

Fig.1 - Horizontal data-plucometro, usually used to measure dimensions according to legislation EN ISO 10545-2.



Fig.2 - Coordinate measuring machine (CMM)

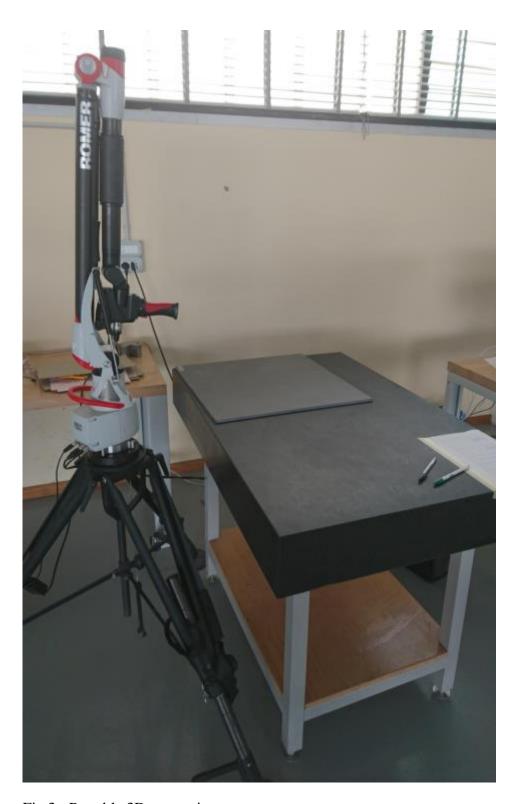
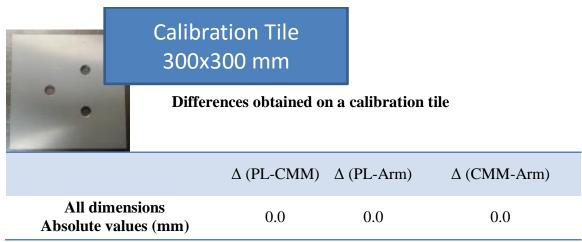


Fig.3 - Portable 3D measuring arm.

Max. difference for each dimension Tests carried out for each sample on three lots of 10 tiles

	Δ (PL-CMM)	Δ (PL-Arm)	Δ (CMM-Arm)
Length and width (%)	0.05	0.05	-0.05
Straightness of sides (%)	0.0	0.0	0.1
Rectangularity (%)	-0.3	-0.2	0.1
Centre curvature (%)	0.0	0.0	0.0
Edge curvature (%)	0.1	0.1	-0.1
Warpage (%)	-0.1	-0.1	0.0

Tab.1 - Maximum differences obtained with the three techniques employed – plucometro (PL), CMM and measuring arm. Dimensions determined according to EN ISO 10545-2 "Determination of dimensions and surface quality".



Tab.2 - Differences obtained with the three techniques on a calibration tile.

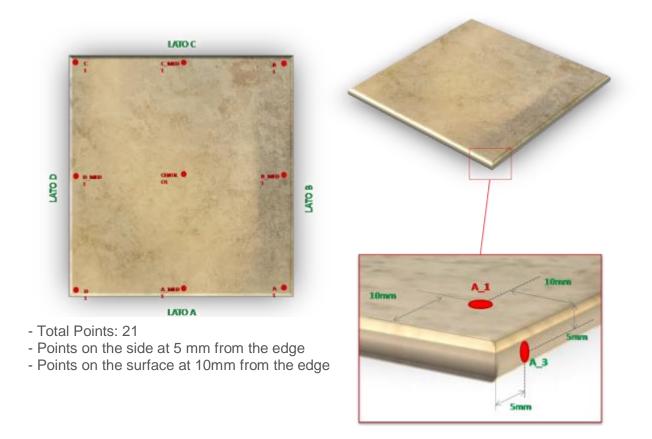


Fig.4 - Picture of the points considered when measuring out dimensions according to EN ISO 10545-2 regulation.