Lexium Cobot

Collaborative robot

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- [Lexium Robotics](#)
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- Product image, Instruction sheet, User guide, Product certifications, End of life manual

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> Locate the training center with the selector tool, using this link
Lexium Cobot
Collaborative robot

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  - Robots as partners to humans
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Collaborative robots (cobot) are a form of robotic automation designed to work safely alongside human workers in a shared, collaborative workspace. In most applications, a collaborative robot is tasked with repetitive, subordinated tasks while a human worker performs more complex and demanding tasks. The accuracy, uptime, and repeatability of collaborative robots are designed to complement the intelligence and problem-solving capabilities of a human worker.

Schneider Electric introduces Lexium Cobot — the range of collaborative robots — to its portfolio of Motion Control products for automation solutions, already including robotics (Lexium P & T — Delta Robots, Lexium PAS & PAD — Portal axes), Transportation system (Lexium MC12 — Multicarrier system), Motion controllers, Drives, Motors, ..., Please visit our Motion Control website.

Robots as partners to humans

Unlike the traditional industrial robot that works for humans, the collaborative robot (cobot) is made to work with humans. While the traditional industrial robot remains locked in its safety cage with safety barriers, the collaborative robot makes room for a real interaction between man and robot. The focus is on cooperation when the more traditional robot remains alone in its safety enclosure.

- The human aspect of cobot can also be seen in their function: cobot does not replace employees, on the contrary, cobot enhances the value of employees by allowing them to increase their skills or to devote themselves to tasks with greater added value, for example, programming the cobot.
- The cobot allows companies to reduce the drudgery of the employees’ work. The cobot performs tasks with low added value, difficult and/or unpleasant for its teammate, tasks reducing the risk of musculoskeletal disorders (MSD) for its employees.

Reliable robots

In order to be able to work next to its human colleagues, the cobot is programmed to stop immediately in case of danger to people in the vicinity. The robot is equipped with a series of sensors to avoid collisions with human workers, as well as safety protocols to stop in case of unexpected contact, avoiding the installation of safety barriers.

- Safe cooperation with humans: thanks to its 6 torque sensors and a counterweight mechanism, the robot guarantees outstanding safety
- Collision protection
- With their rounded edges, force limits and light weights, collaborative robots are designed for safety
- Optional visual protection (planned for a future launch)
- Precise force control (planned for a future launch)

Basic robot

- Lexium Cobot is able to learn by teaching and free-drive functions: the user can teach points or paths to use in the application.
- The collaborative robot does not require advanced skills, but the common sense and judgment of a human being.
- Lexium Cobot can be easily programmed: while the traditional industrial robot will require advanced computer programming skills, Lexium Cobot is simple to program and allows for simple functionalities to program the robot oneself. In some cases, the robot can be shown how to perform a task by physically moving the robot’s arm to the correct locations. This allows collaborative robots to automate several different tasks with fast changeover times, and productivity.
General

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Flexible robot

Lexium Cobot can be easily moved, re-installed and re-programmed, and integrated into multiple projects, rather than simply being confined to a single task like the traditional industrial robot.

- The versatility of the cobot allows it to work in two ways in its environment:
  - Cooperative work: the human delegates tasks to the cobot
  - Collaborative work: the cobot and the human interact together on the same element at the same time.
- In addition to bringing ergonomics to the workstation and reducing drudgery, the cobot contributes to improving the quality of life at work.

Cost-effective robots

- The use of Lexium Cobot allows to save 30 to 40% of floor space compared to a traditional robotic cell, and to eliminate safety barriers.
- Better return on investment thanks to the flexibility of the cobot allowing its integration to multiple projects within the company instead of the execution of a single operating mode as in traditional robotics.

Applications

Future of the business
- Soldering printed circuit boards or packing hundreds of boxes on a production line does not attract anyone in the industry (huge, dangerous and noisy industrial machines). In Industry 4.0, the operator works together with intelligent and manipulative robots: Lexium cobot is an excellent tool to attract new operators because it makes their work more intellectually interesting, more comfortable and less painful.
- The benefits of Lexium Cobot in terms of image for the company with its customers. A company using collaborative robots gives an image of modernity and efficiency. The advantages brought by collaborative robots allow companies to tackle high-tech or more specialized markets.

