

Software manual

Plug & Work portfolio for Doosan Robotics

SCHUNK software module for WCI (work cell item)

Superior Clamping and Gripping



Imprint

Copyright:

This manual is protected by copyright. The author is SCHUNK GmbH & Co. KG. All rights reserved.

Technical changes:

We reserve the right to make alterations for the purpose of technical improvement.

Document number: 1464859

Version: 02.00 | 06/05/2021 | en

Dear Customer,

thank you for trusting our products and our family-owned company, the leading technology supplier of robots and production machines.

Our team is always available to answer any questions on this product and other solutions. Ask us questions and challenge us. We will find a solution!

Best regards,

Your SCHUNK team

Customer Management

Tel. +49-7133-103-2503

Fax +49-7133-103-2189

cmg@de.schunk.com



Please read the operating manual in full and keep it close to the product.

Table of Contents

1 General..... 4

1.1 About this manual 4

1.2 Symbol definition 4

1.3 Applicable documents 4

2 Install software component 5

3 Configure the software component..... 7

4 Inserting the functions into the program code 10

1 General

1.1 About this manual

This manual contains information on the SCHUNK software plugin for Doosan robots and its use in "WCI – work item cell".

The plugin enables the simple integration and control of the following products in Doosan applications:

- Co-act EGP-C 40-N-N-M1013
- Co-act EGP-C 64-N-N-M1013
- EOA-DRM-EGP 40
- EOA-DRM-KGG 100-80
- EOA-DRM-PSH 22-1
- EOA-DRM-JGP 80-1
- EOA-DRM-JGP 100-1
- EOA-DRM-PGN plus-P 80-1
- EOA-DRM-PGN plus-P 100-1
- EOA-DRM-PZN-plus 64-1

Illustrations in this manual are provided for basic understanding and may differ from the actual product design.

In addition to these instructions, the documents listed under [Applicable documents](#) [► 4] are applicable.

1.2 Symbol definition

The following symbols are used in this manual:

- Prerequisite for an action

1. Action 1
2. Action 2

✓ Intermediate results

✓ Final results

[► 4] Page number in references

1.3 Applicable documents

- Assembly and operating manual for the product *
- Operating manual of the Doosan robot

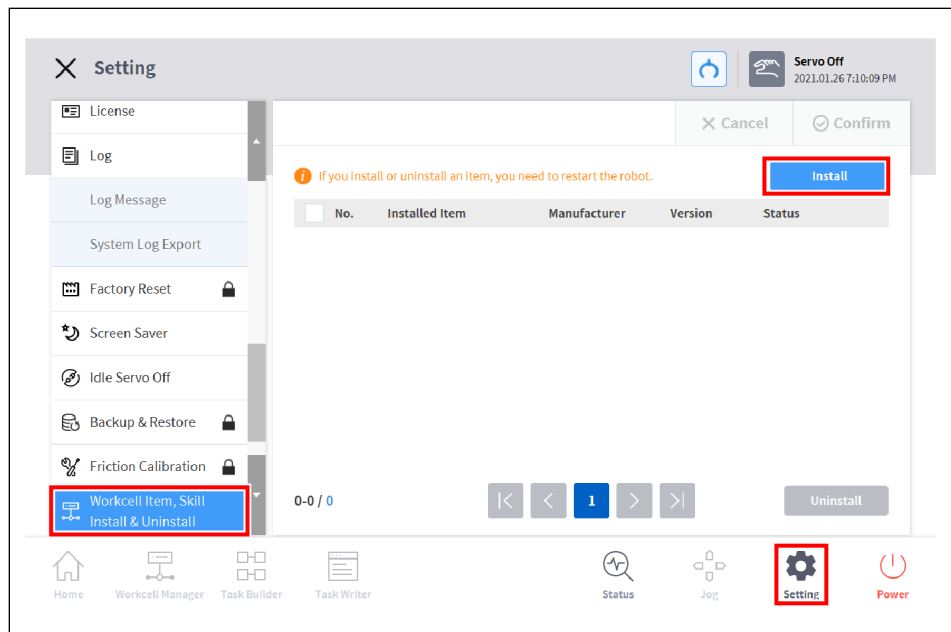
The documents marked with an asterisk (*) can be downloaded on our homepage **[schunk.com](https://www.schunk.com)**

