

STILL NOT CONVINCED?

Manufacturing companies that still rely on cam-operated machines are falling behind. While cam-operated machines are tried and true, it's time to catch up to modern technology and adopt cutting-edge solutions to increase profit margins, enhance quality, and streamline operations.

As an alternative to cam-operated machines, CNCs are better than ever before. While they were once seen as slower more costly options, technical advancements have turned CNCs into the best choice for manufacturing companies. With lower prices, CNCs aren't just more accessible; they also offer a great ROI for businesses seeking more bang for their buck.

It's time for precision turning parts manufacturers to get on board the CNC train before competition passes by and leaves your business behind.

Discover Why Top Machine Shops Choose Our CNC Machines



LICO CNC Screw Machines

Screw machine speeds with the quality and versatility only CNC can offer! LICO screw machines are built with dovetail and gib slides, using as many as 5 tools in the cut, while providing rigidity for heavy cuts and tight tolerances. These machines come standard with a complete set of turret and cross-slide tool holders, milling capability in each pocket, high-pressure coolant, parts catchers, and chip conveyors. LICO machines are priced relatively low compared to their counterparts and, in some cases, can cost as much as \$200K - \$300K less.



Nexturn Swiss CNC Lathes

Nexturn has been a trusted staple in the Swiss turning industry for nearly 25 years. They have every capability that other more well-known brands have to offer like "breaking-the-chip" technology, for less. Nexturn was the first Swiss lathe manufacturer in the world to offer 56mm bar cutting capacity. Currently, Nexturn is developing exclusive medical parts production robots that combine AI and ultra-precision IT manufacturing technology. Nexturn is the smart factory solution for all your Swiss production needs!



Quicktech Mill/Turn Machines

Quicktech platforms cover many unique configurations. Some of the advantages include enhanced chip-to-chip time using a gang slide, up to 24 X, Y, Z, & B live tools, OD, ID, & live tool groups for main and sub spindles providing for less interference. Multitasking configurations include 12,000 RPM twin spindles with X, Y, B, & Z axis tools and compact footprint designs at competitive prices.

Every CNC machine can be customized with hydrodynamic magazine bar feeders and loaders for increased efficiency.

Why Partner with Absolute?

The answer is simple. With over 30 years of proven results, we've served thousands of customers in their transition to safer more modernized CNC manufacturing equipment. As a team of former shop owners and highly skilled applications engineers ourselves, we have been in the trenches and understand the unique challenges presented on the factory floor.

We have the experience and expertise to support you every step of the way — from training solutions and safety protocols to operational strategies and maintenance recommendations. We've done the work so you don't have to worry about anything but your numbers!

"We began with LICO machines in 2008. Since then we have added 8 more LINTS machines. We used to run aerospace parts on 8-spindle Cones, drop blanks, then secondary parts to achieve critical quality concerns on CNC lathes. Spindle utilization was low, and the secondaries were manual operations. Now we run the parts complete on the LICO machines, with one person tending 3 machines, and we achieved 90% spindle utilization."

— Jared Wiltsie, Director of Quality & Engineering, Vanamatic Company, Delphos, OH

"On one project for a large customer, we customized a section of our shop, reduced labor content, and increased throughput by 200% to 300%. The new LICO machines are clean, safe, and more efficient than our Acmes."

— Randy Mueller, President, Global Precision Parts, Ottoville, OH

Making the switch to CNC machines equates to massive overall savings over the life of the machine, as well as a safer and more enjoyable environment for employees. Allow us to help you navigate the transition from cam-operated machines to CNC machines today!

What's Holding You Back?

Schedule a facility visit with AMT's team. Choose the right system for your needs and budget. Gain cost and time savings with a modern CNC machine from Absolute Machine Tools.

