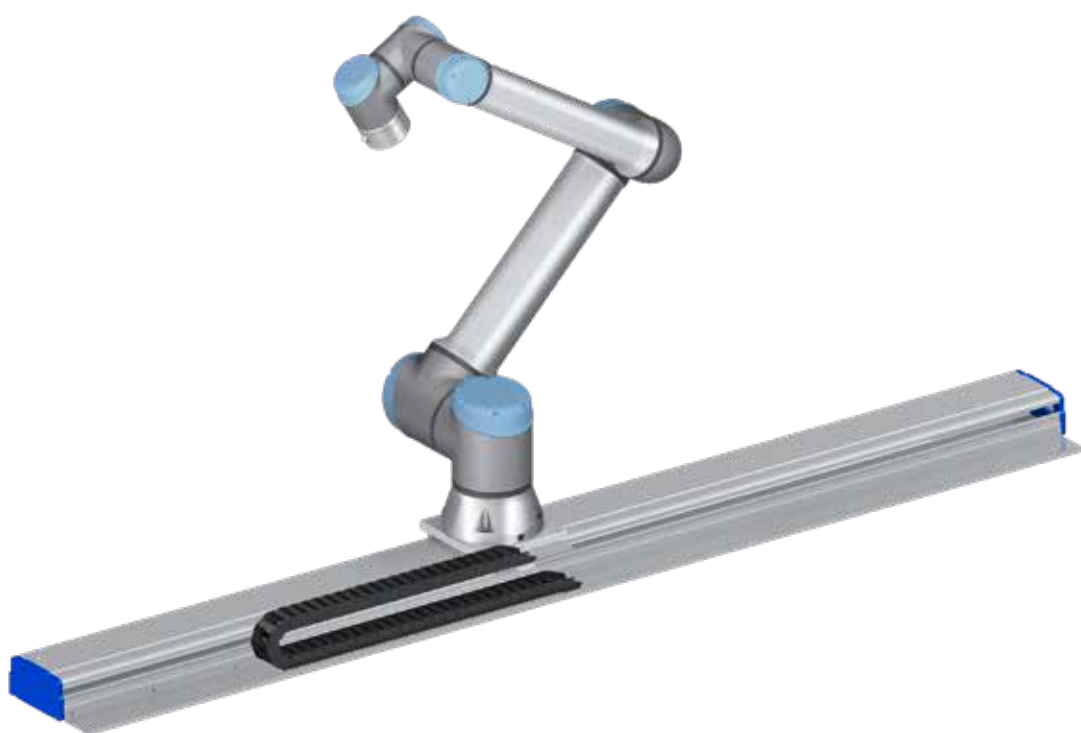


Linear axis for collaborative robots SLIDEKIT



Heritage of innovation for technology leadership

Ewellix is a global innovator and manufacturer of linear motion and actuation solutions. Today, our state-of-the-art linear solutions are designed to increase machine performance, maximise uptime, reduce maintenance, improve safety and save energy.

Technology leadership

Our journey began **over 50 years** ago as part of the SKF Group, and our history with SKF provided us with the **expertise to continuously develop new technologies** and use them to create cutting edge products that offer our customers a competitive advantage.

In 2019, we became independent from SKF and changed our name to Ewellix. **We are proud of our heritage.** This gives us a unique foundation on which to build an agile business with engineering excellence and innovation as our core strengths.

Global presence and local support

With our **global presence**, we are uniquely positioned to deliver **standard components and custom-engineered solutions**, with full technical and applications support around the world. The long lasting relationships with our distributor partners allow us to support customers in a variety of different industries. At Ewellix, we don't just provide products; **we engineer integrated solutions** that help customers realise their ambitions.



