

EXACT STREET ON - SITE

NEXT GENERATION OF 3D MILLING

a long-awaited breakthrough that turns any milling machine into a smart on-site tool for measuring, designing, and milling without 3D scanning or modeling.



PREPARATION

Simple one-man system.
Installed in **5 minutes**. One box only.

MILLING

- × **2-layer** selective milling
- × Smoothness optimization
- × Cross-slope precise correction
- × RAP volume planning

ENVIRONMENTAL

Meet EU Directive EN 13108-8:2016 **requires layer separation** for sustainable material recycling

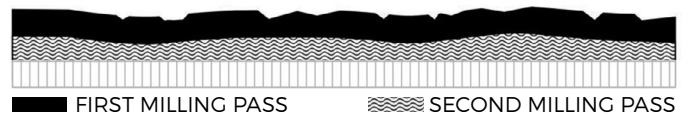
FROM YEARS TO WEEKS:

Smarter Tenders with ESOS

cuts preparation time from years to weeks by eliminating the need for separate tenders for 3D scanning, design, and technical preparation.



- × **MILLIMETER PRECISION**
- × **REAL-TIME CONTROL**
- × **FULLY AUTOMATED**
- × **FAST AND RELIABLE**



1



Milling 1 collects the milling machine and GPS data.
Material for recycling.

OptiMill cloud real-time adjustment, design and precise engineering.

2



Milling 2 uses GPS 3D differential milling and OptiMill data to ensure precision in every layer of the milling and paving process.

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CRITERIA	CONSTANT DEPTH MILLING	3D MILLING	EXACT STREET ON-SITE* (ES-OS)
1. TIME OF PROJECT PREPARATION	★★★	★	★★★
a) 3D Surface Survey	Not required	Required – high time demand ~1 month	Performed on-site during milling – instant
b) 3D Design Modeling	Not required	Required: 1-12 months	Automated on-site within hours or minutes
c) Procurement, Admin & Approvals	Minimal	Lengthy – standard public procurement 1-2 years	Shortened procurement cycle – 14 days
2. PROJECT PREPARATION COSTS	★★★	★	★★★
a) Direct Costs (Survey + Design)	Low	Very high	~ 20 % of regular cost of 3D milling due to automation
b) Indirect Costs (Administration of Public Tenders)	Low	High – personnel & time intensive	N/A function of milling machine
3. REPAIR QUALITY	★	★★★	★★★
a) Longitudinal Smoothness	Low	High	High
b) Cross Slope Accuracy	Low	High	High
c) Custom Repair Objectives (e.g., drainage, IRI)	Not possible	Yes – via manual design	Yes – real-time AI-based adjustment
4. MATERIAL SEPARATION FOR RECYCLING	★ No	★★ Not standard	★★★ 2-layer selective milling
5. AS-BUILT 3D REPORTING	★ Not available	★ Low accuracy	★★★ automatically generated**

* The development of Exact Street On-Site is proudly supported by the European Space Agency. Worldwide legally protected technology.

** ES-OS technology utilizes specialized algorithms that model the physical movement of the milling machine, developed in collaboration with mathematicians from the Czech Academy of Sciences.