

C. CHO, Y. SHIN, J. PARK, Y. LEE, M. CHO. **Lifting load calculation method of computing simulation for super-tall building construction.** *Gerontechnology* 2012;11(2):401; doi:10.4017/gt.2012.11.02.396.00

Purpose We aimed to develop a lifting-load calculation method based on the quantity calculation of buildings for a lifting simulation-possible element technology through an organized system. **Method** We (i) conducted a literature review of construction lifting equipment lifting load calculation methods¹⁻³; (ii) analysed advanced research results; (iii) developed an algorithm for construction lift car & tower crane lifting load calculation; and (iv) verified a suggestion algorithm using a simulation method. **Results & Discussion** This study presents a lifting load calculation method based on the quantity calculation of buildings, quantitatively and efficiently responding to the various conditions in construction fields through the above method. It also tried to present a lifting simulation-possible element technology through an organized system (Figure 1).

References

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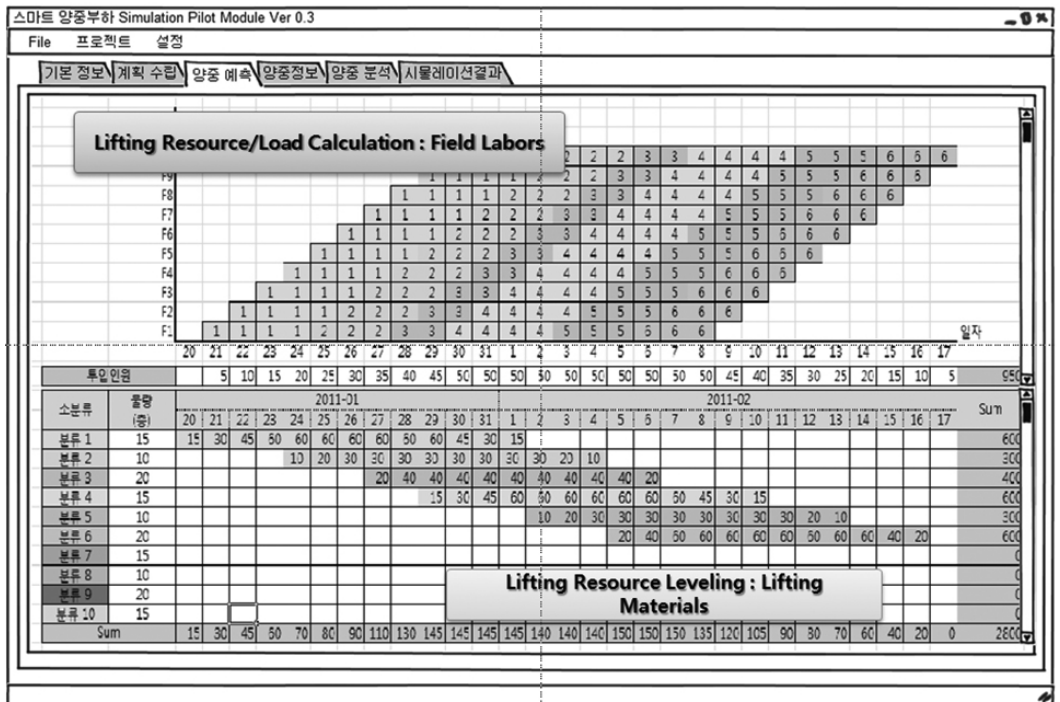


Figure 1. Lifting simulation plot module