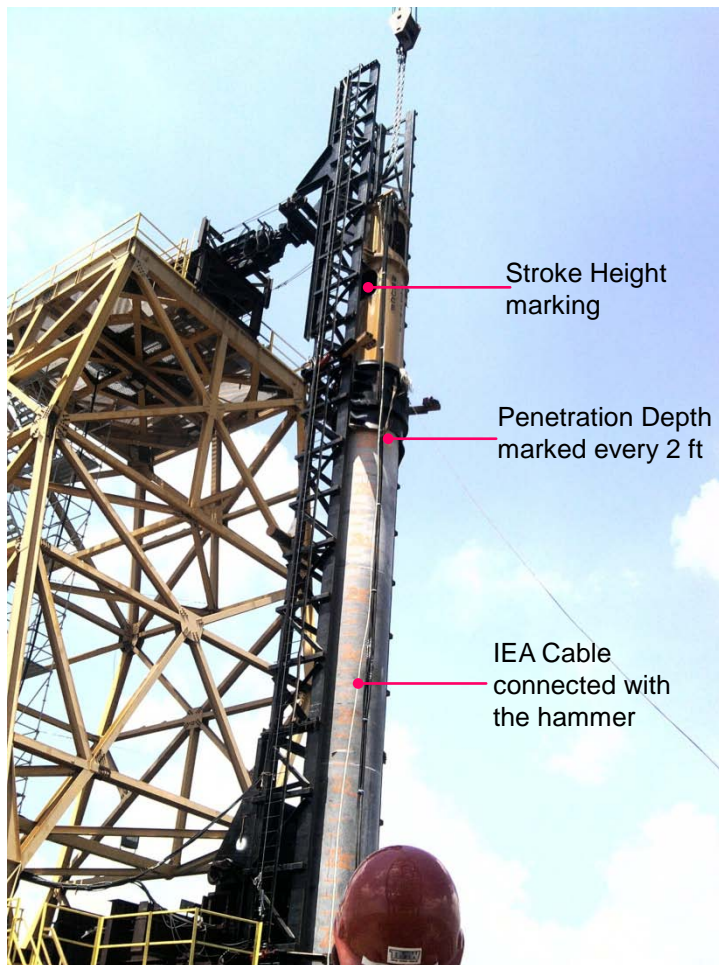


## BRUCE SGH-3013 employed IEA system for concrete pile driving.

Pile foundations are used extensively for the support of buildings, bridges, and other structures to safely transfer structural loads to the ground and to avoid excess settlement or lateral movement. Driven piles, in particular, have been a preferred foundation system because of their relative ease of installation and low cost. This driven pile foundation, however, should consider some kind of factors which are soil conditions, pile materials, pile integrity and required hammer energy before it starts. We focus on developing pile testing systems called IEA system, impact energy analyzer for quality monitoring and determining the integrity hammer energy for most of the driven foundations.



BRUCE SGH-3013 itself is used to perform IEA system.



Engineers use the IEA system on site.

The BRUCE SGH-3013 uses to perform IEA system on production piles. IEA is essential for a driven pile foundation to estimate hammer energy efficiency at the time of this moment. If necessary, it is possible to adjust IEA system on the stroke height without checking the making line on the hammer. The IEA gives the engineer the option of determining the penetration depth for a single pile and it assesses hammer energy capacity, cumulative blows, blow rates etc, at a real time data interpretation. When the engineer is present for the IEA on site it displays all the job data and results, therefore, a field crew can evaluate the data such as blows per step, blow rate and energy per step through the IEA. It is an excellent managing way of protecting both pile materials and hammers.

SGH-3013 Specification	
Ram Weight	30 ton (66139 lbs)
Maximum Stroke	1.3 meter (4.27 feet)
Potential Energy	39 ton.m (282087 lbs.ft)
Operating Pressure	270 bar (3917 psi)
Power Source	PQ-600 Model with 525HP
Job Briefing	
Job Title	Port Expansion
Materials of Piles	Concrete
Pile Length	144 feet
Pile Size	66 inch

### Advantages of IEA system

- › Window touch screen of monitor display
- › Up to date, robust, and easy to use.
- › Design and construction of driven pile foundation.
- › Actual Stroke Height adjustment without checking marking line on the hammer.
- › Analysis of an average hammer energy on Penetration Depth by step.
- › Blow rates at each steps and whole steps for a single pile.
- › Unlimited job data storage for the next time working schedule.
- › A total pilling time of a single pile for set up a construction plan.
- › A real time basis of job data by selecting the operation mode.
- › Easy conversion the Engineering Unit for customer convenience.
- › Pile history management and a job proof to be presented.
- › Job data printing out for an immediate interpretation on site.
- › Compatible with Widows or Windows Vista and evaluation data at the office.



IEA is connected with hammer and power pack



Energy efficiency displays on the screen.