The Complete Solution
Robotics Services to your Benefit
eCobra Series

**Vision and Inspection Guidance**

**Software and Control**

**Service and Support Options**

**Field Service and Support**

**Educational Services**

**Maintenance Contracts**

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**eCobra 600 SCARA 4-Axis**

eCobra is the newest family of 4-axis SCARA robots. The eCobra SCARA robot (4-axis robot) features up to a 800-mm reach, and is available in three performance tiers – eCobra Lite, eCobra Standard, and eCobra Pro – each designed to address different application complexity and throughput requirements. With all controls fully embedded into the robot, eCobra robots offer a compact system footprint, saving valuable floor space while minimizing installation costs and complexity. Omron eCobra robots provide maximum value by ensuring users only pay for the level of performance their application needs. All eCobra robots share a common hardware platform, with performance and price determined by a software license. This unique family ensures that users receive the highest quality, most durable robots at every performance level.

**FEATURES**

- All amplifiers and controls are fully embedded into the robot
- Three performance levels (Lite, Standard, and Pro) based on a common hardware platform
- Advanced features such as direct PLC programming are included in Standard and Pro performance tiers
- ACE™ software manages robots, conveyors, feeders, and device I/O assignment through a single user-friendly, PC-based interface
- High-efficiency, low-inertia

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**PLUG AND PLAY KIT BASIC**

<table>
<thead>
<tr>
<th>Omron Item</th>
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<tr>
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<td>Fan, AIB</td>
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<td>Lamp, Front panel</td>
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<tr>
<td>Cable XSystem, with Jumpers</td>
<td>3932-000</td>
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<tr>
<td>PC Front Panel Assy with Cable</td>
<td>90356-0358</td>
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<td>PCA Diagnostic Board</td>
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**PLUG AND PLAY KIT PREFERRED**

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<tr>
<td>Memory Card Micro SD (eAIB)</td>
<td>Request eV+ Version</td>
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The mentioned components above can be used by personnel without any special training but with telephone support by the Omron Robot Service if necessary or by consulting the relating User’s Guide.

Above spare part bundles are based on the standard/pro model of the robot. In case of different robot types such as cleanroom and IP65 the content of bundle might differ.

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**eCobra 800 SCARA 4-Axis**

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industrial.omron.eu/ecobra
Operational robot will experience natural wear-out of its mechanical parts. Omron recommends robot users to stock following spare-part packages:

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<tr>
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<tr>
<td>Amplifier HV2A</td>
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<tr>
<td>Fan, eMB60R</td>
<td>02729-000F</td>
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<td>27400-29006</td>
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<tr>
<td>PCI Front Panel Assy with Cable</td>
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</tr>
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<tr>
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<td>05701-000</td>
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<tr>
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<tr>
<td>Amplifier HV2A</td>
<td>11002-000L</td>
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<td>Fan, eMB60R</td>
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<td>Lamp, Front panel</td>
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<td>Memory Card Type SD</td>
<td>Request eV+ version</td>
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Above spare part bundles are based on the standard model of the robot. In case of different robot types such as cleanroom and IP-65 the content of bundle might differ.

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**Viper Series**

**Viper 650**

The Viper 650 robot is part of a high-performance line of 6-axis robots designed for applications ranging from assembly, material handling, packaging and machine tending, to medical, pharmaceutical and other operations requiring fast and precise automation. The Viper 650 robot has 650 mm reach, and is available in standard, cleanroom and IP-65.

**FEATURES**

- **ACE™** software for programming
- High-resolution, absolute encoders provide high precision, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia Harmonic Drive™ and a lightweight arm deliver maximum acceleration
- 8 kHz servo update rate for improved path following and control
- Integrated temperature sensors monitor heat in servo motors to prevent damage
- Diagnostics display enables faster troubleshooting
- Ethernet TCP/IP capability

industrial.omron.eu/viper

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**Viper 850**

The Viper 850 robot is part of a high-performance line of 6-axis robots designed for applications ranging from assembly, material handling, packaging and machine tending, to medical, pharmaceutical and other operations requiring fast and precise automation. The Viper 850 robot has 850 mm reach, and is available in standard, IP65 and cleanroom versions.

**FEATURES**

- **ACE™** software for programming
- High-resolution, absolute encoders provide high precision, superior slow-speed following, and easy calibration
- High-efficiency, low-inertia Harmonic Drive™ and a lightweight arm deliver maximum acceleration
- 8 kHz servo update rate for improved path following and control
- Integrated temperature sensors monitor heat in servo motors to prevent damage
- Diagnostics display enables faster troubleshooting
- Ethernet TCP/IP capability

industrial.omron.eu/viper
Hornet Series

Hornet 565

The Hornet 565 is a parallel robot for high speed picking and packaging applications. Powerful controls are fully embedded into the base of the robot, saving valuable floor space and reducing installation costs and complexity. The Hornet 565 features a hygienic design that minimizes contamination risks, including a standard IP65 rated lower half and corrosion resistant materials for easy wash down. Optional IP65 rated version is available.

