

Phone: 864.433.9771

® Precision Measurement Discovery Worksheet

Helping You Eliminate Variation, Improve Quality, and Streamline Inspection

| Company Name: |
|---|
| Primary Contact Name: |
| Title / Department: |
| Date: |
| 1. \(\sqrt{ Current Inspection Process} \) What equipment or tools are used today for part inspection? |
| - [] Calipers / Micrometers [] Height Gages [] Indicators / Test Stands |
| - [] Optical Comparator [] Vision System [] Manual CMM [] Automated CMM |
| - [] Portable Arm [] Blue Light Scanner (Interferometry) [] Handheld Laser Scanner [] Tracker |
| - [] Custom Hard Gaging [] Outsourced Inspection [] Other: |
| What are the key limitations or pain points with your current approach? |
| |
| 2. Business Drivers & Objectives What are you hoping to achieve with improved measurement solutions? - [] Reduce inspection time or increase throughput - [] Improve accuracy or reduce variation |
| - [] Automate manual or repetitive tasks |
| - [] Reduce scrap, rework, or customer returns |
| - [] Enhance product documentation and traceability |
| - [] Support compliance with standards (e.g., ISO 9001, AS9100, ISO 13485, IATF 16949, ITAR) |
| - [] Eliminate outsourcing or third-party inspection costs |
| - [] Enable real-time production feedback or SPC |
| - [] Reverse engineering or part validation |
| - [] Other: |



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3. S Parts & Features of Interest
What parts or components are you primarily inspecting?

| What materials are being measured? - [] Steel Magnetic [] Steel Non-Magnetic [] Aluminum [] Plastic [] Composite [] Other: |
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| What type of finish on part? - [] Turned or Milled [] Ground [] Polished [] Coated [] Other: |
| What are your inspection volumes? - [] Prototypes [] HMLV (High Mix Low Volume) [] LMHV (Low Mix High Volume) |
| What measurement features or tolerances must be analyzed? |
| - [] Dimensional tolerances |
| - [] GD&T features (e.g., position, flatness, straightness, profile) |
| - [] Surface finish or form |
| - [] Complex/freeform geometry |
| - [] Internal or hidden features |
| - [] Other: |
| Typical tolerances: - [] ±0.005" [] ±0.0005" [] Tighter: |
| 4. Reporting, Data & Compliance Can you share a copy of your current inspection report for reference? |
| If you could improve your current reporting, what would you change or add? |
| Do you require inspection reports for: |
| - [] First Article Inspection (FAI) |
| - [] PPAP (Production Part Approval Process) |
| - [] Customer or internal quality audits |
| - [] Other: |
| What formats or systems do your reports/data need to connect with? - [] PDF / Excel |
| - [] SPC Software (e.g., Prolink, Minitab) |
| - [] ERP / MES Integration |
| - [] Other: |
| Is real-time data feedback to manufacturing required? - [] Yes [] No [] Not Sure |



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| 5. Compliance & Standards Requireme | ents |
|-------------------------------------|------|
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| Which industry standards or regulatory requirements are applicable to your operations? - [] ISO 9001 (Quality Management) |
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| - [] AS9100 (Aerospace Quality Management) |
| - [] ISO 13485 (Medical Devices Quality Management) |
| - [] IATF 16949 (Automotive Quality Management) |
| - [] ITAR (International Traffic in Arms Regulations) |
| -[] Other: |
| 6. Environment & Workflow Where will the equipment be used? -[] Quality Lab [] Production Floor [] Mobile Use / Cart-Based |
| Any environmental conditions to consider? |
| - [] Temperature fluctuation |
| - [] Dust, vibration, oil, coolants, or particulates |
| - [] Limited space or power |
| - [] Other: |
| Do you require: |
| - [] Shop-floor ruggedization |
| - [] Mobility between workcells |
| - [] Integration with automation / robotics |
| 7. Current vs. Ideal State What is your average inspection time per part or lot? |
| How many people are involved in your inspection process? |
| What does an ideal process or outcome look like for your team? |
| Any known quality issues or inspection bottlenecks affecting production? |
| |
| 8. Future Needs & Scalability Are you expecting growth in part volume or product mix? -[] Yes [] No [] Maybe — explain: |
| Do you want a solution that can scale with your production? (e.g., expandable throughput capacity, automation-ready, upgradable hardware/software) |



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| 9. Project Timing & Budget |
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| Is this a funded project? |
| - [] Yes [] No [] Working on budget approval |
| t timeline: |
| - [] Immediate Need |
| - [] Within 3 Months |
| - [] 3–6 Months |
| - [] 6–12 Months |
| - [] Long-Term Planning |
| 10. Stakeholders & Decision Process |
| Who else is involved in evaluating or approving this investment? |
| |
| |
| Are there specific KPIs or ROI metrics your team needs to hit? |
| - [] Scrap / Rework reduction |
| - [] Cycle time improvement |
| - [] Labor cost savings |
| - [] Compliance / audit readiness |
| - [] Other: |
| 11. / Integration, Setup & Use Considerations What is more important, ease of use or flexibility? |
| Is start-up applications assistance desired? Including startup production part program(s) and/or |
| fixturing? |
| Is a custom operator interface required for quick launch of part programs? |
| Is a complete turnkey system desired? |
| Other considerations? |
| MSI Viking will use this information to recommend the right solution and, if needed, prepare a business case that supports your investment goals – from cost savings and improved throughput to better quality and compliance. |