

KR 120 R3900 ultra K-F-HP



Technical data

Maximum reach	3900 mm
Rated payload	120 kg
Rated supplementary load, rotating column / link arm / arm	0 kg / 0 kg / 50 kg
Rated total load	170 kg
Pose repeatability (ISO 9283)	± 0.05 mm
Number of axes	6
Mounting position	Floor
Footprint	830 mm x 830 mm
Weight	approx. 1225 kg

Axis data

Motion range	
A1	±180 °
A2	-120 ° / 70 °
A3	-120 ° / 155 °
A4	±350 °
A5	±120 °
A6	±350 °
Speed with rated payload	
A1	105 °/s
A2	101 °/s
A3	107 °/s
A4	200 °/s
A5	258 °/s
A6	284 °/s

Operating conditions

Ambient temperature during operation	-10 °C to 55 °C (283 K to 328 K)
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Protection rating

Protection rating (IEC 60529)	IP65
Protection rating, in-line variant (IEC 60529)	IP67

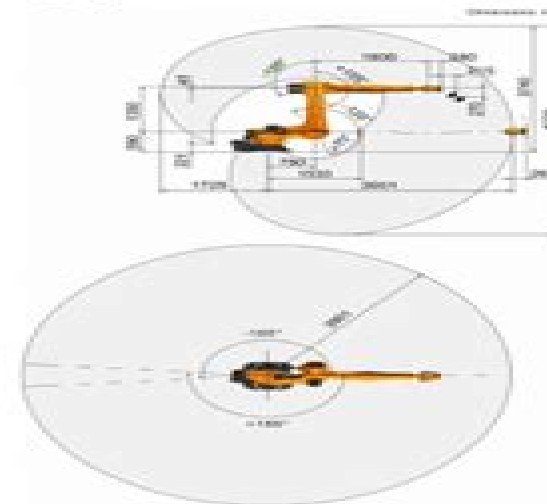
Controller

Controller	KRC C4
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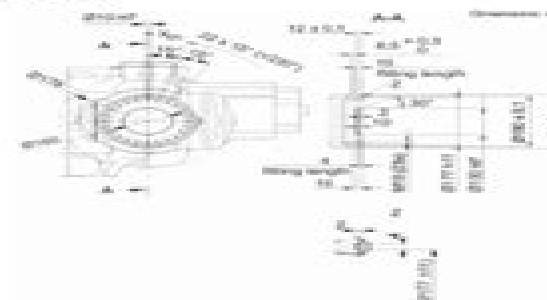
Teach pendant

Teach pendant	KUKA smartPAD
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Workspace graphic



Mounting flange



Kuka Robot Operating Manual

**Tomonobu Senjyu, Chakchai So-In, Amit
Joshi**



Kuka Robot Operating Manual:

Robotized technologies for enhanced shipyard operations: challenges and solutions Jawad Masood, Felix Vidal, David Castro, Afra M. Pertusa, Abel Feijoo, 2024-03-25 Large component manufacturing relies heavily on manual operations and human workers Human centric solutions can preserve industry specific knowledge extend capabilities and improve job performance Three robotized technologies were developed for shipyard operations ABB and KUKA robot hand guiding systems HGS a lightweight collaborative system for plasma cutting and a cost effective 3D projection system for retrofitting These technologies were developed at the open didactic factory which served as platforms for rapid technological advancement The HGS was integrated with ABB and KUKA and the 3D projection technology and lightweight collaborative system offered a cost effective solution for small and medium shipyards However transitioning to non flat surfaces presents challenges due to geometric variations and discrepancies between the computer aided design model and the actual component

Recent Advances in Systems, Control and Information Technology Roman Szewczyk, Małgorzata Kaliczyńska, 2016-11-29 This book presents the proceedings of the International Conference on Systems Control and Information Technologies 2016 It includes research findings from leading experts in the fields connected with INDUSTRY 4.0 and its implementation especially intelligent systems advanced control information technologies industrial automation robotics intelligent sensors metrology and new materials Each chapter offers an analysis of a specific technical problem followed by a numerical analysis and simulation as well as the implementation for the solution of a real world problem

Nature Inspired Robotics Jagjit Singh Dhatteval, Kuldeep Singh Kaswan, Reenu Batra, 2024-07-24 This book introduces the theories and methods of Nature Inspired Robotics in artificial intelligence Software and hardware technologies alongside theories and methods illustrate the application of bio inspired artificial intelligence It includes discussions on topics such as Robot Control Manipulators Geometric Transformation Robotic Drive Systems and Nature Inspired Robotic Neural System Elaborating upon recent progress made in five distinct configurations of nature inspired computing it explores the potential applications of this technology in two specific areas neuromorphic computing systems and neuromorphic perceptual systems Discusses advances in cutting edge technology in brain inspired computing perception technologies and aspects of neuromorphic electronics Offers a thorough introduction to two terminal neuromorphic memristors including memristive devices and resistive switching mechanisms Provides comprehensive explorations of spintronic neuromorphic devices and multi terminal neuromorphic devices with cognitive behaviours Includes cognitive behaviour of Inspired Robotics and cognitive technologies with applications in Artificial Intelligence Contains practical discussions of neuromorphic devices based on chalcogenide and organic materials This text acts as a reference book for students scholars and industry professionals