2 Install software component

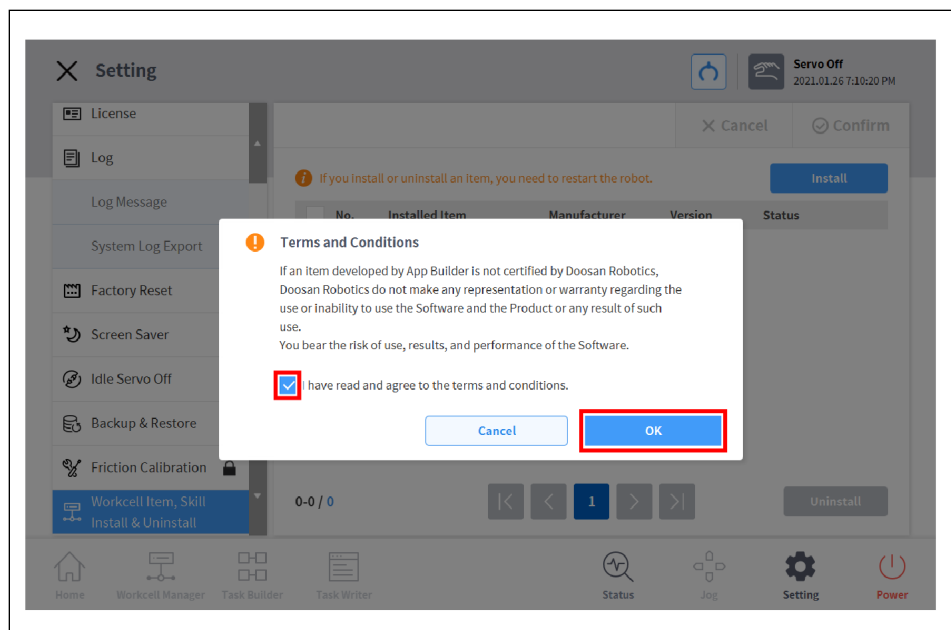
NOTE

To install the software, use the enclosed USB stick.

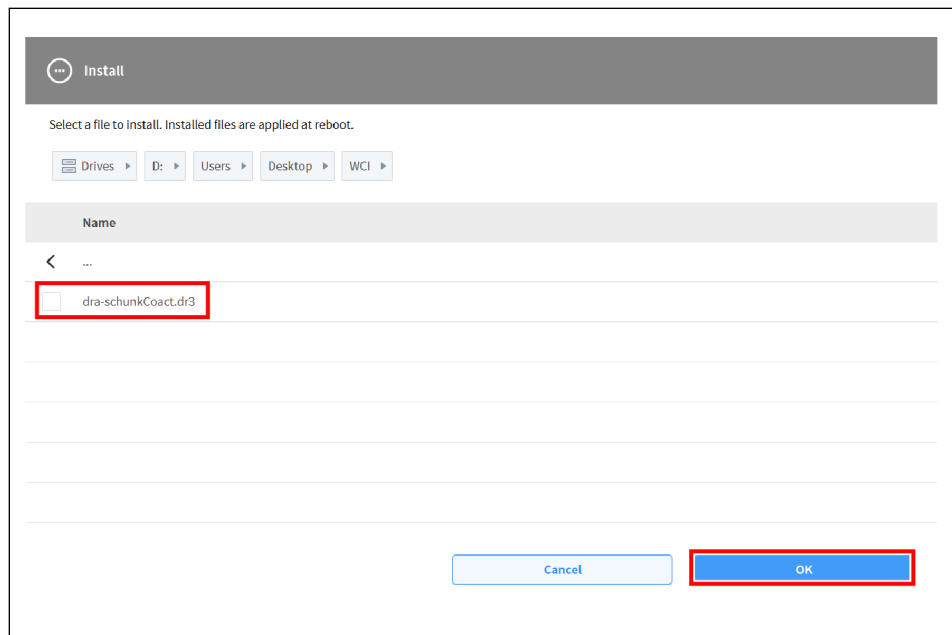
1. Connect the USB stick to the control unit of the robot.
2. Start the control unit.
3. Select "*Teachpanel > Setting > Workcell Item, Skill Install & Uninstall*".



