



**KR 180-2 PA
Arctic**

**Stacked high with benefits. Even when the temperature is way below.
KUKA deep-freeze palletizing technology.**


KUKA
WORKING IDEAS

FROM 0 DOWN TO -30 DEGREES, THERE'S NOTHING LIKE IT. KUKA DEEP-FREEZE PALLETIZING TECHNOLOGY.

KUKA now brings you a unique product for deep-freeze palletizing applications: the KR 180-2 PA Arctic is a robot that has been specially developed for palletizing at extremely low temperatures. The most remarkable feature is that the robot needs no protective suit or wrappings and can nonetheless work at temperatures way below zero: right down to -30 °C. What's more, the hand-held KCP control panel also remains fully functional. The robot is complemented by a dress package from axis 1 to axis 4 which is specially adapted to the deep-freeze environment.

Ideal for frozen foods. KUKA deep-freeze palletizing technology is ideal for use with foods. It allows the palletizing of ice cream, snacks, pizzas, fast food, fish etc. – now also in deep-freeze warehouses – without any loss of quality due to temperature fluctuations in the freezer room, caused for example by heaters in the robot arm. The formation of ice on the frozen goods is likewise avoided. Moreover, the very high accelerations of the KR 180-2 PA Arctic make it possible to achieve extremely short cycle times.

Proven technology, now also freezer-proof.

The KR 180-2 PA Arctic has not been developed from first principles. It is an adaptation of our service-proven standard palletizing robot KR 180-2 PA, which we have simply made "freezer-proof". It works with the standard robot controller KR C2, with standard KUKA software and with endurance-tested components. This means that the risk of failure is greatly reduced compared with alternative mechanical systems.

Type	KR 180-2 PA Arctic	
Payload	180 kg	
Number of axes	4	
Reach	3200 mm	
Protection rating	IP 65	
Temperature range	from	to
Manipulator	-30 °C	0 °C
Cabinet	+5 °C	+55 °C
KUKA Control Panel KCP	-25 °C*	+60 °C

* -25 °C to -30 °C with extra protection

The wraps are off for greater benefits. The KR 180-2 PA Arctic needs no protective suit, giving you radical cost savings compared with shrouded solutions. For example, no downtime is required for exchange work, which would otherwise be necessary at least once a year. As no special heating is needed in the robot arm, costly hot-air emissions can also be avoided. A further advantage is the unrivaled size of the work envelope, which is not restricted by any protective coverings.

So when the temperature tumbles, stack up the benefits with us!



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