



 **great bear**  
Part of the  **culina** GROUP

DELIVERING AN ULTRA-HIGH DENSITY, CUSTOM BRANDED  
AND FLEXIBLE BATTERY ROOM FOR GREAT BEAR DISTRIBUTION





## INSTALLATION FOR GREAT BEAR DISTRIBUTION CENTRE AT MARKHAM VALE 2

Great Bear continued its expansion with a new, purpose designed warehousing facility at Markham Vale, Chesterfield.

The 479,285 square feet site is the largest development at Markham Vale to date, and led to the creation of a significant number of jobs when the build reached completion in spring 2016.

### **Alastair Isbister, CEO at Great Bear commented:**

Bringing our business to Markham Vale is a positive step forward for our company.

The site is exactly what we've been looking for with tailor-made facilities in a prime location just off Junction 29A of the M1 motorway, providing easy access to our customers and other bases across the UK.

We look forward to becoming part of Markham's growing network of companies.

Great Bear has worked closely with Henry Boot Developments to design the facility to its exact specification, with many of the features being at the forefront of technology.



## OUR CHALLENGE

Markham Vale 2 is a huge new site for Great Bear Distribution and has come as a result of rapid growth and the resulting increase in demand.

As expansion was the theme of the installation we didn't want to provide the same traditional roller bed system in the battery room.

With traditional roller bed systems in a battery room, expansion doesn't come naturally. If needs change or if there's an increase in demand it's not easy or straightforward just to expand the battery room with more roller beds. More often than not it requires a complete overhaul. This not only hugely increases costs, it leads to a massive disruption in your operation whilst the work is being completed.

Our latest battery room innovation provided a solution that was in-keeping with the expansion theme.

# MOD.RACK™

## BATTERY RACKING THE WAY YOU WANT IT

Our MOD.RACK system is infinitely flexible, allowing a battery room to grow and optimize as needs change. This made it the perfect choice for the Markham Vale 2 battery room.

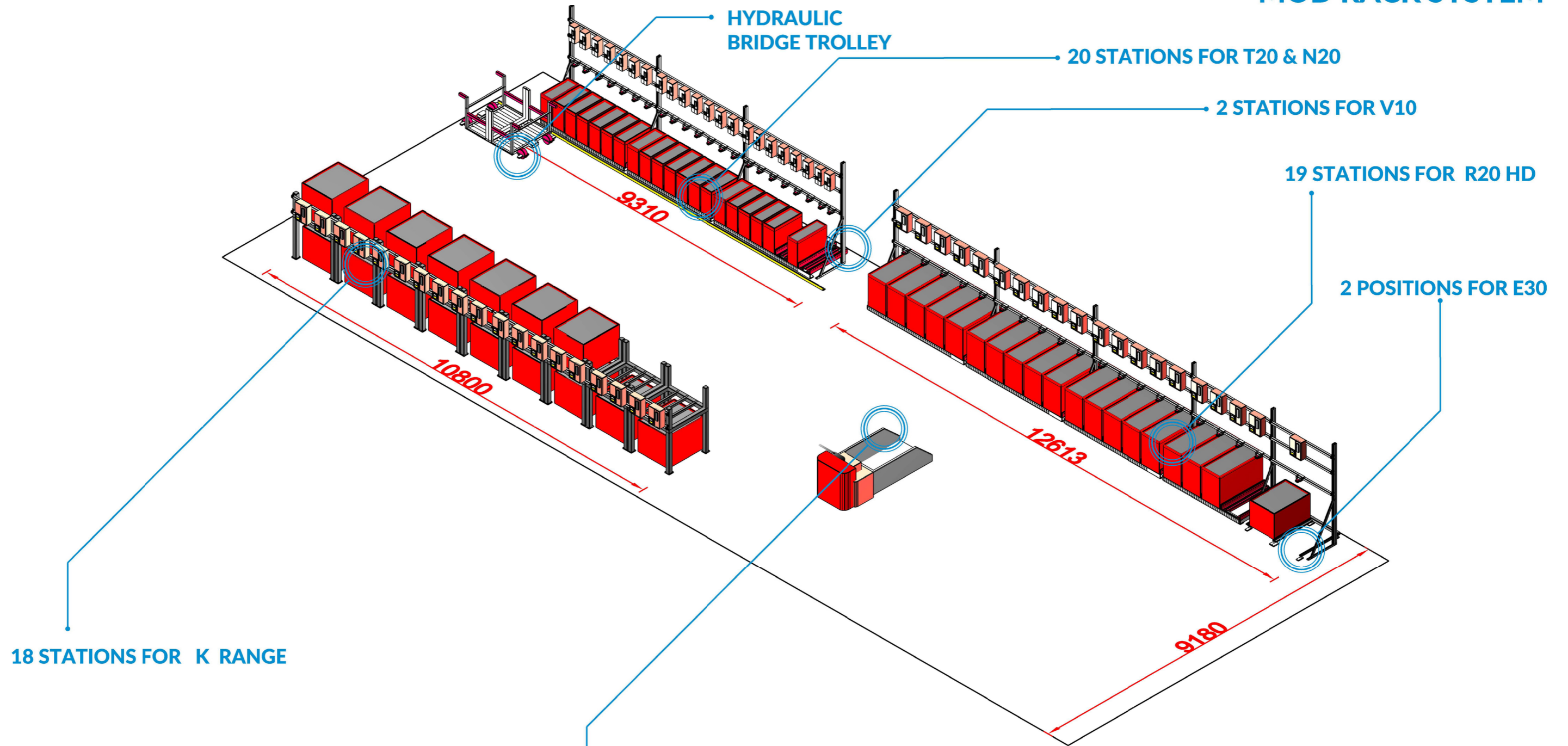
MOD.RACK allows us to custom brand the beams, so we followed the Great Bear corporate branding to reflect the company colours within the battery room. Not only does the signage on the outside reflect the company branding, the battery room on the inside now does too.