4. Select the "Install" button.
5. Accept the general terms and conditions.

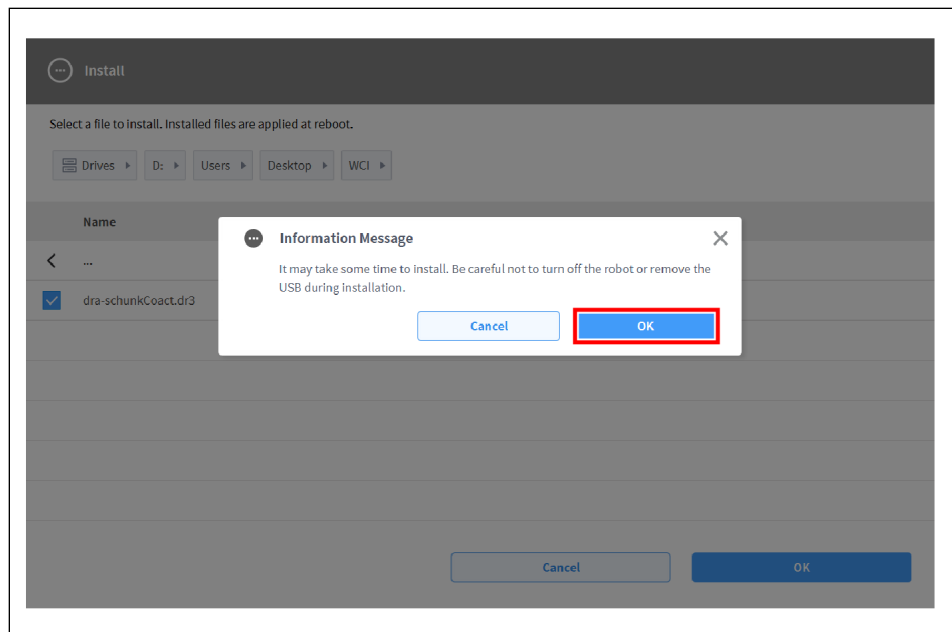


6. Select the WCI file.



7. Ensure that the USB stick is not removed during installation.

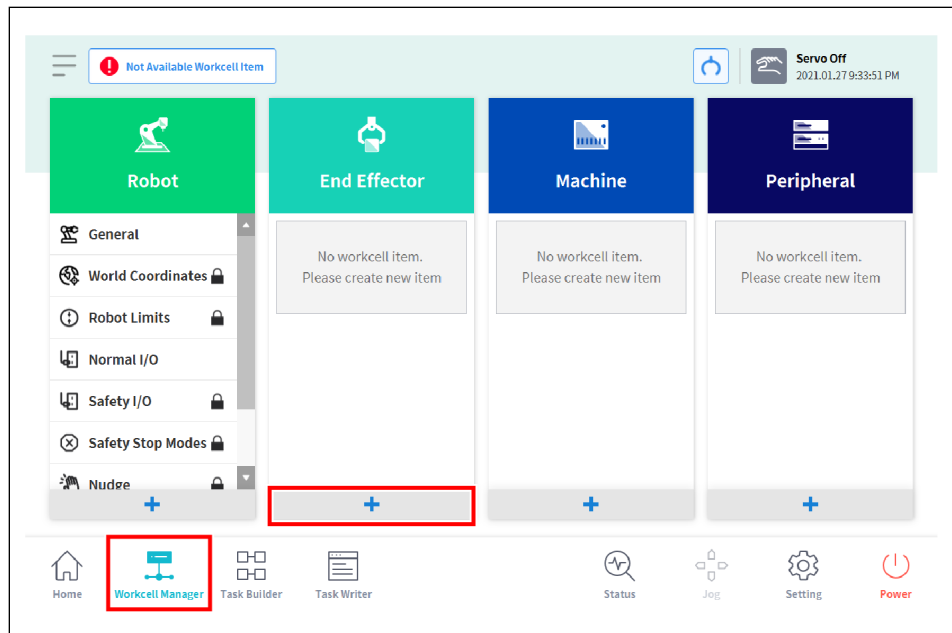
8. Select the "OK" button.



