

A Schaeffler Company



FANUC







The heritage of innovation

Ewellix is a global innovator and manufacturer of linear motion and actuation solutions. Our state-of-the-art linear solutions are designed to increase machine performance, maximise uptime, reduce maintenance, improve safety and save energy. We engineer solutions for assembly automation, medical equipment, mobile machinery, distribution and a wide range of other industrial applications.

Technology leadership

We earned our reputation through decades of engineering excellence. Our journey began over 50 years ago as part of the SKF Group, a leading global technology provider. Our history 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 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. Our skilled engineers provide total life-cycle support, helping to optimise the design, operation and maintenance of equipment thus improving productivity and reliability while reducing costs. At Ewellix, we don't just provide products; we engineer integrated solutions that help customers realise their ambitions.



Schaeffler Group - We pioneer motion

Ewellix is since 2023 owned by the Schaeffler Group.

As a leading global supplier to the automotive and industrial sectors, the Schaeffler Group has been driving forward groundbreaking inventions and developments in the fields of motion and mobility for over 75 years.

With innovative technologies, products, and services for electric mobility, CO₂-efficient drives, Industry 4.0, digitalization, and renewable energies, the company is a reliable partner for making motion and mobility more efficient, intelligent, and sustainable.

Schaeffler manufactures high-precision components and systems for powertrain and chassis applications as well as rolling and plain bearing solutions for a large number of industrial applications.





Benefits for handling and inspection

Ewellix provides effective solutions to complete vertical adjustment in a smart way with a wide range of "ready to mount" additional linear axis solutions. We designed them for different applications, giving to your robot an extended operation range.

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

A standard collaborative robot does not have such a large vertical working range. With the Ewellix LIFTKIT the base of the robot can be lifted or lowered to work at optimal position.

Stacking on pallets starts at floor level, but the stack can be up to 2 m high, and that's where LIFTKIT can increase your packaging station efficiency.

And every time you need a repetitive operation, as end of line quality inspection, our LIFTKIT can guarantee precision and reliability to maximize your results.

Here below an application example in automotive assembly lines, with a custom LIFTKIT vertical axis for ceiling mounting installation.







Linear axis for collaborative robots LIFTKIT-FA

Operating range extension

- Vertical lifting of the cobot by up to 1 400 mm with compact retracted height
- Robust column design for industrial use, vibration free motion and virtually maintenance free

Plug-and-play solution

- Hardware interface compatible with CRX-5iA, CRX-10iA, CRX-10iA/L, CRX-20iA/L robots
- FANUC CRX-ready product
- Software control integrated with FANUC CRX plugin for easy motion programming
- Requires the installation of the FANUC R648 Socket messaging option

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.

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Technical data

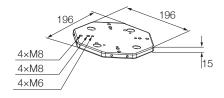
	Unit	LIFTKIT-FA-601
Column type	-	TLT
Performance Data		
Max. push load	N	1 500
Max. pull load	N	0
Max. dynamic moment	Nm	210
Max. static moment	Nm	3 000
Max. linear speed	mm/s	80
Duty cycle	-	10% (20% at 500 N)
Mechanical Data		
Screw type	-	Acme screw
Stroke range	mm	500 - 1 400
Retracted length (software controlled)	mm	Stroke/2 + 275
Weight @ 0 mm stroke	kg	21
Δ weight per 500 mm stroke	kg	1,7
Robots compatibility	-	CRX-5iA, CRX-10iA, CRX-10iA/L, CRX-20iA/L
Cable management	-	Threads on column and interface plate to attach cable management
Electrical		
Input Voltage/Current	-	120 VAC / 6,5 A 230 VAC / 3,3 A
Input frequency	Hz	50-60
Input Fuse	Α	10
I/O voltage	-	24 VDC
I/O current	-	max. 10 A not protected
Emergency stop	-	STO up to PLe, Cat.4
Communication		
Control interface	-	FANUC CRX with R648 Socket messaging
Positioning, repeatability	mm	±1
Accessible positions	-	any
Feedback	-	Position & Status
Soft start and stop	-	Implemented for smooth operation
Software control	-	FANUC CRX plugin
Environment		
Type of protection	-	IP40
Ambient temperature	°C	+10 to +40
Max. humidity	%	85
Vibration	-	Stationary industrial environment



