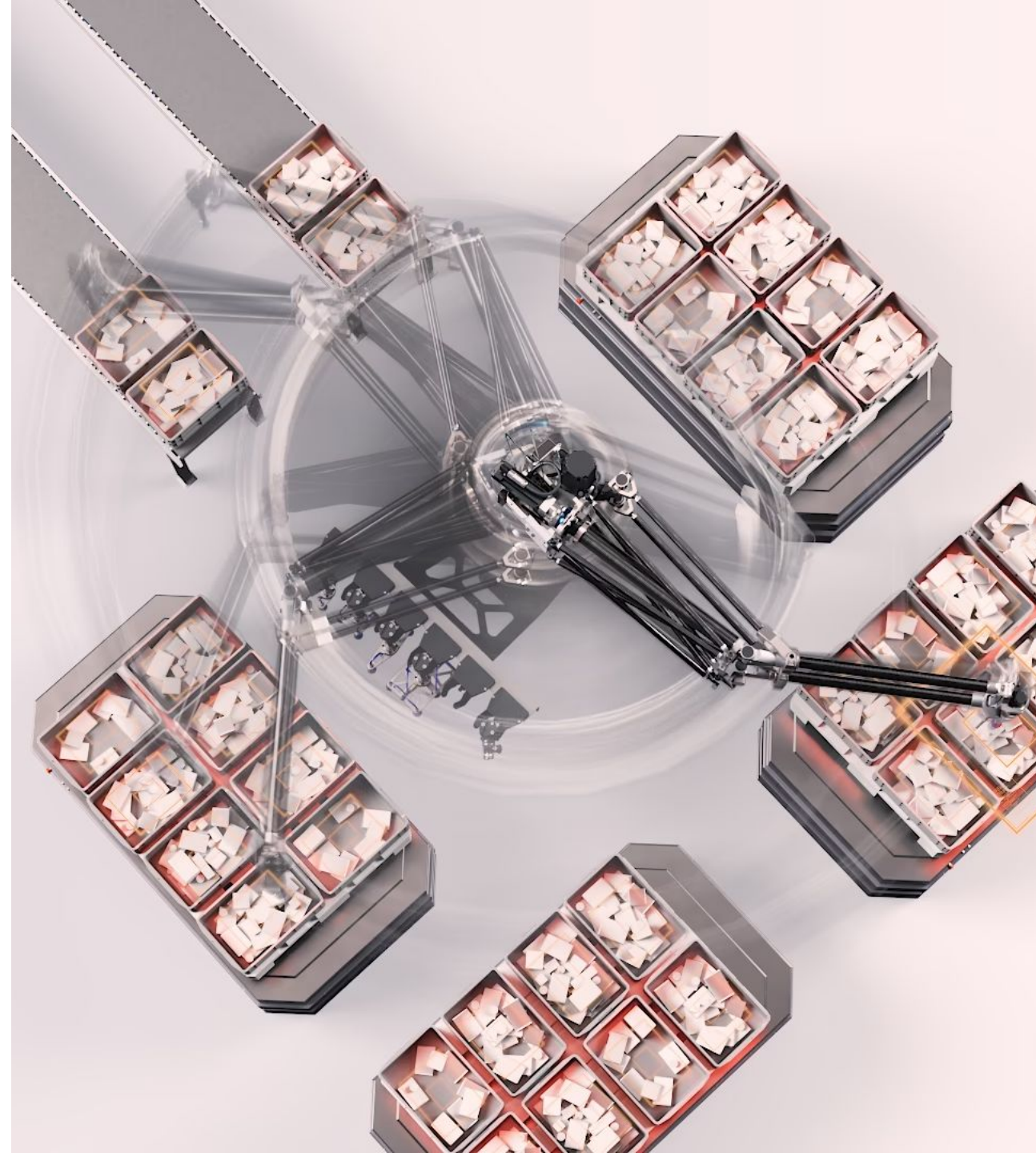
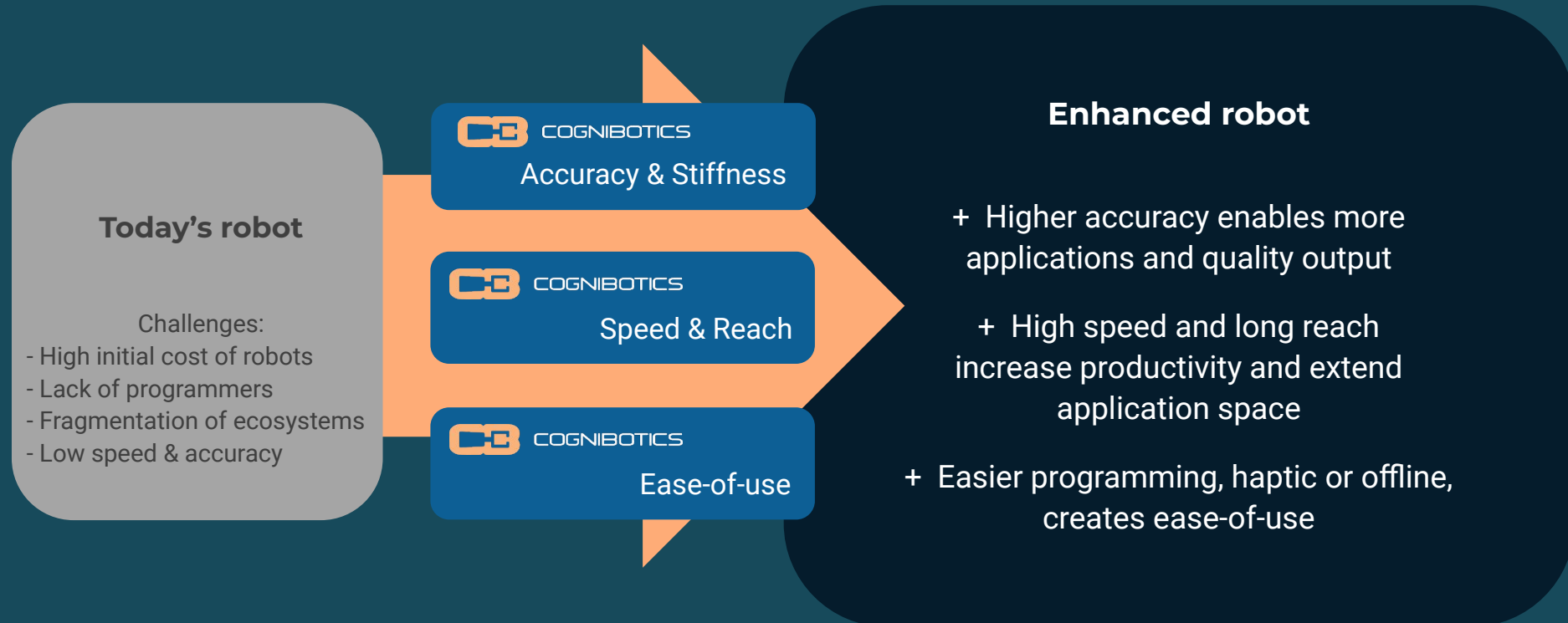


