

KUKA

**The linear unit for
the high payload category**



KL 1500-3

»THE KUKA LINEAR UNITS: PERFECT FOR EVERY REQUIREMENT

Maximize your productivity all the way down the line: with KUKA linear units, you can radically extend the work envelope and radius of action of your KUKA robots. And you benefit from a further major advantage: the linear units function as an integrated external axis, eliminating the need for an additional controller and saving you time and money.

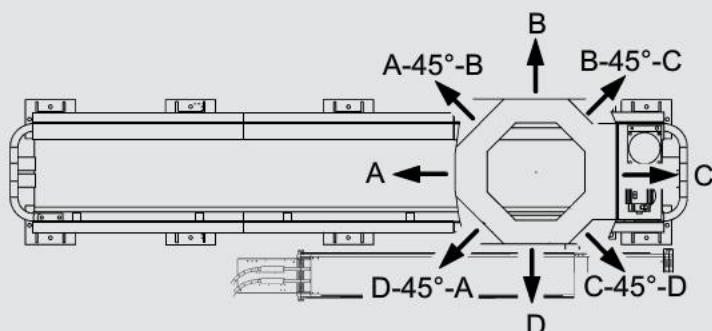
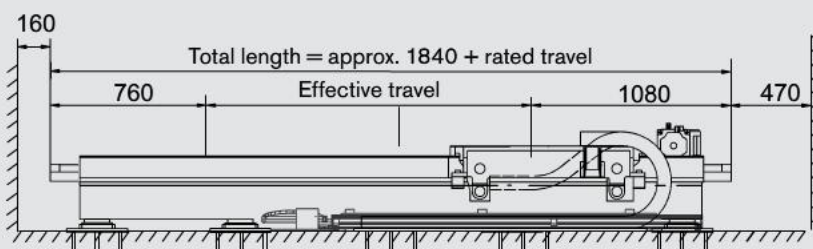
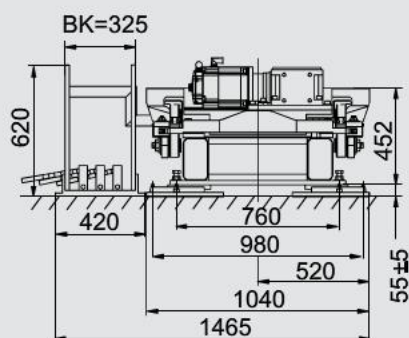
Furthermore, the KUKA product portfolio covers every payload category, every environment and every requirement. The spectrum of options ranges from ceiling-mounted units to the high-speed variant and even linear units with a protective cover. **The advantages: high planning reliability and security of investment.**

»EXTREMELY FLEXIBLE – EXTREMELY LONG-RANGE

Increase your output: up to four robots can be operated on the KL 1500-3, mounted on separate carriages. A number of robot positions on the linear axis enable optimal positioning relative to existing requirements and workspaces. Cycle times can be shortened even further if the workpieces or tools are moved on additional carriages (tender carriages). **The advantages: greater productivity and optimal process results.**

»TECHNICAL DETAILS KL 1500-3

Dimensions: mm



A, B, C, D, E, F = robot mounting variants

»EXTREMELY PRODUCTIVE – EXTREMELY ACCURATE

Increase your output: up to four robots can be operated on the KL 1500-3, mounted on separate carriages. A number of robot positions on the linear axis enable optimal positioning relative to existing requirements and workspaces. Cycle times can be shortened even further if the workpieces or tools are moved on additional carriages (tender carriages). **The advantages: greater productivity and optimal process results.**

»EXTREMELY VERSATILE – EXTREMELY POWERFUL

Perfectly equipped for every situation: depending on the requirements, the KL 1500-3 is available in variants for the floor or ceiling. Moreover, for use in harsh environments, a protective cover is available for keeping out dirt. The product range is rounded out by an additional version for higher process force support (e.g. for milling applications) and a high-speed variant for ultra-short cycle times. **The advantages: utmost reliability and maximum choice.**

Type	KL 1500-3	KL 1500-3 S	KL 1500-3 T	KL 1500-3 C	KL 1500-3 C-S	KL 1500-3 C-T	KL 1500-3 CV	KL 1500-3 CV-S	KL 1500-3 CV-T
Linear unit designed for robot series	up to KR 2000 (KR 270) without pedestal (booster frame)	up to KR 500 without pedestal, up to KR 2000 (KR 270) with pedestal	up to KR 2000 (KR 270) without pedestal (booster frame)	(V)KR 30–(V)KR 125, (V)KR 150, (V)KR 200, (V)KR 360, (V)KR 500, (V)KR 150–(V)KR 270 (Series 2000)			(V)KR 30–(V)KR 200, (V)KR 150, 180, 210, 240, 270		
Mounting position	Floor			Ceiling			Floor		
Mass of payload	2,000 kg	3,800 kg		3,800 kg			2,000 kg		
Mass of carriage	440 kg			440 kg			740 kg		
Mass of beam per meter	345 kg			345 kg			480 kg		
Min. rated travel	1,000 mm			1,000 mm			1,000 mm		
Max. rated travel	30,000 mm			30,000 mm			30,000 mm		
Gradation of rated travel	500 mm			500 mm			500 mm		
Max. traversing velocity	1.45 m/s	2.35 m/s	1.89 m/s	1.45 m/s	2.35 m/s	1.89 m/s	1.45 m/s	2.35 m/s	1.89 m/s
Repeatability	± 0.02 mm			± 0.02 mm			± 0.02 mm		
Transmission of force	Rack			Rack			Rack		

Drive system, electromechanical with brushless AC servomotors

Digital absolute position sensing system

Options such as additional carriage, tender carriage, range monitoring or booster frame available on request.

Details provided about the properties and usability of the products are purely for information purposes and do not constitute a guarantee of these characteristics. The extent of goods delivered and services performed is determined by the subject matter of the specific contract. No liability accepted for errors or omissions.



»THE KUKA ROBOT GROUP: YOUR STRONG PARTNER

Quality made in Germany, creativity and the utmost commitment to customers and business partners: these form the basis on which KUKA develops the best possible technologies and thus the optimal automation concepts. The result is that you receive custom-tailored solutions and benefit from decisive process optimization.

Genuine passion for the fascination of robotics is reflected in our slogan "KUKA YOUR IDEAS", which is also our promise to you: Whatever you want to do, and however unusual your idea may be, with us you can implement anything – irrespective of the specific branch of industry and irrespective of whether or not a similar application has existed before.

Whatever task you give us, KUKA has the required specialists. In close cooperation with experienced system partners with competence in their respective industries, we do everything in our power to implement your ideas. Let us work on them together.

»KUKA SERVICES: ALWAYS THERE FOR YOU

You can rely on us to stand by you in every phase of a project: from planning and commissioning to maintenance and conversion. 24 hours a day. 365 days a year. The high-density KUKA service network ensures that we are always in your vicinity and can start your production in record time.

KUKA YOUR IDEAS

KUKA ROBOTER GMBH

Global Sales Center
Hery-Park 3000
86368 Gersthofen
Germany
Tel. +49 821 4533-0
Fax +49 821 4533-1616
info@kuka-roboter.de

Additional contact addresses:
www.kuka-robotics.com