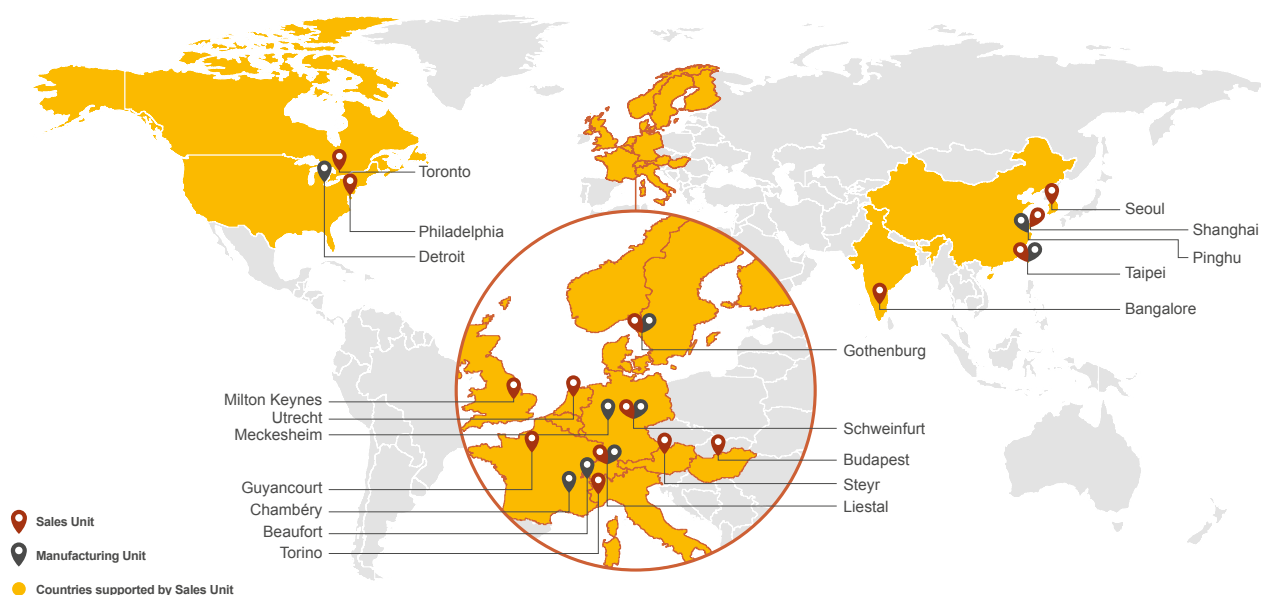
1 400 employees



16 sales units

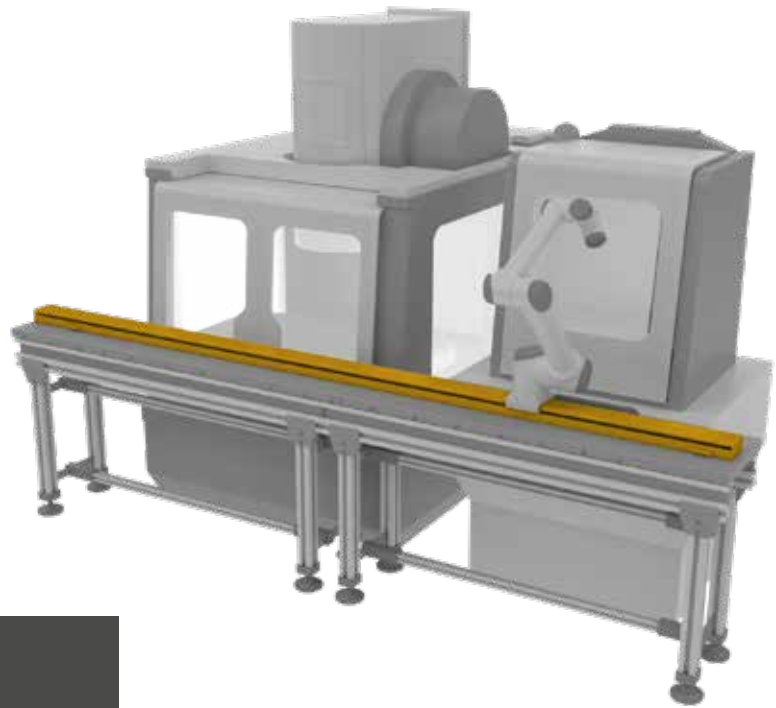


9 factories



Benefits for handling

Concerning handling applications, it's often required to cover long distances between machines, like machined parts loading and unloading on CNC centers.



This repetitive operation, usually done manually, is time consuming and with low added value for the operators.

By using a cobot on the Ewellix linear module, it is possible to easily automate this handling process, increasing its productivity and reliability.

Linear modules from Ewellix provide fast and precise movements to effectively position the robot along a horizontal axis.

