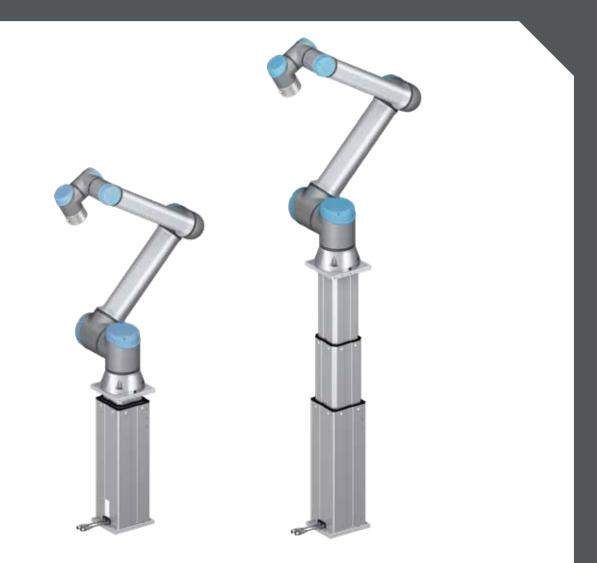




Linear axis for collaborative robots LIFTKIT



EWELLIX

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. Long standing 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.



Benefits for handling

Fully automated pick and place solutions are becoming a new standard with packaging stations.



The main challenge for packaging system manufacturers is to design multi-axis systems in a simple and cost efective way.

A typical application that benefts from an added linear axis is palletizing of boxes. Stacking on pallets can start at foor level, but the stack can be up to 2 m high. A standard collaborative robot does not have such a large vertical working range.

Ewellix provides efective solutions to complete vertical adjustment in a smart way, providing a ready to mount additional linear axis to the robot. While stacking a pallet, the base of the robot can be lifted or lowered to work at a more optimal position.

EWELLI×

Linear axis for collaborative robots LIFTKIT

Operating range extension

- Vertical lifting of the cobot by up to 900 mm (1.400 mm on request) with compact retracted height
- Robust pillar design for industrial use, vibration free motion and virtually maintenance free

Plug-and-play solution

- Hardware interface compatible with UR3, UR5, UR10 and UR16 robots
- Universal Robots+ certified product
- Software control integrated with UR controller (URCaps) for easy motion programming
- Basic control option with digital I/O for all cobot manufacturers

Cost savings and higher productivity

Cobots combined with Ewellix LIFTKIT provide

a cost-effective solution to upgrade an existing assembly shop, moving from a manual handled to a fully automatized line.



Technical data

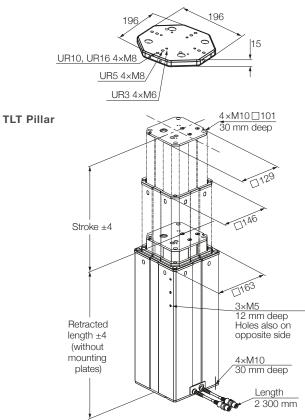
	Unit	LIFTKIT-UR-601	LIFTKIT-00-601
Pillar type	-	TLT	TLT
Performance Data			
Max. Push load	Ν	1 500	1 500
Max. Pull load	Ν	0	0
Max. dynamic moments		210	210
Max. linear speed	mm/s	80	80
Duty cycle	%	10% (20% at 500N)	10% (20% at 500N)
Mechanical Data			
Screw type	-	Acme screw	Acme screw
Stroke range	mm	500 - 900	500 - 900
Retracted length (software controlled)	mm	Stroke/2 + 275	Stroke/2 + 275
Repeatability(same direction and load)	mm	± 0.5	± 0.5
Weight @ 0 mm stroke	Kg	21	21
Δ weight per 100mm stroke	Kg	1,7	1,7
Robots compatibility	-	UR3, UR5, UR10, UR16, e-Series	Any robot
Cable management	-	Threads on pillar and interface	Threads on pillar and interface
	-	plate to attach cable management	plate to attach cable management
Electrical			
		120 AC / 6.5 A	120 AC / 6.5 A
Voltage/Current	V/A	230 AC / 3,3 A	230 AC / 3,3 A
En en en el en		24 DC / 10 A	24 DC / 10 A
Emergency stop	-	Connection to UR safety I/O	Connection to robot safety I/O
Communication			
Control interface	-	/ Polyscope 3.6 or higher	software control (no software provided)
Positioning, repeatability	mm	± 1	± 1
Accessible positions	-	any	2 memory positions programmable
Feedback	-	Position feedback via URCaps	Position feedback for memory positions via output signal
Soft start and stop	-	Implemented for smooth operation	Implemented for smooth operation
Software control	-	URcap	RS232 interface for external software control (no control software provided)
Environment			· · · · · ·
Type of protection	IP	40	40
Ambient temperature	°C	+10 to +40	+10 to +40
Max. humidity	%	85	85
Positioning, repeatability Accessible positions Feedback Soft start and stop Software control Environment Type of protection Ambient temperature	- - - IP °C	 / Polyscope 3.6 or higher ± 1 any Position feedback via URCaps Implemented for smooth operation URcap 40 +10 to +40 	 ± 1 2 memory positions programmable Position feedback for memory positions via output signal Implemented for smooth operation RS232 interface for external software contrined 40 +10 to +40

