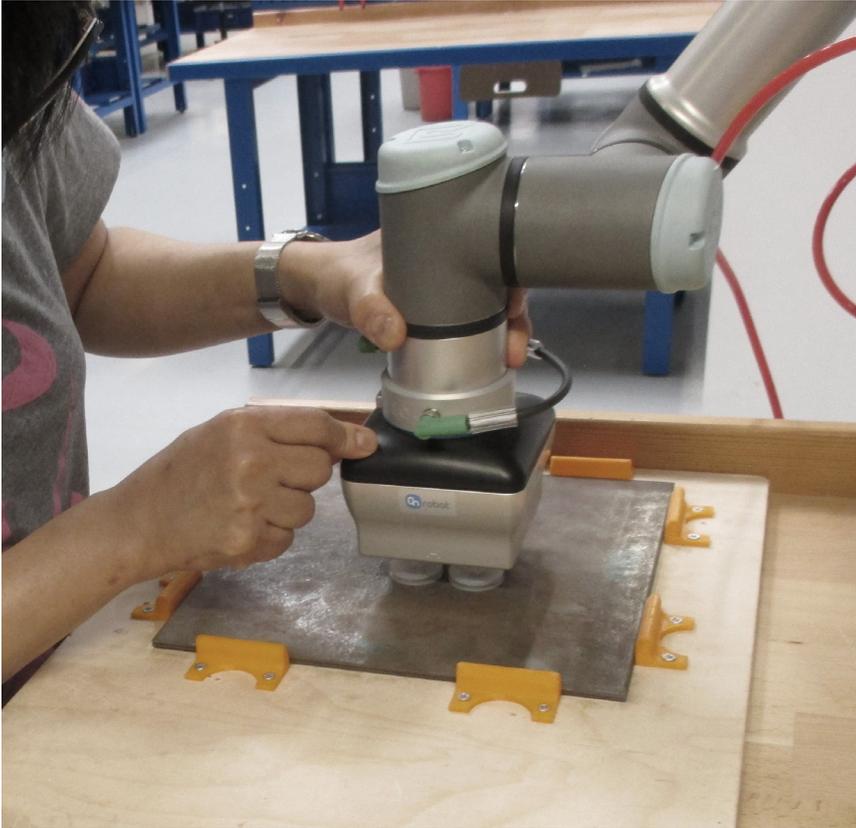


INTELLIGENT ROBOTS MOVE INTO CLASSROOM IN WESTERN JUTLAND



Eudcation Centre RingkøbingSkjern (UCRS) plays a crucial role in educating young people in collaboration with local companies and other educational institutions in Western Jutland.

Among the educations that UCRS is behind is the 2-year assembly operator education. Originally, the training was aimed at companies in the wind industry. The education has been gradually expanded, and today it embraces subjects such as electricity, hydraulics, air, 3d printing and last but not least robot control, so it also qualifies for a wide range of other industries.

Collaborative Robots

Raise the bar

UCRS

As part of its goal of educating for the present and future labor market, UCRS is committed to making robot technology a central part of the teaching offer: this applies especially in the field of assembly operator training. Students must experience and try out the equipment they will encounter in the job market.

UCRS currently has a total of nine robots at its disposal - i.a. five collaborative robots from Universal Robots.

“ Among other things, the young people must program the cobot to hold a permanent marker and have it draw circles, ellipses and write messages on the board. Both hearts and sentences like “Friday beer now” have come out of it. “

Dieter Meyer, Subject Teacher UCRS

“ When students collaborate in small groups to program a solution so they can lift their own cell phone, they become extra aware that it should work well. Cobots combine curiosity and games, and we clearly feel that the young people finds interest in trying these possibilities. They find it fascinating, and once they get started, it spreads quickly. “

Dieter Meyer, Subject Teacher UCRS



THE SOLUTION

In order for a robot arm to be able to create results, it must have a hand - the so-called replaceable grippers. UCRS has invested in professional grippers from Danish company OnRobot.

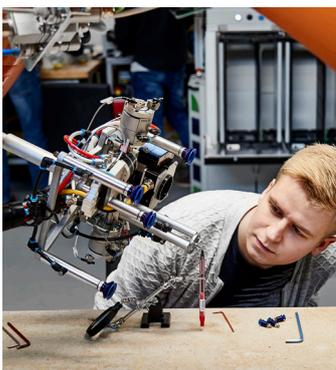
The grippers from OnRobot function like a regular hand with fingers that open and close, and OnRobot's grippers contain technology that can sense exactly how tight it must hold on various items. This ensures that the item is handled gently and that it is not damaged.

UCRS has also purchased vacuum grippers from OnRobot. Vacuum grippers use air pressure to handle objects that cannot be held between fingers. The suction cups make it easy and simple to move around flat objects such as circuit boards or mobile phones.

FLEXIBLE LEARNING WITH HIGH COMMITMENT

UCRS' goal of introducing young people to intelligent robot technology does not stop with the latest purchase.

The goal is to reach 10 robots in a short time, and UCRS has, among other things, a desire to introduce mobile robots for young people next year.



UCRS' BENEFITS

Overall, students now have much more flexible learning opportunities. Dieter Meyer has a professional background from the world of manufacturing, and he knows everything about how automation can create new results and create fascination. He is not worried about whether the young people will learn to handle the equipment. The young people learn to master all the functions on which they can move on to the next step.

“ It is quick to change the grippers, and by adding a camera to the grippers and the robot arms, the robot now has vision. Thus, the robot can really make a difference when students need to program it to pick up, move and place their own cell phones. “

Dieter Meyer, Subject Teacher UCRS