SLIDEKIT

Operating range extension

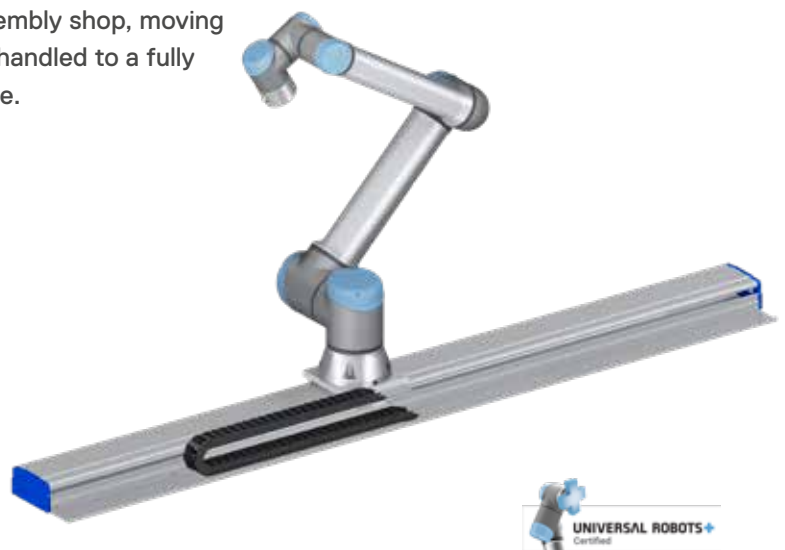
By adding a linear module as a dynamic base for the robot, it is possible to extend the handling operating area of the robot, increasing the productivity of a series of machines working in the same production flow.

Plug-and-play solution

The SLIDEKIT provides quick and fast installation, by having a standardized mechanical, electrical and software interface with Universal Robots. In few steps, the system is ready to be used and simply programmed in operation.

Cost savings and higher productivity

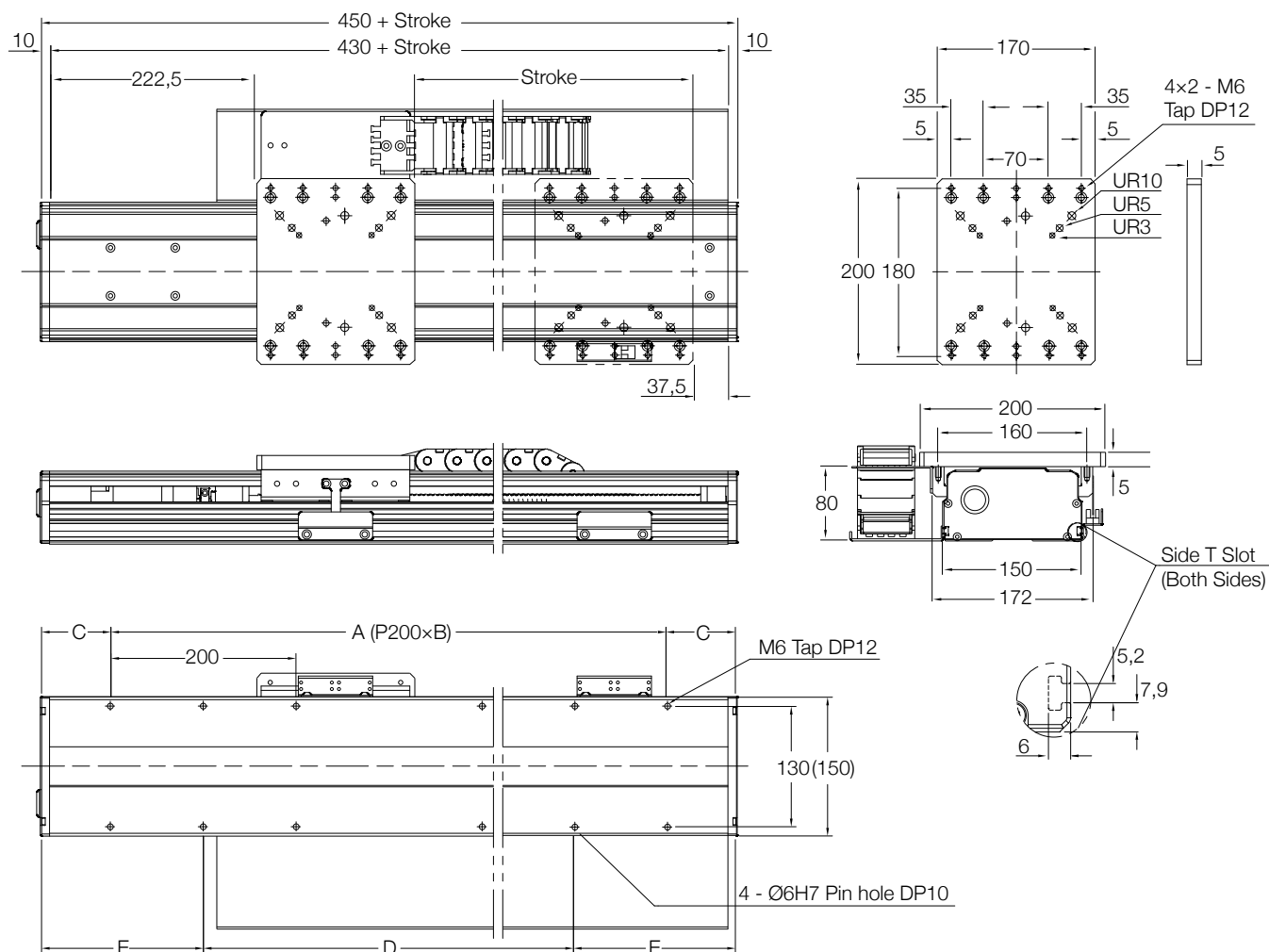
UR cobots combined with the SLIDEKIT linear module provide a cost-effective solution to upgrade an existing assembly shop, moving from a manual handled to a fully automatized line.



