

# Line Integration Services

Custom-engineered solutions from integrated process lines to fully automated plants, Key's Integrated Solutions Group provides single-contact expertise and convenience.

## Solid Experience and Leadership

Large integrated lines and processing plants have become increasingly sophisticated and automated. The Key Integrated Solutions Group (ISG) was launched in response to customer requests for our leadership in solving problems and managing projects for them.

Today Key is leveraging deep industry expertise and strong engineering and project management capabilities to deliver world-class integrated solutions with best-of-breed technologies – all from a single source.

## Custom-Engineered Solutions

Full engineering services including plant and line design:

- General arrangement drawings
- Functional specifications
- Custom equipment design and manufacture
- System Controls
- Equipment installation and commissioning
- Single point of contact
- Turnkey solutions
- Project management
- Alliances with industry-leading suppliers



Key works closely with customers throughout the project to ensure the line is designed to meet their requirements.

We will incorporate customer-specified third-party equipment or present multiple options, based on our experience, to help make final equipment decisions.

For more than 60 years Key has been designing innovative food processing equipment – and working with customers worldwide to overcome production challenges – we have gained a unique perspective.

Today we are in a position to utilize our experience and tap into our strong industry relationships and third-party supplier alliances to create superior production lines.

# Key Line Integration Services Phased Approach

For customers in markets around the world, Key's Integrated Solutions Group works with customers to develop processing lines – or portions of a line – from raw receiving through packaging using a disciplined phased Project Management approach.

## Phase 1

### Definition

- Process engineering, concept and feasibility studies, process flow diagrams, general arrangement drawings, equipment and instrumentation lists
- Scope definition
- KPI definition  
[Key Performance Indicators]
- Budget development

## Phase 2

### Design and Procurement

- Equipment and system design
  - Performance / reliability
  - Sustainability / efficiency
  - Food safety
  - Interface management
- Procurement
- Audits to ensure compliance to specification
- Control system design
- Finalize installation plan
- Monitor progress  
(cost/performance/schedule)
- Factory acceptance test
- Shipping

## Phase 3

### Installation, Training and Commissioning

- Installation
  - Mechanical
  - Electrical
  - Controls
- Functional I/O testing
- Training coordination
- Dry commission tests
- Wet commission tests

## Phase 4

### Start-up and Optimization

- Production runs
- Process Validation
- Hand-over to operations
- Production start-up support
- Issues list sign-off
- Project sign-off
- Continued support through our SupportPro global service team

Contact the Key Integrated Solutions Group today to access our broad foundation of food industry knowledge.

“We solve problems in partnership with our customers.”