

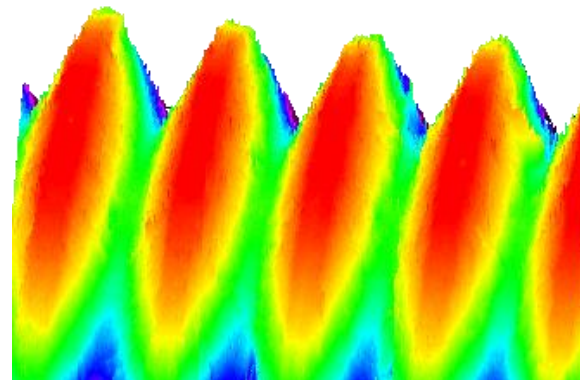


spotsurf
optical 3D profilometry

spotsurf

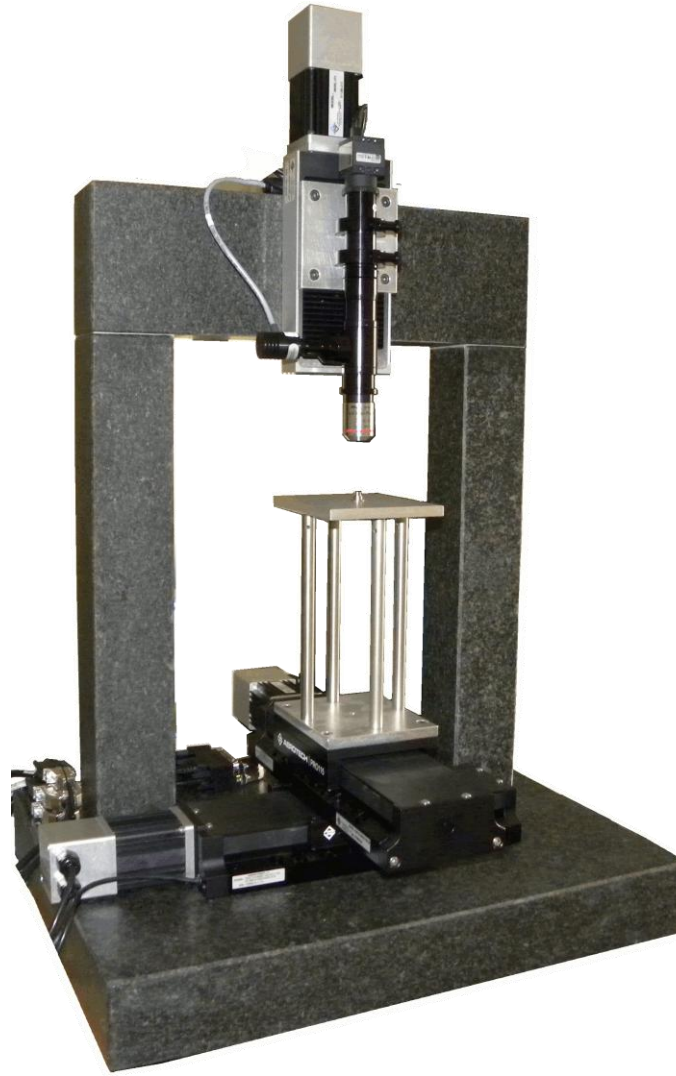
spotsurf is a CCD camera-based optical system for **3D dimensional measurement, surface analysis** and **characterization**

vertical scan together with high quality microscopy optics makes possible **3D shape measurement** with **microns resolution**



sample scan on an european coin and on a screw thread

spotsurf



applications

spotsurf is a must-have system for **quality control**, research laboratory and production spot test

spotsurf can successfully measure **every kind of material** with an appreciable **surface texture** (e.g. **machine tooling texture**)

spotsurf allows 3D **part reconstruction** for **shape analysis** and production **tolerance characterization** (using magnification up to 10X) and **surface roughness** (with magnification from 20X to 100X)

applications

Industrial applications:

- precision mechanics
- welding inspection
- dental and orthopedic prosthesys
- pharmacology
- electronics
- paper and press industry
- optics

pros

contactless and **non destructive** measurement

no part processing needed before measurement

easy to use and **ready to integrate** with other instruments

sub-micron resolution depending on microscopy objective choosed, therefore **tailor-made** on customer's needs. Objective turret available on request

technical features

	value
measuring principle	best focus
data output	STL, point cloud
maximum measurable part dimension (mm)	100x100x50
optical source	white LED
system dimension (mm)	565x470x700

technical features

objective	CFI60-5	CFI60-10	CFI60-20	CFI60-50
magnification	5x	10x	20x	50x
working distance (mm)	23.5	17.3	13	10.1
focus depth (um)	12.22	3.06	1.72	0.91
single frame measured area	950um X 714um	475um X 357um	237.5um X 178.5	95um X 71.4um

software user interface

powerful software for 3D complex part measurement

user-friendly and **easy to use** graphic interface

real-time part measurement control during scan

custom tool analysis available on request

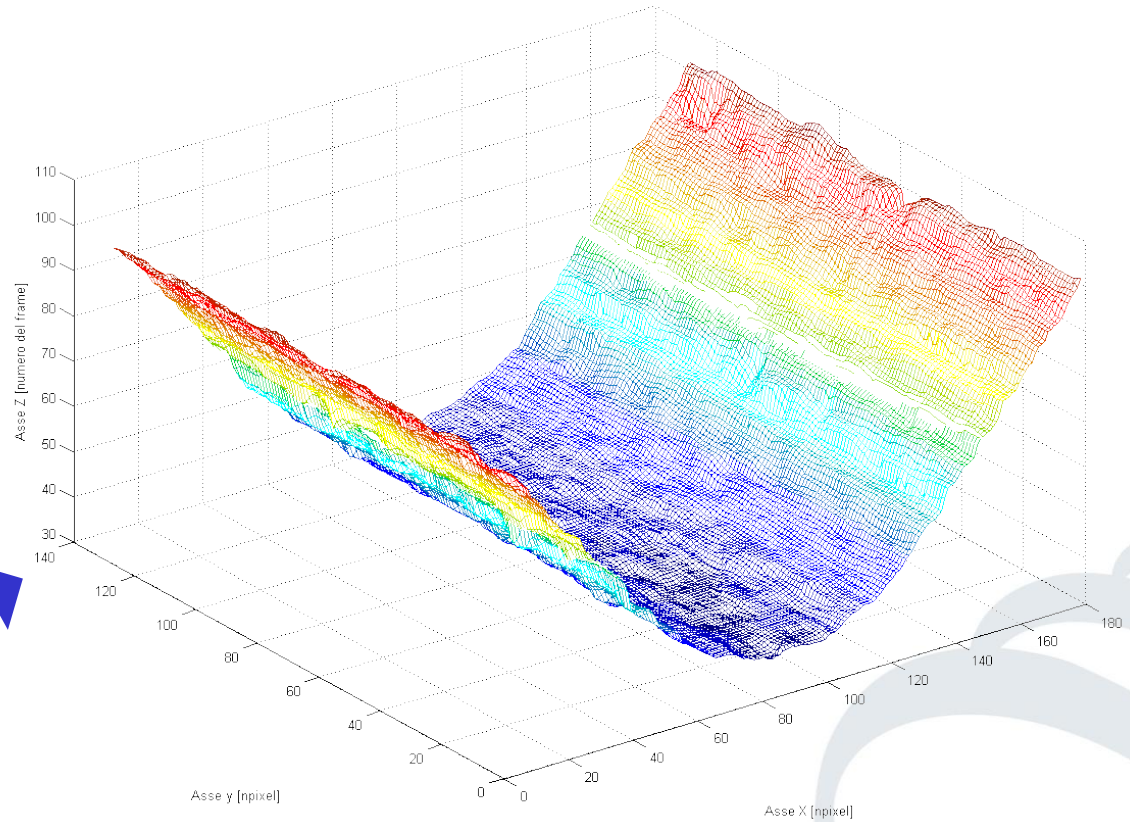
software direct driving of mechanical stages for x-y part positioning and movement during measurement

software user interface

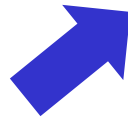
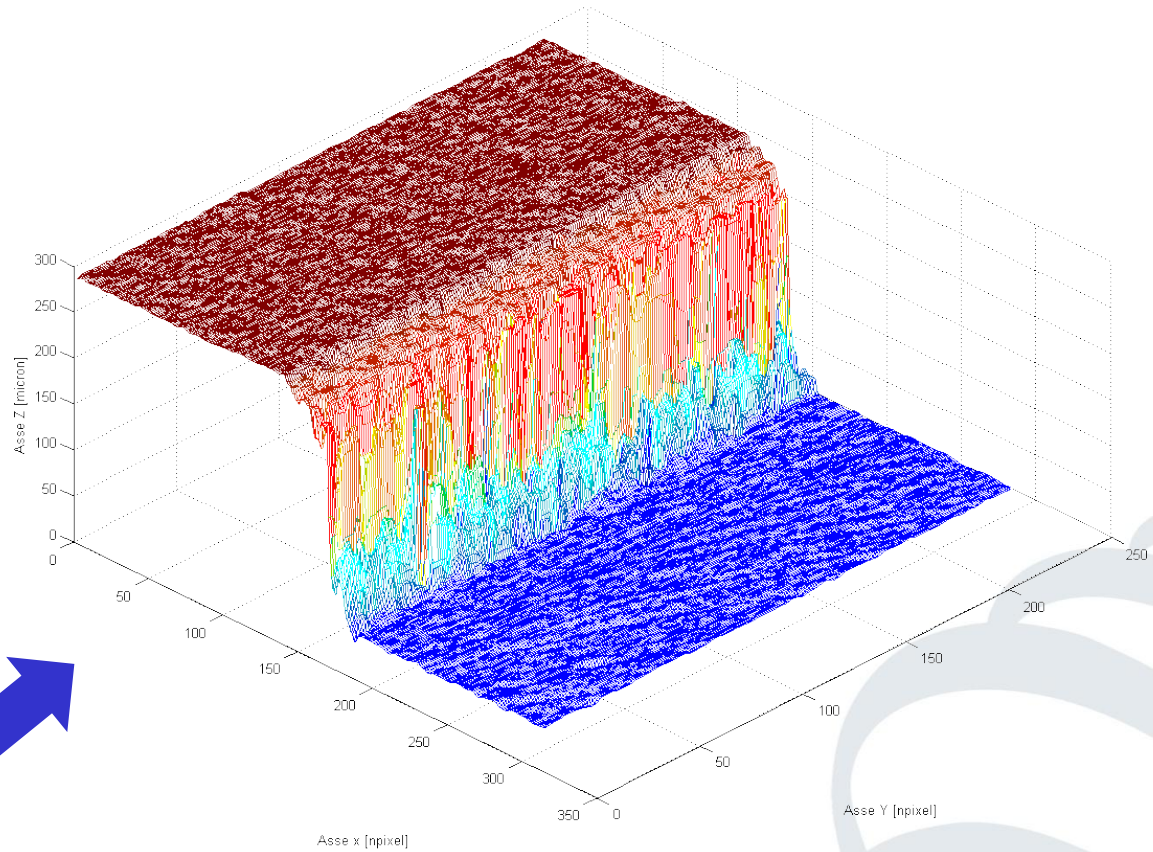


measurement example

single frame

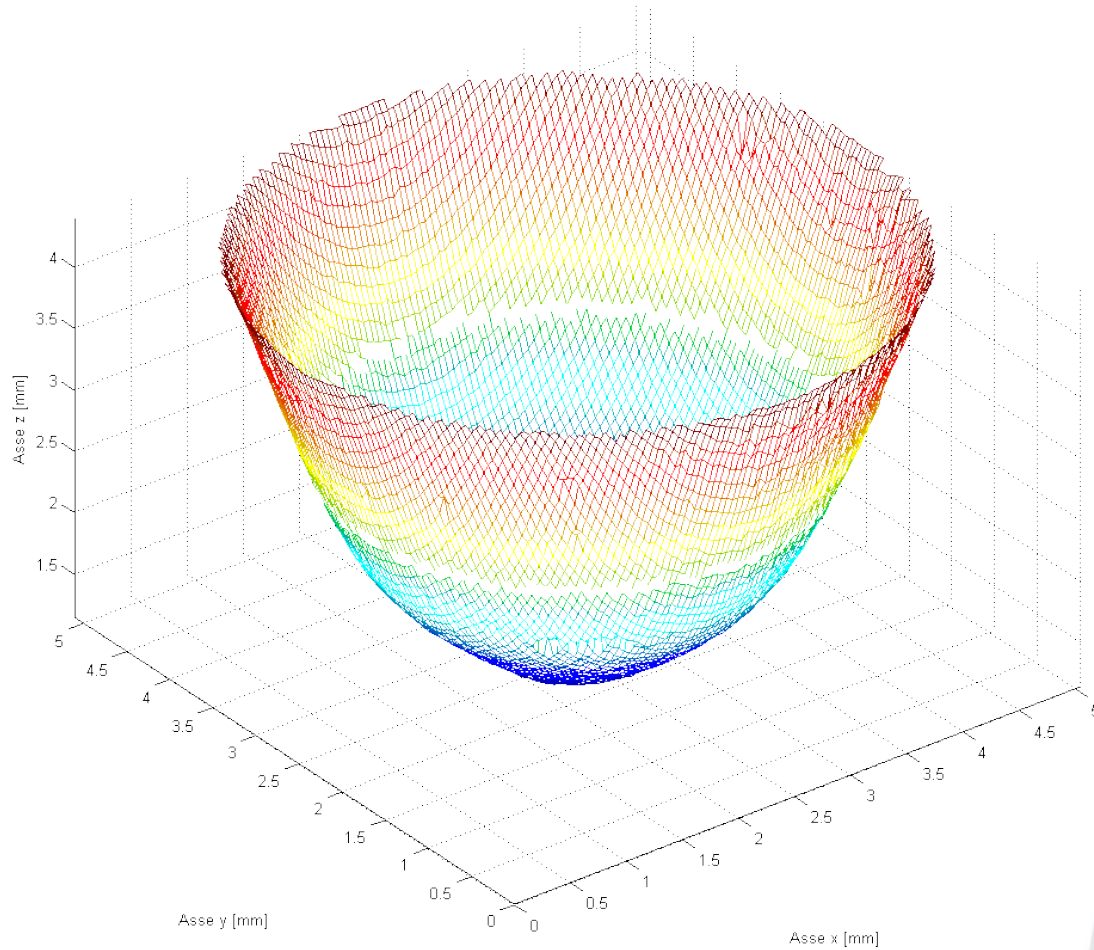


measurement example single frame



measurement example

complex object



contact us

for further information, field demo or free of charge test on your parts, please contact us



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