Fields of application
- CPG (Consumer Packaged Goods)
  - Dispensing
  - Loading/unloading
  - Filling/Capping
  - Case erector
- Automotive
  - Assembly
  - Painting
  - Polishing
  - Screw-driving
  - Pick and Place
- Electronics
  - Screw-driving
  - Inspection
  - Assembly
  - Soldering
- Metal & Machinery
  - Palletizing
  - Loading/unloading
  - Machine tending
  - Bin picking.
Offer components

Cobots
- It consists of a series of 5 collaborative robots characterized by:
  - their payload capacity from 3 to 18 kg (6.61...39.68 lb)
  - their execution speed 1.5 to ...3.5 m/s (4.92...11.48 ft/s)
  - their working range 626 mm to 1327 mm (24.65...52.24 in)
  - their positioning accuracy ± 0.02 to ± 0.03 mm (0.0007...0.0012 in).
- Each cobot has 6 articulated arms giving it 6 degrees of freedom, and is equipped with 2x Digital inputs, 2x Digital outputs, and 1x Analog input.

Cobot controllers
- To operate, the cobot is associated to a controller. Two types are provided:
  - Cobot controller (100-240 V AC, IP Level IP44) is designed for standalone solutions or customer solutions
  - Cobot Compact controller (48 V DC, IP Level: IP20) is used when integrating Lexium Cobot as part of a solution architecture.

The Cobot controllers communicate with the following protocols: TCP/IP, Modbus TCP, Modbus RTU, Profinet, and Ethernet/IP.

Control stick
- Along with the cobot controller, a control stick is provided, and when the programming job is finished, it could be used to monitor the robot.

Software
- The programming of the cobot is done on a graphic tablet with EcoStruxure Cobot Expert software available via download on Google Play store or Machine Expert Installer.

In the case of integration of Lexium Cobot in a Schneider Motion Control architecture, it can be supported by EcoStruxure Machine Expert and EcoStruxure Machine Expert Twin software.

Installation

Cobots
- The cobot has an attitude and position adaptation function. It can be mounted (on its base) in different ways: on the floor, on a wall, on the ceiling of the work area, or installed on a linear axis (vertical or horizontal). Mounting of the cobot is by four M8 bolts on four holes (9 mm/0.354 in) located on its base.
- The gripper tool is intended to be installed on the tool end.

All joints of the cobot can move ±360° and be placed in any position (standard articulated robots have limits for movement, space/radius of operation). Precise servo control of the joints: 6 arms assembled on 6 axes of rotation give them 6 degrees of freedom, and establish the range of action (working range) of each robot model.
- The objective of the installation is to ensure that there is no risk for operators:
  - marking of the right-of-way area on the ground
  - installation of emergency stop buttons
  - analysis of the robot trajectories
  - training of the people handling the robot.

This leads to the definition of 5 work space configurations in volume to ensure the integral safety of the operators and to improve the global productivity
  - Collaborative work area
  - Robot work area
  - Protected area
  - Tool orientation restriction zone
  - Collision detection deactivation zone.

Cobot controllers
- The Cobot controller is designed to be mounted floor standing, placed next to the cobot, placed freely in its work area, and connected to it using the robotic connection cable (6 m/19.68 ft long), supplied with the controller.

The Cobot Compact controller is designed to be mounted on panel or guide rail in a Steel enclosure.

Power supply
- For Standalone solutions, use an external single-phases power supply, Please consult our Modicon Power supply catalogue.

When integrated in enclosures (Integration in Schneider Electric Machine Control solution), the Cobot Compact controller benefits from the main power supply.
## Certification and standards

Lexium Cobot offer complies with the following directives and standards.

<table>
<thead>
<tr>
<th>Directive</th>
<th>Harmonised Standard</th>
</tr>
</thead>
</table>
EN 60204-1 Safety of machinery – Electrical equipment of machines – Part 1: General requirements  
EN ISO 12100 Safety of machinery – Basic concepts, general principles for design – Part 1: Basic terminology, methodology  
EN ISO 13849-1 Safety of machinery – Safety related parts of control systems – Part 1: General principles for design |
EN 61000-6-4 Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments |
| Functional Safety Certification SGS – PLd | ISO 13849-1 Safety of machinery – Safety related parts of control systems – Part 1: General principles for design |
| Cleanroom | ISO 14644-1, Cleanroom Class-5  
ISO 9001 |
| Markings (The currently applicable markings are visible on the product type plate.) | CE  
KCs certification is issued according to the Korea Occupational Safety and Health Agency (KOSHA)  
KC certification is issued according to the Radio Wave Act in Korea |
| NRTL for North America | UL1740 (pending)  
ANSI/RIAR15.06 (Functional)  
CAN/CSA-Z434 (Functional)  
NFPA79 (Functional)  
CAN/CSA C22.2 No.14 (Functional) |

