

# MAXIMIZE YOUR MACHINES

Is your job shop best-in-class? Take this tour to see how your job shop ranks. You may become the next hero by showing your boss that your shop doesn't need to invest in an expensive new machine to be more productive.



## Average job shop

In the average job shops, machines require constant monitoring, engineers scramble to keep up with demand, and equipment is not fully utilized.

## Best-in-class job shop

Better CAM programming strategies and machining techniques will make your job shop more productive and run more smoothly.

### Preparation



- Faulty file translations
- Constant design changes from the customer resulting in manual program updates
- Lost productive machine time
- Work is sequential with a linear workflow



#### IMPROVED CAD FOR MANUFACTURE

- Work with any file format
- Agility in handling customer changes
- Model and program in the same environment
- Parts of workflow can be done in parallel

### Programming



- Manual programming resulting in longer programming time
- Adequate toolpath, but not fully optimized
- Must manually update programs with part changes



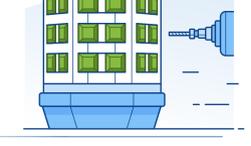
#### AUTOMATED PROGRAMMING

- Simulation of complex machining operations
- Automated toolpath selection
- Tool and tool-holder collision checking
- Automatic toolpath updates with design changes

### Setup



- Manual setups
- Inefficient fixturing or one part fixturing
- Uncertainty about best and most efficient machine to use for the job



#### OPTIMIZED SETUP

- Creative fixturing
- Ability to set up several projects at one time
- Know with certainty when to use the right machine & tool for the part

### Machining



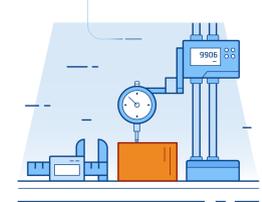
- Lower feed rates resulting in longer cycle and cutting times
- Not using cutting tool to full capacity
- Excessive air movements
- Leaving machines unattended is high risk



#### MAXIMIZE MACHINE CAPACITY

- Faster feed rates from constant engagement
- Maximized tool life
- Confidence in unattended machining
- Higher quality machining resulting in lower scrap rates

### Inspection



- Time-consuming manual inspection
- Post-machining finish work often required
- Lower finish quality due to compromises made in programming



#### CONSISTENT RESULTS

- On-machine probing to verify in-process operations
- Higher quality finish
- Shorter manual inspection time

## Reach your highest potential

With CAM, your machines will run at their highest capacity to save valuable time and money.



#### BOOST PRODUCTION

Increase machine capacity, throughput, and time running unattended



#### IMPROVE QUALITY

Deliver higher quality parts



#### SAVE TIME

Save time at each phase of the machining cycle, from preparation to inspection.



#### STAY COMPETITIVE

Learn cutting-edge technology to stay at the top of your game

Become a hero in your shop by getting the most out of the machines on your shop floor. With your machines running at full capacity, the management will thank you for:

- Increased return on capital investments
- Higher profits with faster production time
- Winning more business

