

Self-Rising System for Formwork and Placing Boom

We have provided a Doka SKE self rising system for the Hines Tower project in Minneapolis, Minnesota that is innovative in two ways:

First of all, we used a hydraulic ring line system for the SKE climbers that allowed the simultaneous operation of 24 cylinders, which permitted the entire perimeter of formwork approximately 114 ft x 40 ft x 12 ft high (4,000 square feet) to be raised at one time, in only 15 minutes.

Second, we have customized the Doka SKE Lifting System to accommodate the placing boom so that we were able to raise the placing boom with the interior core formwork at the same time. We designed the Doka SKE self-rising system for the placing boom to withstand its dead weight and, more importantly, all of the loads imposed during pouring concrete. Here to fore, the placing boom had to be anchored to each subsequent lift with a series of 16-20 bolts. Our design eliminated this process.

Both of these innovations resulted in a substantial savings in labor costs.

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Shaft 2
scale 1:50

