
KUKA small robots.
KUKA — YOUR STRONG PARTNER.

Quality made German robots built with the utmost commitment to our customer’s needs. KUKA has been the basis for decades of exceptional technology helping companies to achieve process optimization. We were the pioneers in the world of robotics, and now are global leader in innovation. Our passion is finding future-oriented solutions to make even complex automation tasks simple. Whatever your application no matter the difficulty you can implement it with KUKA. Thanks to experienced KUKA system partners we are able to provide robotic solutions industry-wide. We strive to turn your ideas into reality. Use our experience to drive your success.

The new masters of speed.
KUKA small robots for 6 kg and 10 kg payloads.

With the KR AGILUS series, KUKA is presenting a comprehensive small robot family. The performance of the KR AGILUS series is unique in its payload category. It sets standards with five or six axes, very high speeds, short cycle times and an integrated energy supply system. The robots master even unusual tasks, whether installed on the floor or ceiling or, in the case of the 6-axis version, also on the wall. All KR AGILUS models are operated uniformly with the service-proven KR C4, the universal control technology for all KUKA robot models.

Unique in this class is the Safe Robot functionality, which radically simplifies the efficient cooperation of humans and machines. This enables totally new automation concepts. KR AGILUS: Unparalleled functionality and reliability made by KUKA.

To find out more about the KUKA small robot family, scan this QR code with your smartphone.
**The KR AGILUS series.**

The future of small robots.

### Advantages and functions

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td><strong>HIGH SPEED</strong></td>
<td>In handling tasks, especially pick-and-place tasks, KUKA small robots demonstrate one of their greatest strengths: extreme speed. This produces impressive results with minimal cycle times.</td>
</tr>
<tr>
<td><strong>EXTREME PRECISION</strong></td>
<td>PRECISION. Where high repeatability and accuracy are required, KUKA small robots are in their element. They enable manufacturing quality at the highest level. Thanks to their robust design, they work with continuous precision throughout the work envelope.</td>
</tr>
<tr>
<td><strong>INTEGRATED ENERGY SUPPLY SYSTEM</strong></td>
<td>INTEGRATED ENERGY SUPPLY SYSTEM: For extremely streamlined contours, KUKA small robots have the energy supply system routed internally, including EtherCAT/EtherNet (bus cable), three 5/2-way valves (compressed air), direct air line, and six inputs and two outputs. Simple gripper integration and fast reaction – for work in confined spaces.</td>
</tr>
<tr>
<td><strong>OPTIMAL WORK ENVELOPE</strong></td>
<td>WIDE RANGE OF MOUNTING POSITIONS. The KUKA small robots produce impressive results in every position – thanks to the brakes integrated in all axes. The robots of the KR AGILUS five series for installation on the floor and ceiling, the KR AGILUS six series additionally for installation on the wall.</td>
</tr>
<tr>
<td><strong>LOW MAINTENANCE</strong></td>
<td>LOW MAINTENANCE. The KUKA small robots require no change of lubricant (lifetime lubrication). This makes them ideally suited to continuous, uninterrupted productivity.</td>
</tr>
<tr>
<td><strong>SERVICE-PROVEN KUKA CONTROLLER</strong></td>
<td>OPTIMAL WORK ENVELOPE. With reaches of up to 1,100 mm and the ability to reach points near to the robot base as well as in the overhead area, the KR AGILUS offers an optimal work envelope. Additional equipment can be attached at the mounting points on axis 3 and axis 4 (e.g. valves and I/O modules). This enables cost-effective, space-saving cell concepts.</td>
</tr>
</tbody>
</table>

### KR AGILUS series

<table>
<thead>
<tr>
<th>Robot</th>
<th>Payload</th>
<th>Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>KR AGILUS sixx series</td>
<td>2 kg</td>
<td>2,000 mm</td>
</tr>
<tr>
<td>KR AGILUS five series</td>
<td>2 kg</td>
<td>2,400 mm</td>
</tr>
<tr>
<td>KR C4 compact</td>
<td>2 kg</td>
<td>2,100 mm</td>
</tr>
</tbody>
</table>

### Product overview

- **Controller**: KR C4 compact
- **Teach pendant**: KUKA smartPAD
**KR AGILUS: KR 6 R700 sixx**

**Features and advantages**

**MINIMUM CYCLE TIMES.** The KR AGILUS sixx has six axes and is consistently rated for particularly high working speeds. At the same time, it offers high precision.

