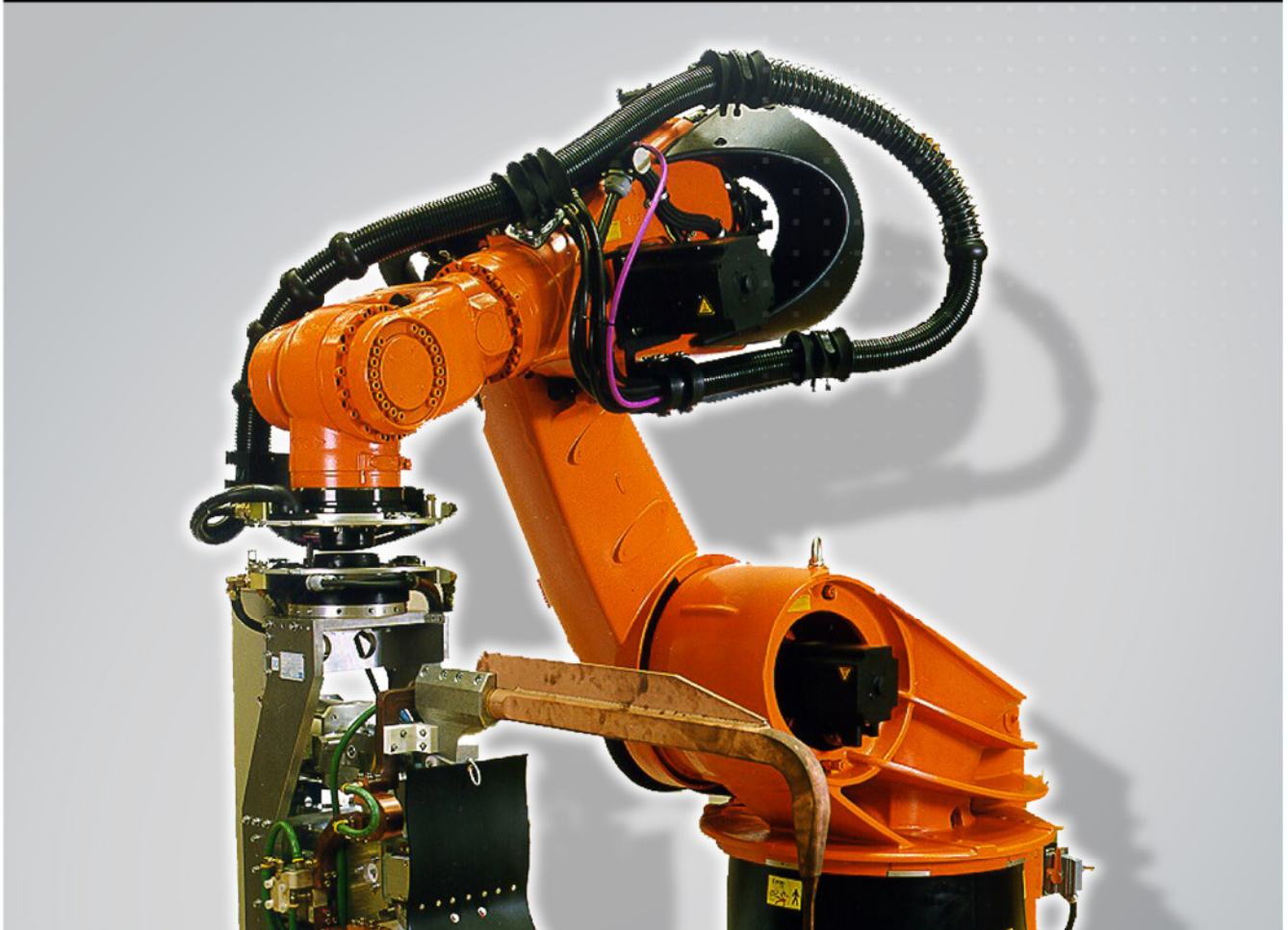


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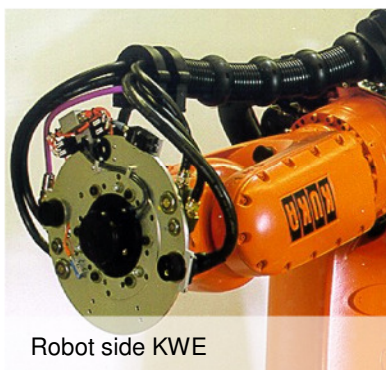
KUKA Standard Products