## Green Premium™

Green Premium™ is the only label allowing you to develop effectively an environmental policy and to promote it, while preserving your business efficiency. Lexium Cobot offer will be Green Premium (1), designed to limit its carbon footprint:

- Transparent environmental information about Schneider Electric products available digitally 24/7
- Minimal use of hazardous substances in, and beyond, compliance with regulations (RoHS and REACh)
- Environmental Disclosure such as a Product Environmental Profiles (PEP) to provide robust environmental information
- Circularity Profiles to provide guidance on responsible product end of life treatments along with circular value propositions

Experience our offer on [se.com/green-premium](http://se.com/green-premium)

(1) Expected in the first quarter of 2023.
Standalone solution (customer solution)

The cobot and the cobot controller can work as an autonomous system. In this case, each cobot needs a cobot controller, which is bundled to it according to the payload.

Combinations of cobot and controller for a standalone solution

<table>
<thead>
<tr>
<th>Cobot controller</th>
<th>LXMRL03S0000 (1)</th>
<th>LXMRL05S0000 (1)</th>
<th>LXMRL07S0000 (1)</th>
<th>LXMRL12S0000 (1)</th>
<th>LXMRL18S0000 (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LXMR03C1000</td>
<td>☑ 3 kg payload</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>LXMR05C1000 (1)</td>
<td>na</td>
<td>☑ 5 kg payload</td>
<td>☑ 7 kg payload</td>
<td>na</td>
<td>na</td>
</tr>
<tr>
<td>LXMR12C1000 (1)</td>
<td>na</td>
<td>na</td>
<td>na</td>
<td>☑ 12 kg payload</td>
<td>☑ 18 kg payload</td>
</tr>
</tbody>
</table>

Nota: Each cobot needs a cobot controller.

Standalone solution of the cobots

- The cobot is bundled to a cobot controller, their programming is done by the operator
- Operators can change settings without the need for specialized robotics expertise
- Tablet configuration: support for IOS (1), Android and Windows and wireless connection
- Easy control and programming, including learning by direct manual guidance by pressing the "Teach".
- The cobots are equipped with safety features and do not require fencing or other industrial safety equipment, further reducing costs while decreasing integration time
- Wide range of fieldbus systems for Cobot controller: TCP/IP, Modbus TCP, Modbus RTU, Profinet, Ethernet/IP
- The ease of programming a collaborative robot reduces the time and resources needed for integration, which lowers the investment in automation.

(1) Scheduled for commercialization in the first quarter of 2023.
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**Operation**

**Integration in Schneider Electric Machine Control solution**

Lexium Cobot becomes a part of a complete machine control solution: Lexium Cobot can be combined to Lexium PAD portal axe (linear axes to move the robot on an additional axis, horizontally or vertically), monitored by a Modicon M262 motion controller on Sercos bus, and with Ecostruxure Machine software solutions.

<table>
<thead>
<tr>
<th>Apps, Analytics &amp; Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>EcoStruxure Factory Advisor</td>
</tr>
<tr>
<td>EcoStruxure Machine Advisor</td>
</tr>
<tr>
<td>EcoStruxure Secure Connect Advisor</td>
</tr>
<tr>
<td>EcoStruxure Augmented Operator Advisor</td>
</tr>
<tr>
<td>EcoStruxure Clean in Place Advisor</td>
</tr>
</tbody>
</table>

**Edge control**

- Modicon M262 IIoT-ready logic/motion controller
- Harmony IPC Industrial PC, Edge Box and Display
- Ecostruxure Machine Expert Software for developing, configuring, and commissioning the entire machine
- Ecostruxure Machine Expert Twin Scalable digital twin software suite for your entire machine lifecycle

**Connected products**

- Lexium PAS, PAD Linear axes with movable carriage and fixed axis
- Lexium 32 Servo drives + Safety card
- PowerLogix™ PowerTag Wireless energy sensor
- Harmony Hub Wireless ecosystem device, (Ethernet gateway)

**Combination of cobot and controller for integration in machine control solution**

<table>
<thead>
<tr>
<th>Cobot</th>
<th>LXMRL03S0000</th>
<th>LXMRL05S0000</th>
<th>LXMRL07S0000</th>
<th>LXMRL12S0000</th>
<th>LXMRL18S0000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compact controller</td>
<td>(1)</td>
<td>(1)</td>
<td>(1)</td>
<td>(1)</td>
<td>(1)</td>
</tr>
<tr>
<td>LXMRL00C2000</td>
<td>3 kg payload</td>
<td>5 kg payload</td>
<td>7 kg payload</td>
<td>12 kg payload</td>
<td>18 kg payload</td>
</tr>
</tbody>
</table>

