

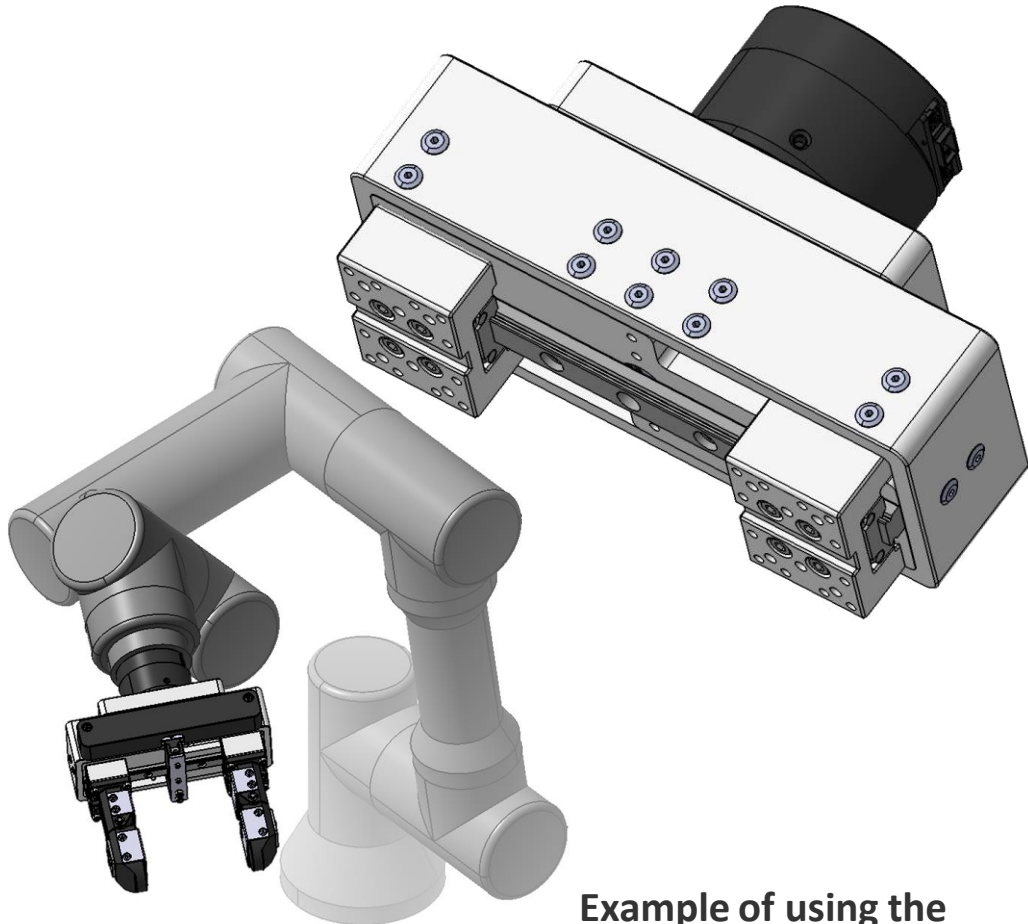
Adaptive Gripper, powered by AI

NSK

Human-Like Gripping with “Force Control & AI”

New Products

Early Prototype



Example of using the gripper as an end effector

Features

- ✓ Friction Prediction and Force Control for Human-Like Gripping
- ✓ AI-Based Grip Control
- ✓ Securely Grips a Wide Range of Objects

Why NSK ?

- ✓ NSK's precision bearings and linear guides ensure highly accurate gripping performance
- ✓ NSK's advanced tribology technology enables precise friction prediction and feedback to the control system

Adaptive Gripper, powered by AI

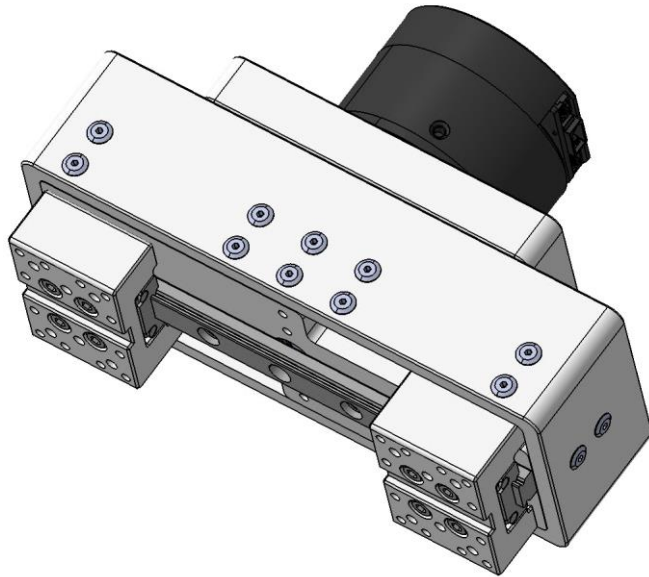


Force Sensorless Technology

Predicts fingertip force without any force sensors.

Accurately controls gripping force without sensors.

Rated force: 65 N | Maximum: 210 N.



Adaptive Force Control

Using bilateral control with a speed reduction mechanism, the AI learns human gripping patterns to achieve adaptive force control.

