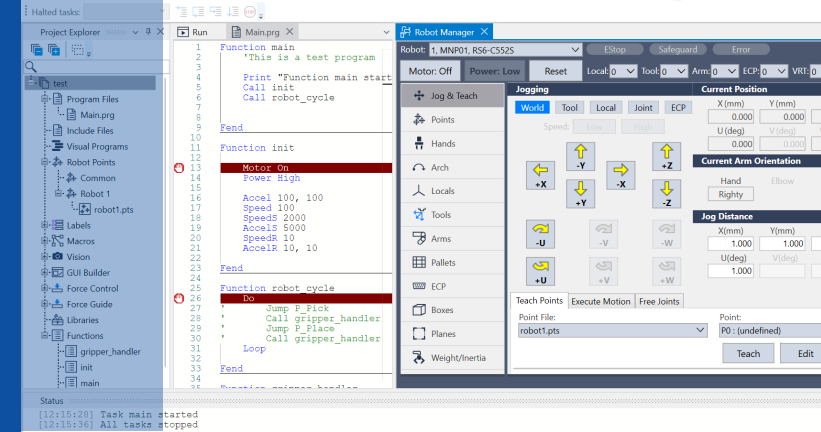


RC+ 8.0 Lite - Program development software

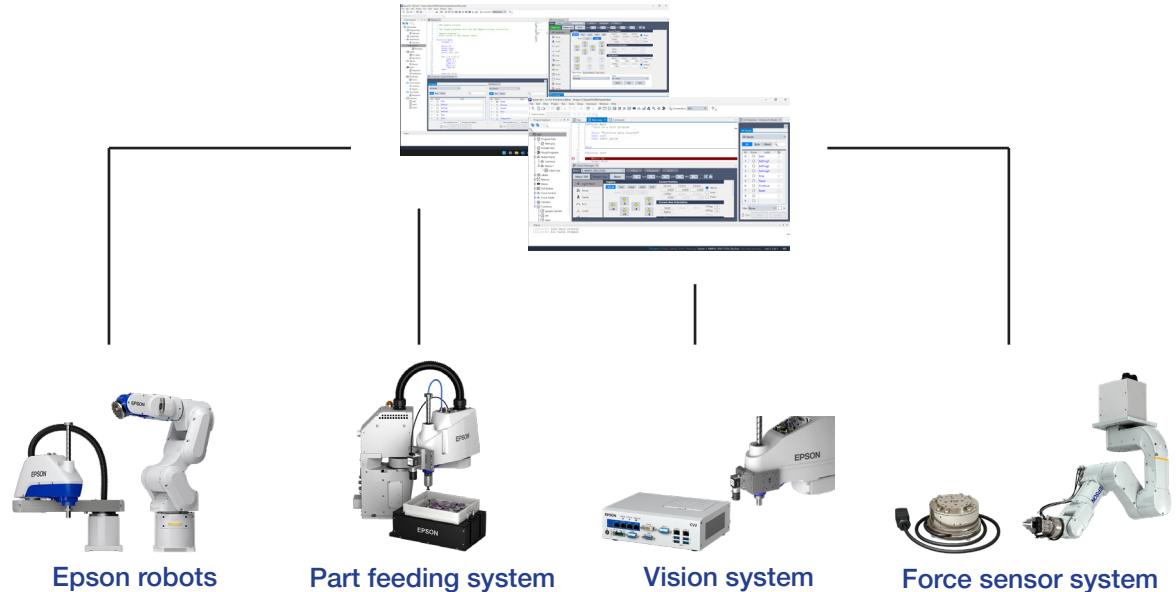
Maximum productivity Minimum programming



Epson robots are easy to use, even without extensive programming experience, thanks to the Epson RC+ software. It makes it easy to develop control programs for setup, operation, and regular maintenance. With an easy-to-understand graphic user interface, it helps you achieve maximum productivity with minimum programming overhead.

Introducing RC+ 8.0 Lite

RC+ 8.0 Lite is a simple and ready-to-use environment for basic machine operation and maintenance. It provides the core functions required for running, starting up, and maintaining actual equipment, along with basic programming and teaching capabilities. Ideal for initial setup and maintenance use.



