

---

# ABB GoFa™ CRB 15000

IRB15000 Collaborative Robot System

**Strong yet safe robot designed to handle payloads up to 5 Kg (11 lbs.)**

GoFa incorporates a range of features that allow it to be used safely, directly alongside human workers and without the need to design and build bulky barriers or fencing. GoFa can continuously share workspace with people, giving it maximum flexibility and efficiency. Robot and human cooperate on the same tasks, without jeopardizing productivity or safety. The GoFa robot offers versatility in applications such as small part assembly, pick & place, or load / unload applications.

**Wizard easy programming - An easy and intuitive way to program!**

ABB's Wizard easy programming is an easy graphical programming interface for your robot. Only a few minutes after the installation you will be able to operate your YuMi - no specialized training or programming skills are required. > [Learn more](#)



## Video Links:

- [Meet ABB's GoFa](#)
- [How to use Lead through with the GoFa](#)
- [Step-by-step guide on pick / place app w/ Wizard Easy Programming Tool](#)

## Robot System includes:

- Robot arm
- Robot controller
- FlexPendant
- Cables & Software

**P/N CRB15000-CONFIG1**

# ABB GoFa™ CRB 15000

CRB15000 Collaborative Robot Arm

Robot Features	
Description	Specification
No. of Axes	6
Weight	18 Kg / 39.7 lbs.
Robot Reach	950 mm / 37.4 inches
Payload Capacity	5 Kg / 11 lbs.
Position Repeatability	0.05 mm / .002 in
Protection Class	IP54
Max Velocity <sup>1,2</sup>	2.2 m/s or 7.2 ft / sec
Robot cable	7 m / 23 ft

<sup>1</sup> Safe collaborative speed will be lower, refer to the SafeMove configurator app for recommendation.

<sup>2</sup> Always do a safety risk assessment of your cobot application

## Key features

- 5 Kg rated payload
- Superior power and force limiting performance
- Safe design of robot, rounded geometry, no pinch/trap points
- High speed and accuracy
- PL d Cat 3 Protective stop and emergency stop
- Powered by ABB OmniCore™ Controller

## Customer benefits

- Short cycle times
- Fenceless operation<sup>2</sup>
- Easy programming with lead-through
- Lower investment
- Easier to integrate



# ABB OmniCore™ robot controller for GoFa™ CRB 15000

## OmniCore™ C30 Desktop Controller

### OmniCore™ C30 Robot Controller Features

Description	Specification
Weight <sup>1</sup>	22 -28 Kg / 48 – 62 lbs.
Dimensions	509 mm x 514 mm x 193 mm 20.0 in x 20.2 in x 7.6 in
Protection Class	IP20
Communication	Ethernet: Private LAN, IO LAN, & WAN (Public)
Optional IO Gateways	Ethernet IP, ProfiNet, ProfiSafe, CC-Link, DeviceNet
Power Input Requirements	100 – 230 VAC, Single Phase
Digital I/O	24 VDC, 16 inputs / 16 Outputs
Programming Teach Pendant	ABB FlexPendant with 3 m cable, USB 3.0, graphical multi-touch 8" color screen with joystick and 12 button membrane keyboard
Software	Programming through the FlexPendant or ABB's Programming Wizard is standard. Robot Studio is optional

<sup>1</sup> Depending on robot variant

### Key features

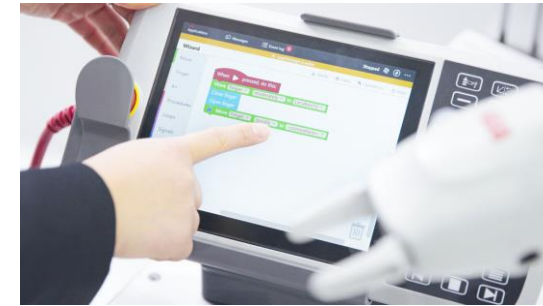
- Extensive integration possibilities
- Desktop version for elegant cable management for easy integration
- New FlexPendant Design (Robot Teach Pendant)
- Best In Class Motion
- Cyber security features protect the robot from intrusion and unverified software installation

