

 $\mathsf{strong} \cdot \mathsf{fast} \cdot \mathsf{simple}$

Cobots with 7 axes – shaping the future of flexible automation

Joining forces with



strong

fast

simple

www.kassowrobots.com

How can you outsmart the competition? Simply automate!

A payload of 5 to 18 kg and a reach of 850 to 1800 mm all delivered at joint speeds of up to 225 degrees per second: Our five lightweight 7-axis robots are ready to go to work in virtually no time - at companies of all sizes. Our concept of simply automate comes from our unique benefits:

- Plug-in configuration
- Intuitive programming with a phone-like user interface
- Easy relocation within a factory thanks to the lightweight design
- And, above all, higher production

Your robot colleague will take over the repetitive and physically demanding jobs in your factory so workers can then perform jobs that generate more value.

Your major benefit: Every cobot made by Kassow Robots has a 7th axis. This axis gives our cobots the highest possible degree of freedom. The robot's arm mimics the dexterity of the human arm. A feature that enables it to reach around corners.

From standard to sophisticated tasks, our cobots are prepared to perform the infinite number of jobs required in factory automation operations (see page 4).

Kassow Robots: Product Family

Reach/Payload
850 mm/10 kg
1000 mm/18 kg
1200 mm/5 kg
1400 mm/10 kg
1800 mm/5 kg





Great potential for beginners and pros

- Providing you with our modular platform CBuns for capability extensions
- Seamless end-of-arm tooling that is easy to install and configure
- Option to extend any kind of software based on efficient C/C++ code
- Option to prepare and import your own custom code into our system













Cobots with maximum dexterity in action

Pick & place, machine tending, welding, gluing, labelling, palletizing: From small batch to 24/7 mass production, our lightweight robots can perform virtually any production task.

The special kinetics created by the 7th axis allows Kassow Robots to outclass conventional cobots

Kinematic examples:

- Any predefined path straight, zigzag, or curved can be followed without stopping and at a pre-set speed.
- The extraordinary maneuvrability allows the cobots to be used in the most confined spaces – an invaluable benefit in the push to automate existing production.



Gaining far more production with 7 axes

Your added value created by our lightweight robots

- Great maneuvrability & around-the-corner reach You can use the robot's arms in extremely confined spaces – and profit from the tremendous flexibility created by the 7th axis!
- Easy programming & operations Divorce yourself from robot experts - program and operate the cobots yourself!
- High flexibility & fast relocation Use the cobots in different places within your production facilities - the cobots' light weight and the plug and play approach makes it possible!
- Employees & cobots team up Delegate the repetitive and unsafe jobs to your robot colleagues - and allow your employees to generate more added value elsewhere!
- Fast ROI & more satisfied employees Our cobots pay for themselves quickly - boost your competitiveness with their high productivity!

Robots that can share work space with humans without being placed in safety enclosures are called collaborative robots or simply "cobots." In the process known as human-robot collaboration (HRC), a robot's various skills (e.g., strength, precision, and stamina) are combined with the strengths of humans (e.g., make decisions, evaluate alternatives). As a result, robots and humans can work near one another. The entire process is safe: if, for instance, a cobot encounters a barrier, it will shut off automatically.