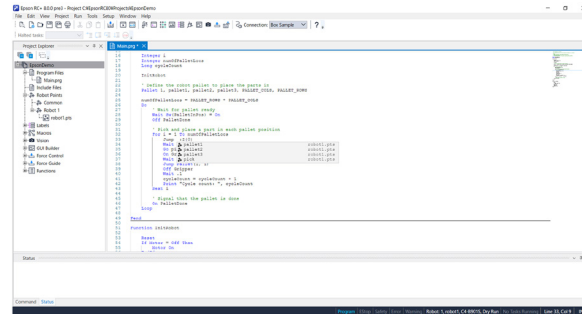
EPSON®

Build programs intuitively

Editor

Utilise powerful editing capabilities

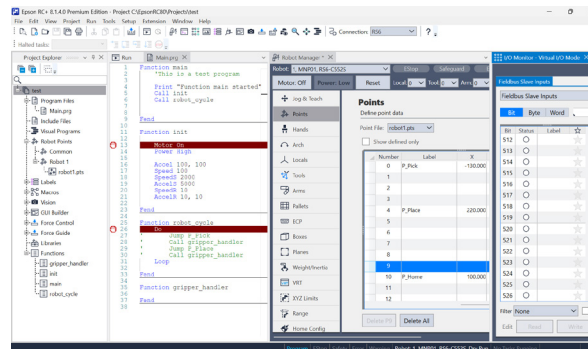
Epson RC+ includes powerful editing capabilities to minimise mistakes and streamline program development. In addition to basics such as cut, copy and paste, it also includes indent assist, syntax assist, syntax highlighting, comment blocks, indent/outdent, find/replace and more.



Integrated Debugger

Test programs and identify problems

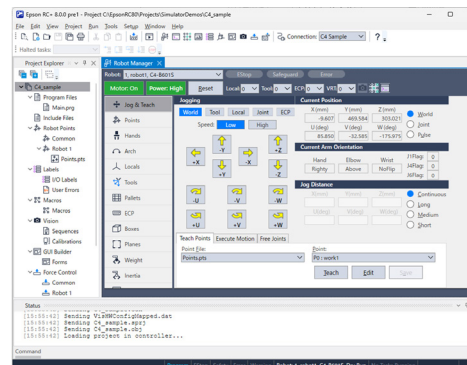
The integrated debugger offers many clever ways to check the status of your program or identify issues you may find while running it.



Robot Manager

Simplify automation tasks

The Robot Manager integrates a variety of functions related to robot operation into a single system, is an intuitive graphical interface that enables users to manage functions and wizards to simplify automation tasks.



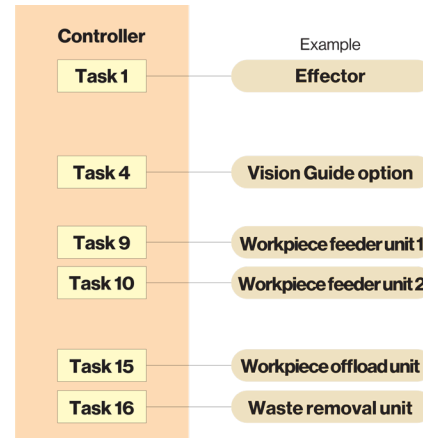
Control your robot solution

SPEL+ language

Easy-to-learn SPEL+ programming is similar to BASIC, and provides full support for multitasking, motion control, I/O control, and a wide range of other functions.

Multitasking function

With Epson's programming language, even complex multitask processes can be automated with ease. Up to 32 individual tasks can be seamlessly executed and controlled by a single program. Vision Guide machine vision, and pulse generator control of peripheral equipment can all be utilised to achieve full process automation.



Operating speed and acceleration/deceleration settings

Operating speed and acceleration/deceleration of the arm can be set in 100 steps.

PTP motion The speed and acceleration can be set as a percentage of their respective maximum values.

CP motion For continuous path motion, the following parameters can be set individually:

- Maximum speed (mm/sec)
- Maximum acceleration/deceleration (mm/sec²)

*Some models support configuration with more than 100 steps

Completion time control

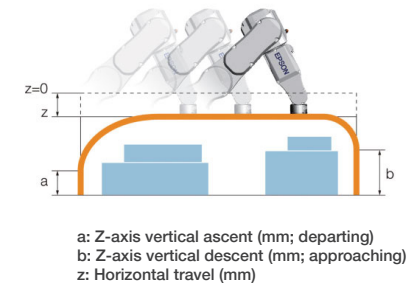
A time limit can be set for the completion of effector positioning to enable the next instruction to be executed even if the target point has not been reached. This allows you to maximise your yield by prioritising takt (cycle) time over precision, or vice versa, according to the nature of the work to be done.

Automatic acceleration adjustment function

Once the operator has set workpiece and effector weight, weight range, and effector orientation, acceleration is automatically adjusted to reduce residual vibration and ensure high repeatability.