FEATURES
• All amplifiers and controls are fully embedded into the robot, maximizing floor space and simplifying installation
• Extended vertical reach provides a larger workspace, enabling a wide variety of packages to be used.
• Industry leading conveyor tracking capabilities for faster throughput and more repeatability
• ACE™ software minimizes system deployment and testing time and includes a powerful 3D emulator that allows complete system configuration and testing in a virtual environment
• Troubleshooting
• Ethernet TCP/IP capability

Quattro Series

Quattro 650H

The Quattro is a parallel robot specifically designed for high-speed manufacturing, packaging, material handling, and assembly. It is the only robot in the world that features a four-arm rotational platform. The Quattro is designed for maximum speed, maximum acceleration, and exceptional performance across the entire work envelope. Compact controls and embedded amplifiers make installation easy and reduce workspace requirements.

FEATURES
• Four-arm design delivers consistent speeds for higher throughputs
• Robust components and design reduce maintenance costs with maximum uptime
• High-resolution, absolute encoders provide high precision, superior slow-speed following, and easy calibration
• High-efficiency, low-inertia drives and a lightweight arm deliver maximum acceleration
• 8 kHz servo update rate for improved path-following and control
• Integrated temperature sensors monitor heat in servo motors to prevent damage
• Diagnostic display on robot enables faster troubleshooting
• Embedded amplifiers and compact controls maximizes space efficiency

Operational robot will experience natural wear-out of its mechanical parts. Omron recommends robot users to stock following spare parts:

RECOMMENDED SPARE PARTS

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Part Number</th>
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<tr>
<td>Hornet eAIB Amplifier assembly*</td>
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<td>Ball Joint, Stainless Steel</td>
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<td>Ball Joint, Spur, Inset Kit</td>
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<td>Springs/Bushings, Quattro Kit</td>
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<td>Cable, SYSTEM, with Jumpers</td>
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<tr>
<td>Fan Assy</td>
<td>09093-000</td>
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<tr>
<td>Battery, Enclosed Backup</td>
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<tr>
<td>Diagnostic Display Assembly</td>
<td>14298-000</td>
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<tr>
<td>Drive Shaft Assembly, Joint 4</td>
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<tr>
<td>Lamp, High Power Indicator</td>
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<tr>
<td>Outer Arm Assembly</td>
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<td>Platform Assembly, Fixed, 3-axis</td>
<td>14188-000</td>
</tr>
<tr>
<td>Platform Assembly, Joint 4</td>
<td>14380-000</td>
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</tbody>
</table>

* Recommended if multiple robots are installed

Operational robot will experience natural wear-out of its mechanical parts. Omron recommends robot users to stock following spare-part packages:

PLUG AND PLAY KIT BASIC

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<th>Omron Item</th>
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<tbody>
<tr>
<td>Cable XSYS (EX/eAIB)</td>
<td>11585-000</td>
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<tr>
<td>Cable 1394, 4.5m</td>
<td>13632-045</td>
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<tr>
<td>ASSEMBLY, FAN, AIB, QUATTRO</td>
<td>09093-000</td>
</tr>
<tr>
<td>Backup Battery</td>
<td>09977-000</td>
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<tr>
<td>Assembly, Fan, Motor, Quattro</td>
<td>09094-000</td>
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<tr>
<td>Amplifier, HV1A</td>
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<tr>
<td>Assembly, Outer Arm, Quattro</td>
<td>09756-210</td>
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<tr>
<td>Lamp, Front panel</td>
<td>27400-3006</td>
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<tr>
<td>H2O Front Panel Assy with Cable</td>
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PLUG AND PLAY KIT PREFERRED

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<td>09046-1058</td>
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<tr>
<td>Memory Card Type SD(ex controller)</td>
<td>Request eV+ version</td>
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industrial.omron.eu/hornet

industrial.omron.eu/quattro
Quattro Series

The Quattro is a parallel robot specifically designed for high-speed manufacturing, packaging, material handling, and assembly. It is the only robot in the world that features a four-arm rotational platform & accepted by the USDA for primary food packaging of meat & poultry. The Quattro is designed for maximum speed, maximum acceleration, and exceptional performance across the entire work envelope. Compact controls and embedded amplifiers make installation easy and reduce workspace requirements.

**FEATURES**
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- High-efficiency, low-inertia drives and a lightweight arm deliver maximum acceleration
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- Integrated temperature sensors monitor heat in servo motors to prevent damage
- Diagnostic display on robot enables faster troubleshooting
- Embedded amplifiers and compact controls maximize space efficiency
- USDA accepted for primary food packaging of meat and poultry

**industrial.omron.eu/quattro**

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Quattro 650HS

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<table>
<thead>
<tr>
<th>Omron Item</th>
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<td>Assembly Fan, Motor, Quattro</td>
<td>19004-000</td>
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<td>Amplifier HV4</td>
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<td>Assembly, Outer Arm, Quattro s650HS, Epsilon, w/ SST Spoons</td>
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<td>27400-20006</td>
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<td>PCI Front Panel Assy with Cable</td>
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Choose your Platform P6, P7, P8, P4

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<td>Assembly, Outer Arm, Quattro s650HS, Epsilon, w/ SST Spoons</td>
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**industrial.omron.eu/quattro**
**Quattro Series**

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**Choose your Platform P01, P02, P03:**

- Choose your Platform P01, P02, P03:
  - P01: 11585-000
  - P02: 13632-045
  - P03: 09093-000

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**Choose your Platform P01, P02, P03:**

- Choose your Platform P01, P02, P03:
  - P01: 11585-000
  - P02: 13632-045
  - P03: 09093-000

The mentioned components above can be used by personnel without any special training but with telephone support by the Omron Robot Service if necessary or by consulting the relating User’s Guide.

**AnyFeeder Series**

**AnyFeeder**

Designed to work with a variety of robots and in combination with Omron Vision software and controller, the AnyFeeder Solution provides an efficient and fast feeding solution. Its flexibility in feeding small parts of various size, shape and material allow for fast line changeover and significantly reduced tooling costs, to give you a crucial competitive advantage.

**FEATURES**

- Provide a complete solution with integrated components and software
- Feeds a multitude of products
- Eliminates multiple feeder systems on your line
- Perfect for lines requiring rapid and frequent changeovers
- No fixturing required
- Integrated vision refinement on the fly allows for vision verification of parts, increasing placement accuracy to within 17 microns
- Automatically flips and shakes parts to separate and position for fast pick up
- Dual configuration further increases productivity
- Feeds various material types including plastic, rubber, metal, glass, and others

**industrial.omron.eu/anyfeeder**
Vision and Inspection Guidance

ACE Sight

ACE Sight is the next generation PC-based machine vision software from Omron. Built upon a fully-integrated application development environment, ACE, ACE Sight provides a powerful suite of vision tools for advanced machine vision applications.

FEATURES
• Fast and accurate parts location
• Advanced inspection capabilities
• Advanced calibration wizards to support multiple camera positioning
• High performance conveyor tracking option supporting up to four controllers
• Complete application toolset

SmartVision MX

The SmartVision™ MX industrial PC is a ruggedized PC optimized for vision applications, including machine vision, conveyor tracking and robot guidance, within a single box. Boasting a compact form factor, the SmartVision MX integrates with other Omron hardware and software products, or it can be used as a standalone vision-inspection station.

FEATURES
• High-performance, compact machine vision processor
• Seamless connectivity to the SmartController product line
• Single-source solution for machine vision, conveyor tracking and robot guidance applications
• Standard tools for hundreds of applications
• Common environment for fast application development and deployment
• Dedicated, multi-channel image acquisition for faster vision response time

Software and Control

ACE PackXpert

ACE PackXpert™ is a powerful, all-in-one packaging software solution. It is designed to manage packaging systems from integration to deployment, without lengthy, overly-complicated programming. ACE PackXpert is intuitive, complete, flexible, re-usable, and is able to handle line variances with minimal impact to the production output.

FEATURES
• Coordinate efforts of an entire robot line by working across multiple controllers
• Use the workspace elements across a variety of applications, and redeploy them for future applications
• Deploy your application faster through the intuitive software environment
• Build robust applications through the suite of tools
• Integrate into a machine builder’s user interface through the .NET environment
• Respond quickly to part changes without lengthy reprogramming
• Get a 3D view of your system operation
• Leverage your own eV+ knowledge and our 25+ years of experience

industrial.omron.eu/packxpert

SmartController EX

The SmartController EX motion controller is a member of our family of high performance distributed motion controllers. The SmartController EX motion controller is designed for use with Quattro, Hornet, eCobra, and Viper robots.

Sysmac Machine Automation Controller NX/NJ/NY

The Sysmac Machine Automation Controller integrates logic, motion, safety, robotics, vision, information, visualization and networking under one software: Sysmac Studio. This one software provides a true integrated Development Environment (IDE) that also includes a custom 3D motion simulation tool. The machine controller comes standard with built-in EtherCAT and EtherNet/IP. The two networks with one connection purpose is the perfect match between fast real time machine control and data plant management.

industrial.omron.eu/sysmac
Service and Support Options

Our standard Warranty, Training, Repair, Transportation and Rental Services and our Maintenance Contracts guarantee worry free ownership and operation of your robot while eliminating the guess work from the annual budgeting process. In case you have demand for services in other countries that you are based, please contact your local Omron sales office for our Global Cross Border Support ! Our support teams are strategically located and are available to assist you with your training, technical support and onsite service needs.

**WARRANTY OPTIONS**

Robots Basic Warranty period starts with the shipping date. Warranty is in place even though robot is not being registered with Omron. Basic Warranty includes:
- 1 Year Spare parts with standard shipping costs
- Labor and traveling expenses are not included
- Global warranty

Extended Warranty is received by registering the robot with Omron via the warranty validation service. It validates the condition and the quality of the robot installation. Also the robot location and serial number are confirmed. Registered robots receive coverage for the first 2 years of operation and it includes:
- 2 Year Spare parts with standard shipping costs
- Labor and traveling expenses for the first year
- Global warranty
- Robot registration needs to be done within 2 months after the shipping date

To further extend the period of warranty we offer packages, to a maximum of 30 months from shipping date:
- Spare parts package, per 6 months
- Labor and traveling expenses package, per 6 months

**PREVENTIVE MAINTENANCE VISIT**

The Preventive Maintenance Visit is a complete inspection service for your robotic system. During the one day visit, a certified Field Service Engineer will perform all recommended factory maintenance activities and complete a comprehensive inspection of your robot. At the completion of the inspection, you will be given a report that documents the details of the service along with a list of any recommended repairs or services required to maintain your robot.

The Preventive Maintenance Visit saves you money:
- By finding concerns early that can be corrected before more expensive damage is done
- By reducing the risk of unplanned production downtime

**FEASIBILITY STUDY**

By making a visit we want to assure the best robot implementation to your production, application, software, machine safety, inspection and general conditions like housing of the factory (lighting, spacing, electrical, safety).

**RENTAL**

This service can be chosen for two options:
- To test and demonstrate
- Short term replacement during repair (offered per week, exclusive transportation, labor and travel expenses)

**TRANSPORTATION**

We offer really competitive prices for transportation. However, in case you would like to organize by your own, you also have this possibility
The Complete Solution - Robotics Services to your Benefit

Field Service and Support

Our team of Robotic Field Service Engineers is strategically located throughout Europe to support your production needs. Backed by our Global Application and Engineering team for in-depth troubleshooting support, our service team can rapidly respond to your site for diagnosis and recovery of your Omron robot, enabling you to resume production as quickly as possible.

REPAIRS
If a robot is broken and it needs to be repaired, it is preferable to repair on-site. If your robot has to be repaired, please contact Omron Technical Support/Technical Support Engineer. They will analyze key parameters (the type of error, the location of the robot, the urgency of the repair, etc.) Based on this analysis, we will recommend you the best repair option:

- Remote support
- On-site at customer premises
- In-house Omron

Educational Services

Our frequently offered “hands on” instruction at a regional training center or at your own work site mean flexibility in acquiring the skills necessary to get the most from your new robot systems. Focused on our products and their applications, training shortens the learning curve for your employees using industrial automation equipment for the first time as well as for your experienced technicians learning the advanced functionality of an upgraded system.

Ask from your Local Sales Office for the possibility for local maintenance training courses. They are available by robot type to eCobra, Hornet, Quattro, Viper and LD users.

industrial.omron.eu/robotic-services

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**TECHNICAL SUPPORT**
With regional offices and support in your local language, our Technical Services group can answer your technical questions, provide application support, assist in product selection and troubleshoot a problem. Via phone and email, our technical support is available to our customers during normal business hours: 8:00 AM to 6:00 PM.

**TECHNICAL SERVICES & REPAIRS**
Service Item Codes:

- **ROBOT AS INHOUSE REMOTE ASSIS**
  - After Sales - In-House Remote Assistance Phone / Team Viewer

- **ROBOT AS HOUR FEE NrM**
  - After Sales - Hourly Rate for Working Days from 08:00 to 18:00

- **ROBOT AS HOUR FEE Ngt**
  - After Sales - Hourly Rate for Working Days from 18:00 to 08:00

- **ROBOT AS HOUR FEE WND NrM**
  - After Sales - Hourly Rate for Weekends / Public Holidays from 08:00 to 18:00

- **ROBOT AS HOUR FEE WND Ngt**
  - After Sales - Hourly Rate for Weekends / Public Holidays from 18:00 to 08:00

- **ROBOT AS ODOT FEE COUNTRY EX**
  - After Sales - Value per Kilometer and Country Rule Related

- **ROBOT AS DAILY FEE SAM COUNTRY**
  - After Sales - If Service is >=8 hours on site and Service Engineer is from the country

**REPAIRS**
- Repairs by Omron repair center, by offer

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**TECHNICAL SUPPORT**
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**TRAINING COURSE PORTFOLIO AVAILABLE IN DORTMUND**
Service Item Codes:

**PROGRAMMING COURSES:**
- TCD21 PROG E+ PROF (4.5 days) Programming e+ Professional
- TCD22 PROG VIPER (0.5 days) Programming Viper
- TCD23 PROG ACE OPERATORS (2.0 days) Programming ACE for Operators
- TCD24 PROG MOBILE ROBOTS (4.0 days) Programming Mobile Robots
- TCD25 PROG ENTERPRISE MGR (1.0 days) Programming Enterprise Manager

**ROBOTICS VISION COURSES:**
- TCD21 ACE SIGHT 3 BASICS (6.0 days) ACESight 3 Basics
- TCD22 ACE SIGHT 3 CONV TRACK (1.0 days) ACESight 3 Conveyor Tracking
- TCD23 ACE SIGHT 3 VISION (1.0 days) ACESight 3 Vision
- TCD24 ACE SIGHT 3 PROG ANYFEED (0.5 days) ACESight 3 Programming AnyFeeder

**ROBOTICS MAINTENANCE COURSES:**
- TCD21 MNT COBRA 350 (4.0 days) Maintenance Cobra 350
- TCD22 MNT eCOBRA PRO (4.0 days) Maintenance eCobra Pro
- TCD23 MNT COBRA 560/880 (4.0 days) Maintenance Cobra 560/880
- TCD24 MNT VIPER 560/880 (4.0 days) Maintenance Viper 560/880
- TCD25 MNT QUATTRO (2.0 days) Maintenance Quattro
- TCD26 MNT ANYFEEDER (0.5 days) Maintenance AnyFeeder
- TCD27 MNT HORNET (2.0 days) Maintenance Hornet
Maintenance Contracts

To have an optimized life-cycle for a robot, it's important to secure proper maintenance after warranty. A robot maintenance contract can save you a considerable amount of time and resources:

- Priority on technical calls
- Consumables for free in service visits
- Competitive prices on spare parts, service hourly rates and robot rentals (discount depends on contract: Bronze / Silver / Gold)
- Includes a Preventive Maintenance Visit 1 per year
- All maintenance contracts require a validation service

**BRONZE MAINTENANCE CONTRACT**
- Minimum 1 Year Contract
- Only Consumables (Grease, oils) are included, Spare Parts are charged separately
- All other service activities are charged except the Preventive Maintenance Visit (1 per year)
- Discount policies are in the following table

**SILVER MAINTENANCE CONTRACT**
- Minimum 1 Year Contract
- Only Consumables (Grease, oils) are included, Spare Parts charged separately
- All labour and Traveling expenses are included, within reason, and if it’s not Customer responsibility*
- Discount policies are in the following table

**GOLD MAINTENANCE CONTRACT**
- Minimum 3 Years Contract
- All Consumables and Spare Parts are included within reason, and if it’s not Customer responsibility*
- All Labour and Traveling expenses are included, within reason, and if it’s not Customer responsibility*
- Discount policies are in the following table

* Customer responsibility (Crash, bad programming, Wrong Power Connections, etc.)

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<th>Service description</th>
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Omron at a glance

200,000 products ranging Input, Logic, Output & Safety

Sensing, Control Systems, Visualisation, Drives, Robots, Safety, Quality Control & Inspection, Control and Switching Components

6% Innovation track record of 80 years
1,200 employees dedicated to R&D
12,500 + issued and pending patents

37,500 Employees worldwide

Working for the benefit of society

Industrial automation 39%
Automotive components 16%
Electronic & mechanical components 12%
Healthcare 12%
Other businesses 11%
Social systems, solutions & services 10%

39% Close to your needs

Technical training & seminars, technical support, Automation Technology Centers, online community (MyOmron), online catalogues and technical documentation, customer service & sales support, inter-operability labs (Tsunagi), safety services, repairs.

“To the machine the work of the machine, to man the thrill of further creation.”

Kazuma Tateisi, founder of Omron
Would you like to know more?

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