**Nota** Each cobot needs a controller.

**Integration into a complete EcoStruxure machine solution for targeted applications**

- Control integration with hardware platform from the Schneider portfolio (Modicon M262 or PacDrive LMC Eco, LMC Pro motion controllers, configured with Ecostruxure Machine Expert software.
- Software Integration
  - Integration interface to Machine Expert robot library
  - Integration with EcoStruxureMachine Expert Twin for simulation and digital twin
  - Available predefined function blocks.
- Communication Integration
  - Wide range of field buses to communicate with controllers via Ethernet (including third party PLC / iPC for system approach)
  - Integration of Automation Expert with Next Generation Motion.

(1) Scheduled for commercialization in the first quarter of 2023.
## Selection guide

**Lexium Cobot**  
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<table>
<thead>
<tr>
<th>Robot type</th>
<th>Collaborative robot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. payload</td>
<td>3 kg (6.61 lb)</td>
</tr>
<tr>
<td></td>
<td>5 kg (11.02 lb)</td>
</tr>
<tr>
<td></td>
<td>7 kg (15.43 lb)</td>
</tr>
<tr>
<td></td>
<td>12 kg (26.45 lb)</td>
</tr>
<tr>
<td></td>
<td>18 kg (39.68 lb)</td>
</tr>
</tbody>
</table>

### Degree of freedom (Number of axes)

<table>
<thead>
<tr>
<th></th>
<th>6</th>
<th>6</th>
<th>6</th>
<th>6</th>
<th>6</th>
</tr>
</thead>
</table>

### Operating radius (working range)

|      | 626 mm (24.64 in) | 564 mm (37.55 in) | 819 mm (32.24 in) | 1327 mm (52.24 in) | 1073 mm (42.24 in) |

### Positioning accuracy

|      | ± 0.02 mm (0.0007 in) | ± 0.02 mm (0.0007 in) | ± 0.03 mm (0.0012 in) | ± 0.03 mm (0.0012 in) | ± 0.03 mm (0.0012 in) |

### Robotic arm

<table>
<thead>
<tr>
<th>Joint</th>
<th>Degree of motion</th>
<th>Max. speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joint 1</td>
<td>± 360°</td>
<td>180°/s</td>
</tr>
<tr>
<td>Joint 2</td>
<td>-85°...+265°</td>
<td>180°/s</td>
</tr>
<tr>
<td>Joint 3</td>
<td>± 175°</td>
<td>180°/s</td>
</tr>
<tr>
<td>Joint 4</td>
<td>-85°...+265°</td>
<td>180°/s</td>
</tr>
<tr>
<td>Joint 5</td>
<td>± 360°</td>
<td>220°/s</td>
</tr>
<tr>
<td>Joint 6</td>
<td>± 360°</td>
<td>220°/s</td>
</tr>
</tbody>
</table>

### Maximum speed of the tool end

<table>
<thead>
<tr>
<th></th>
<th>1.5 m/s (4.92 ft/s)</th>
<th>3 m/s (9.84 ft/s)</th>
<th>3.5 m/s (11.48 ft/s)</th>
</tr>
</thead>
</table>

### Base diameter

|      | 129 mm (5.07 in) | 158 mm (6.22 in) | 188 mm (7.40 in) |

### Power consumption

<table>
<thead>
<tr>
<th></th>
<th>150 W</th>
<th>350 W</th>
<th>500 W</th>
</tr>
</thead>
</table>

### Embedded I/O

- 24 VDC powered I/O:
  - 2x Digital inputs
  - 2 Digital outputs
  - 1x Analog input

### Tool I/O size

- M8

### Material

- Aluminum

### Cable (between robot and controller)

- 6 m long (19.68 ft)

### Programming

- Graphical Drag & Drop with Tablet

### Teach-in device

- Android tablet/Android App

### Collaborative Standard

- Standard GB11291.1-2011 (1)

### Operating temperature

- 0...50°C (32...122 °F)

### IP level

- IP44

### Cobot installation

- Any position

### Cobot reference

<table>
<thead>
<tr>
<th></th>
<th>LXMRLO3S0000 (2)</th>
<th>LXMRLO5S0000 (2)</th>
<th>LXMRLO7S0000 (2)</th>
<th>LXMRLO12S0000 (2)</th>
<th>LXMRLO18S0000 (2)</th>
</tr>
</thead>
</table>

