Actual Results and Examples

WinBLADE was used to reinforce an embankment slope adjacent to a residence. 150 cement columns were created using WinBLADE at its maximum length of 7m and at angles from 35 or 50 degrees.
 Detailed Results and Examples

Site applications:

Seven columns were created using WinBLADE as a test in man-made sandy ground. An embankment was placed above the ground in order to maintain a certain level of overburden pressure. A steel pipe was laid at the bottom of the embankment to act as one of the buried objects that may be encountered during actual jobs. The mixing blades were inserted into the ground vertically from the top of the embankment.

Two kinds of cement slurry, W/C=0.6 and W/C=1.0, were used for two columns and five columns respectively, and the rotation rate was maintained at approximately 40 times/min with the help of the monitoring and auto-control system. Core samples were taken from the solidified columns, and an average strength 0.76 MN/m² and 1.11 MN/m² were confirmed for each slurry dosage.

Press releases:

- November 7, 2013 The Nikkan Kogyo Shimbun
- March 27, 2013 The Daily Engineering & Construction News
- November 30, 2012 The Nikkan Kogyo Shimbun
- March 22, 2012 The Nikkan Kogyo Shimbun

Technical papers: