



Scorpion 3D Modeller

High Precision 3D Modelling using Structured Light

3D geometrical models are today important tools in product design, development and production. High competence and effective utilization of such tools can back up a continuation of production in countries with high cost of living.

A condition for the industry to develop the use of such tools is that methods exist to effectively measure and control the product's actual geometry.

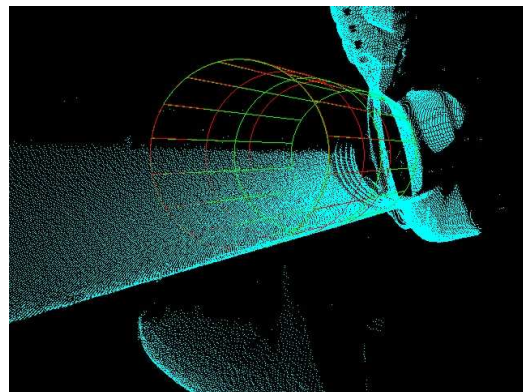
Traditionally mechanical measuring apparatus are used to read off object's geometry. These are however too slow and unsuited for automatic measurements in a production line.

The Scorpion 3D Modeller makes 3D technology available and applicable also for the smaller companies.

A flexible 3D camera is demonstrated based on structured light, low cost components as well as concepts and accompanying tools to specify and automatically process and extract requested geometrical measures.

The aim of this system is specifically random bin picking and three dimensional measurements. We target 100% product quality control and increased production volume.

The technology shall fill the gap between expensive and complex DAK systems and flexible 2D machine vision systems. This is obtained by making the utilization of 3D measurements possible for direct production line inspection and for use in product development.



Advanced cylinder fit in a point cloud from the Scorpion 3D Modeller.

The 3D modeller uses grey coding and phase shift (GCPS) techniques and is available as an option to Scorpion Vision software 6.0.

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