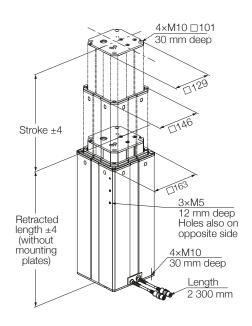
Dimensional drawing

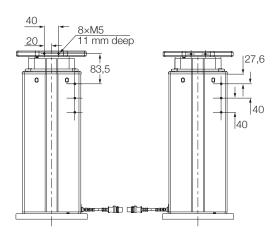
TLT lifting column

Robot attachment plate

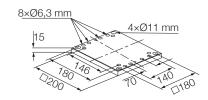


TLT Column

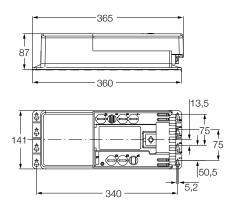


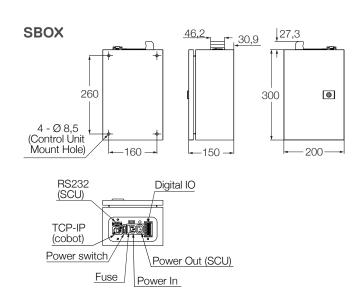


Bottom fixation plate

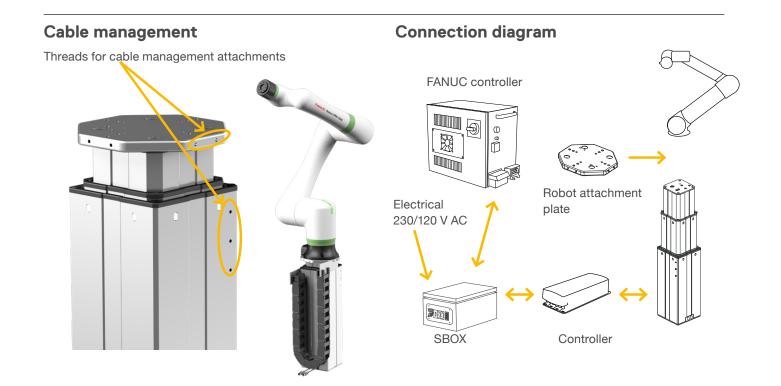


Controller









LIFTKIT contains



Quick start guide



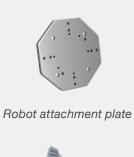
SCU Controller



SBOX



Lifting column





Bottom fixation plate



Handswitch



Fanuc Plug-in included Teach pendant not included



SBOX Key



SBOX I/O cable



SBOX power cable



SBOX to controller power cable



Controller I/O cable



RS232 cable



Ethernet cable



Software functionality

The Ewellix LIFTKIT component allows customers to integrate the LIFTKIT capabilities with FANUC CRX applications.

Setup & Programming

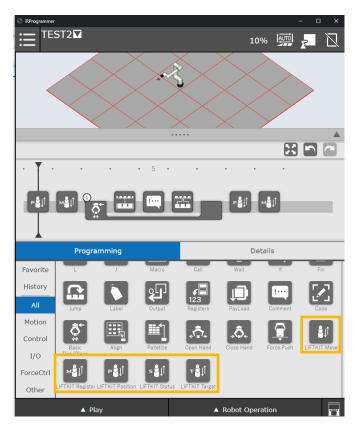
The Ewellix LIFTKIT component allows the set up and control of the LIFTKIT in the FANUC CRX. The component can be inserted multiple times throughout a FANUC CRX project via drag-and-drop to access multiple positions while getting feedback about current position and status.

Safety elements

The LIFTKIT has a range of safety elements built in to allow its integration into a robot application, including safety relays certified according ISO 13849-1, allowing STO up to PLe, Cat. 4

Software updates

To download the latest software update please check on ewellix.com/support/media-library -> Software updates -> LIFTKIT.



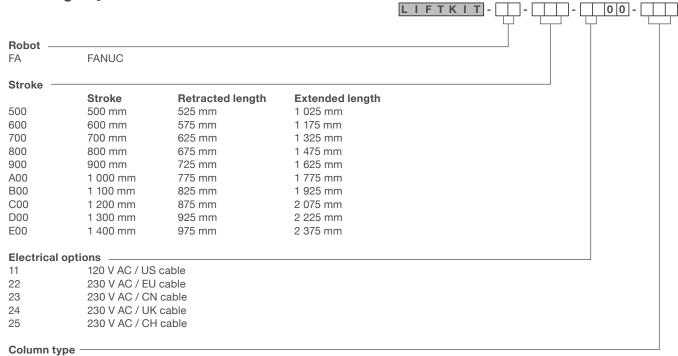
LIFTKIT software functionalities



Ordering key

TLT

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