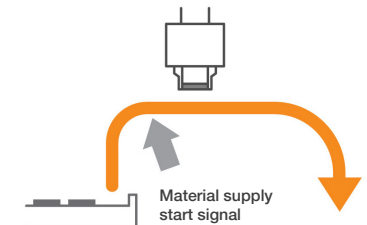
3D jump command movements

Epson's SCARA robots and ProSix robots all support JUMP command movements in 3D space, and the arch described by the approaching and departing effector can be set to suit the work environment. Deceleration/acceleration of the approaching or departing head can be regulated without interrupting operation, ensuring smooth, precise, short-distance motion that helps improve takt time and product quality stability.



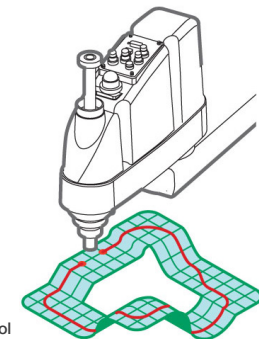
Parallel processing function

Parallel processing enables you to control peripheral devices while the robot arm is in motion. It allows I/O operations to be performed at any desired timing to ensure synchronised control of multi-device processes for maximum throughput efficiency.



3D continuous path control

All Epson robot systems offer the fast, precise, three-dimensional continuous path (CP) control needed for high-productivity coating and sealant application processes. Advanced linear interpolation, arch interpolation, and free curve motion enable precise effector control, and simple PASS commands can be used to evade obstacles within the workcell space. Programmed paths can reference either a tool-centered control point or an external control point.



Configuration singularity avoidance function

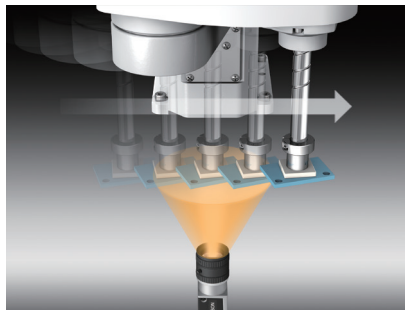
Continuous path operations that contain robot arm configuration singularities can cause joint-speed overrun. If the arm approaches such a configuration, the singularity avoidance function prevents overrun errors by maintaining joint speed until the arm has moved past the point of singularity.



On-the-fly pickup function

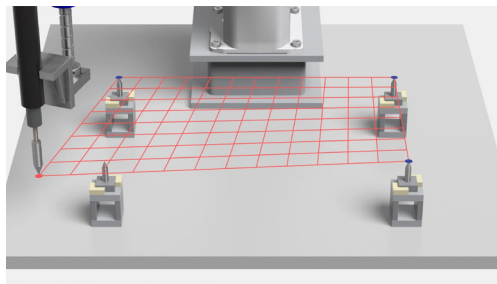
Workpiece pickup, alignment, and kitting can be carried out on-the-fly without pausing robot movement. Combined with an imaging system, it makes an ideal solution for high-speed alignment and handling of randomly arranged workpieces.

* RC700 series and RC800 series only.



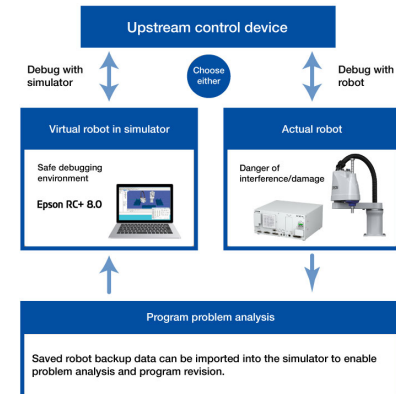
Area distortion correction

By using relationship between reference points on a drawing and actual teaching coordinate of these points, correct the target points bounded by the reference points. Re-teaching can be omitted even if absolute coordinates of target points are shifted due to change over and the like.



Debugging function

Programs can be run within the simulator, allowing full debugging without a robot. Virtual I/O control can be effected by entering values from a PC via RS-232C or TCP/IP.



Remote control expansion I/O

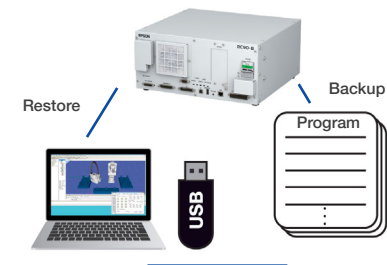
Using the remote control expansion I/O, the robot can be controlled simply by entering I/O commands — there's no need for complex program development

Consumables management

Enables you to set recommended maintenance alarms based on operating time or distance for batteries, grease, timing belts motors, brakes, and ball screw splines.

Controller settings backup

Controller settings and programs can be backed up to a PC or USB memory to facilitate offline analysis and enable quick restoration when needed.



Get in touch

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