### FlexPendant key features

- Modern, intuitive, and powerful
- Large multi-touch display with standard gestures such as pinch, swipe and tap
- Hot swappable (Optional). Unplug during operation and share among several robots
- Extensive customization possibilities

### Customer benefits

- The OmniCore controller's compact design offers space saving benefits along with a variety of flexible integration possibilities
- ABB's Wizard graphical programming software makes it easy to begin programming the robot without any specialized training or programming skills



# ABB GoFa™ CRB 15000

## Additional robot system details

### MANIPULATOR Attributes

3300-19	CRB 15000 (GoFa™) 5kg, 0.95m reach
3350-540	Manipulator Protection Level: IP 54

### OmniCore Controller Attributes

3000-130	OmniCore C30 Controller
3001-2	Desktop Encapsulation Option
3004-1	Max Temp Rating: 45° deg C
3006-1	UL/CSA
3007-2	Power Input: 100-230 VAC, Single Phase
3013-3	Connected Services Gateway: 3G Mobile Network
3014-1	5 Port Ethernet switch option
3016-1	FlexPendant with 3m cable
3024-1	Ethernet IP Scanner option
3032-1	24 VDC Digital I/O: 16 In/16 Out
3043-3	SafeMove Collaborative
3044-2	2 modes Keyless

### Floor Cables

3200-2	7m Manipulator Cables
3203-7	Power Input Cable, 5m

- Specifications
- Single Phase 220/230V, 50-60Hz
  - 5-45°C Ambient Temp
  - IP20 Protection
  - 449mm x 443mm x 170mm
  - 24kg



Ethernet IP Scanner needed for communication of multiple Ethernet devices such as smart grippers or PLC's



Supply voltage	21-28 V DC
Output current, nominal	500 mA per output, short circuit protected
Input voltage levels	30-5 V digital low 15-30 V digital high
Input current	<0.5 mA



The option SafeMove Collaborative gives you access to the configurator Visual SafeMove in RobotStudio.

# ABB GoFa™ CRB 15000

## Additional robot system details

Software Attributes (ABB's RobotWare)		Description
3106-1	World Zones	Used to supervise zones in space regarding tool positions and arm configurations (joint).
3107-1	Collision Detection	Collision detection is a software option, which reduces collision impact forces on the robot. In this way, the robot and external equipment can be protected from severe damage.
3150-1	Collision Avoidance	Collision avoidance is a software option that enables the possibility to stop the robot before colliding with fixed objects, such as fences, the floor or equipment in the cell. A collision model for the objects need to be built and downloaded to the controller using RobotStudio.
3113-1	Path Recovery	The Path Recovery option is used to store all system data, when an interruption occurs (fault message or other) and restores them after necessary actions have been taken.
3114-1	Multitasking	The Multitasking Option gives the possibility of executing up to 20 programs (tasks) in parallel, including the main program. Multitasking can be used to control peripheral equipment or other processes concurrently with robot motion.
3119-1	Robot Studio Connect	This option allows RobotStudio to connect to the robot using the public network interface (WAN).
3120-2	Essential App Package	The option Essential app package includes features that will make it easy and efficient to work with the robot system. Jog functionality is improved with 3D illustrations, and dashboards makes it easy to view the system status at a glance
3151-1	Program Package	The option Program package is required in order to create new and edit existing RAPID programs on the FlexPendant. If the program package is not selected with the FlexPendant, RobotStudio must instead be used on a separate PC to create and edit RAPID programs.
3121-1	RW Add-In prepared	RobotWare Add-In prepared makes it possible to run licensed Add-Ins from 3rd party developers on the IRC5 controller.

---

# ABB GoFa™ CRB 15000 Product Links

**GoFa CRB 15000 Robot Data Sheet**

[GoFa CRB 15000 Link](#)



**GoFa CRB15000 Web Page**

[More Information](#)



**Robot Controller Data Sheet**

[OmniCore Controller Link](#)



**OmniCore Controller Web Page**

[More Information](#)

