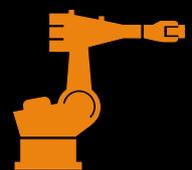




**Integrated dress package from KUKA.  
Minimum wear and maximum freedom of movement. The genuine article.**



**KUKA**  
WORKING IDEAS

**WITH KUKA ROBOTS, THE ADVANTAGES ARE FACTORY-INTEGRATED.**

KUKA offers uniquely designed, standardized dress packages with a host of advantages.

**The right solution for every application.** KUKA offers an integrated factory-installed dress package that is suitable for 90% of all applications – in terms of both reach and resistance to wear. In special cases, however, we will be happy to offer a custom solution or adapt the dress package to suit your application. The advantages of KUKA's integrated dress packages include the closely defined routing on the robot, practically free of interference contours, and the high degree of flexibility, durability and ease of maintenance.



**Advantages for axes 1 to 3**

- KUKA dress packages are compact and require no extra floor space
- Continuous routing from the base through to the arm
- Routed through the robot body
- Optimal accessibility from outside (from the rotating column onwards)
- Full freedom of movement of the robot
- High degree of durability (as with the existing A1 dress package)

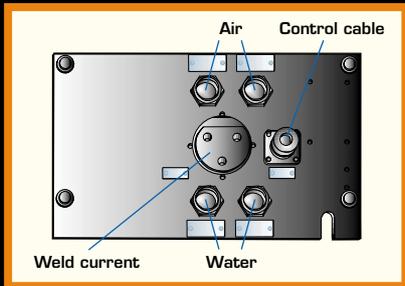
**Advantages for axes 3 to 6**

- Here again, everything is compact and routed close to the body
- Minimum interference contour; the package supports offline programming
- The length subjected to wear has been shortened, the service life increased
- The package can be exchanged in just 10 minutes
- Individual cables and hoses can be exchanged
- Follow-up costs are thus minimized
- The package can be optimally adjusted to suit its surroundings
- Applications can also be integrated on the arm via interface A3

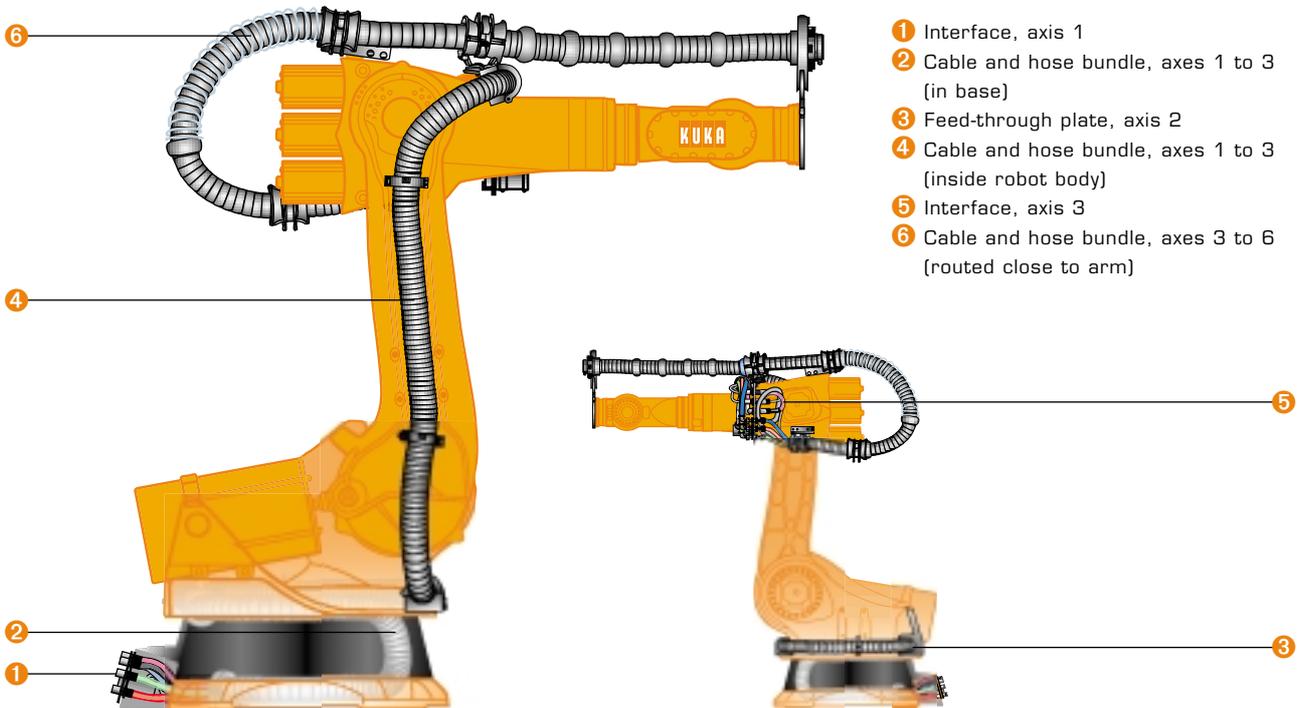
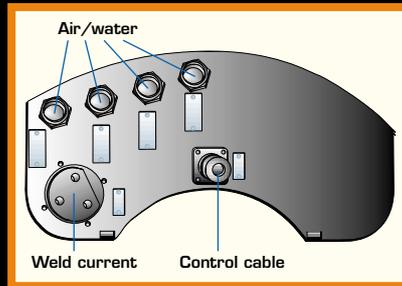
# BENEFIT FROM OUR GOOD CONNECTIONS.

