

AnaKConda Universal lifting device

KONECRANES[®]
Lifting Businesses[™]



Background

- No matter how advanced the technology is or how powerful the functions are, cranes with traditional hooks cannot realize fully automatic operation for their reliance on manual attaching and detaching hooks.
- We have one promising idea as an universal gripper



Feed idea:

ANAKONDA UNIVERSAL GRIPPER™

2

SNAKE ARM
ROBOT WITH
SENSORS
IDENTIFIES THE
OBJECT
DIMENSIONS



INTELLIGENT
SNAKE ARM
FINDS THE BEST
GRIP OF THE
OBJECT



SNAKE ARM
ROBOT
TIGHTENS THE
"KNOT".



TECHNOLOGY



<https://phys.org/news/2013-03-robot-snake-automatically-thrown-video.html>

NATURE



Requirements and expectations

Design and prototype a “Anakonda” universal lifting device which can be attached to various size and shape of loads.

Requirements

(MUST) Mechanism cannot make damage for the load

(MUST) Adjustable for different sizes and shapes of load (at least 3 different objects)

(MUST) Low cost

Deliverables

Installed working prototype in Aalto Ilmatar

Short introduction video of the device

Final presentation (Power Point)