

KUKA



Advanced Technology Solutions_KUKA LBR grippers



The production systems of tomorrow will be adaptable, flexible, energy-saving, resource-preserving, fast and efficient. In order to remain competitive in the long run, companies must face up to challenges such as the increase in product variety coupled with ever-decreasing quantities. As a result, these companies need flexible and versatile solutions for industrial assembly operations. As your expert partner, KUKA Systems provides solutions for executing both simple and complex processes while meeting the specific requirements of human-robot collaboration.

KUKA LBR gripper pneumatic

The ideal gripper for the KUKA LBR iiwa for flexible assembly and handling tasks.



Functions

- HRC-compliant, rounded contours
- Compact design, low weight
- Force limitation to safe values through pressure reduction
- Detection of the jaw positions using the built-in proximity switches
- Integrated energy supply

Technical data

Mediaflange: MF pneumatic IO
Gripping force (combined): max. 158 N
Product weight: 600 g
Stroke per jaw: 40 mm
Gripper function: internal / external
Closing time for total stroke: 163 ms
Gripping force safeguard: none

KUKA LBR gripper sensitive R800

The ideal gripper for the KUKA LBR iiwa for gripping tasks requiring a sensitive touch and flexibility.



Functions

- HRC-compliant, rounded contours
- Fully integrated control
- Freely selectable operating modes: Position, speed, gripping force
- Sensitive gripping from 70 N up to max. 1,250 N
- Compact design, low weight
- Powerful motor
- Self-locking worm gear
- Integrated energy supply
- Optional: Safety jaws for mechanical gripping force limitation

Technical data

Mediaflange: MF electrical
Product weight: 900 g
Work stroke per jaw: 40 mm
Gripping force at 20 mm jaw length (combined): 100 – 1,250 N
Gripping force at 70 mm jaw length (combined): 70 – 700 N
Ambient temperature: 0 °C – 40 °C
Service life: 5 million cycles, maintenance-free
Max. jaw speed: 60 mm/s
Optional: Gripping force limitation 140 N

KUKA LBR gripper pneumatic (additively manufactured)

The ideal gripper for the KUKA LBR iiwa for specific assembly and handling tasks.



Functions

- HRC-compliant, rounded contours
- Compact design, low weight
- Force limitation to safe values
- State detection (open / closed) using the built-in proximity switches
- Integrated energy supply
- High flexibility due to the integrated ball joint in the flange adapter
- High flexibility due to the uniform flange adapter (only the gripper is replaced)
- Component-specific, additive manufacturing (plastic), short stroke

Technical data

Mediaflange: MF pneumatic IO MF pneumatic touch
Gripping force (combined): approx. 120 N
Product weight: 500 g
Stroke per jaw: approx. 2 mm
Gripper function: internal / external
Closing time for total stroke: 20 ms
Gripping force safeguard: opening / closing

Industrie 4.0

Prepared for transformation of the worlds of production

Smart Production, Internet of Things or Industrie 4.0. Even if the names and terms used vary from one country to another, they all share the same goal: the creation of elementary competitive advantages – at both company level and in global competition.

Work on the factory of the future is thus in full swing worldwide. This involves intelligent, networked industrial production and logistics processes on the basis of cyber-physical production systems (CPPS). Or, to put it simply: factories that, by means of advanced networking, respond intelligently to changing tasks and continuously reconfigure themselves. The factory of tomorrow should be able to organize and continuously optimize its production processes, thereby counteracting the consequences of another development: demographic change. New solutions are called for because of falling birth rates and increasingly aged populations in modern industrial societies. Without the “smart factory”, it will be simply impossible to achieve a productivity increase on this scale at the same time as effectively husbanding our existing natural resources.

In order to make new working environments both highly productive and ergonomically beneficial for the labor force, KUKA is developing central key technologies: collaborative robots, mobile assistance systems, autonomously controlled vehicles and intelligently networked automation solutions that support humans in the work setting, easing the workload in a variety of ways.

In collaboration with experts from diverse sectors, KUKA is now already implementing highly flexible, digitized manufacturing processes that will open up new opportunities in a competitive environment and lastingly change the way we work and produce.

For further information please contact us at ats@kuka.com

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