

Crystal Grower Procurement and Acceptance Checklist

A practical buyer checklist for MCG machines, CZ crystal growers, monocrystal furnaces, and silicon ingot pullers used in solar, semiconductor, and upstream silicon projects.

Prepared by JRST Technology LLP for project owners evaluating equipment, refurbished machinery, supplier offers, installation readiness, and acceptance testing.

CHECKPOINT	WHAT TO VERIFY
01 Product requirement	Define application, ingot diameter, charge size, grade, dopant route, annual output, quality controls, traceability, and customer qualification expectations.
02 Machine configuration	Confirm model, serial details, chamber, puller, controls, hot-zone compatibility, software access, documentation, spares, auxiliaries, and included tooling.
03 Condition and refurbishment	For used equipment, verify operating history, missing parts, replaced components, test evidence, known issues, refurbishment scope, and remedy responsibility.
04 Site and utilities	Check power, cooling, inert gas, vacuum, exhaust, floor loading, rigging, safety systems, maintenance access, and installation interfaces before purchase.
05 Acceptance protocol	Agree FAT or inspection scope, SAT scope, acceptance criteria, payment milestones, defect remedies, warranty limits, and commissioning support before signing.

Questions to ask before releasing a purchase order

- ? Is the machine quoted against the required ingot diameter, charge size, grade, output, and customer specification?
- ? What exactly is included: hot zone, crucibles, graphite parts, controls, software access, manuals, drawings, auxiliaries, and starter spares?
- ? For refurbished equipment, what was replaced, what remains original, what is untested, and what evidence supports the offered condition?
- ? Can the buyer's site support the machine utility load, cooling, argon, vacuum, exhaust, safety, rigging, and maintenance requirements?
- ? What is the written FAT/SAT protocol, what counts as acceptance, and what happens if the machine fails acceptance?

How JRST supports this requirement

JRST Technology supports requirement-led sourcing for MCG/CZ equipment by translating the buyer's product and capacity target into a supplier brief, screening new and refurbished options, coordinating supplier communication, reviewing configuration and acceptance information, and connecting the selected machine with utilities, consumables, installation, commissioning, training, and production-readiness planning.

Commercial terms, warranty, availability, performance commitment, and responsibility are confirmed project by project in the relevant proposal or agreement.

Website: <https://www.jrsttechnology.com/knowledge/mcg-cz-procurement-acceptance-checklist> | Contact: india@jrsttechnology.com | JRST Technology LLP