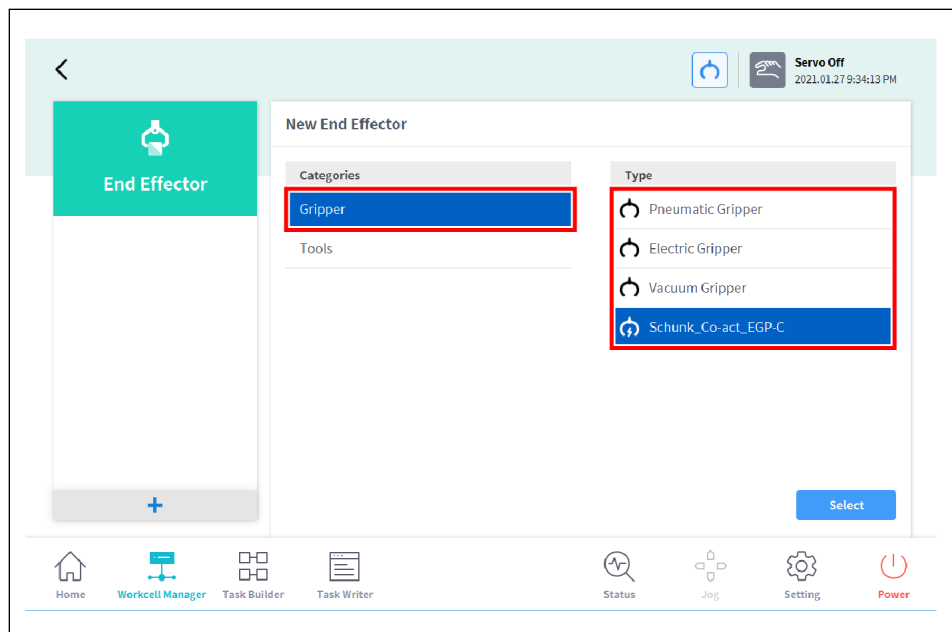
✓ The software module has been installed.

3 Configure the software component

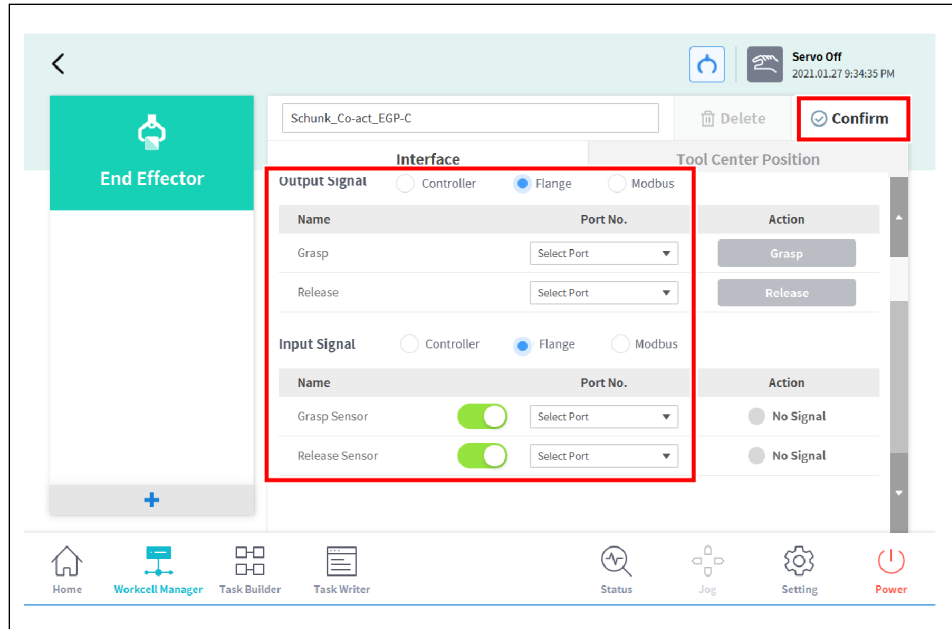
1. Select "Workcell Manager > End Effector > +".



