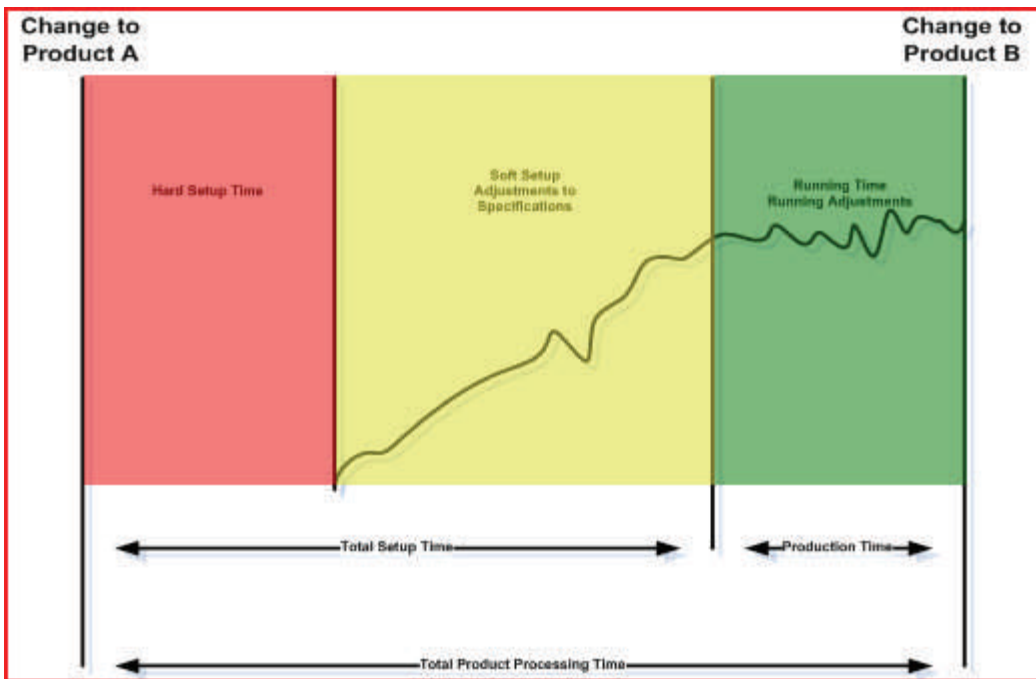


# Changeover Optimization

## Typical Processing Model



## BENEFITS

- ◆ Increased efficiency
- ◆ Reduced inventory requirement
- ◆ Increased capacity
- ◆ Reduced work-in-progress
- ◆ Increased flexibility
- ◆ Better customer support

A changeover is the time from last production of one product until steady state production of the next product. All of the work and time involved between making the last good product, batch, or part of one product to the next product, batch, or part at normal efficiency/speed is a part of the changeover process. There are periods of both hard setup time and soft setup time that affect the changeover.



**Charles Brooks Associates, Inc.**  
**800-868-3553**

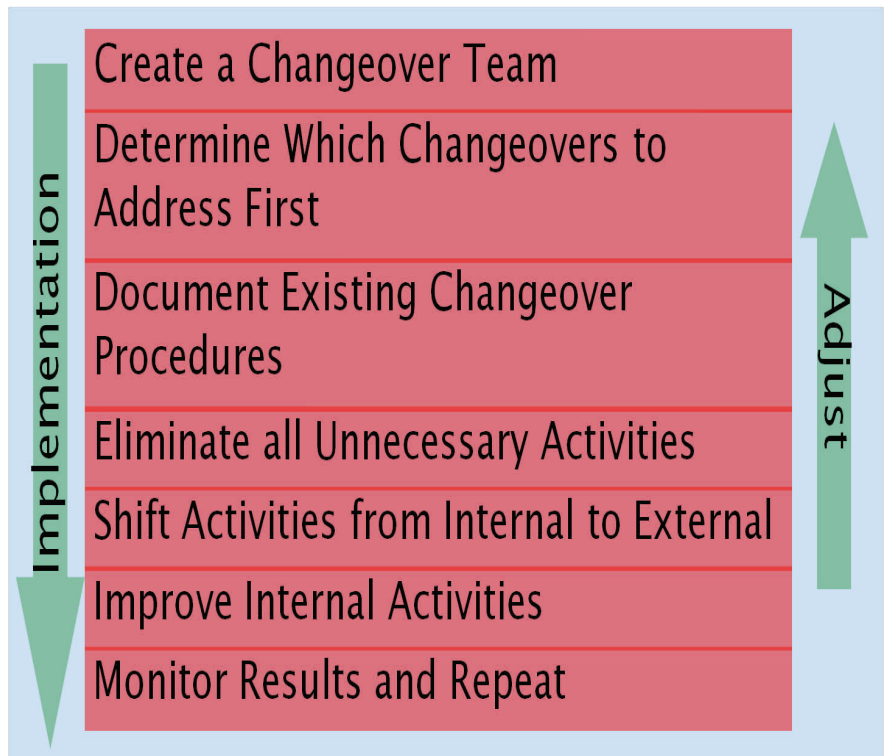
# Charles Brooks Associates, Inc.

## Changeover Optimization

### Typical Changeover Steps

- ◆ Preparation
- ◆ Line Clearance
- ◆ Wash Down
- ◆ Tear Down
- ◆ Installation
- ◆ Reposition
- ◆ Sanitation
- ◆ Quality Checks

### Changeover Optimization Action Plan



Charles Brooks Associates, Inc. offers a full range of changeover optimization services from providing classroom and shop-floor training sessions to managing the optimization effort for our clients. Our experience with clients in a variety of industries including beverage, packaging, electronics, medical products, and automotive has positioned our consultants to deliver the state of the art in changeover optimization.

While many of the techniques required for optimization appear to be straight forward, their application requires skills and talents that can only be gained through experience. Utilizing a well accepted industrial engineering and lean manufacturing approach, Charles Brooks Associates, Inc. has been able to assist clients in achieving spectacular results. It is not uncommon to see total changeover time reduced by 50% to 80%. The reduction of soft changeover time, the period of “tweaking” following the out of service time required to install changeover parts, often offers the greatest opportunity for improvement. Our training and techniques allow clients to see equipment return to normal productivity immediately following the changeover.

For more information about how Charles Brooks Associates, Inc. can assist you with your changeover optimization call 800-868-3553 and schedule a **FREE consultation**. One of our experienced consultants will review your situation and help you identify your improvement opportunity.

**Contact Charles Brooks Associates, Inc. at 800-868-3663 or [clt@charlesbrooks.com](mailto:clt@charlesbrooks.com)**