COGNIBOTICS

- Founded in 2013
- Spin-off from Robot Lab
- ~40 employees
- Ideon Alfa, M-House
- Motion control, calibration, robot language
- Making robots better!



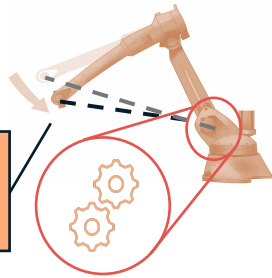
Making robots more productive



A new class of performance robotics

Motion Precision

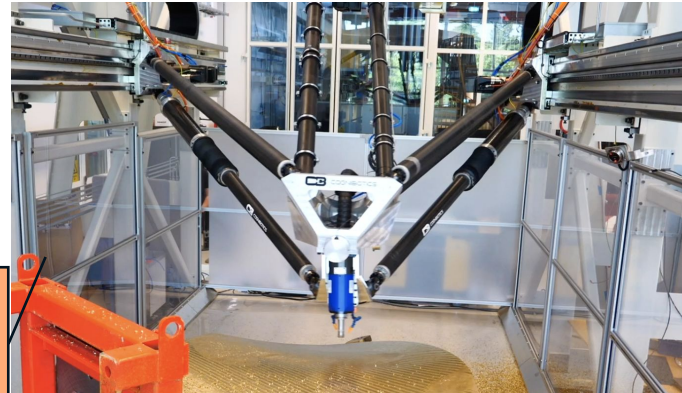
Increase Productivity by Accuracy, control software for robot-calibration and motion compensation



