

## **Czochralski crystal-growing system SC 28**

Specially designed for the industrial production of monocrystalline Silicon crystals from 200 - 300 mm (8 - 12")



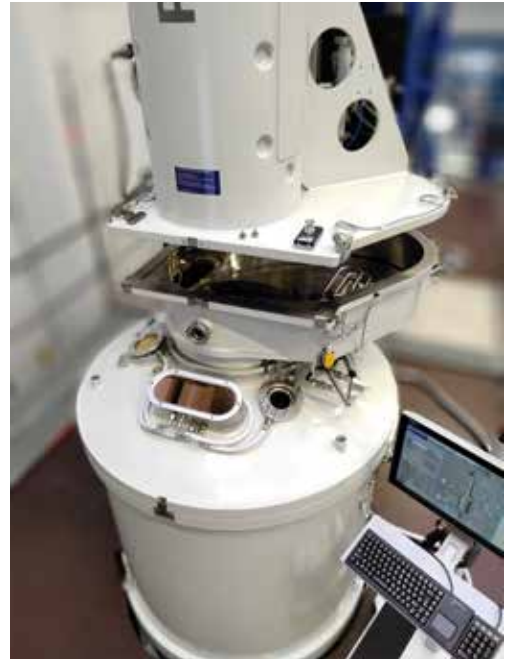
The **SC28 Czochralski system** has been specially designed for the industrial production of silicon monocrystals from 200 - 300 mm (8 - 12"). It is flexibly configurable and thus enables, for example, a customer-specific swing-out of the chamber parts or the connection of various pump and filter solutions to the vacuum system. Its compact design and the resulting reduced footprint, as well as the cable rotation head designed for the highest precision, meet the special requirements of industrial mass production. Optionally customer-specific magnetic connection is possible.

### Necessary Accessories:

- Hotzone 28"
- Vacuum Pumps
- SiO Filter System

### Optional Accessories:

- Hotzone 32"
- Crucible Charging Cart
- Ingot Removal Cart
- Active Crystal Cooling
- Recharging unit
- Magnet (transversal or CUSP)
- Magnet Lifting Device
- Remote Access via VPN



## TECHNICAL DATA

<b>Puller Data</b>	Max. Ingot diameter	8" - 12"
	Ingot length	up to 3,600 mm
	Charge capacity	up to 450 kg
	Hotzone	28"/ 32"
	Total height (closed)	9,900 mm
	Total height (opened)	11,700 mm
	Height above operator level (opened)	9,100 mm
	Footprint	5,600 mm x 4,600 mm
<b>Utilities</b>	Cooling water	approx. 400 l/min
	Installed heater power	180 kW + 90 kW
	Rated Power	approx. 300 kVA
<b>Crucible Drive Unit</b>	Crucible lifting speed*	0.050 ... 2.00 mm/min
	Crucible positioning mode*	2.00 ... 200.00 mm/min
	Crucible rotation speed*	0.1 ... 20 rpm
<b>Crystal Drive Unit</b>	Crystal lifting speed*	0.05 ... 10.00 mm/min
	Crystal positioning mode*	10.00 ... 560.00 mm/min
	Crystal rotation speed*	0.1 ... 20 rpm

\* all speeds are continuously adjustable