



WORLD
PREMIERE



— MIT-JOINT-FINDER

Identify and mark the correct centerline
for PCCP dowel bar joints

Marking the correct joint centerlines

Joint-cut marking across a row of dowels is influenced by many factors and often does not align with the actual dowel positions. Incorrect marking is a common cause of significant lateral dowel translation, which can reduce load-transfer efficiency across panels.

MIT-Joint-Finder determines and marks the correct centerline based on the actual dowel locations. Using an electromagnetic detection method, the device ensures reliable joint marking for accurate saw cuts.

Efficient joint layout workflow

In slipform paving with DBI, joint-cut marking is typically tied to dowel placement. Common errors include pin misalignment, trigger misadjustment, manual marking inaccuracies, curve geometry issues, and poor mark visibility.

Using measured dowel positions for the saw line decouples layout from DBI triggers and pin references while avoiding manual errors. This approach places joint layout closer to the cutting operation, creating a more coherent workflow and improving overall consistency.

Intuitive, simple and quick operation

The operator simply guides the device along the pavement edge. As the unit moves over the dowels at the ends of the joint line, it automatically detects their center and places precise marks within seconds.

This effortless process provides accurate reference points for snapping chalk lines that guide the saw during joint cutting.

Technical specifications

Detection accuracy	+/- 0.5 inches
Depth range	up to 8 inches
Spray yield	up to 1000 sprays per can
Display	LCD Color display (touchscreen)
Operating temperature	30° F to 120° F
Power supply	NiMH battery 9.6 V / 3.8 Ah
Battery life	8 hours
Recharge time	2 hours
Dimensions	Device: 19.7 in x 15.0 in x 6.3 in Carrying case: 26.4 in x 22.4 in x 9.8 in
Weight	Net weight: 11 lbs Gross weight: 27 lbs (including equipment case)

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