Accuracy
Ease-of-Use

SigmaTau

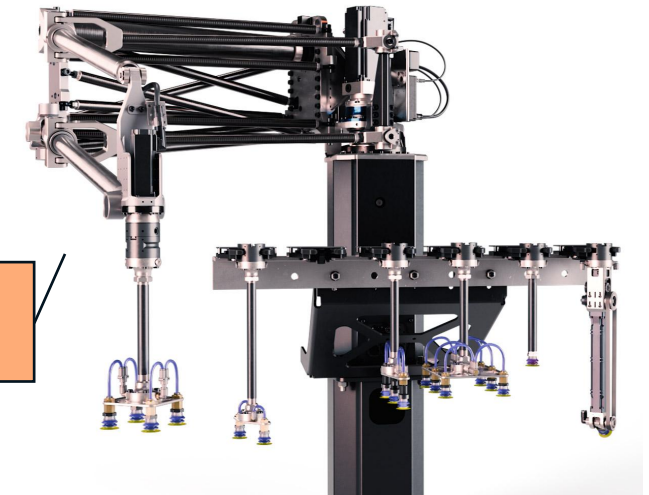
Lightweight robot system for high-speed machining and welding of large workpieces



Reach
Stiffness
Accuracy

HKM 1800

Long-reach pick-and-place robot for warehousing, logistics and machine tending



Reach
Speed

System Products

Software-defined robot, next generation of real time motion control, programming, and robot performance.