The interfaces and the overall design are irresistibly clear and simple.

1 Interface, axis 1



5 Interface, axis 3



- 1 Interface, axis 1
- 2 Cable and hose bundle, axes 1 to 3 (in base)
- 3 Feed-through plate, axis 2
- 4 Cable and hose bundle, axes 1 to 3 (inside robot body)
- 5 Interface, axis 3
- 6 Cable and hose bundle, axes 3 to 6 (routed close to arm)

## Durability for all applications



# SIMPLY BETTER, DOWN TO THE LAST DETAIL.

The quality of the integrated KUKA solution is apparent in many details.



**Ball joint:** The cable and hose bundle ends in a ball joint at the robot wrist flange. This reduces the stress on the bundle during rotational motions of the wrist and ensures optimal freedom of movement.



**Holder on tool flange:** Thanks to the versatile and stepless adjustment of the holder, the hose and cable bundle can be adjusted optimally for any application.



**Combined endpiece:** The combined endpiece serves a dual role as clamping piece and strain relief for the flexible tube.



**Flexible tubes:** Flexible and resistant to abrasion, they offer greater protection against wear – particularly around the wrist. Available in DN 52 for handling applications and DN 70 for welding applications.



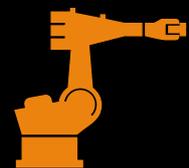
**Snap clips:** The snap clips are fitted with plastic or metal fasteners and are easy to use. They are opened and closed without the need for tools.



**Clamping pieces:** These offer supply lines greater protection and optimal clamping by surrounding them completely.



**Protectors:** As the name suggests, these give the flexible tube extra protection. They are fully ribbed, which also makes them highly effective where two tubes are to be joined.



[www.kuka.com](http://www.kuka.com)

An IWKA Group company



**Headquarters:**  
 KUKA Roboter GmbH  
 Bluecherstrasse 144  
 D-86165 Augsburg  
 Tel.: +49 (0) 8 21/7 97-40 00  
 Fax: +49 (0) 8 21/7 97-16 16  
 info@kuka-roboter.de

**Subsidiaries:**  
 Austria, Belgium, Brazil, China,  
 France, Hungary, Italy, Korea,  
 Malaysia, Mexico, Portugal,  
 Spain, Sweden, Switzerland,  
 Taiwan, Thailand, UK, USA