**SPACE-SAVING INTEGRATION.** Low space requirements and the choice between installation on the floor, ceiling or wall make the KR AGILUS sixx extremely adaptable.

**INTEGRATED ENERGY SUPPLY SYSTEM.** Routed internally in the KUKA small robots, thereby saving space. Includes EtherCAT/EtherNet (bus cable), three 5/2-way valves (compressed air), direct air line and inputs/outputs.

**KR C4 ARCHITECTURE AND FUNCTIONALITIES.** KUKA small robots are every bit as versatile as their larger relatives. They are operated via the KR C4 compact controller, with the same range of functions as the service-proven KR C4 controller.

**KUKA SAFEOPERATION.** KUKA small robots set standards in safety. Only they offer the KUKA SafeOperation functionality, which radically simplifies the effective cooperation of humans and machines.

**Cycle time**

KR 6 R700 sixx (25/305/25; 1 kg Payload) 238 cycles/min

**Features and functionalities**

- Resolution input for axis 7
- Resolution input for axis 6
- Pneumatic connections (Air 1, Air 2, cleaning air)
- Micro EMD
- Extension Interface (100 MBit)
- Motor connector
- Interface connection

**The KR AGILUS interface plate**

**Axis data**

- Max. reach: 706.7 mm
- Max. payload: 6 kg
- Pose repeatability: ±0.03 mm
- Number of axes: 6
- Mounting position: Floor, ceiling, wall
- Variant
- Robot footprint: 209 mm × 207 mm
- Weight (excluding controller), approx.: 50 kg

**Operating conditions**

- Ambient temperature, robot: +5 °C to +45 °C

**Protection rating**

- Controller: IP 54
- KR C4 compact
- Teach pendant: KUKA smartPAD

**IP protection**

Splash-proof
Features and advantages

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The KR AGILUS interface plate

1 Resolver input for axis 7
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4 Micro EMD
5 Extension Interface (100 MBit)
6 Motor connector
7 Interface connection

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° Relative to intersection of axes A7/5/3/5/3; 1 kg Payload

Cycle time

KR 6 R900 sixx (25/305/25; 1 kg Payload) 250 cycles/min

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KR 6 R900 sixx 1,276 mm 1,620 mm 901.5 mm 656 mm 245.5 mm 851.5 mm 410 mm 405 mm 400 mm 855 mm
The small robots from KUKA

Technical details

**KR AGILUS: KR 10 R900 sixx**

MINIMUM CYCLE TIMES. The KR AGILUS sixx has six axes and is consistently rated for particularly high working speeds. At the same time, it offers high precision.

SPACE-SAVING INTEGRATION. Low space requirements and the choice between installation on the floor, ceiling or wall make the KR AGILUS sixx extremely adaptable.

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KUKA SAFEOPERATION. KUKA small robots set standards in safety. Only they offer the KUKA SafeOperation functionality, which radically simplifies the effective cooperation of humans and machines.

