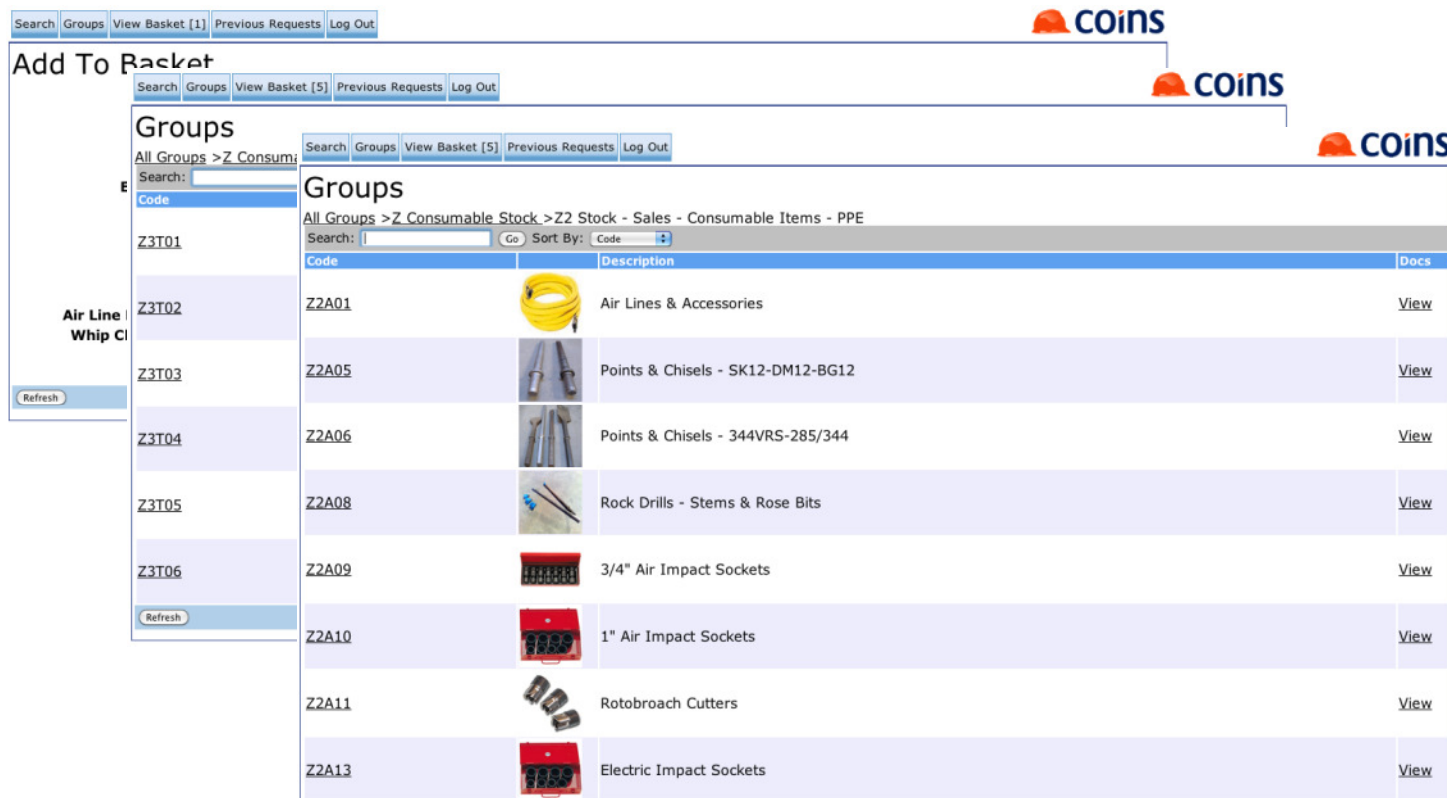
Add To Basket

Group: MEC006M
Full Description: Excavator Tracked
Description: TRACKED EXCAVATORS UPTO 10T
Quantity:
Required From:
Expected Off Hire Date:
Guide Price: 1,128.00 Week
Comments:



