

BSA High Concrete Pole Splicing

High concrete poles in lengths up to 60 meters are used for supporting overhead electrical lines, for radio and TV antennas, and for lighting towers for harbors, airports, or sports arenas. In such installations, there are often problems with transportation and erection procedures because of the long and heavy concrete poles. The solution usually is to cast poles in segments and splice the segments at the site by bolting, welding, etc. The BSA High Concrete Pole Splicing system uses segments with conical female and male ends that precisely fit each other at the splices. This technology uses simple, reusable metal molds that allow the use of either spun concrete technology or vibrated cast concrete. An entire pole is cast at one time to ensure straightness, and the segments are separated from the molds at the joints. All metal in the pole is protected with concrete to eliminate corrosion, and the erection procedure avoids problems with bad weather and moisture. The BSA High Concrete Pole Splicing system permits transportation by truck, rail, or container; even a helicopter may be used in mountainous or remote areas. The system makes it possible to use high concrete poles everywhere, because the erection and splicing operation is very easy and can be done with either a crane or a helicopter. BSA High Concrete Pole Splicing was developed in Switzerland in 1977 to take advantage of concrete pole technology in the mountains.

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