

Czochralski crystal growing system CGS1218

Specially designed for the high demands of the semiconductor industry



The **Czochralski crystal growing system CGS1218** is specially designed for the high demands of the semiconductor industry. It has a modular design and can be configured with either a cable head or a crystal shaft. The unique shaft configuration enables highest precision and therefore absolute linearity and reproducibility of the pulling speed. The **CGS1218** has a multi-part chamber that allows batch changes without removing internal components and thus ensures, among other things, high reproducibility of the thermal conditions in the process. The system is designed for hotzones from 32" - 36" and can be operated with single or dual camera systems via interactive software solutions.

Required Accessories:

- Hotzone 32"
- Vacuum Pumps
- SiO Filter System

Optional Accessories:

- Hotzone 36"
- Crucible Charging Cart
- Ingot Removal Cart
- Active Crystal Cooling
- Magnet (transversal or CUSP)
- Magnet Lifting Device
- Pulling Cable or Pulling Shaft
- Remote Access via VPN



TECHNICAL DATA

Puller Data	Max. Ingot diameter	12" - 18"
	Ingot length	2,800 mm
	Charge capacity	300 kg - 450 kg
	Hotzone	32" - 36"
	Total height (closed)	13,900 mm (10,000 mm cable)
	Total height (opened)	13,900 mm (10,000 mm cable)
	Height above operator level (opened)	10,000 mm (6,100 mm cable)
	Footprint	5.500 mm x 4.500 mm
Utilities	Cooling water	approx. 500 l/min
	Installed heater power	216 kW + 132 kW
	Rated Power	approx. 450 kVA - 500 kVA
Crucible Drive Unit	Crucible lifting speed*	0.001 ... 2.6 mm/min
	Crucible positioning mode*	0.1 ... 260 mm/min
	Crucible rotation speed*	0.1 ... 20 rpm
Crystal Drive Unit	Crystal lifting speed*	0.01 ... 10 mm/min
	Crystal positioning mode*	1 ... 1,000 mm/min (cable version 1...560 mm/min)
	Crystal rotation speed*	0.1 ... 20 rpm

* all speeds are continuously adjustable