

USCCG

When It Comes
To Manufacturing,
We Can Help You
Make It Better

*USC Consulting Group:
An Experienced Professional
Resource for Mid- to Large-Scale
Manufacturers of all Types*



manufacturing

Manufacturing Experience

USCCG is very experienced in both discrete manufacturing and job shop environments. We've helped many well-known and highly regarded companies to:

- Achieve warehousing cost reductions
- Eliminate waste
- Improve capacity
- Improve maintenance
- Improve quality
- Improve real time data reporting
- Improve shop floor scheduling
- Improve utilization of existing facilities and technology
- Improve yields
- Increase labor productivity
- Reduce back orders
- Reduce cycle time
- Reduce inventory (raw, WIP, finished goods)
- Reduce overtime
- Speed up clean-outs, changeovers and start-ups

Processes Worked

We've improved nearly every process, including:

- Calendering
- CNC machining
- Converting
- Custom assembly
- Cutting and slitting
- Die casting

- Drawing
- Extruding
- Finishing and staining
- Forging
- Forming
- Foundry casting
- Heat treat/anneal
- Injection molding
- Inspection/measurement
- Milling
- Packaging
- Painting and coating
- Photolithography
- Printing
- Refining
- Re-manufacturing
- Smelting
- Stamping
- Sterilization
- Welding

Product Experience

In addition, USCCG has been involved with many different types of products, including:

- Adhesives
- Aircraft
- Apparel and related
- Appliances
- Automotive aftermarket
- Automotive OEM
- Cabinetry
- Construction equipment
- Corrugated products
- Craft products
- Defense equipment
- Switches, connectors and transformers
- Fabricated steel
- Farm equipment
- Furniture

- Home hardware
- Home improvement products
- HVAC products
- Jewelry
- Leather goods
- Microelectronics
- Molded plastics
- Paints and coatings
- Paper products
- Petroleum products
- Pharmaceuticals
- Power and hand tools
- Presses and forming equipment
- Primary steel and aluminum
- Printed products
- Production home building
- Pumps and valves
- Recreational equipment
- Reproduction equipment
- Surgical and medical devices
- Test and measurement equipment
- Tubing
- Turbines and energy related equipment
- Windows and doors
- Wire and cable

Totally Customized Approach

Our approach is totally customized for each client and situation but will typically include some or all of the following components and/or methodologies:

- Cycle time improvement
- Inventory and physical asset management
- Line balancing (equipment, resources)

- Maintenance, engineering and indirect support effectiveness
- Management/supervisory effectiveness
- Problem identification and resolution
- Process/equipment control and calibration
- Process mapping and optimization
- Resource and demand planning
- Sales and operations planning
- Statistical process control
- Structure and decision-making
- Visual management techniques

Client Benefits

These tools and techniques enable us to deliver a wide range of benefits to our clients:

1. Better asset utilization
2. Better planning using existing software
3. Higher share of market
4. Improved communications skills at all levels
5. Improved customer service
6. Improved quality/less rework
7. Lower operating costs
8. Quicker speed to market
9. Reduced cycle time
10. Reduced process variation
11. Repeatable process



USCCG

Our Work

Let's take a look at some of our work with job shops, component manufacturers and assemblers, and finished goods manufacturers. Each of the following solutions was totally customized and implemented by USCCG professionals using proprietary techniques and methodologies to meet the unique needs of individual clients. Here are some highlights from three real engagements.

Case History # 1

Component manufacturer losing market share to more nimble competitors wanted to quickly introduce and deliver new products just in time to meet growing customer demands for faster response times.

Our Assignment: Reduce cycle times and inventory while enabling the company to be more responsive to customer requests.

Our Approach:

1. Used Kanban techniques and quality-at-the-source concepts to eliminate WIP inventories.
2. Developed prototyping process to shorten workflows and processes.
3. Strengthened planning methods and discipline to regain control.
4. Designed computer-based management system to help plan and complete work on time.
5. Introduced quick changeover methodology.
6. Eliminated non-value-added activities throughout the plant.
7. Modified structure of engineering areas to improve support for production and customer service.

The Results:

1. Average cycle time reduced 90%
2. WIP inventory reduced 80%
3. Welding attainment increased 74%

4. Mill changeover reduced 72%
5. Engineering man-hours backlog reduced 65%

Case History # 2

Leading producer of high efficiency compressors for commercial and residential use was unable to meet significantly increased demand with highly automated, state-of-the-art facility.

Our Assignment: Leverage existing plant and equipment to avoid need for further capital investment.

Our Approach:

1. Reviewed entire assembly process from front-end planning to product shipping.
2. Worked with plant personnel to identify and eliminate or minimize production impediments.
3. Discovered new efficiencies in mixed-model scheduling, service department support and preventive maintenance.
4. Significantly enhanced component part flows.
5. Installed total quality management system.
6. Revamped layout of equipment and work centers.

The Results:

1. Units produced per line hour increased 62%
2. Overall productivity increased 18%
3. Scrap cost per compressor reduced 73%
4. Overtime cost per compressor reduced 22%
5. Number of production changeovers reduced 15%

Case History # 3

Tier 1 (direct) supplier of prototype dies and assembly tooling design and manufacturing to automotive industry wanted to reduce costs.

Our Assignment: Reduce payroll, cycle times and inventory costs.

Our Approach:

1. Conducted two-week feasibility study to identify and quantify benefits of potential improvements.
2. Obtained input from personnel at all levels in the organization to help develop improvement prototypes.
3. Developed methodology to link quoted costs and delivery schedule to production scheduling system and shop floor.
4. Used supervisory staff to break large tasks into more manageable shift deliverables.
5. Set up nine teams to develop action plans to install project management system.
6. Focused teams on monthly revenue recognition and customer-driven work scope change management to improve financial reporting and control.

The Results:

1. Productivity improved 30%
2. Overtime was reduced 15-25%
3. Cycle time was reduced, improving on-time performance to 97%

These results are fairly typical of what we've been able to accomplish in the manufacturing field. You can review other case histories by visiting our web site.

For more information, contact us at **800-888-8872** or www.usccg.com.



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