

# SKILLFUL ROBOTS FOR DIFFICULT TASKS

## Close Tolerance

Our **6D Force Control** Software is used in robotic precision assembly, in robotic quality control, in any robotic process with multiple simultaneous contacts. Our solutions provide the required **quality, precision, speed and traceability**.

## 3D Localisation

Our **robust and sub-mm accurate, full 3D localisation Vision Control** Software is used in robotic applications such as robots working in **harsh** environments or robots performing **precise** parts handling even without camera supervision

## Real-Time Surface Treatment

Our **Real-Time Control** Software is used for **fast and accurate** surface treatment applications like coating removal of cheese blocks. The robot adapts **on-line** the height and orientation of the tool it is manipulating to the shape of the surface. With our software it is no longer required to make a 3D model of the workpiece before the robot starts processing the surface.



Robotic  
sub-mm  
Spline  
Quality Control

## Your Competitive Advantages with FRS Applications :

Robustness,  
sub-mm Accuracy,  
Cost-Efficiency,  
Real-Time.

## About us

We are a high-tech innovator and a supplier of high-performance robotic solutions.

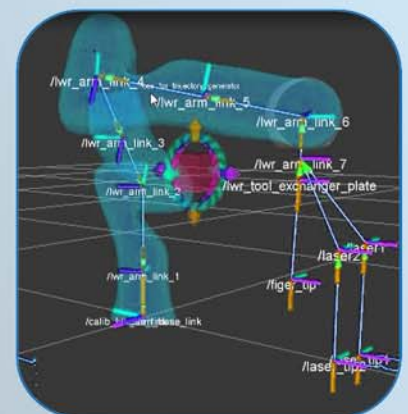
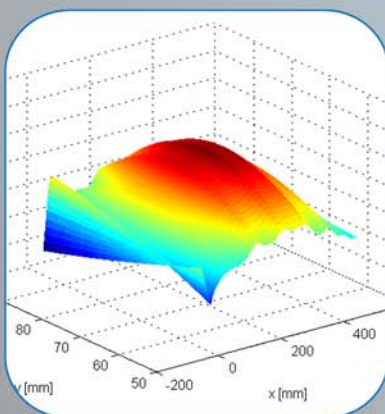
With roots in the University of Leuven (KU Leuven, Belgium), Flexible Robotic Solutions has 35+ years of experience in robotics and advanced sensor-based robot control software. We rely on an extensive library of software modules which we will use to realise your application.

Flexible Robotic Solutions is a team of experienced engineers with a passion for robotics and software. We focus on human-centered automation of complex processes. We have a special interest in safe human-robot shared workplaces.

We develop advanced robotic software for industrial automation including the food industry. We love robotic challenges. We offer robotic solutions for automated close tolerance operations, treatment of variable product geometries, object manipulation in uncertain locations,....

Let our technology inspire you !

## Example: Real-Time Surface Treatment



## One of our references

A customer in the manufacturing industry asked us for a robotic solution for very precise object pick-up (< 1mm) and which compensates for variances in relative position and orientation of the object with respect to the pick-up system. Crucial is the adaptive capability to adjust robustly, accurately and fast to these position variances. Using our "3D Vision Application" we delivered a compliant cost-efficient solution with succes rate of > 99.99% !

## Contact Info



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