

RobotWare-Dispense Software for process applications

RobotWare-Dispense can be used for different types of dispensing processes. It is a software option typically used for gluing, sealing, spraying and other similar processes, but can also be useful in a wide spectrum of other applications.

Background

DispenseWare has been developed in cooperation with a number of key customers, process equipment manufacturers and system integrators. It is now being used with success in a lot of different dispensing applications around the world.

Interface between controller and external systems

RobotWare-Dispense can be seen as the interface between the basic robot controller and one or several external dispensing systems. The communication with the process equipment is carried out by means of analog and digital signals. The Dispense option is general and can be extensively customized to fit unique process demands and different types of dispensing systems, but it is delivered with a "ready to use" default functionality. Simple dispensing systems with only on/off-guns as well as more complicated equipment, with several proportional dosers or valves included, can be handled.

High quality and performance

With the Dispense option it is possible to fully take advantage of the fast and accurate position control of any ABB robot, in combination with a flexible process interface. TrueMove combined with process control ensures path accuracy and a very good bead appearance and quality, even at high speeds. This not only enhances parts quality but also reduces cycle time and dispensing material.



Easy to program

The option provides powerful dispensing instructions and data types supporting a bead-oriented programming philosophy. This makes offline programming as well as manual programming and adjustments easier and faster.

Easy to handle with a dedicated FlexPendant interface

A dedicated graphical user interface for dispensing on the FlexPendant is included in the software option. Dispensing-related information is presented in an instructive way and frequently used dispensing functions can easily and quickly be reached.

Increased productivity with RobotWare-Dispense

- Less investment in training and quicker to get started with the robot
- Short start to production
- High flexibility for short product cycles due to easy programming and optimization

Technical Features

- Dispensing instructions for both linear and circular paths are available.
- Separate data types for bead-related data and equipment data simplifies the programming.
- Robot-mounted or stationary-mounted dispensing dosers and guns can be used with the same functionality and good results.
- On/off guns as well as proportional guns can be handled.
- Four different types of dispensing equipment can be handled in the same program.
- 1-5 digital on/off signals and two different speed proportional or constant analog signals can be used for each piece of equipment.
- Anticipated times and delay compensations can be set for each piece of equipment and signal separately.
- Running the program in dry mode is possible for test purposes.
- It is possible to automatically reduce the robot acceleration/ deceleration during dispensing.
- It is possible to restart an interrupted dispensing sequence.
- The Dispense option can be used together with other process options, e.g. different Spot options.

RobotWare – for easy programming

Process application-related software options make application programming and system integration easier. Robot motion instructions and process monitoring and control are combined into easy to use instructions for the programmer. These options also contain vast configuration possibilities that make it easy to configure the system to the chosen equipment and desired system behavior during system integration.

MultiMove

RobotWare-Dispense is also available for MultiMove systems. Up to four dispensing robots can be controlled from the same IRC5 system. It is possible to run dispensing instructions independently or coordinated. It is possible to share or change dispensing equipment between different dispensing robots in a MultiMove system.



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