Technical data

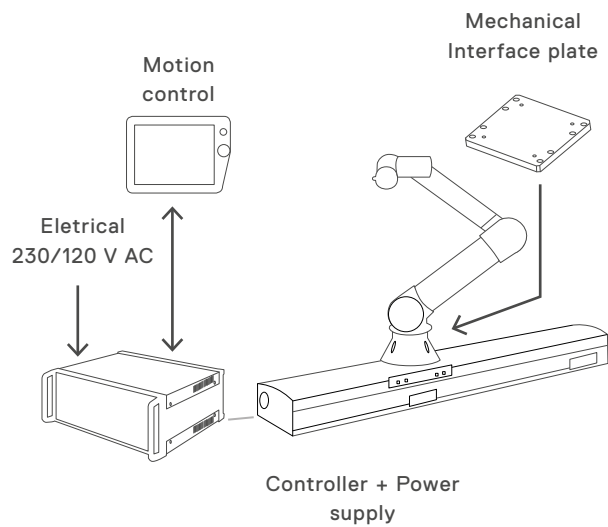
| | Unit | SLIDEKIT-UR |
|---|----------|----------------------------------|
| Performance data | | |
| Max. dynamic load | N | 21 000 |
| Max. dynamic moments | Nm | 2 400 |
| Stroke | mm | 100...1 800 |
| Max. speed | mm/s | 1 200 |
| Duty cycle | % | 100 |
| Screw lead | mm | 05 or 10 or 20 |
| Repeatability | mm | 0,01 |
| Ambient temperature | °C | 0 to +50 |
| Max. humidity | % | 95 |
| Electrical data | | |
| Power input | V AC / A | 120 to 240 / 6,5 to 3,3 |
| Software functionality | | |
| Programmable positions | – | 10 |
| Access to position via UR Caps | – | yes |
| Speed adjustable | – | yes |
| Universal Robots controller compatibility | – | CB 3.1 / Polyscope 3.6 or higher |