Refresh OK

Web Catalog



The screenshot displays the COINS web catalog interface. At the top, there are navigation links: Search, Groups, View Basket (1), Previous Requests, and Log Out. The main content area is titled 'Add To Basket' and contains a search bar and a 'Refresh' button. Below this, there are two panels. The left panel is titled 'Groups' and shows a list of codes from Z3T01 to Z3T06. The right panel is titled 'Groups' and shows a list of items with their codes, descriptions, and 'View' links. The items listed are:

Code	Description	Docs
Z2A01	Air Lines & Accessories	View
Z2A05	Points & Chisels - SK12-DM12-BG12	View
Z2A06	Points & Chisels - 344VRS-285/344	View
Z2A08	Rock Drills - Stems & Rose Bits	View
Z2A09	3/4" Air Impact Sockets	View
Z2A10	1" Air Impact Sockets	View
Z2A11	Rotobroach Cutters	View
Z2A13	Electric Impact Sockets	View


Associated Items, linked in with Major Plant items

Consumable Items, Timber, Fuels and Oil

Stock Items, everything from PPE to Boots, Drills and Warning Signs

Web Catalog

Once complete the 'Checkout' process sends the order through with details of Job, Address, WBS. This creates the requisition within the consolidation centre to process.



Search Groups View Basket [5] Previous Requests Log Out

Checkout Basket

Customer Type: Internal External
Company: <Select> ▾
Contract: ...
WBS Code: ...
Charge Centre: ...
Site:
Address:

Post Code:

Code	Description	Quantity	Required From	Expected Off Hire Date	Guide Price	Per
MEC006M	TRACKED EXCAVATORS UPTO 10T	1.00	23/10/09	01/11/09	1128.00	Week
MEC022	COMPRESSORS 2-TOOL	1.00	23/10/09	01/11/09	88.87	Week
G06025	. . . Drip Tray 4X4 Plastic	1.00	23/10/09		64.33	Rate
A01065	. . . Whip Check for Airline 1.1/4"	4.00	23/10/09		1.78	Rate
A01055	. . . Inline Oilers	1.00	23/10/09		23.41	Rate

Hire Desk, Dispatching

Plant Control - Requisition / Sales Order Summary - MATTHEW

Requisition No: 451000010 (2016)
Date: 07/01/16 AM: 13:05
Revised By: Peter Harrison (Sigma)

Contract No: 451
Contract Name: THE SHARD OF GLASS
Site Address: 310 RAZED LTD, 32 LONDON BRIDGE
ST ANDREW ST THOMAS STREET
SOUTHWARK, LONDON
SE1 8BS
Tel: 07895 02802
Fax:

Line	Product	Description	Qty	Unit	Price	Per	Head & Tail	Plant Code	Status	
1	57820010	PSC GUTC Tanker (4000L MTR)	1	M	96.00	0.00	0.75	R	09/10/16	Fully Procured
2	57820015	PSC GUTC Tanker (4000L MTR)	1	M	288.00	0.00	1.20	R	09/10/16	Fully Procured
3	57820020	Spinn Platform plus PSC PSC CDPC	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
4	84000000	Spinn Platform plus PSC PSC CDPC	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
5	84000005	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
6	84000010	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
7	73000000	Concrete	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
8	83000010	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
9	83000020	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
10	83000030	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
11	11504000	Clear MTR	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
12	12504000	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
13	13707000	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
14	14700000	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured
15	15700000	Spinn Platform	1	M	18.00	0.00	0.05	R	09/10/16	Fully Procured



