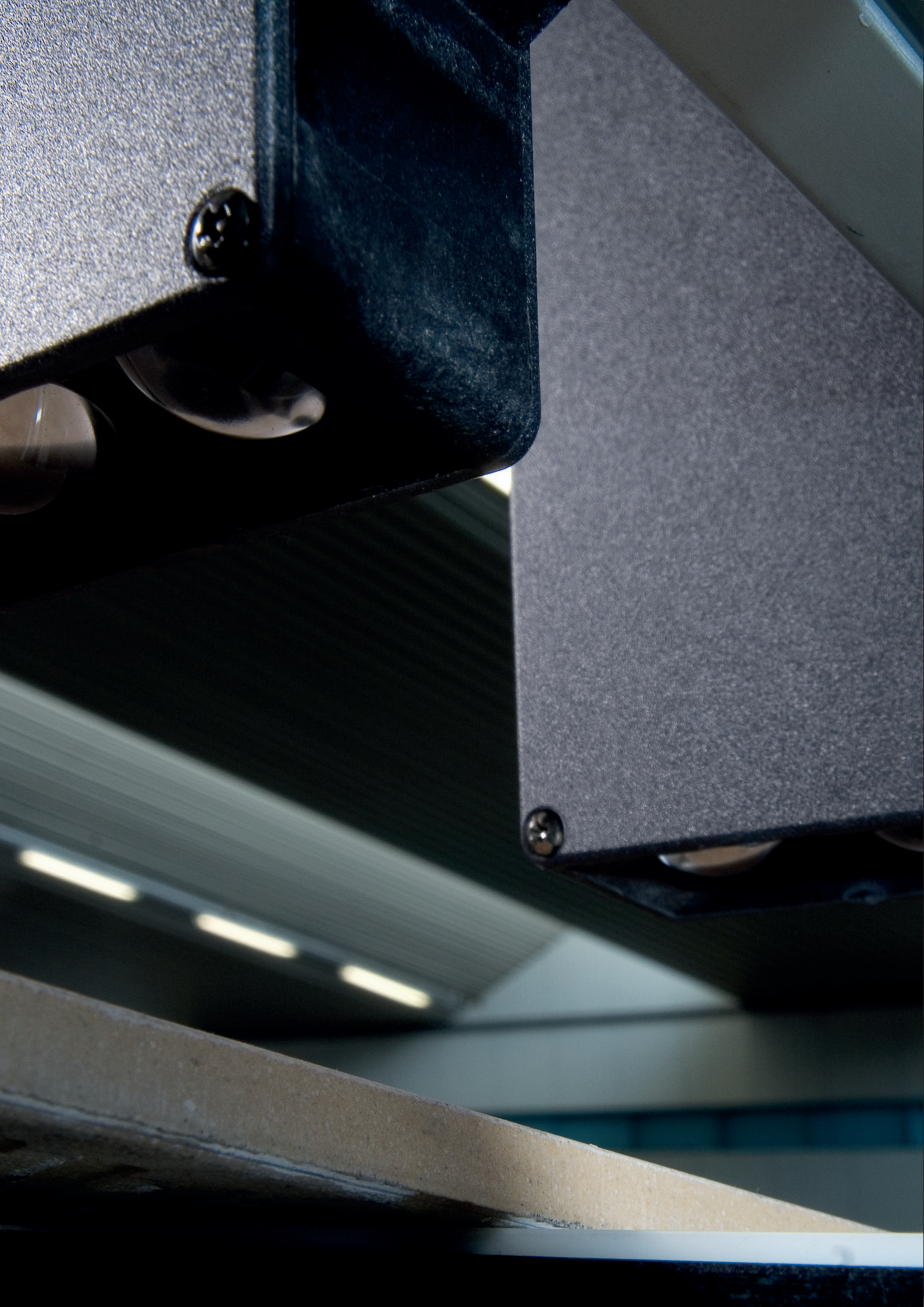




PLANAR





QUALITY CONTROL DEVICE

Planar is a **tool for detecting curve defects** in ceramic tiles.

