

# KEEP IT SIMPLE. BUT SMART. EPSON LS SERIES

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Cleanroom models  
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**Epson SCARA LS3-401S**

Payload: 3 kg  
Reach: 400 mm  
Z-axis: 150 mm



**Epson SCARA LS6-602S**

Payload: 6 kg  
Reach: 600 mm  
Z-axis: 200 mm



**Epson SCARA LS20-A04S**

Payload: 20 kg  
Reach: 1.000 mm  
Z-axis: 420 mm



Including Epson RC90 robot controller and  
Epson RC+ development environment

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EXCEED YOUR VISION

# AT A GLANCE – AND IN COMPARISON

## TECHNICAL DATA

	SCARA-Light <b>LS3-401S</b>	SCARA-Light <b>LS6-602S</b>	SCARA-Light <b>LS20-A04S</b>
<b>Design</b>	4 axes	4 axes	4 axes
<b>Payload</b>	3kg	6kg	20kg
<b>Horizontal reach</b>	400mm	600mm	1.000mm
<b>Vertical reach</b>	150mm	200mm	420mm
<b>Arm length</b>	<b>J1</b> 225mm + <b>J2</b> 175mm	<b>J1</b> 325mm + <b>J2</b> 275mm	<b>J1</b> 550mm + <b>J2</b> 450mm
<b>Orientation reach</b>	<b>J4</b> +/- 360°	<b>J4</b> +/- 360°	<b>J4</b> +/- 360°
<b>Horizontal repeatability</b>	<b>J1, J2</b> +/- 0,01mm	<b>J1, J2</b> +/- 0,02mm	<b>J1, J2</b> +/- 0,025mm
<b>Vertical repeatability</b>	<b>J3</b> +/- 0,01mm	<b>J3</b> +/- 0,01mm	<b>J3</b> +/- 0,01mm
<b>Orientation repeatability</b>	<b>J4</b> +/- 0,01°	<b>J4</b> +/- 0,01°	<b>J4</b> +/- 0,01°
<b>Max. envelope</b>	<b>J1</b> +/- 132°, <b>J2</b> +/- 141° <b>J3</b> 150mm, <b>J4</b> +/- 360°	<b>J1</b> +/- 132°, <b>J2</b> +/- 150° <b>J3</b> 200mm, <b>J4</b> +/- 360°	<b>J1</b> +/- 132°, <b>J2</b> +/- 152° <b>J3</b> 420mm, <b>J4</b> +/- 360°
<b>Max. axis speed</b>	<b>J1, J2</b> 6.000mm/s <b>J3</b> 1.100mm/s, <b>J4</b> 2.600°/s	<b>J1, J2</b> 6.800mm/s <b>J3</b> 1.100mm/s, <b>J4</b> 2.000°/s	<b>J1, J2</b> 11.250mm/s, <b>J3</b> 2.020mm/s <b>J4</b> 1.400°/s
<b>Permitted moment of inertia</b>	nom. 0,005kg* m <sup>2</sup> max. 0,05kg* m <sup>2</sup>	nom. 0,01kg* m <sup>2</sup> max. 0,12kg* m <sup>2</sup>	nom. 0,05kg* m <sup>2</sup> max. 0,45kg* m <sup>2</sup>
<b>Permanent insertion force</b>	100N	100N	250N
<b>Electrical user wiring</b>	1 D-Sub (15-pin)	1 D-Sub (15-pin)	1 D-Sub (9-pin), 1 D-Sub (15-pin)
<b>Pneumatic user wiring</b>	3 (1x Ø 4mm and 2x Ø 6mm)	3 (1x Ø 4mm and 2x Ø 6mm)	4 (2x Ø 4mm and 2x Ø 6mm)
<b>Type of mount</b>	Floor	Floor	Floor
<b>Z-axis external/internal</b>	Ø 16 h7 / Ø 11mm	Ø 20 h7 / Ø 14mm	Ø 25mm h7 / Ø 18mm
<b>Cleanroom-option</b>	ISO 4	ISO 4	ISO 4
<b>Power and signal cable</b>	3m	3m	3m
<b>Certificates</b>	RoHS Directive: 2002/92/EC ANSI/RIA: R15.06-1999 NFPA 79 (2007 Edition) CSA/CAN Z434-03 (February 2003) EC Machinery Directive 2006/42/EC	RoHS Directive: 2002/92/EC ANSI/RIA: R15.06-1999 NFPA 79 (2007 Edition) CSA/CAN Z434-03 (February 2003) EC Machinery Directive 2006/42/EC	RoHS Directive: 2002/92/EC ANSI/RIA: R15.06-2012 NFPA 79 (2007 Edition) CSA/CAN Z434-03 (February 2003) CE Marking - Machinery, Low Voltage, EMC Directive
<b>Weight</b>	14 kg	17 kg	50 kg

Price excluding sales tax

**from 10.000,- EUR**

**from 13.000,- EUR**

**from 18.500,- EUR**

J1 = Axis 1 J2 = Axis 2 J3 = Axis 3 J4 = Axis 4