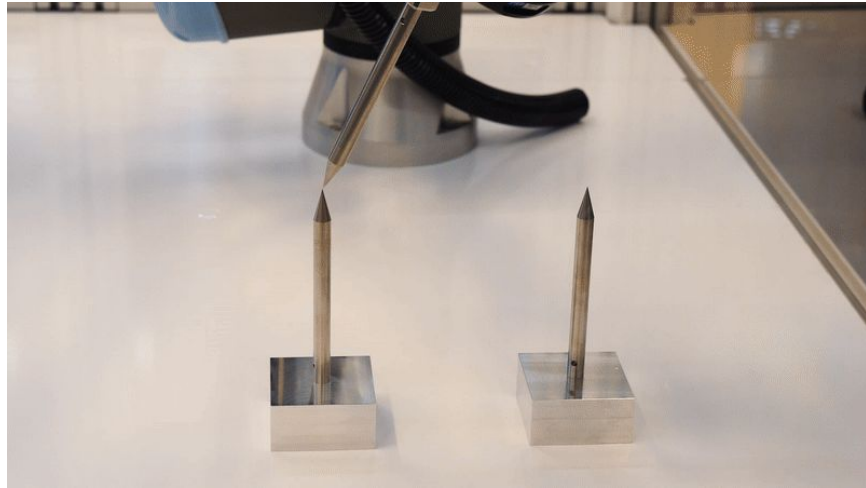
Common scalable motion platforms



Ease-of-Use

A new class of performance robotics

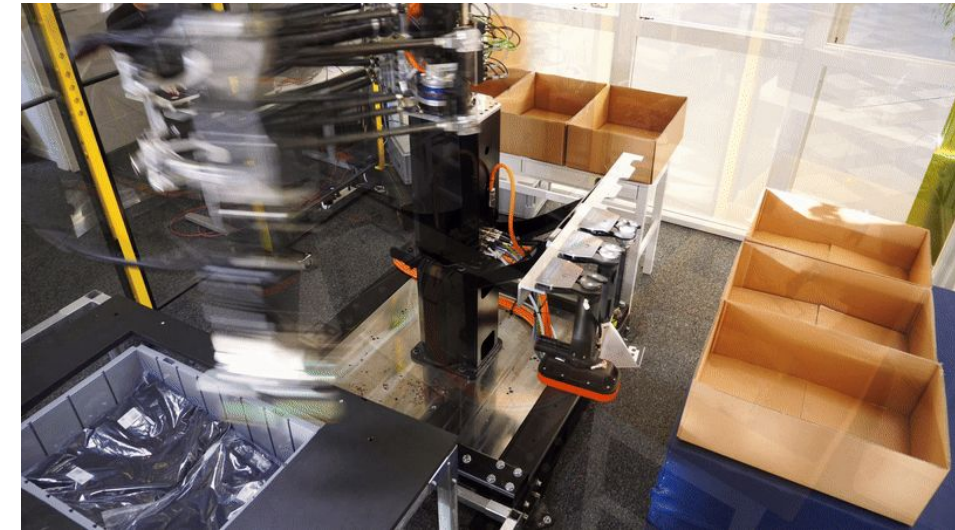
Motion Precision



SigmaTau

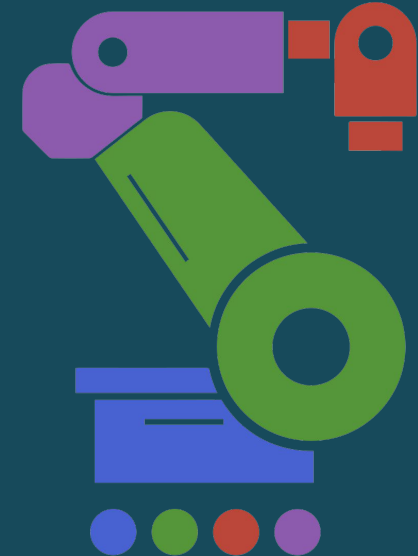


HKM 1800



Juliet & Romeo

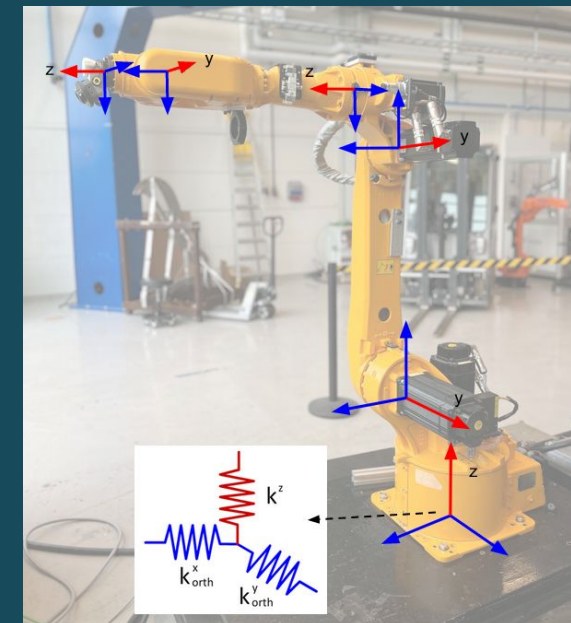
- Juliet
- Syntactically and conceptually similar to
- Robot programming
- Real-time capable
- Memory safe
- Compiles to bytecode
- RVM - Romeo Virtual Machine



Master thesis

Past thesis subjects

- Building dense reconstructions with SLAM and Spot
- Automation of marking tasks at MAX IV using Spot
- Input shaping as a vibration damping method
- Anomaly detection for HKM robot using Machine Learning
- Optimization of object placement using constraint programming
- Event driven automation with Juliet



Master thesis

Potential subjects

- Alternative architecture for a Motion kernel
- Harden code loader for the Romeo Virtual Machine
- Automatic logging and analysis of robot test cycles
- Optimizing pick and place behavior using ML
- Your interests!

Interested in master thesis, summer work or full-time work?

Contact us!

- ola.nilsson@cognibotics.com
- olle.hedbrant@cognibotics.com
- klas@cognibotics.com

Thank You!