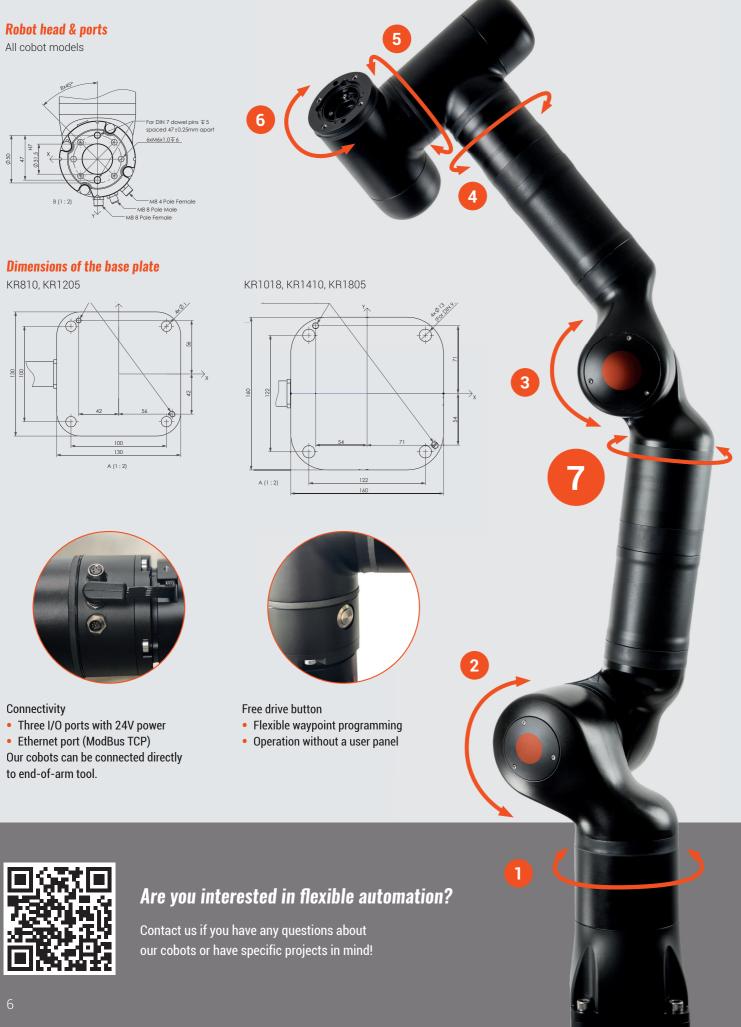


"Strong, Fast, Simple" and lots of added value created by the 7th axis – company founder Kristian Kassow continues to look out for the customers



Sales Director Dieter Pletscher shows just how easy it is to operate a cobot. "It reminds me of a smartphone."

Dimensions and special product features



At a glance: Technical specifications

General specifications	KR810	KR1018	KR1205	KR1410	KR1805		
Reach (mm)	850	1000	1200	1400	1800		
Payload (kg)	10	18	5	10	5		
Weight (kg)	24	34	25	35	38		
Joint speed (deg/s)	225	163/225	225	163/225	163/225		
Joint ranges (deg)	J2 and J4: -70°/+180°; J1, J3, J5, J6 and J7: ±360°						
Brakes on joints	Yes	Yes	Yes	Yes	Yes		
Absolute encoders on joints	Yes	Yes	Yes	Yes	Yes		
Repeatability (mm)	+/- 0.1	+/- 0.1	+/- 0.1	+/- 0.1	+/- 0.1		
Degrees of freedom	7	7	7	7	7		
Footprint (mm)	130 × 130	160×160	130 × 130	160×160	160 × 160		
Operating temperature (C°)	0-45	0-45	0-45	0-45	0-45		
Body material	Anodized aluminum						
Protection rating	IP54	IP54	IP54	IP54	IP54		

Controller	KR810	KR1018	KR1205	KR1410	KR1805
Digital outputs 24V (pcs)	8	8	8	8	8
Relay outputs (pcs)	4	4	4	4	4
Digital inputs 3–30V (pcs)	16	16	16	16	16
Analogue I/O 0–10V (pcs)	2/2	2/2	2/2	2/2	2/2
Analogue I/O 4–20mA (pcs)	2/2	2/2	2/2	2/2	2/2

Power	KR810	KR1018	KR1205	KR1410	KR1805
Power consumption (with max. load; W)	400-600	400-1200	400-600	400-1200	400-1200
Supply voltage (VAC)	100–120 or 200–240				
Supply current (A)	16	16	16	16	16
Supply frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Max speed (mm/s)	1200/1800	2000/2400	1200/1800	2000/2400	2000/2400
Sound level (dB)	<65	<65	<65	<65	<65

7 Axes • Collaborative • Strong • Fast • Simple • Flexible • Danish



About Kassow Robots

"Strong, Fast, Simple": With this motto in mind, the Danish entrepreneur Kristian Kassow has developed five unique, efficient, lightweight robots with 7 axes. Manufactured in Copenhagen, KR cobots are extremely strong and fast, despite their long reach. They offer a payload of up to 18 kilograms, a reach of up to 1800 millimeters, and a speed of up to 225 degrees per second. Their exceptional maneuvrability enables industrial companies to automate production processes even in the most confined areas. The cobots are operated and programmed with the help of teach pendants developed on the basis of widely used tablet technologies. It is an intuitive process and can be done by anyone – a feature that creates more independence and cost efficiency.

Kassow Robots made its first public appearance in 2018. In late April 2022, Bosch Rexroth became the company's new majority owner. Founder Kristian Kassow is now co-owner and will continue to serve as CEO of Kassow Robots.

Extensive Partner Network – reliable partners





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Your Local Kassow Robots Partner

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