Features and advantages

**Cycle time**

KR 10 R900 sixx (25/135/25; 1 kg Payload) 231 cycles/min

**Axis data**

<table>
<thead>
<tr>
<th>Axis</th>
<th>Range of motion</th>
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<tbody>
<tr>
<td>A1</td>
<td>+/- 170°</td>
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<tr>
<td>A2</td>
<td>+45°/-190°</td>
</tr>
<tr>
<td>A3</td>
<td>+156°/-120°</td>
</tr>
<tr>
<td>A4</td>
<td>+/-185°</td>
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<tr>
<td>A5</td>
<td>+/-120°</td>
</tr>
<tr>
<td>A6</td>
<td>+/-350°</td>
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**Protection rating**

| Protection rating, robot | IP 54 |

**Work envelope**

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<tbody>
<tr>
<td>1,276 mm</td>
<td>1,276 mm</td>
<td>245.5 mm</td>
<td>305 mm</td>
<td>400 mm</td>
<td>455 mm</td>
<td>656 mm</td>
<td>901.5 mm</td>
<td>656 mm</td>
<td>901.5 mm</td>
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</table>

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<sup>1</sup> Relative to intersection of axes A7/5.
1312

+170°
-170°

C

213

G

H

I

35

F

80

A

B

D

E

J

25

81

-120°

+156°

+45°

-190°

C

305 mm

XP7.1 X 32

X 31

X 30

AIR 1 AIR 2

XPN1XP8.1

PURGE

KR AGILUS: KR 10 R1100 sixx

MINIMUM CYCLE TIMES. The KR AGILUS sixx has six axes and is consistently rated for particularly high working speeds. At the same time, it offers high precision.

SPACE-SAVING INTEGRATION. Low space requirements and the choice between installation on the floor, ceiling or wall make the KR AGILUS sixx extremely adaptable.

INTEGRATED ENERGY SUPPLY SYSTEM. Routed internally in the KUKA small robots, thereby saving space. Includes EtherCAT/EtherNet (bus cable), three 5/2-way valves (compressed air), direct air line and inputs/outputs.

KR C4 ARCHITECTURE AND FUNCTIONALITIES. KUKA small robots are every bit as versatile as their larger relatives. They are operated via the KR C4 compact controller, with the same range of functions as the service-proven KR C4 controller.

KUKA SAFEOPERATION. KUKA small robots set standards in safety. Only they offer the KUKA SafeOperation functionality, which radically simplifies the effective cooperation of humans and machines.

Features and advantages

The KR AGILUS interface plate

1 Resolver input for axis 7
2 Resolver input for axis 6
3 Pneumatic connections (Air 1, Air 2, cleaning air)
4 Micro EMD
5 Extension Interface (100 MBit)
6 Motor connector
7 Interface connection

Cycle time

KR 10 R1100 sixx (25/35/35; 1 kg Payload)

143 cycles/min

1190.5x841.9
**Features and advantages**

**MINIMUM CYCLE TIMES.** With five axes, the KR AGILUS five is consistently rated for particularly high working speeds. At the same time, it offers high precision.

**SPACE-SAVING INTEGRATION.** Low space requirements and the choice between installation on the floor or ceiling make the KR AGILUS five extremely adaptable.

**INTEGRATED ENERGY SUPPLY SYSTEM.** Routed internally in the KUKA small robots, thereby saving space. Includes EtherCAT/EtherNet (bus cable), three 5/2-way valves (compressed air), direct air line and inputs/outputs.

**KR C4 ARCHITECTURE AND FUNCTIONALITIES.** KUKA small robots are every bit as versatile as their larger relatives. They are operated via the KR C4 compact controller, with the same range of functions as the service-proven KR C4 controller.

**KUKA SAFEOPERATION.** KUKA small robots set standards in safety. Only they offer the KUKA SafeOperation functionality, which radically simplifies the effective cooperation of humans and machines.

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**The KR AGILUS interface plate**

1. Resolver input for axis 7
2. Resolver input for axis 8
3. Pneumatic connections (Air 1, Air 2, cleaning air)
4. Micro EMD
5. Extension interface (100 MBit)
6. Motor connector
7. Interface connection

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**Operating conditions**

Ambient temperature, robot: +5 °C to +45 °C

**Protection rating**

Protection rating, robot: IP 54

**Controller**

KUKA smartPAD
**KR AGILUS: KR 6 R900 fivve**

**Features and advantages**

**MINIMUM CYCLE TIMES.** With five axes, the KR AGILUS fivve is consistently rated for particularly high working speeds. At the same time, it offers high precision.

