

iCON site Milling Pilot

Entry-level GNSS milling guidance



icon
intelligent CONstruction

KEY FEATURES OF iCON site MILLING PILOT

- GNSS-based milling machine guidance
- 2-step preview of set and cross slope values at predicted points, ahead of the current position
- Two options for data models (actual terrain model against terrain design or actual terrain against stringline design)
- Track, view and sync via Leica ConX
- Optional automated milling process

KEY BENEFITS OF iCON site MILLING PILOT

- Achieve a smoother base and avoid bumps due to 2-step preview (avoid copying-effect)
- Eliminate error-prone process of spraymarks
- Save time and money by avoiding over-cutting and the manual steps in site preparation
- Avoid over paving with accurate milling surface according to design model
- Improve job site planning and safety on site
- Well-established and easy-to-use iCON site software

Leica Geosystems' iCON site milling pilot is your first step into digitised GNSS milling. Control the precise cutting depth and gain from increased productivity, higher precision and smoother surfaces by moving away from traditional methods in the re-paving process. Forget about losses in milling quality resulting from vague or missing spraymarks. The iCON site milling pilot calculates the difference between the existing and the design surface at the cold planers' current position. In addition, set values at predicted points ahead of the current position are calculated and shown in the iCON control panel. The optional automatic milling pilot provides constant deviations to the machine interface, removing the need for manual inputs.

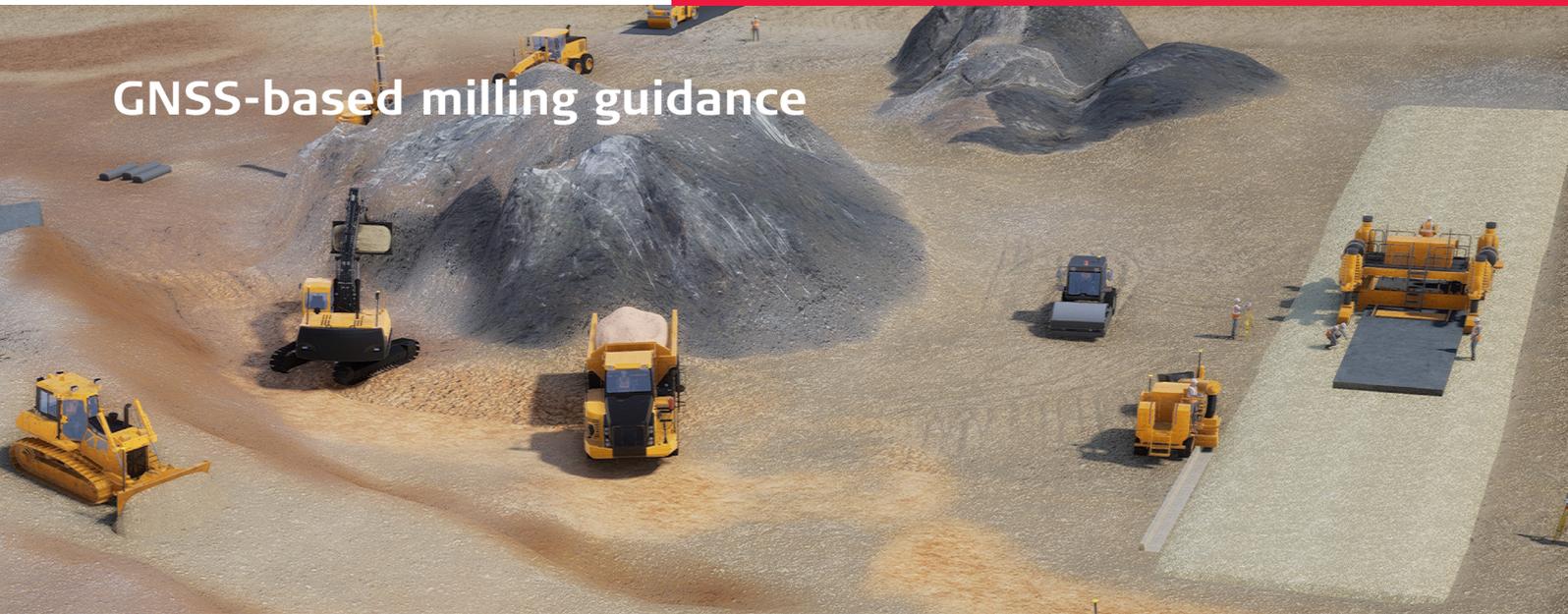
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- when it has to be **right**

Leica
Geosystems

GNSS-based milling guidance



Leica iCON site – Construction software

Leica iCON site software offers you smart and customised positioning solutions for road construction and civil engineering applications. Improve speed, performance and accuracy when you're enabled to carry out all positioning related tasks with just one easy-to-use software solution.

The Leica iCON portfolio is designed to efficiently connect the different tasks on construction sites. Integrating and connecting the office with the machines and the field increases site productivity and ensures high uptime on site. iCON site is the perfect add-on for machine operation, independent of 2D or 3D usage. With 2D, it provides the machine with the absolute position on site. With 3D, the same data is used in the field on the machine and in the office, increasing data quality and efficiency. As-built checks with iCON site supports all machine workflows on site.

iCON site Milling Pilot – Workflow:

PREPARATION

- Capture existing surface for digital road book
- Create reference model (design surface)
- Upload both files into Leica iCON site
- Configure machine settings
- Use single GNSS (Leica iCON gps 60 or Leica iCON gps 70(T)) for positioning sensor on cold planer

WORK PROCESS

- At x/y, iCON site calculates the set values on left/right side based on the differential surface
- Apply theoretical calculation values in levelling controller of cold planer manually
- The automated differential milling pilot takes away the need to enter the milling values manually.

QUALITY CONTROL

- Monitor project progress in real time via ConX
- Use ConX for remote support

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Leica iCON pave
milling



Leica iCON pave
asphalt paving



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concrete paving