Smart Trends in Computing and Communications Tomonobu Senjyu, Chakchai So-In, Amit Joshi, 2025-09-30 This book gathers high quality papers presented at the Ninth International Conference on Smart Trends in

Computing and Communications SmartCom 2025 organised by Global Knowledge Research Foundation GR Foundation from 29 to 31 January 2025 in Pune India It covers state of the art and emerging topics in information computer communications and effective strategies for their use in engineering and managerial applications It also explores and discusses the latest technological advances in and future directions for information and knowledge computing and its applications ROBOTICS

GURUPRASAD, K. R.,2019-09-01 This book focusses on one of the important classes of Robots known as manipulators or robotic arms and provides a thorough treatment of its kinematics dynamics and control The book also covers the problem of trajectory generation and robot programming The text apart from providing a detailed account of topics such as on taxonomy of robots spatial description of rigid bodies kinematics of manipulator concept of dexterous workspace concept of singularity manipulator dynamics using both the Newton Euler and Lagrangian approaches with a deeper insight into the manipulator dynamics manipulator control and programming additionally encompasses topics on motion planning intelligent control and distributed control of manipulators The book is an excellent learning resource for understanding the complexities of manipulator design analysis and operation It clearly presents ideas without compromising on the mathematical rigour KEY FEATURES Full coverage of syllabi of all the Indian universities Based on classroom tested lecture notes Numerous illustrative examples Chapter end problems for brainstorming Primarily designed for students studying Robotics in undergraduate and postgraduate engineering courses in mechanical and mechatronics disciplines the book is also of immense value to the students pursuing research in robotics Instructor Resources PPTs and Solution Manual are also available for the faculty members who adopt the book Automation in Construction toward Resilience Ehsan Noroozinejad Farsangi,Mohammad Noori,Tony T.Y. Yang,Paulo B. Lourenço,Paolo Gardoni,Izuru Takewaki,Eleni Chatzi,Shaofan Li,2023-09-29 While the word automation may conjure images of robots taking over jobs the reality is much more nuanced In construction for instance automation is less likely to diminish employment opportunities than it is to increase productivity Indeed automation alongside the global need for new and updated infrastructure and better and more affordable housing can help shape the direction of the construction industry The key will be anticipating and preparing for the shift in part by developing new skills in the current and future workforce This book presents all aspects of automation in construction pertaining to the use of information technologies in design engineering construction technologies and maintenance and management of constructed facilities The broad scope encompasses all stages of the construction life cycle from initial planning and design through the construction of the facility its operation and maintenance to the eventual dismantling and recycling of buildings and engineering structures Features Examines Building Information Management systems allowing on site execution of construction more efficient and for project teams to eliminate mistakes and better coordinate the workforce Presents the latest information on the automation of modular construction production in factories including 3 D printing of components such as facades or even load bearing and essential components Mergent International Manual ,2009

CNC Handbook Hans B. Kief, Helmut A. Roschiwal, 2012-09-05 Practical CNC design construction and operation techniques Gain a thorough understanding of computer based numerical control systems components and technologies Featuring hundreds of color images and schematic diagrams CNC Handbook explains machining fundamentals and shows you how to build and safely operate fully automated technically sophisticated mechatronic equipment Learn how to work with position controllers accomplish rapid and precise machine motions use CAD and CAM systems and integrate CNC into IT networks The latest CNC programming languages flexible manufacturing systems and troubleshooting methods are also discussed in this hands on guide CNC HANDBOOK COVERS Open and closed loop control systems Programmable logic controllers and switches Machine tools and machining centers Turning milling and grinding equipment Industrial robots and robot controllers Additive and flexible manufacturing systems Direct and distributed numerical control CNC programming platforms and languages Close to process production measurement **The National Guide to Educational Credit for Training Programs** ,1999 **Handbook on Industrial Robotics** Shimon Y. Nof, 1985 An engineer's handbook of research and applications in industrial robotics Stresses the practical uses rather than the mechanical electrical or computer considerations Discusses specific techniques for working with robots in various situations Includes a forward by Isaac Asimov

Handbook of Industrial Engineering Gavriel Salvendy, 1992-01-02 Covers the entire spectrum of modern industrial engineering from a practical standpoint This edition adds 36 completely new chapters to provide a more cohesive structure to the discipline which it classifies under the following four areas technology human dimensions planning design and control of operations and quantitative methods for decision making *Robotics Abstracts* ,1990 Advances in Mechatronics and Control Engineering II Krzysztof Galkowski, Yun Hae Kim, 2013-10-15 Selected peer reviewed papers from the 2013 2nd International Conference on Mechatronics and Control Engineering ICMCE 2013 August 28 29 2013 Guangzhou China

Advances in Manufacturing Technology III Brian Worthington, 1988-06-30 **Sheet Metal Industries** ,1992

Robomatix Reporter ,1988 **Robotics in Theory and Practice** Lucia Pachnikova, Mikuláš Hajduk, 2013-01-25 Selected peer reviewed papers from the ROBTEP 2012 14th 16th November 2012 Strbske pleso High Tatras Slovakia

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