**SPACE-SAVING INTEGRATION.** Low space requirements and the choice between installation on the floor or ceiling make the KR AGILUS fivve extremely adaptable.

**INTEGRATED ENERGY SUPPLY SYSTEM.** Routed internally in the KUKA small robots, thereby saving space. Includes EtherCAT/EtherNet (bus cable), three 5/2-way valves (compressed air), direct air line and inputs/outputs.

**KR C4 ARCHITECTURE AND FUNCTIONALITIES.** KUKA small robots are every bit as versatile as their larger relatives. They are operated via the KR C4 compact controller, with the same range of functions as the service-proven KR C4 controller.

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**Operating conditions**

Ambient temperature, robot: +5 °C to +45 °C

**Protection rating**

Protection rating, robot: IP 54

**Dimensions**

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<tbody>
<tr>
<td>KR 6 R900 fivve</td>
<td>1,015 mm</td>
<td>1,437 mm</td>
<td>901.5 mm</td>
<td>656.5 mm</td>
<td>245 mm</td>
<td>440 mm</td>
<td>455 mm</td>
<td>855 mm</td>
<td>400 mm</td>
</tr>
</tbody>
</table>

**Cycle time**

| KR 6 R900 fivve (25/30/25; 1 kg Payload) | 155 cycles/min |

**The KR AGILUS interface plate**

1. Resolver input for axis 7
2. Resolver input for axis 8
3. Pneumatic connections (Air 1, Air 2, cleaning air)
4. Micro EMD
5. Extension Interface (100 MBit)
6. Motor connector
7. Interface connection

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*Relative to intersection of axes A7/5*
**KR AGILUS: KR 10 R1100 fivve**

**Features and advantages**

**MINIMUM CYCLE TIMES.** With five axes, the KR AGILUS fivve is consistently rated for particularly high working speeds. At the same time, it offers high precision.

**SPACE-SAVING INTEGRATION.** Low space requirements and the choice between installation on the floor or ceiling make the KR AGILUS fivve extremely adaptable.

**INTEGRATED ENERGY SUPPLY SYSTEM.** Routed internally in the KUKA small robots, thereby saving space. Includes EtherCAT/ethernet (bus cable), three 5/2-way valves (compressed air), direct air line and inputs/outputs.

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**KUKA SAFEOPERATION.** KUKA small robots set standards in safety. Only they offer the KUKA SafeOperation functionality, which radically simplifies the effective cooperation of humans and machines.

**Cycle time**

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</tr>
</thead>
<tbody>
<tr>
<td>KR 10 R1100 fivve</td>
<td>1,168 mm</td>
<td>1,757 mm</td>
<td>1,103 mm</td>
<td>288 mm</td>
<td>515 mm</td>
<td>360 mm</td>
<td>360 mm</td>
<td>400 mm</td>
<td></td>
</tr>
</tbody>
</table>

**The KR AGILUS interface plate**

1. Resolver input for axis 7
2. Resolver input for axis 6
3. Pneumatic connections (Air 1, Air 2, cleaning air)
4. Micro EMD
5. Extension Interface (100 MBit)
6. Motor connector
7. Interface connection

**Operating conditions**

| Ambient temperature, robot | +5 °C to +45 °C |

**Protection rating**

| Protection rating, robot | IP 54 |

**Controller**

| KR C4 compact |

**Teach pendant**

| KUKA smartPAD |
An unbeatable team.

99.99%

Availability. Robust and low on maintenance, this unbeatable team works non-stop on your success.

The KR AGILUS small robot family. Solve automation tasks more flexibly. Minimize cycle times. Open up totally new areas of application. The extensive KUKA small robot series is 100 percent KUKA – reliable quality and durability, combined with maximum functional diversity and flexibility. Fastest small robots and the KUKA SafeOperation function – this combination is what gives the KR AGILUS series its major competitive advantage.

Small robots

Extremely fast, streamlined and robust.

