

30-ton-Spider Demolition Machine - First Service on an 82m Steel Reinforced Concrete Tower in Dubai.

The chimney tower with a staircase was to be dismantled by a special demolition machine due to environmental reasons. According to the conditions on site, we decided to do the demolition works with the spider demolition machine. This spider demolition machine consists of an upper Liebherr-excavator machine and a special designed lower six-legs base construction.

As our client Enoc required a high safety level, we installed a radio based remote control system for operating the machine from outside. These modifications were constructed in Germany. All our equipment was stored in two 40ft containers and shipped to Dubai by Maritime Freight.

The spider machine was then assembled on-site and lifted to the top of the concrete tower using a 500 tonne mobile crane. Performance of the demolition work with the spider machine with attached demolition hammer was successful and at the total satisfaction to our client.

Timescale:

- ❖ Contract Award: 15th September 2011
- ❖ Preparation of the Liebherr excavator and the base-leg construction. Mobilization and modification of the equipment and machine in Germany: 15th September – 12th October 2011.
- ❖ Transport of our equipment, stored in two containers, from Hamburg port to Jebel Ali Port in Dubai: 12th October – 7th November 2011.
- ❖ Arrival of the equipment on site in Jebel Ali Dubai: 9th of November 2011.
- ❖ Lifting up of the demolition machine onto the chimney tower and start of the demolition work: 13th of November 2011.
- ❖ Finishing demolition work to a height 15m above site level with remaining 15m demolished with normal excavators and breakers. Performance of daily demolition work was approx 3.5 to 4m height: 10th of December 2011
- ❖ Lifting down of spider demolition machine, dismantle and removed off-site: 11th of December 2011.