Transport

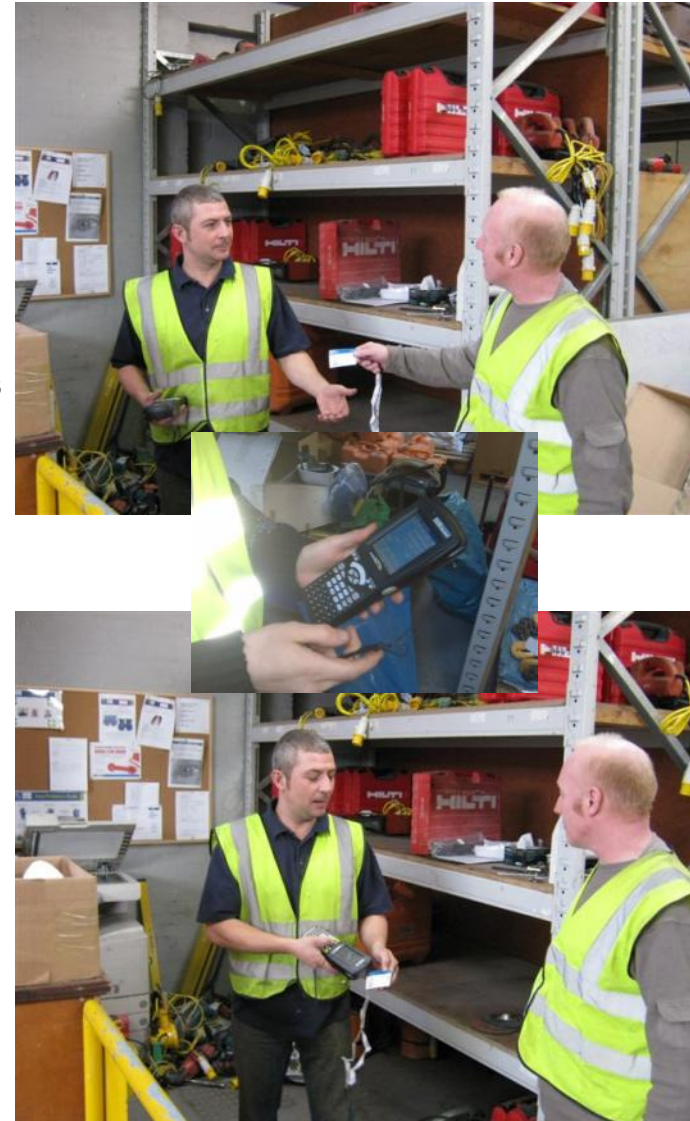
- Upon the completion of picking, a dispatch is generated, the On-Hire is confirmed and a delivery note is created.
- Logistics department collect from the Consolidation centre and deliver to site.

- Throughout the Hire Desk process, site have visibility of the requisition and delivery timescales.
- Our sites receive exactly what was requisitioned both effectively and efficiently... saving time and money



Site Operations

- Every Site operative is allocated an RFID picture security card. Without this ID card no tools or stock items will be issued.
- The software stores every individual's training records. If the individual requesting the tool from stores is not correctly trained the system will not enable the allocation of the tool to the individual
- System stores Stock Levels and Asset records / locations
- PAT and Other Certificates are automatically checked before an item can be issued.



Site Operations

Issuing Items on Site

- Operative Card Scanned
- Tool Scanned (User rights checked)
- Stock Items scanned
- Issued to Operative. □

Returning items to stores

- Operative Card Scanned
- Tool Scanned (Condition checked, Visual Inspection)
- Returned to Stores, ready for re-allocation.



Hire Desk, Returns

Once item is no longer required on site a return request is created by the site Foreman. This request is sent to the hire desk

Logistics department collect from the site and deliver back to the Consolidation centre.

Contract	Cfg Code	No	Date Created	Responsible	Hire Date	Product	Description	Supplier's Asset No	PO Number	Quantity	Dispatch Responsible	Return No
443	358	1	13/09/09	SACHOVY	12/09/09	MC033P	6.5t Grapple Crane		HP-MCU/0100	1.00	038850	
451	508	1	23/08/09	PAULO	24/08/09	GR027UB	110 Volt Copeland Fan Motor Model JL 100V 110W 110V 110W 110V 110W	W7908	HP-MCU/0004	1.00	029767	
455	858	1	01/08/09	PETERH	03/08/09	3M64568	3Ase Grapple			1.00	028820	



Once the item is returned back to the Consolidation Centre, the RFID handheld is used to return the item and off-hire the asset within Coins automatically

Control, Accuracy and Profit

The fully integrated Coins Hire Desk and Assettagz RFID systems has vastly improved the control of assets, the accuracy of requisitions and ultimately the improved the profitability of the business.

External hires have been reduced.

Theft has been dramatically reduced.

General stock item usage has been halved

Headcount and Logistics overhead reduced.

Tight Control of the right person using the right tools

Questions

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