

## 6. Development of The Brick Distinction Dismantlement Method In A Chimney

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Along with an enact of "Dioxin Special Measures Law" and "Construction Waste Recycling Law", the considered industrial method is requested from the surrounding environment and environmental standards in addition to a past dismantlement method in the incineration facilities dismantlement construction. Especially, the chimney is an equipment set up without fail in the incineration facilities. However, because it differs from other structures, it is cylindrical and very high, it is requested that it be cheap, excellent in safety and easiness to dismantle about the dismantlement method. From such a background, the development of the machine that distinctively dismantles the bricks in the reinforced chimney is recorded from the details to the proof examination results in this report. Before we start the production of the dismantlement machine, we tried the examinations of a basic dismantlement method. In these examinations, we understood a significance of the dismantlement method with the wedge mechanism and the press-fitting mechanism with a mock chimney and a possibility of remote-controlled by wireless LAN image transmission system with an actual chimney. The dismantlement machine was produced based on these element experiments and the proof examinations were done. In the proof examinations, the brick dismantlement situation by both dismantlement mechanisms and all mechanized construction system by remote control were confirmed, and the development of a basic system of the brick distinction dismantlement method was completed.

**Key words :** construction waste recycling law, incineration facilities dismantlement, distinction dismantlement, remote control, mechanized construction