



SolarCrystallizer 24

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Our solar Czochralski-Puller for mass production of silicon crystals up to 230 mm diameter.

Technical Data

Puller Data

Crucible diameter:	24" (up to 616 mm)
Crucible height:	up to 430 mm
Crystal diameter:	up to 230 mm
Crystal length:	up to 2.9 m
Charge weight:	up to 220 kg*
Vessel diameter:	approx. 980 mm
Vessel height:	approx. 1,670 mm
Gate valve diameter:	304 mm
Receiving chamber:	tube
Weight (Puller):	approx. 7,800 kg
Weight (power cabinet):	approx. 1,500 kg

*achievable by feeding (initial load max. 160kg)

Crucible Drive Unit

Lifting speed:	0.02 ... 200 mm/min
Stroke:	approx. 510 mm
Rotation speed:	1.0 ... 35 rpm

Crystal Drive Unit

Lifting speed:	0.1 ... 1,000 mm/min
Rotation speed:	1.0 ... 35 rpm

Utilities

Power rating:	max. 280 kVA*
Process gas:	max. 100 l/min
Compressed air:	6 ... 8 bar
Water inlet pressure:	max. 5.0 bar
Water consumption:	max. 240 l/min
Water temperature:	max. 35° C

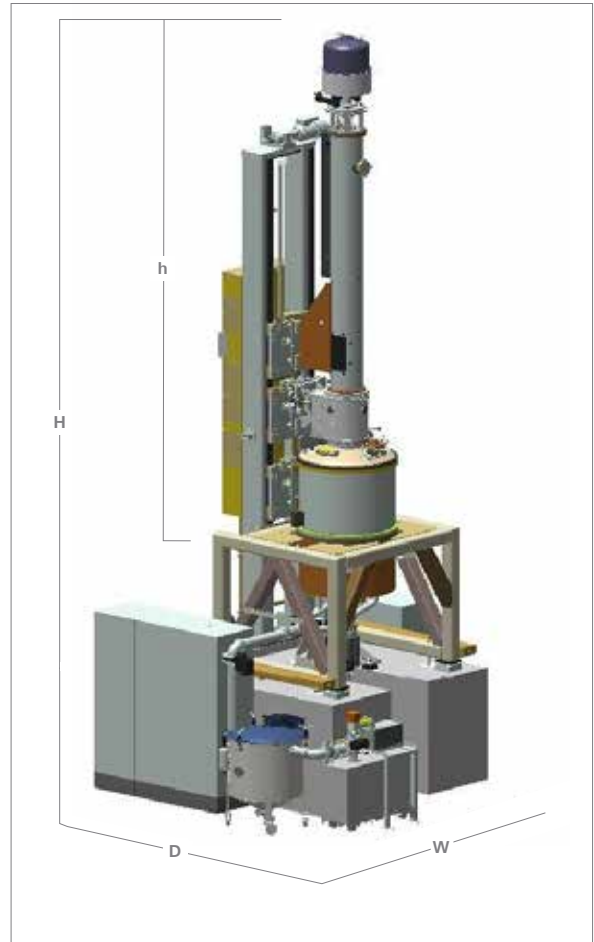
*incl. vacuum pump, may vary depending on make/type

System Control

Automatic process control by PLC / PC.

Required Accessory

Hotzone
Vacuum Pump Unit
SiO Filter System



Dimensions (approx.)

Total Height

(opened)	(H)	9,500 mm
(closed)	(H)	7,900 mm

above Operator Level

(opened)	(h)	7,700 mm
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Width

(D) 3,700 mm

Depth

(W) 4,200 mm

Clearance Height Lower Level

2,500 mm

Optional Equipment

Production Management System
Crucible Charging System Type TBS
Ingot Handling Equipment
Mobile Feeding System Type SiCharger
Active Crystal Cooling

(Optional equipment may increase utility consumptions)