

# Sputter Coating System SAT (Acceptance Procedure)

## 1. General Admission

Testing	Description	Test Method	Admission Criteria
<b>Documentation</b>	Control of CE and technical documents	Document review	Complete
<b>Installation</b>	System setup check	Observation	Operational
<b>Education</b>	Operator training	Observation	Completed

## 2. Vacuum System

Testing	Description	Test Method	Admission Criteria
<b>Pump-down</b>	Extraction from atmosphere to vacuum	Measurement	$\leq 5 \times 10^{-7}$ mbar
<b>Ultimate vacuum</b>	Final vacuum level	Gauge measurement	$\leq 5 \times 10^{-7}$ mbar
<b>Leak test</b>	Leak control	Pressure monitoring	Stable

## 3. Gas and Pressure Control

Testing	Description	Test Method	Admission Criteria
<b>MFC accuracy</b>	Gas flow accuracy	Comparison	$\pm 1\%$
<b>Multi-gas</b>	Multi-throttle control	Testing	Stable
<b>Pressure</b>	Pressure during plasma	Measurement	Stable

## 4. Sputter Resources

Testing	Description	Test Method	Admission Criteria
RF plasma	RF ile plasma	Testing	Stable
DC plasma	DC ile plasma	Testing	Stable
Co-sputtering	Dual welding	Testing	Works

## 5. Heating and Substrate

Testing	Description	Test Method	Admission Criteria
Temperature	800°C control	Measurement	±1°C
Rotation	Table rotation	Testing	0–30 rpm

## 6. Thickness Measurement

Testing	Description	Test Method	Admission Criteria
Thickness measurement	Measurement during deposition	Testing	Continuous data
Accuracy	Comparison with reference	Measurement	≤5%

## 7. Software and Automation

Testing	Description	Test Method	Admission Criteria
Recipe	Run a recipe	Testing	Hassle-free
Logging	Data logging	Control	Complete
User	User management	Testing	True

## 8. Security

Testing	Description	Test Method	Admission Criteria
EMO	Acil stop	Testing	System stops
Interlock	Door opening	Testing	Plasma shuts down
Water fail	Water shut-off	Testing	System stops

## 9. Performans

Testing	Description	Test Method	Admission Criteria
Uniformity	Film homogeneity	Measurement	$\leq 5\%$
Repeatability	Repeatability	Testing	Consistent
Stability	Working for a long time	Testing	Stable