

Biomass Generator Handling

An interesting challenge was presented to JB Rawcliffe & Sons Ltd in the form of locating a backup generator to its operating position.



The challenge was made up of several constrains consisting of extremely limited access, very low permissible ground loadings and congested working area.



With all the constraints CAD planning was used to engineer a solution to establish the positing of equipment with swept path analysis to ensure the solution was possible. Detailed calculations were submitted to ensure loadings were within site parameters.



The generator was transhipped from the delivery vehicle to an SPMT and manoeuvred around the site to the generator plinth. Timber mats were used to spread the loadings and tear the raise in level to the plinth.



Once positioned on the plinth the hydraulic gantry lift system was used to lift the generator from the SPMT and place the generator to its operating position on the plinth.



Location: Ince Biomass, Cheshire
Project: Handling of a Generator
Dimensions: 40,000kg Transformer, 12.1m x 3.3m x 4m
Challenge: access restrictions, congested & restricted site, low permissible ground loadings.
Equipment: SPMT, Hydraulic lift system, timber mats, steel spreader mats.

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