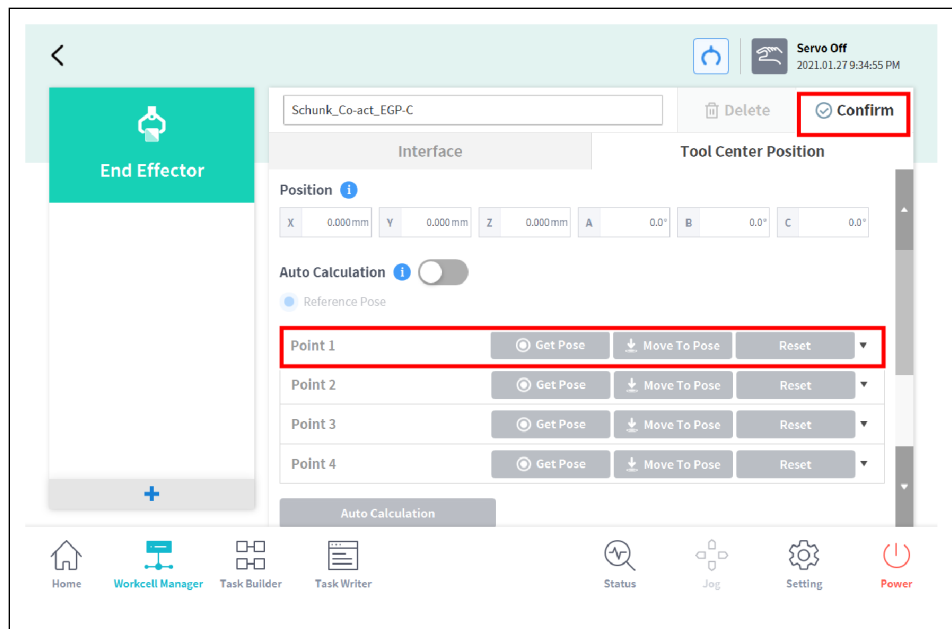
2. Select the category "gripper".
3. Select the type of Workcell Item "SCHUNK_Co-act_EGP-C".