As with any distribution centre space is definitely at a premium and MOD.RACK has been designed with this in mind. A MOD.RACK system is up to 20% higher density compared to a traditional roller bed system.

As the needs of the site change, MOD.RACK can easily be adapted to new requirements. MOD.RACK can be quickly and easily expanded, making it the most cost effective and highest density racking system available in the industry.



# MOD RACK SYSTEM



## THE DESIGN

The system we designed was a combination of both MOD.RACK for the PPT, LLOP and REACH truck batteries along with a mixture of racking for K RANGE fork pocket batteries.

The flexibility of MOD.RACK allows a multi-platform system to be tailored to meet the needs of the customer. We provided custom branding for the MOD.RACK and supplied an Attach-A-Puller alongside an Hydraulic Bridge Trolley to ensure the batteries can be changed quickly and easily.

To get the most out of any battery room, good battery management is key, so to top off this installation we installed our iBOS® battery management system to make sure that Great Bear gets the maximum possible life out of their battery fleet.

MARKHAM VALE - LINDE				
Truck type	Positions	Battery Dimensions		
		Length	Width	Height
R20HD	19	1220	499	784
K RANGE	18	1028	855	784
T20/N20	20	786	310	630
E30	2	1026	708	630
V10	2	830	273	630



## **COST EFFICIENCY**

Our MOD.RACK system has been designed with versatility in mind and is intended to be the most cost efficient battery handling system available anywhere on the market.

One of the biggest factors in a traditional battery room is the cost of reconfiguration. It isn't easy or cheap to change around the battery racking if battery sizes or requirements change. As with any FMCG distribution center, seasonality effects the demand on the battery room with space being a very important consideration too. If a truck contract changes more often than not the battery size will change rendering the current configuration of the battery room redundant.

If we had installed a traditional roller bed system in this battery room and Great Bear changed forklift truck provider then it would have cost in the region of £6500 to remove and refit a roller bed system.

This cost would have been saved with MOD.RACK as it can be tailored quickly, easily and used space more efficiently compared to a roller bed system.



**FROM CONCEPT TO REALITY**

Within 12 weeks of the order being placed, the MOD. RACK system was custom branded, transported and installed alongside our iBOS system.



**"THE MOD.RACK SYSTEM IS THE ONLY BATTERY RACKING AVAILABLE ON THE MARKET THAT PROVIDED THE VERSATILITY THAT WE WANTED FOR OUR BATTERY ROOM.**

**THE SYSTEM WAS DELIVERED AND INSTALLED WITHIN A VERY QUICK TIME-FRAME WITH ALL THE SKILL AND ATTENTION TO DETAIL THAT PHILADELPHIA SCIENTIFIC ARE RENOWNED FOR. TOGETHER THAT MADE MOD.RACK THE ONLY LOGICAL CHOICE FOR US."**

*MARK MATKIN GROUP FLEET MANAGER - CULINA GROUP*





## MAKING LIFE EASIER

As with any Lean Battery Room, time is of the essence and it's important that battery changes are carried out quickly and safely. At Markham Vale we supplied both a hydraulic change trolley for the PPT and LLOP alongside a larger Attach-A-Puller for the REACH truck batteries.

We separated the larger VNA batteries as they are changed using forklift pockets.

Having this level of co-ordination throughout the battery room streamlines that change process, saving countless man hours over a 12 month period..



## INDUSTRY LEADING BATTERY MANAGEMENT

The MOD.RACK system was installed alongside our iBOS system to ensure that the battery room can perform to its maximum potential. Our iBOS system eliminates the guesswork and the worry involved with managing your battery room, saving you money whilst it does it. It enables a Lean approach to managing your battery room. iBOS is the most widely used battery management system in the industry and it allows distribution centers and warehouses to effectively optimize their battery fleet. This helps to further reduce the footprint of a battery room when combined with our MOD.RACK battery racking.



FIND OUT MORE:  
[WWW.PHLSCI.CO.UK/MODRACK](http://WWW.PHLSCI.CO.UK/MODRACK)