

# S-Family



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S-family is a new generation of Small Robots that combine Comau's extensive experience in industrial automation with cutting-edge technologies, addressing the diverse needs of customers in General Industry sectors.

The perfect fusion of traditional expertise and modernization, these robots are a result of a dedicated collaboration between Comau innovators and its seasoned industrial experts.

The 2 models ensure excellent performances, both in terms of cycle time, repeatability and path control accuracy, and feature payloads of 18 kg and 13 kg with reach of 1730mm and 1960 mm respectively.

## Main applications:

- Arc Welding
- Handling
- Bending
- Vision System

## Main markets:

- Foundry
- Food & Beverage
- Plastic & Chemical Products
- Metal
- Battery Manufacturing
- Automotive



**Payload up to 18 kg**



**Special Features:  
Fully integrated dressings**  
(optional)



**IP65 and IP68 classification**  
High protection against dust and water

**Hollow Wrist**  
to facilitate cable routing

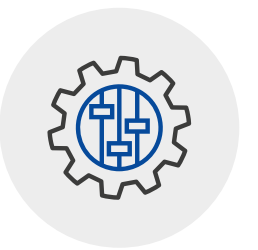
**Hygienic Wrist Design**  
to avoid dust accumulation

**UL94-V0**

**Energy Certificate**  
(Fraunhofer IWU Institute)



**Slim and Curved Arm**  
to minimize interference



**Small Footprint and Low Weight**



# Key Benefits of S-Family Robots

Hollow Wrist caters to Arc Welding Applications and Hygienic Environments.

**IP68 Wrist: Best in class.**

High repeatability and accuracy. Easy to install, integrate, program and use.

The first robot in the world with fully integrated dressing and panel connectors for Arc Welding solutions.

Small Footprint (33cm x 33cm)

Version	S-18-1.7	S-13-1.9
Number of axes	6	6
Maximum wrist payload	18 kg	13 kg
Maximum horizontal reach	1.730 mm	1.960 mm
Torque on A×4	50 Nm	35 Nm
Torque on A×5	50 Nm	35 Nm
Torque on A×6	30 Nm	22 Nm
Motion range Ax1	+/- 180° (205°/s)	
Motion range Ax2	- 90° / +160° (180°/s)	
Motion range Ax3	- 175° / +90° (260°/s)	
Motion range Ax4	+/- 200° (400°/s)	
Motion range Ax5	+/- 125° (400°/s)	
Motion range Ax6	+/- 2700° (635°/s)	
Repeatability	+/- 0.05 mm	
Tool coupling flange ISO	ISO 9409 - 1 - A50	
Weight	265 kg	270 kg
Dust and Water Protection Class	IP65 (wrist IP68)	
Footprint	330 mm x 330 mm	
UL94 Classification	V0	
Energy Classification	In accordance with Fraunhofer IWU Insitute	
Mounting Position	Floor / Ceiling / Inclined Plane / Wall	



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