### Compatible controller

- Cobot controller 30-60 V DC  
  9ª Level: IP44

<table>
<thead>
<tr>
<th></th>
<th>LXMRLO3C1000 (2)</th>
<th>LXMRLO5C1000 (2)</th>
<th>LXMRLO12C1000 (2)</th>
</tr>
</thead>
</table>

### Cobot Compact controller

- 30...60 V DC  
  9ª Level: IP20

<table>
<thead>
<tr>
<th></th>
<th>LXMRLO6C2000 (2)</th>
</tr>
</thead>
</table>

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1. GB standards are the China national standards, also called as Guobiao Standards. Prefix code GB are mandatory standards that have the force of law as do other technical regulations in China.
**Description**

The robot consists mainly of six joints and aluminum tube arms.

1. Joint 1 is the base (Flange) of the robot used to install the robot, and containing a force sensor (six-dimensions sensor), with M8 connector on the robot flange
2. Joint 2
3. Joint 3
4. Joint 4
5. Joint 5
6. Joint 6 supports
   - tool end, used to mount the tool (gripper). The tool can perform translational and rotational movements in the robot’s working range.
   - Ring indicator, to show the current status of the Cobot operation
   - Drag and play mode button, Pause button
   - Real-time force information display
   - and optional camera 2D (1)

**Cobot controller**
Dimensions (WxHxD): 410 x 307 x 235 mm (16.14 x 12.08 x 9.25 in)
1. Handle
2. Communication interface
3. Connector to connect the controller to the cobot
4. Power supply connector (100-240 VAC)

**Cobot Compact controller**
Dimensions (WxHxD): 180 x 47 x 128 mm (7.08 x 1.85 x 5.03 in)
1. Cobot connector
2. Power supply connector (24V DC)
3. Configurable digital I/O connector
4. Communication interface connector (RJ45) (2)
5. Emergency stop connector

(1) Scheduled for commercialization in the first quarter of 2023.
(2) An ethernet hub must be used if multiple connection are needed, consult the Modicon Networking offer.
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**References**

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<table>
<thead>
<tr>
<th>Robots</th>
<th>Payload (kg)</th>
<th>For use with controller</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collaborative robot</strong> with 6 degrees of freedom</td>
<td>3 (6.61)</td>
<td>LXMRL03C1000</td>
<td>LXMRL03S0000</td>
<td>12.000</td>
</tr>
<tr>
<td></td>
<td>5 (11.02)</td>
<td>LXMRL05C1000</td>
<td>LXMRL05S0000</td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td>7 (15.43)</td>
<td>LXMRL07C1000</td>
<td>LXMRL07S0000</td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td>12 (26.45)</td>
<td>LXMRL12C1000</td>
<td>LXMRL12S0000</td>
<td>(1)</td>
</tr>
<tr>
<td></td>
<td>18 (39.68)</td>
<td>LXMRL18C1000</td>
<td>LXMRL18S0000</td>
<td>(1)</td>
</tr>
</tbody>
</table>

**Cobot controllers**

<table>
<thead>
<tr>
<th>Designation</th>
<th>For use with Robot type</th>
<th>Payload (kg)</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cobot controllers</strong></td>
<td>LXMRL00C2000</td>
<td>3 to 18 (6.61 to 39.68)</td>
<td>LXMRL00C2000</td>
<td>1.1000</td>
</tr>
</tbody>
</table>

**Cobot Compact controller** (Panel mount)

<table>
<thead>
<tr>
<th>Designation</th>
<th>For use with Robot type</th>
<th>Payload (kg)</th>
<th>Reference</th>
<th>Weight kg/lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cobot Compact controller</strong></td>
<td>LXMRL00C2000</td>
<td>3 to 18 (6.61 to 39.68)</td>
<td>LXMRL00C2000</td>
<td>1.1000</td>
</tr>
</tbody>
</table>

**Configuration software**

- EcoStruxure Cobot Expert software
  
  For Windows version: ESME installer
  
  For Android version: Google Play

**Customization**

- Customization and bundling is possible through Customer Care Center:
  
  - Color change  
  - Brand printing  
  - IP level IP69K rating

**Accessories for cobots**

- Force sensor base
- Force sensor flange
- Camera 2D
- Visual protection system

(1) Scheduled for commercialization in the first quarter of 2023.
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| LXMRL12S0000 | 11 |
| LXMRL18S0000 | 11 |
| LXMRL03C1000 | 11 |
| LXMRL05C1000 | 11 |
| LXMRL12C1000 | 11 |
| LXMRL00C2000 | 11 |

(1) Scheduled for commercialization in the first quarter of 2023.
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