The KR AGILUS small robot family. Solve automation tasks more flexibly. Minimize cycle times. Open up totally new areas of application. The extensive KUKA small robot series is 100 percent KUKA – reliable quality and durability, combined with maximum functional diversity and flexibility. Fastest small robots and the KUKA SafeOperation function – this combination is what gives the KR AGILUS series its major competitive advantage.

System controller: KR C4 compact

The small robot control system of the future.

With its compact dimensions and the powerful technology of the service-proven KR C4, the KR C4 compact offers maximum performance in minimum space. The revolutionary concept provides a firm foundation for the automation of tomorrow. Only KUKA offers integrated safety functions as a standard, together with open interfaces enables truly simple integration into the overall system. This significantly reduces the costs in automation for integration, maintenance and servicing. At the same time, the long-term efficiency and flexibility of the systems are increased. Benefit from the openness you need to meet tomorrow’s requirements.

Teach pendant: KUKA smartPAD

The simplest way of operating robots.

Touch screen. Graphics support. Flexible interaction. With its large touch screen, the KUKA smartPAD allows operation of both the robots and entire systems, all visually represented on the screen. The display adapts to show the user only those operator control elements that are needed at any given moment. Attention is always focused on what is important, allowing users to work more intuitively, quickly, easily and efficiently.

Function and technology packages

An optimally prepared, efficient software solution for every task. KUKA function and technology packages breathe life into the KUKA robots. They enable them to carry out particular industry-specific functions within an automation solution. Handling, machining, measuring, or function packages for conveyor synchronization or vision-controlled part detection. KUKA function and technology packages make automation easy.
The small robot control system of the future

The KR C4 compact offers high performance and reliability of the KR C4 technology in a compact design. Its flexible configuration and expansion capability make it a real all-rounder. The number of hardware components, cables and connectors has been significantly reduced and replaced by software-based solutions. The robust, high-quality controller is designed for low maintenance; the temperature-controlled fan technology only switches on briefly when needed, and is barely audible.

**Features and advantages**

- **SPACE-SAVING**
  - The compact dimensions of the housing enable space-saving installation in 19" enclosures or in small protective housings. Despite its compact size, the KR C4 compact offers the entire range of functions of the KR C4 controller.

- **ALL-ROUNDER**
  - Safety, Robot, Logic, Motion and ProcessControl – the KR C4 combines everything in a single controller. And allows effortless control of the entire system.

- **UNIVERSAL APPLICATION**
  - The open architecture of the KR C4 compact can control not only KUKA robots but also external axes – for maximum flexibility, scalability, performance and openness, in minimum space.

- **COMMUNICATION TALENT**
  - In addition to its own robot language KRL, the KR C4 also understands the language of the CNC machining world (G-code) and the language of PLCs, enabling it to communicate directly with your Siemens® or Rockwell® controller, for example.

- **ROBUSTNESS**
  - The consistent choice of durable components and the well-designed cabinet ensure long-term, reliable operation, even under extreme conditions.

- **ENERGY-EFFICIENT**
  - The energy management system allows the energy consumption of the controller to be reduced by up to 95% in standby mode. The improved cooling concept, combined with a temperature-controlled fan, further reduces the power dissipation of the controller, while making operation considerably quieter.

**Technical data**

- **Type**: KR C4 compact
- **Processor**: Multi-core technology
- **Hard drive**: HDD, SSD optional
- **Interface**: USB, EtherCAT, DVI-I
- **Field buses**: PROFINET, EtherCAT, PROFIHAN, DeviceNet, EtherCAT
- **Max. number of axes**: 6 + 6 (with additional axis box)
- **Protection rating**: IP 20
- **Dimensions (W x H x D)**: 460 mm x 271 mm x 483 mm
- **Weight**: 33 kg
- **Power supply connection**: 1 x 208 to 230 V AC
- **Rated supply voltage**: 49 to 61 Hz
- **Mains-side fusing**: 1 x 16 A slow-blowing
- **Operating conditions**: Ambient temperature: +5 °C to +45 °C

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KUKA smartPAD

KUKA smartPAD – Making robot operation really easy

TOUCH SCREEN, GRAPHICS SUPPORT, FLEXIBLE INTERACTION. The more diverse the robots' abilities become, the greater the importance of intuitive user interfaces for their operation. The KUKA smartPAD brilliantly demonstrates, on a large antireflection touch screen, just how simple it can be. Intelligent, interactive dialogs provide the user with those operator control elements that are currently required. This makes work easier, faster, more efficient and simply smarter all-round.