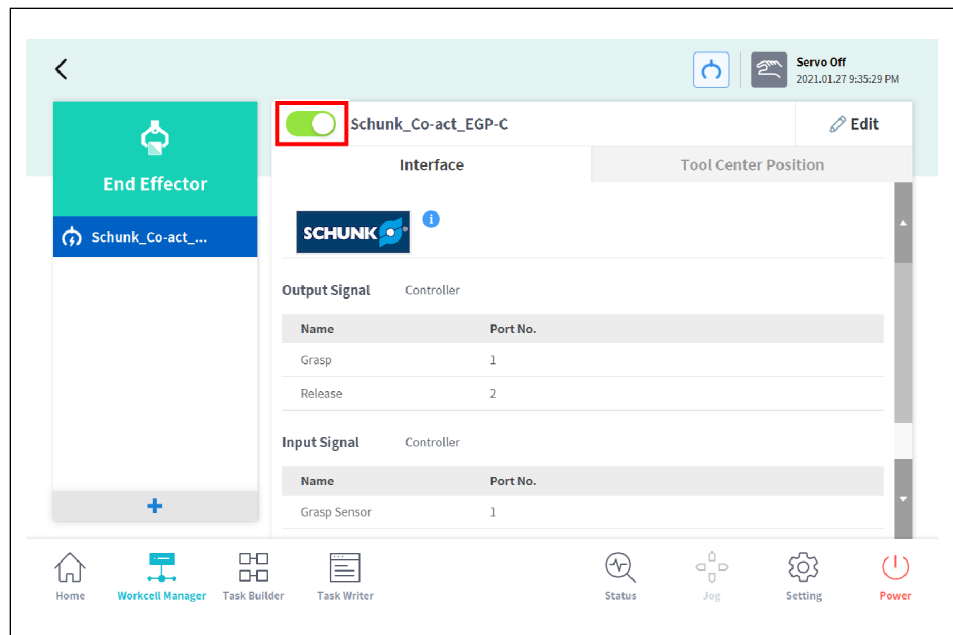
4. Set the input and output signals:
 - ✓ For direct connection to the tool interface of the robot: activate "Flange".
 - ✓ Output signal: Grasp = Port 1, Release = Port 2
 - ✓ Input signal: Grasp Sensor = Port 2, Release Sensor = Port 1
5. Select the "Confirm" button.



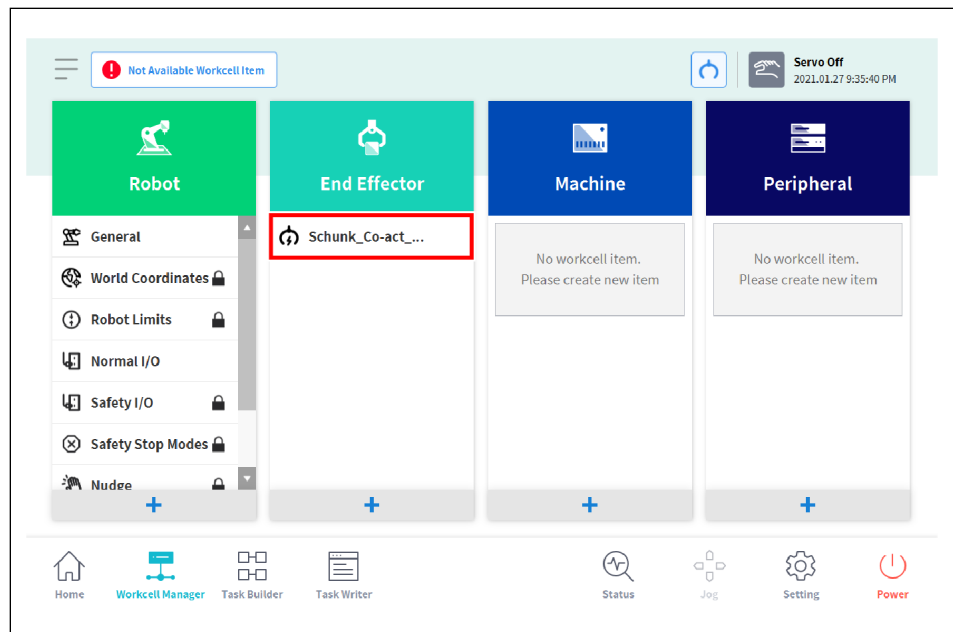
6. Set the tool center position.
7. Select the "Confirm" button.