EWELLI×

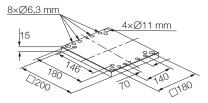
Dimensional drawing

TLT telescopic pillar

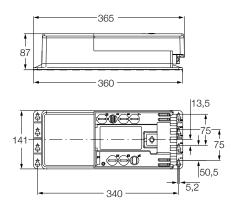
Robot attachment plate

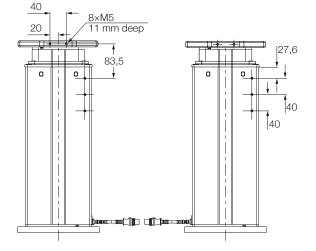


Bottom fixation plate



Control unit

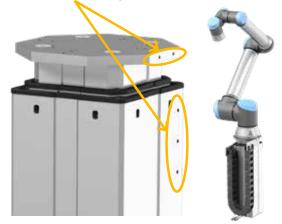


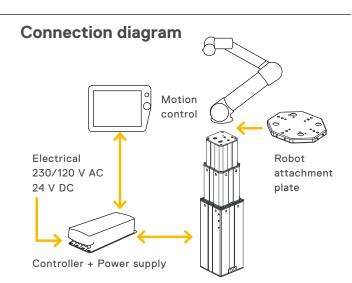


EWELLIX

Cable management

Threads for cable management attachments





Example of LIFTKIT-00 interface board to robot PLC (not included)



EWELLIX

Software functionality

The URCaps software for the LIFTKIT 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 LIFTKIT 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 LIFTKIT has a range of safety elements built in to allow its integration into a robot application.

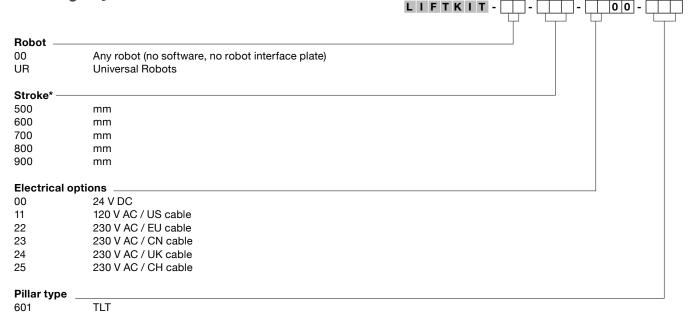
Software updates

To download the latest software update please check on ewellix.com/support/library/software updates.

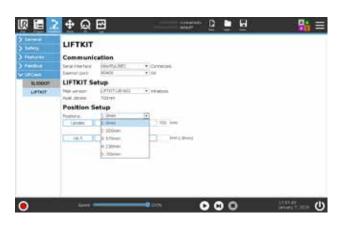
NOTE:

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

Ordering key



* longer stroke up to 1 400 mm available on request



Newsy Andrewskill Theoglation Lifthcom	Q. * Asket Program = UET. Bres	LIFTKIT Poston Setup	Crathins	Variables	
LITER SLIDER		2 Deen 2 Deen 3 Store 4 Ditore 5 Store 8		a braden (Dee)	



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-07022/2-EN-May 2020

SKF and SKF logo are trademarks of the SKF Group.