

CPWR/U. Cal Research Team Develops UNIVERSAL DRILL JIG

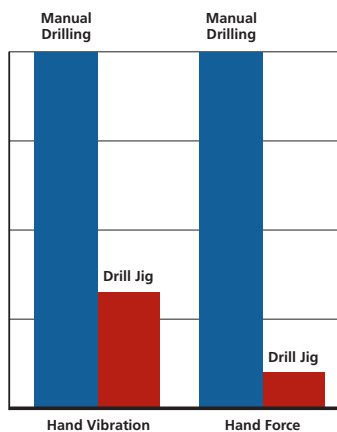
Tests show device makes drilling **FASTER and SAFER**

A University of California Ergonomics research team supported by CPWR — The Center for Construction Research and Training designed a drill jig to reduce fatigue, combat injuries, and limit exposure to silica. In field trials with participating contractors, they found that the rig increased worker productivity as well.



Visitors try out the Universal Drill Jig at World of Concrete

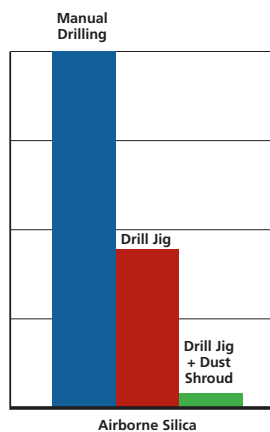
LESS FORCE AND VIBRATION



The jig reduced hand vibration by two-thirds and hand force need by 90%.

Source: UC Ergonomics

LESS AIRBORNE SILICA



The jig reduced airborne silica by 55% when used alone, and by 96% when used with optional dust shroud.

Source: Cooper et al., 2012, *Journal of Occupational and Environmental Hygiene*

MORE PRODUCTION

**"Amazing for productivity
— ballpark 3-4 x faster
hole drilling."**

— Thomas Burkland, Engineer, Warm Springs Constructors, Fremont, CA

**"We saved a lot of time
because the drill jig is
so easy and convenient
to use."**

— Charles Colley, Electrical Superintendent, Shimmick Construction, Oakland, CA

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Want to learn more about the universal drill rig—or see a demonstration?
Contact principal engineer Alan Barr at Alan.Barr@ucsf.edu