8. Activate the gripper.

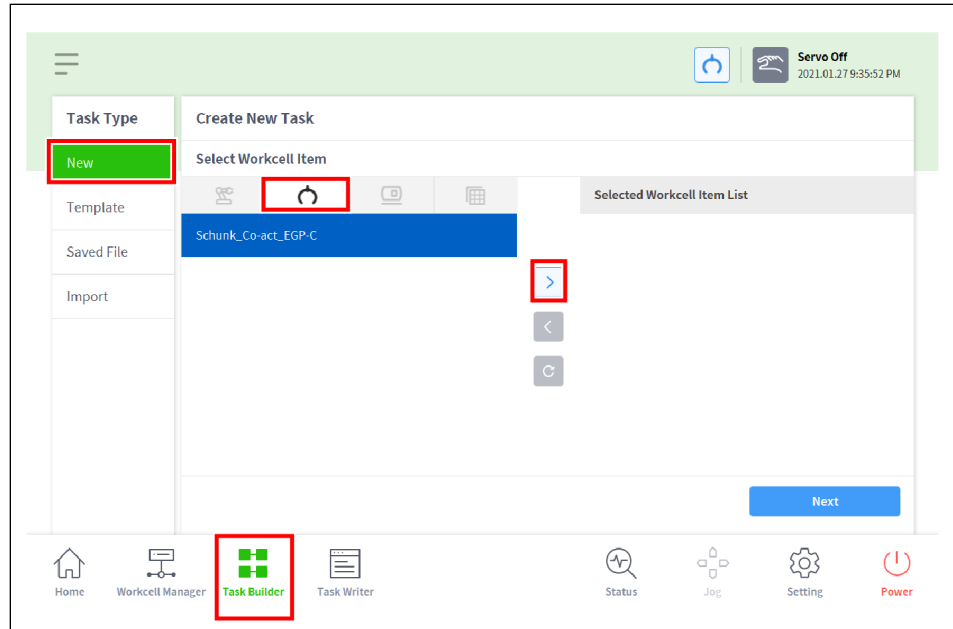


- ✓ The name of the gripper is displayed in the Workcell Manager.



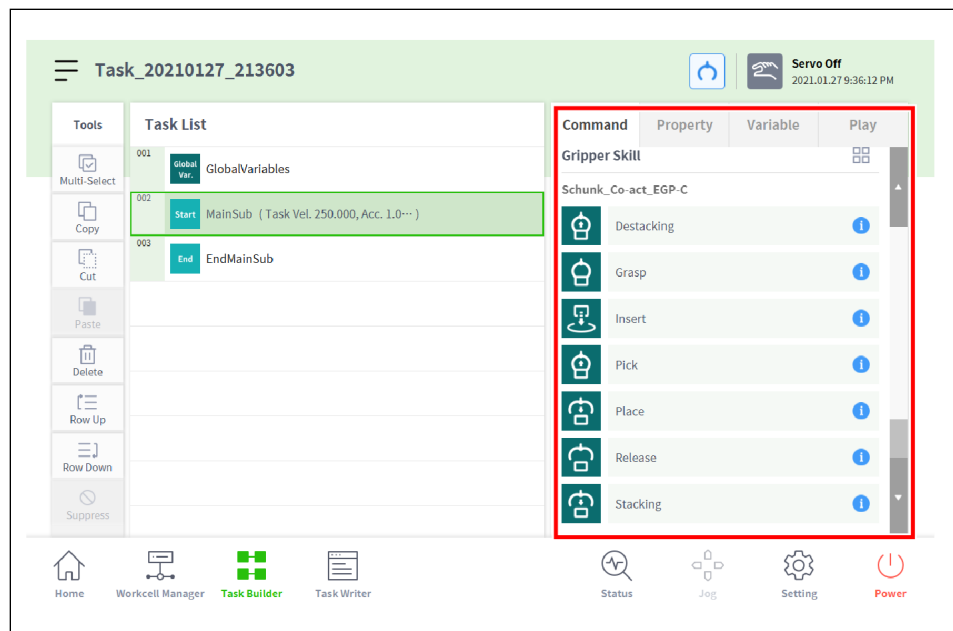
4 Inserting the functions into the program code