Features and advantages

- **UNIVERSAL APPLICATION**: Operate all KUKA robots and KR C4 controllers with the KUKA smartPAD.
- **ANTIREFLECTION TOUCH DISPLAY**: Simple operation via the well-lit 8.4” screen with intuitive user interface.
- **ERGONOMICALLY OPTIMIZED**: Designed to be user-friendly. High mobility and lightweight with an overall weight of just 1,100 grams.
- **HOT-PLUGGABLE**: If the KUKA smartPAD is not being used, it can be simply unplugged during ongoing operation and used for any other KR C4 controller.
- **INTEGRATED USB CONNECTION**: Direct saving and loading of configurations via USB port on the KUKA smartPAD itself.
- **HAPTIC JOG KEYS**: The combination of haptic jog keys and a haptically controlled mouse enables intuitive maneuvering with constant visual contact with the robot.
KUKA function and technology packages help you to solve specific automation tasks efficiently, with a minimum of programming. That’s because the portfolio of KUKA software solutions cover nearly all the common areas of application. On the basis of these packages, our KUKA system partners implement tailored solutions to meet every customer requirement.

**Function and technology packages for the KR C4 compact**

- **KUKA.WorkVisual**: Engineering environment for all KUKA robots for system configuration, programming, data backup, diagnosis, and more.
- **KUKA.Load**: Supports the evaluation of the load on a KUKA robot or the selection of a suitable robot for a given load.
- **KUKA.UserTech**: Fast programming of motion and program sequences using freely definable buttons, input masks and parameter lists.
- **KUKA.ExpertTech**: Faster, simpler programming even for non-experts in KRL code via menu-guided command selection.
- **KUKA.HMI Zenos**: Creation of customized, application-specific user interfaces for visualization and operator control without programming knowledge. Display and operation using the touch panel and keys of the KUKA smartPAD.
- **KUKA.RemoteView**: Allows remote access to the robot via a secure Internet connection, thereby offering the possibility of remote diagnosis or start-up support.
- **KUKA.VirtualRemotePendant**: Allows the use of EtherNet communication to run the user interface of the KUKA smartPAD on an external PC and to operate the robot.
- **KUKA.SensorTech**: Supports simple and flexible interfacing with sensors in the KR C4. It is also possible to integrate a number of channels with hard real-time requirements.
- **KUKA.VisionTech**: "onBoard" vision system including image processing, camera and sensors. Extensive configuration options enable the flexible use of the robot in an unstructured environment.
- **KUKA.ConveyorTech**: Organizes the cooperation of robots and conveyors. Allows efficient, dynamic handling of parts, even for complex applications.
- **KUKA.TorqueControl**: Takes account of process forces and torques exerted on the workpiece during machining, and controls and adjusts these as specified in the program sequence. In applications such as grinding, polishing, bending or even assembly, this technology package is an indispensable help.
- **KUKA.SafeOperation**: Flexible programming of safe cooperation between humans and machines. Definition of safe workspaces, velocities, envelopes around robot tools, and cooperation with the operator.
- **KUKA.SafeRangeMonitoring**: Beginners’ tool for limiting and monitoring the safety and work areas of the robot. The monitoring and limitation of statically defined axis ranges creates an adequate degree of work safety for many applications.

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Contact KUKA at:

www.contact.kuka-robotics.com

www.facebook.com/KUKA.Robotics

www.youtube.com/kukarobotgroup


KUKA small robots.