The device consists of a **data acquisition unit** that detects flatness defects and a **processing unit** that assigns the tile to a certain class.



PRECISION OPTICAL SENSORS

Planar is a very precise piece of equipment: the reading of the tile occurs, in fact, **with a series of optical sensors** (5 or 9 depending on the size of the analyzed object), without any contact with the surface.

The analysis of different points of the tile leads to the creation of a **matrix**, and, therefore, to a comparison of parameters to decide how to classify the tile.



Calibration of the machine takes place with the use of a sample tile, thereby ensuring **precision of up to a tenth of a millimeter**.

4.0 DETECTION

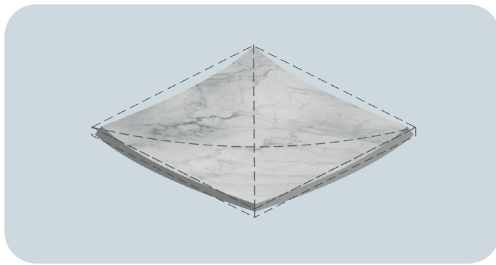
The Planar process can be integrated with all the technologies present on the line. It's a Hypermate-ready product, and therefore contributes to sending information to the platform for better tracking of product quality.

Planar is furnished with **electronics developed internally** by System Electronics.

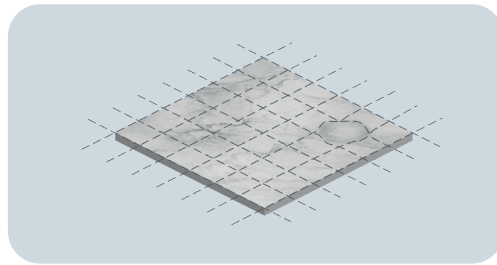


RECOGNITION AND CLASSIFICATION OF DEFECTS

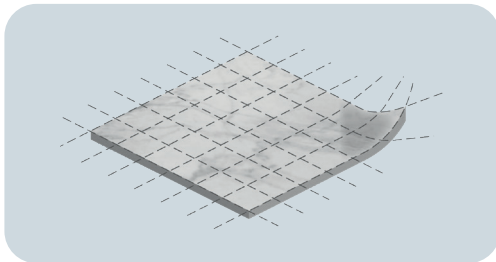
Planar recognizes and detects the following defects:



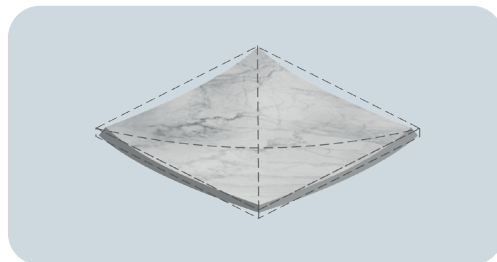
Concavity and Convexity



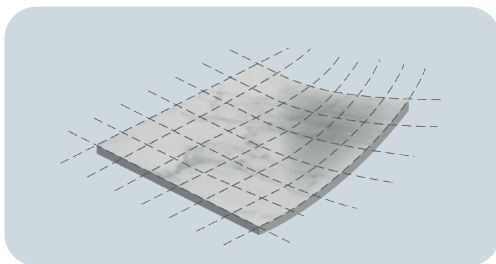
Local Defects



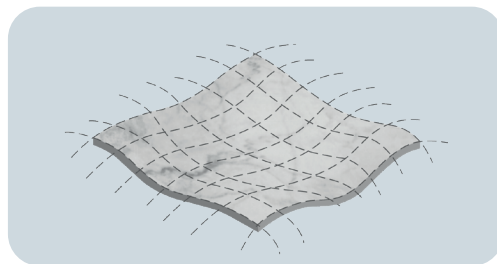
Corner flatness



Diagonal Concavity and Convexity



Warpage Effect



Deviation

TECH SPECS

Sensors	Optical Sensors	Up to 9
	Electronics	System Electronics
	Mapping by points	Precision up to a tenth of a millimeter

