



Line Integration Services

Save substantial start-up, training, commissioning, and validation time and money by utilizing Clarke Solutions' and Acquire Automation's line integration services.

When a manufacturing line hits the floor, the pressure is on to start producing at a highly efficient rate immediately. The Clarke Group (Clarke Solutions and Acquire Automation) have the knowledge and facilities to ensure our customers can meet their implementation goals.

SUMMARY OVERVIEW

MANUAL TESTING

- Engineering Design Services
- Engineering Execution Services
- Mechanical and Electrical Line Integration
- Line Control/Automation Systems
- Vision System Design and Integration
- Commissioning and Qualification Services
- Turnkey Responsibility

1. Engineering Design Services

Capacity analysis, five-year master planning, capital funding requests and justifications, equipment recommendations, conceptual line design layouts, preliminary cost and timeline estimates

2. Engineering Execution Services

Equipment requirements and specifications, competitive bidding process, OEM oversight and management, stringent factory acceptance documentation and testing, and engineering documentation management

3. Mechanical and Electrical Line Integration

Mechanical installation and startup services, comprehensive line layout and CAD services, complete utilities design and management, detailed installation bulletins for competitive bidding of subcontractors, effective mechanical and electrical integration between individual equipment. Complete off-site integration facility to support large line integration.



4. Line Control/Automation Systems

Complete design and implementation of line control systems. Ability to design and program complete systems to meet line specific needs including: centralized HMI for optimized operations, automated batch entry, machine speed/ramp control, accumulation optimization, downtime/efficiency reporting, fault tracking and reporting.

5. Vision System Design and Integration

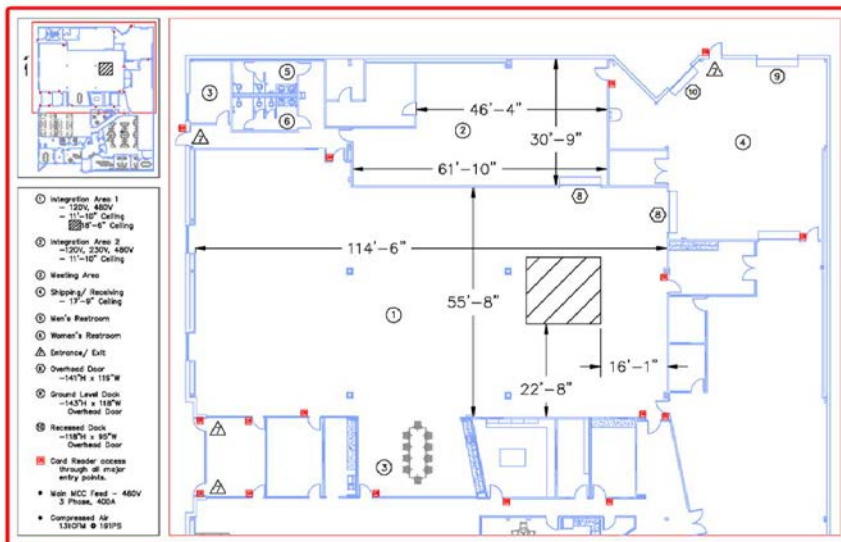
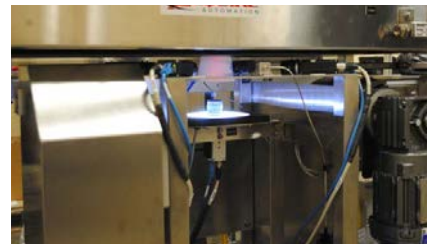
Extensive experience developing and integrating vision to multiple OEM equipment and can offer a fully integrated vision system solution for an entire line. One standard vision solution can meet all of your inspection requirements.

6. Commissioning and Qualification Services

Development of master validation plans and site periodic quality reviews for efficient, compliant documentation strategies. Extensive experience creating, executing, and managing commissioning and qualification processes for customers including both off-site and on-site validation activities. Documents can be created in customer formats following customer SOP's.

7. Turnkey Responsibility

Full responsibility for entire line integration and line performance. Manage all aspects of integration projects including complete Project Management, Project Execution, Engineering, Integration, Validation, Install/Startup, and Contractor Management at customer sites.



Line integration amenities