## KS TOOL CHANGER 500

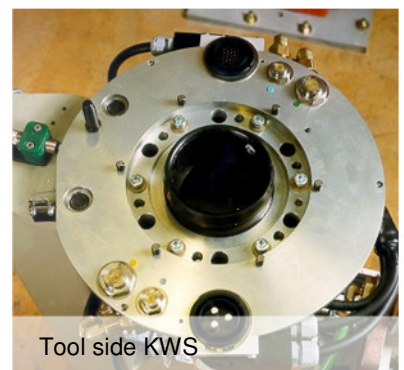


The tool changer is designed for the automated changing of tools and work-piece carriers on the robot and is rated for a payload of up to 210 dN / 500 dN.

The tool changer allows the transmission of cooling water, compressed air, welding current and signals via various bus systems or parallel inputs and outputs (I/Os).



Robot side KWE



Tool side KWS

## KS TOOL CHANGER 500

### Technical Data

DEVICE	KWE 500 (Robot side)	KWS 500 (Tool side)
Connection flange	ISO 9409-1-160-6-M12	
Nominal load	500 dN	
Operating temperature	min. 10 °C / max. 60 °C	
IP-code	IP 64	
KWE and KWS coupled	IP 64 / Longitudinally waterproof along the contacts	
KWE and KWS uncoupled	IP 64 / Longitudinally waterproof along the contacts	
MAIN DIMENSIONS / WEIGHT		
Diameter (without hose- and cable connections)	Ø 404 mm	
Overall height (KWE / KWS coupled)	80 mm	
Weight spot welding version (2x compressed air; 2x cooling water; 1x control current; 1x weld current)	13,6 dN	11,3 dN
Weight handling version (1x compressed air; 1x control current)	12,5 dN	9,8 dN
MEDIA TRANSFER		
Cooling water		
ND coupling	12 mm	
Supply pressure	max: 7x10 <sup>3</sup> hPa (7 bar)	
Particle size	≤ 50µm	
Connection	1/2 " BSP Internal thread	
Compressed air		
ND coupling	8 mm	
Supply pressure	min. 4,5x10 <sup>3</sup> hPa (4,5 bar) max. 10x10 <sup>3</sup> hPa (10 bar)	
Particle size	≤ 50µm	
Connection	1/2 " BSP Internal thread	
Control current		
Kind of signals	Parallel E/A's or INTERBUS, Profibus other control signals or systems on request	
Number of poles	24 + PE or Option 36 + PE	
Needed signals for change function	3 Inputs	2 Outputs
Rated voltage	250 V Insulation coordination according IEC 664-1 / DIN VDE 0110-1	
Rated current	7 A bei 25°C / 1mm <sup>2</sup>	resp. 0,75 mm <sup>2</sup>
Interface	Crimp contacts	
Weld current		
Number of poles	2 + PE	
Nominal voltage	630 V Insulation coordination according IEC 664-1 / DIN VDE 0110-1	
Continuous current	150 A	
Frequency	Normal frequency 50 Hz Medium frequency 1000 Hz	
Interface	Crimpkontakte	
Availability *)	MTTR: 20 min	MTBF: 4000 h

Special versions on request

Specifications regarding the characteristics and usability of the products do not constitute a warranty of properties. They are intended to serve informative purposes only. Some items of equipment depicted in the illustrations are optional, and are not included in the standard scope of supply. Solely the respective contract of sale shall be binding in respect of the extent of our supplies.

\*) in accordance with specification

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