

Case story:



SGM Light in Aarhus, Denmark has now been using Kelvin Tool Changer at the production for more than 18 months



SGM Lights use a UR5 robot for assembling front panels for their spotlights.

With the tool changer the robot switches between dispensing glue and sealing. With a vacuum gripper the robot also mount glass sheets in the frames. One robot - 3 tasks!

Get started:

The basic Kelvin Tool Changer set consist of a Master Plate (robot arm), two Tool Plates (tools) and two Docking Stations.



The tool changer comes with a free demonstration program for Universal Robots. This demo program is prepared for tools in 4 docking stations.

This is all you need to run your robot with two tools. An upgrade with one additional tool (Tool Plate and Docking Station) only adds approx. 20% to the price of a basic set.



Get a quote or more information:
<https://www.toolchanger.eu/sales.htm>

KELVIN

Kelvin Tool Changer



Automatic tool changer for small collaborative robots

4TECH
Robotics Aps

Future:

Robots for low volume / high mix production must be very flexible to make small batch productions profitable in the future

Robots will be used in close cooperation with operators and the robots must be safe

Collaborative robots are safe and easy to use. To make them flexible we have developed a device that will let a cobot automatically switch from one tool to another

Kelvin Tool Changer is designed specific for collaborative use and is aiming at the marked for automatization of manual production



The tool is hold in position by a unique coupling with steel balls. This ultra-precise connection gives the tool changer an extreme high repeatability

This constrain was first described by Lord Kelvin, hence the name: **Kelvin Tool Changer**

Kelvin Tool Changer is designed for the small robots from Universal Robots but it can also be used on other robot arms

The Kelvin Tool Changer is here mounted on an ABB robot by use of the new 4TECH Adapter Flange. This 3D printed flange has a build in socket for electric power and signals



The robot can be programmed to change between tools. Tools are parked in docking stations. Manual operation is also possible



The tool changer is designed for payload <1 kg
Kelvin Tool Changer is protected by patent:
DK 179744 B1 WO 2019/080977 A1

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