



**EKZ 3500**

## EKZ 3500

Our sophisticated Czochralski-Puller for the mass production of silicon crystals up to 300 mm diameter.  
Additional Equipment for Magnetic-Czochralski (MCz) available.

### Technical Data

#### Puller Data

Crucible diameter:	up to 610 mm (24")
Crucible height:	up to 380 mm
Crystal diameter:	up to 300 mm
Crystal length:	up to 2.5 m
Charge size:	up to 200 kg*
Vessel diameter:	approx. 940 mm
Vessel height:	approx. 1,680 mm
Gate valve diameter:	up to 360 mm
Receiving chamber:	door/tube
Weight (Puller):	approx. 9,000 kg
Weight (power cabinet):	approx. 1,800 kg
Weight (control cabinet):	approx. 360 kg
*with feeder (initial load max. 130 kg)	

#### Crucible drive unit

Lifting speed:	0.02 ... 200 mm/min
Stroke:	approx. 620 mm
Rotation speed:	1 ... 35 rpm

#### Crystal drive unit

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

#### Utilities

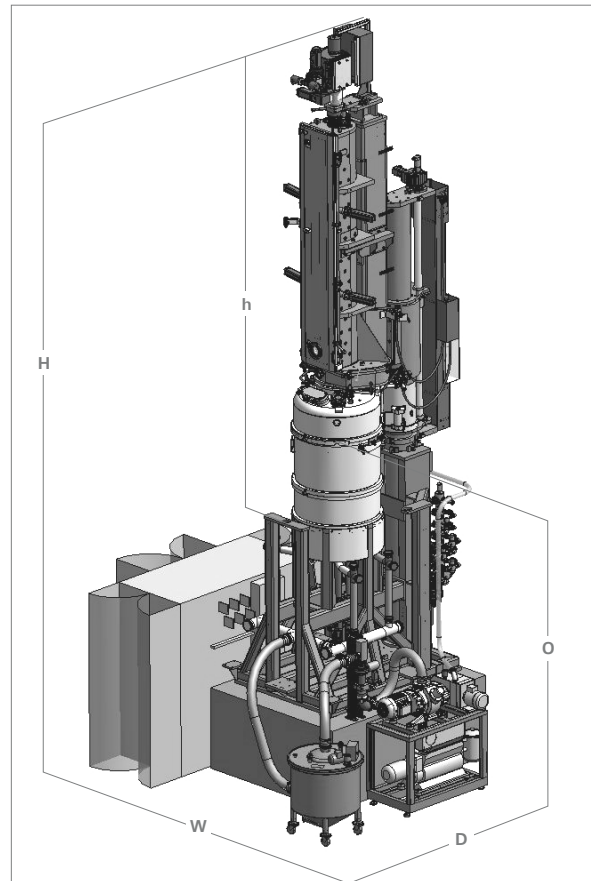
Power supply:	max. 250 kVA
Process gas:	max. 100 l/min
Compressed air:	4.5 ... 5 bar
Water pressure:	max. 4.5 - 5.0 bar
Water consumption:	max. 300 l/min

#### System Control

Automatic process control by PLC / PC:	equipped as standard
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#### Required Accessory

Hotzone  
Vacuum Pump Unit  
SiO Filter System



### Dimensions (approx.)

<b>Height (opened)</b>	(H)	10,300 mm
<b>(closed)</b>		9,200 mm
<b>-above operator level (opened)</b>	(h)	7,200 mm
<b>Width</b>	(W)	4,200 mm
<b>Depth</b>	(D)	3,800 mm
<b>Operator level</b>	(O)	3,500 mm
<b>Clearance height lower level</b>		2,500 mm

### Optional Equipment

Production Management System  
Crucible Charging System Type TBS (on request)  
Ingot Handling Equipment  
Active Crystal Cooling  
Granular Feeding System  
Magnet  
(Optional equipment may increase utility consumptions)