

ELECTRIC MINI-EXCAVATOR

What the innovation is:

Michigan Concrete Sawing purchased one of the first electric mini-excavators in the country. This tool is similar to other mini-excavators you see on construction sites with the exception it is powered by an electric motor. The electric motor operates without creating fumes of any kind. It also is extremely quiet. The only noise it generates is the sound of the bucket as it moves through the material being excavated.

The excavator can dig to a depth of 60" and will out work a crew of 5-6 laborers.

Why is it innovative:

While excavators have gotten much smaller in recent years, this is the first tool powered by an electric motor. The construction workers who have seen this tool in operation have been amazed. One of the plumbers said, "that tool must have been invented by a plumber."

What has it changed or replaced:

This excavator is not designed to compete with larger excavators for outside work. It is designed for any job where carbon monoxide fumes would be a problem. It is ideal for excavations inside of hospitals, schools or the basements of any building. It eliminates the hazards created by use of internal combustion engines inside. Even when these tools are equipped with scrubbers they still consume a great deal of oxygen and can quickly deplete the oxygen supply.

Where and when it originated, has been used, and is expected to be used in the future:
The company we purchased this tool from imported several mini-excavators from Japan without engines. They did this with the intent of installing electric motors to power the hydraulics. Michigan Concrete Sawing and Ohio Concrete Sawing were among the first purchasers of this tool.

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ELECTRIC MINI-EXCAVATOR

**ELECTRIC POWERED
MINI EXCAVATOR**

Michigan Concrete Sawing is always looking for new ways to increase its value to customers. Recently, we purchased one of the first electric powered mini-excavators in



Operator driving unit through a 32" doorway. Note, electric cord instead of diesel exhaust.

the United States. The only difference between our electric mini-excavator and the diesel powered excavators is that our is powered with a 480 Volt electric motor. While it is not designed to compete with a larger excavator on outside work, this amazing tool is designed to make interior excavation much easier than digging by hand. **If your job requires interior excavation normally be done by hand this tool will save you time and \$\$\$\$\$\$\$\$.** The excavator fits through a 32" doorway and can dig 5' deep. It has over 2,000 lbs. of lifting capacity.

Many of our bigger trucks are now equipped with 480 volt, 3-phase generators. We use these generators to provide power for our electric slab saws. These electric saws have proven to be extremely valuable when we are working inside hospitals, shopping malls or areas congested with other construction workers. Our new excavator will plug into our trucks and not require any downtime waiting to be hooked up to 480 volt power.

On a recent job, we were told the excavator accomplished in one hour the same amount of work it would have



Electric excavator has ability to dig 5' deep.

taken two men a couple of days. The next time you are working inside a hospital, shopping mall or any tight area requiring excavation give Michigan Concrete a call for the excavation and the sawing if it is needed.