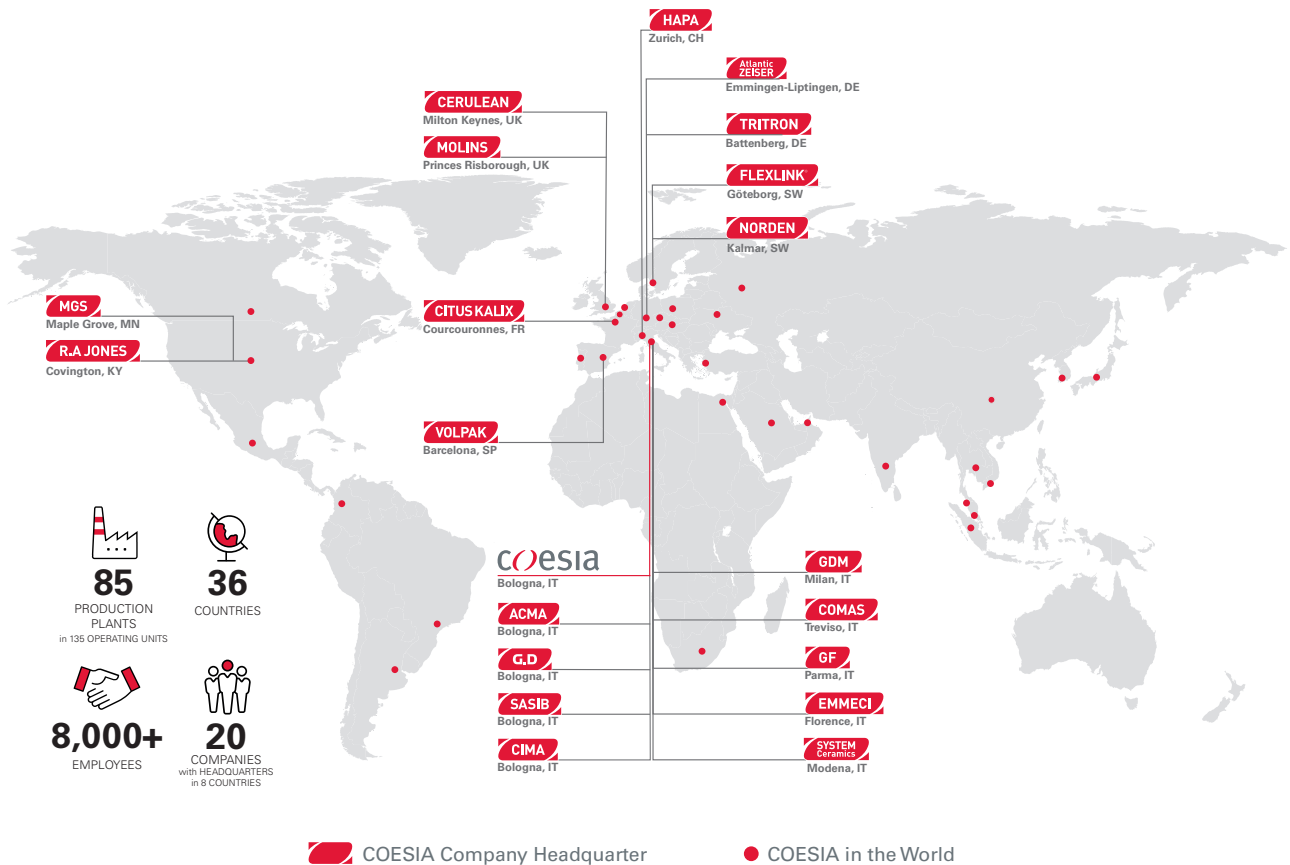
Product Features	Monitor	New 21-inch HD Wide Screen Copilot
	Format change	Automatic

Connectivity	Remote assistance connection kit	Integrable
	Hypermate	Integrable

Planar 600	
Surface reading dimensions	600 mm

Planar XXL	
Surface reading dimensions	1200 mm

COESIA GROUP IN THE WORLD



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- **Industrial process solutions**
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SYSTEM CERAMICS S.P.A.
Via Ghiarola Vecchia, 73
41042 Fiorano Modenese
(Modena) - Italy