Spin Coater Requirements Worksheet

01 | Results and substrates

For your own planning. Fill in what you know; note unknowns and development needs.

01 Define the coating result

What is the coating application or end use?

What coating material or materials will you use?

Target film thickness (include units)

Acceptable thickness tolerance

Target film uniformity (include units and how you define the target)

How and where will thickness and uniformity be measured?

Acceptable variation between substrates or runs, if known

02 Describe the full substrate range

Substrate material or materials

Shape: round, square, rectangular or other

Smallest and largest sizes: diameter or width x length

Dimensional tolerances, including square / rectangular parts

Substrate thickness range and tolerances

Fragility, warp, backside condition or other handling constraints

Explain more: results, substrates, acceptance criteria or future changes

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02 | Chemistry, handling and recipe

For your own planning. Fill in what you know; note unknowns and development needs.

03 Identify chemistry and handling needs

Chemistry / formulation / product name, if known

New, in development or already in use?

Known viscosity or other material properties

Solvents and cleaning agents used with the process

How is the material supplied or contained?

Where will coating and cleaning wastes go?

Special handling, compatibility, storage or safety concerns

04 Record what is known about the recipe

Recipe status: established, being developed or not yet known

How will you apply it: manual, automated or undecided?

Dispense volume, timing or accuracy needed

List known steps below. Leave values blank if they are still being developed; include units in notes.

Step / action	Spin speed (RPM)	Time (seconds)	Other known settings

Other needs: ramps, step / dispense timing, edge bead removal or backside rinse

Explain more: chemical handling, recipe unknowns or application method

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03 | Facilities, workflow and working life

For your own planning. Fill in what you know; note unknowns and development needs.

05 Check the installation and facility

Where will it go: wet bench, fume hood, glove box, table or other location?

Operating environment / cleanroom requirements

Space, footprint, lid clearance and access limits

Electrical supply and current limitations

Vacuum and compressed gas availability / limits

Available exhaust, drainage and waste connections or limitations

Facility safety concerns, required electrical certifications or other approvals

06 Map the workflow and workload

Upstream process steps

Downstream process steps

Where will people and substrates move through the cleanroom or laboratory?

Required throughput (substrates per day)

Operators, shifts or operating hours per day

Connections to other equipment, software, process data or automation

07 Plan the working life and future needs

Expected working life (years)

Service, uptime and parts-support expectations

Future materials, processes, throughput or capabilities to allow for

Explain more: current limitations, future needs or questions to resolve