Dimensional drawing



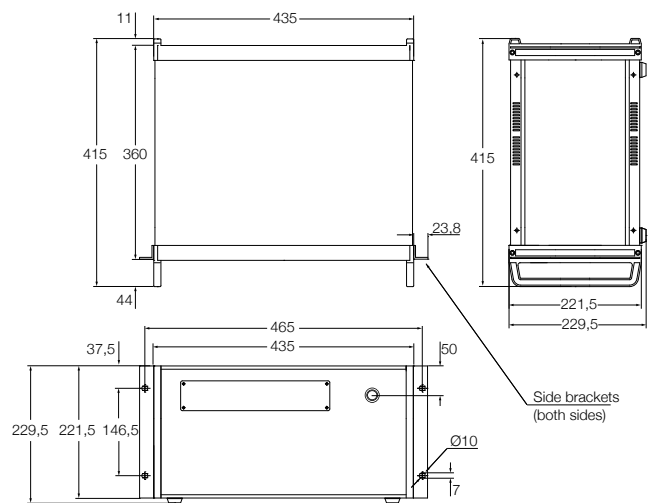
| | Stroke mm | A | B | C | D | E |
|----|--------------|-------|----|----|-------|-----|
| 1 | 100 | 400 | 2 | 75 | 200 | 175 |
| 2 | 200 | 600 | 3 | 25 | 400 | 125 |
| 3 | 300 | 600 | 3 | 75 | 400 | 175 |
| 4 | 400 | 800 | 4 | 25 | 600 | 125 |
| 5 | 500 | 800 | 4 | 75 | 600 | 175 |
| 6 | 600 | 1 000 | 5 | 25 | 800 | 125 |
| 7 | 700 | 1 000 | 5 | 75 | 800 | 175 |
| 8 | 800 | 1 200 | 6 | 25 | 1 000 | 125 |
| 9 | 900 | 1 200 | 6 | 75 | 1 000 | 175 |
| 10 | 1 000 | 1 400 | 7 | 25 | 1 200 | 125 |
| 11 | 1 100 | 1 400 | 7 | 75 | 1 200 | 175 |
| 12 | 1 200 | 1 600 | 8 | 25 | 1 400 | 125 |
| 13 | 1 300 | 1 600 | 8 | 75 | 1 400 | 175 |
| 14 | 1 400 | 1 800 | 9 | 25 | 1 600 | 125 |
| 15 | 1 500 | 1 800 | 9 | 75 | 1 600 | 175 |
| 16 | 1 600 | 2 000 | 10 | 25 | 1 800 | 125 |
| 17 | 1 700 | 2 000 | 10 | 75 | 1 800 | 175 |
| 18 | 1 800 | 2 200 | 11 | 25 | 2 000 | 125 |

Connection diagram



Dimensional drawing

Control unit



NOTE:

Side brackets for rack mounting are provided with the control box but are not pre-mounted

SLIDEKIT contains



Software functionality

The URCaps software for the SLIDEKIT allows easy positioning access directly within the UR Polyscope environment.

Setup

In the installation tab, the user can manually move the linear axis in both directions and define multiple user specific positions, that are accessible in programming mode.

Motion programming

Within the UR motion program, the SLIDEKIT axis is easily integrated through a URCaps command module. Simply insert this element from the structure tab at the desired position of the program. Additionally, reading and setting positions is possible through a script function.

Safety elements

The SLIDEKIT has a range of safety elements built in to allow its integration into a robot application.

NOTE:

The SLIDEKIT is not a functional safety system compliant with EN ISO 13489-1 or IEC 62061. To integrate the SLIDEKIT into a functional safety chain, external safety devices have to be integrated into the overall system.



SLIDEKIT software functionality

Ordering key

Robot
UR Universal Robots

Module options
B Ball screw

05 Lead
10 Lead
20 Lead

A Cover Aluminum
P Cover PU-Strip
S Cover Steel

Stroke
100 ... 1.800 mm

Electrical options
11 120 VAC / US cable
22 230 VAC / EU cable
23 230 VAC / CN cable
24 230 VAC / UK cable
25 230 VAC / CH cable

Accessories options
0 No limit switches
S Limit switches

0 No cableveyor
C Cableveyor

SLIDEKIT - UR - - - - 0 - - - - 0



ewellix.com

© Ewellix

All contents of this publication are the property of Ewellix, and may not be reproduced or given to third parties (even extracts) without permission. Although great care has been taken in the production of this catalog, Ewellix does not take any responsibility for damage or other loss resulting from omissions or typographical errors. The photo may differ slightly in appearance from the actual product. Due to continuous improvements being made in our products, the product's appearance and specifications are subject to change without notice.

PUB EL-07023-EN-October 2019

Certain image(s) used under license from Shutterstock.com.
SKF and SKF logo are trademarks of the SKF Group