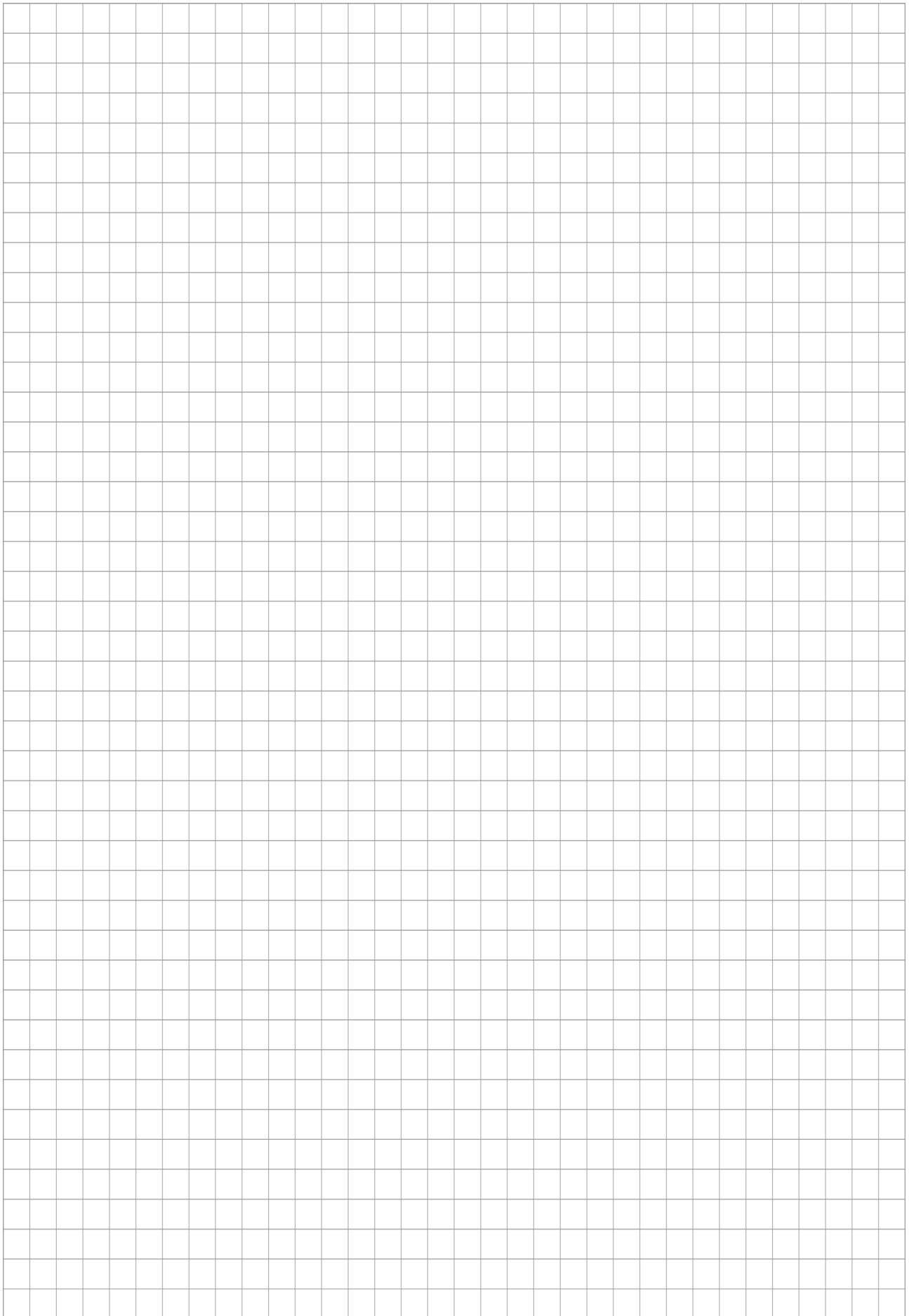
1. Select "Task Builder > New".
2. Select the gripper and add it to the list.
3. Select the "Next" button.



✓ Possible commands are displayed in the list on the right.

4. Drag commands to the desired location in the task list.





SCHUNK GmbH & Co. KG
Clamping and gripping technology

Bahnhofstr. 106 - 134
D-74348 Lauffen/Neckar
Tel. +49-7133-103-0
Fax +49-7133-103-2399
info@de.schunk.com
schunk.com

Folgen Sie uns | *Follow us*

