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Other functions not described in this documentation may be operable in the controller. The user has no claims to these functions, however, in the case of a replacement or service work.

We have checked the content of this documentation for conformity with the hardware and software described. Nevertheless, discrepancies cannot be precluded, for which reason we are not able to guarantee total conformity. The information in this documentation is checked on a regular basis, however, and necessary corrections will be incorporated in the subsequent edition.

Subject to technical alterations without an effect on the function.

Translation of the original documentation

KIM-PS5-DOC

Publication:	Pub MA ES PJ KR QUANTEC A3-A6 00-240-959, 00-240-960, 00-240-961 (PDF) en
Book structure:	MA ES KR QUANTEC A3-A6 00-240-959, 00-240-960, 00-240-961 V2.1
Version:	MA ES KR QUANTEC A3-A6 00-240-959, 00-240-960, 00-240-961 V2

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# 1 Introduction

## 1.1 Documentation for the options

The documentation for this option consists of the following parts:

- Assembly and operating instructions for energy supply systems for this robot model (basic documentation)
- Assembly and operating instructions for the article number-specific energy supply system
- Parts catalog for this option on storage medium
- Assembly and operating instructions for the higher-level system


Each of these sets of instructions is a separate document.


The basic documentation “Assembly and operating instructions for energy supply system” contains all essential information for all energy supply systems for this robot model, but does not go into the specific details of a particular energy supply system. This information can be found in another document, the “Article number-specific assembly and operating instructions”. This contains all the information which only applies to a specific energy supply system (article number). Both documents must be consulted for basic information.


## 1.2 Representation of warnings and notes


### Safety


These warnings are relevant to safety and **must** be observed.

 **DANGER** These warnings mean that it is certain or highly probable that death or severe injuries **will** occur, if no precautions are taken.


 **WARNING** These warnings mean that death or severe injuries **may** occur, if no precautions are taken.

 **CAUTION** These warnings mean that minor injuries **may** occur, if no precautions are taken.

 **NOTICE** These warnings mean that damage to property **may** occur, if no precautions are taken.


 These warnings contain references to safety-relevant information or general safety measures.  
These warnings do not refer to individual hazards or individual precautionary measures.

This warning draws attention to procedures which serve to prevent or remedy emergencies or malfunctions:

 **SAFETY INSTRUCTIONS** Procedures marked with this warning **must** be followed exactly.

### Notices

These notices serve to make your work easier or contain references to further information.

 Tip to make your work easier or reference to further information.



## 2 Purpose

### 2.1 Target group

This documentation is aimed at users with the following knowledge and skills:

- Advanced knowledge of mechanical engineering
- Advanced knowledge of electrical and electronic systems
- Knowledge of the robot controller system



For optimal use of our products, we recommend that our customers take part in a course of training at KUKA College. Information about the training program can be found at \_\_\_\_\_ or can be obtained directly from our subsidiaries.

### 2.2 Intended use

#### Use

The intended use of the energy supply system is the supply of energy to tools and fixtures on the robot. This includes the transmission of control and measuring signals for activating and monitoring tools and fixtures and the supply of air and water.

Operating the system within the limits of its intended use also involves continuous observance of the operating and assembly instructions of the robot system and its options, with particular reference to the maintenance specifications.

#### Misuse

Any use or application deviating from the intended use is deemed to be misuse and is not allowed. This includes e.g.:

- Operation with non-specified fluids
- Operation outside the permissible operating parameters
- Operation in potentially explosive environments
- Use in underground mining
- Use with unauthorized robot systems

#### **NOTICE**

Changing the energy supply system and the structure of the manipulator, e.g. by drilling holes, etc., can result in damage to the components. This is considered improper use and leads to loss of guarantee and liability entitlements.



This assembly is an integral part of an overall system and may only be operated in a CE-compliant system.

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