

## SOLAR

C Load UC  
C Unload UC

## Space minimalists for automation of PV inline systems

RENA's ultra compact automation systems C Load UC and C Unload UC are designed for loading and unloading of PV inline tools. Key system benefit consists of the outstandingly short tool length respectively small footprint, allowing installation under most restricted space conditions. Other benefits are single side wafer contact, excellent breakage rate and a very reasonable buffer capacity of at least 6 carriers.

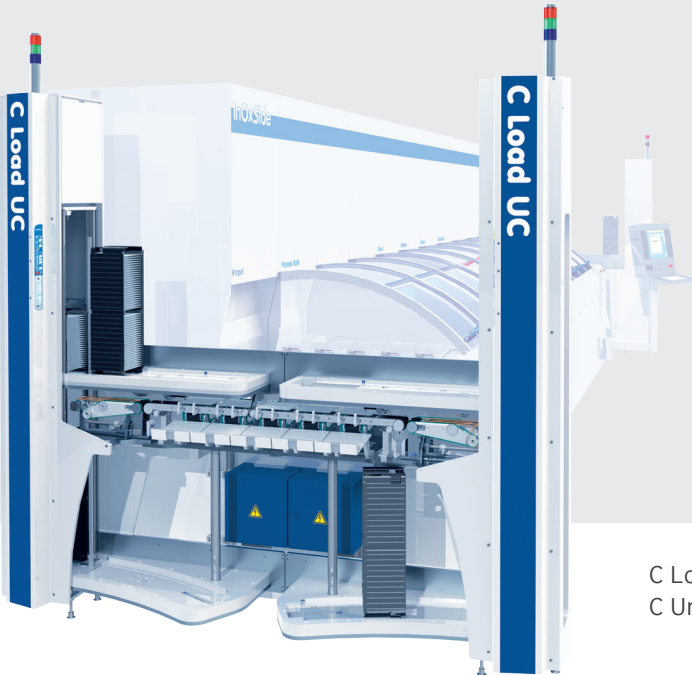
### Areas of application

- Loading/Unloading of wafers from/to carriers to/from inline systems
- Suitable for automation upgrade of existing lines with extremely constricted space

### Features and benefits

- Smallest footprint and shortest length on the market
- Single side contact of wafers and stress-free transport
- Extremely low breakage rate
- Fast installation and easy operation
- 6 carrier buffer capability
- Optimal compatibility to RENA inline wet processing tools with 5 lanes
- Versions with other number of lanes on request





C Load UC and  
C Unload UC

Technical Data	C Load UC	C Unload UC
In/output lanes <sup>1)</sup>	5	5
Wafer size	M0 (156 mm) - M6 (166 mm)	
Wafer shape	square or pseudo-square	
Wafer thickness	≥ 120 µm	≥ 120 µm
Wafer breakage rate	≤ 0.05 %	≤ 0.05 %
Carrier	RENA compact carrier (RCC), RENA ASC carrier, J & R automation carrier, ACI, others upon request	
Max. throughput w/h gross <sup>2)</sup>	5000	5000
Carrier buffer capacity	up to 6 carriers (3 per side)	up to 6 carriers (3 per side)
Uptime	> 98 %	> 98 %
Breakage detection & wafer discharge	-	yes
Power consumption (380-480 V AC, 50/60 Hz)	1.5 kW	1.5 kW
Dimensions mm <sup>3)</sup> (length x width x height)	831 x 2447 x 2555	831 x 2447 x 2555
MES via RENA inline tool incl. RFID reader and wafer tracking	optional	optional

<sup>1)</sup> Versions with other number of lanes on request.

<sup>2)</sup> Throughput 5500 w/h on special request.

<sup>3)</sup> Optional versions for different lane widths.