Master thesis proposal

**Operational effects of movable robots**

**Background**

Movable industrial robots is a future technology with potential to both improve competitiveness and social sustainability in the Swedish manufacturing industry. The new technology is a mean to handle production in low volume series and with high variety. This is the reality for a large share of the industry in Sweden.

**Research project**

A research project called LoHi Swedprod has been set up to adress the implementation of movable robots in industry, more specifically robots from the Swedish company OpiFlex. The project is financed by the strategic research program Produktion2030. One part of the project considers the performance effects of the new technology.

**Task**

The task for the master thesis project is to follow up and study the effect of the implementation of OpiFlex robots at two different companies, WM-press in Helsingborg and BK-produkter in Alvesta. The effects in terms how it has changed the production system and the system performance in terms of cost, capacity, speed, reliability, quality etc. The operators’ view will be important and how the robots have affected the work environment. The students will start by learning the technology from OpiFlex in Västerås.

**Practicalities**

At least one of the students need to have a driving licence in order to get to the factories for the field studies. The project will cover the transportation costs.

**Contact**

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