ABSOLUTE MACHINE TOOLS

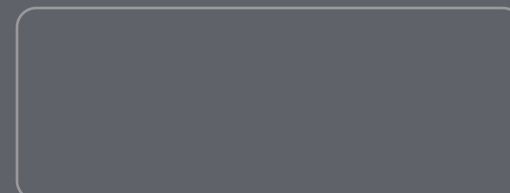


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REASONS

Manufacturers Switch from Cam to

CNC

Modernize production with automated CNC solutions to save money and improve operations.

ABSOLUTE MACHINE TOOLS

*<https://www.steelcase.com/research/articles/global-report-future-work/>

*<https://www.forbes.com/sites/alankohll/2019/01/24/how-your-office-space-impacts-employee-wellbeing/?sh=156a751164f3>



“We have been successful in running short, medium, and long-run jobs on the LICO platform. We have moved work from multi-spindle automatics and CNC screw machines to LICO machines. They enable us to solve labor issues and improve part quality and throughput. We are experimenting with lights out for even more savings.”

- Mike Naticchia, Process Engineer, Global Precision Parts, East Liberty, OH



quicktech

“The extensive mill-turn capabilities of the Quicktech S-32 ATM and our experience allows us to build highly complex prismatic parts for our customers, including difficult to machine materials, while maintaining a high degree of accuracy and part quality.”

— Kirt Johnston, MoManTech, Sheridan, MT



“The LICO equipment has proven effective at moving parts away from the New Britain multi-spindles. We moved work to the LICO platform and run parts in economical lot sizes (sell what you make) with superior quality and minimal human interface. We have been able to overcome quality issues with older machines and solve pinched labor resources because of the multiple overlapping slides.”

— Alex Martinson, Production Manager, Northland Screw Machine Products, St. Francis, MN



NEXTURN SWISS TURN LEADER

“We have had continued success since purchasing our first two Nexturn machines in 2004. Their versatility and reliability enabled us to grow our Swiss department to 13 machines operating 3 or more 40-hour shifts per week.”

— Randy Swan, Plant Manager, SBS Industries, Tulsa, OK

Every production turning manufacturer faces challenges in 5 categories:
Recruiting, Training, Operations, Maintenance, & Safety.

We'll show you how CNC machines can improve each of these areas in a traditional manufacturing company.

1 RECRUITING

Q: How can I find more employees for 1st shift, let alone 2nd and 3rd?

A: Rest easy because you don't have to! That's the beauty of CNC machines. Instead of searching for bodies to fill positions, you can invest in upskilling your current employees with CNC training. Since CNC machines are designed with built-in automation and can accommodate different types of parts, you only need one employee to tend multiple machines at a time.

Since CNC machines are built to be operational 24/7, simple-to-use automation features make them even more valuable when running lights out. Think about the savings that come with 24/7 lights-out production — what could that mean for your total overall payroll and workers' compensation premiums? A one-time investment in a new CNC machine will generate those savings and more for years to come.

Q: People today don't want to work in noisy and oily environments. How can I fill my current and future employment gaps?

A: While today's youth may not appreciate manual labor, they are focused on technology because they grew up with it in their pocket! They learn new tech much faster, which puts them in a unique position for the future of manufacturing.

Younger generations want to keep their hands clean, work in healthier environments, and minimize physical effort in their daily duties. While these attributes might not fit traditional manufacturing models, modern manufacturing relies on automation to operate more efficiently. Switching to CNC machines allows you to offer invaluable technical education, upskill your employees, attract and retain new talent, and advance their careers.

Studies have shown that employee retention rates are higher in companies that cultivate a healthy, happy, and safe environment for their workers*. While cam-operated machines require getting one's hands dirty, CNC machines are technology-driven, automation-ready, and environmentally-friendly — all positive and compelling values in today's workforce.

2 TRAINING

Q: How can I train younger workers to set up jobs on old cam-operated machines when it demands patience, an abundance of skills, and years of experience?

A: This one's easy: You don't. There aren't many companies left that offer cam machine training, unless you're relying on internal resources for in-house training. The typical setup time for a cam-operated machine ranges from a few hours to a few days.

On the other hand, a CNC machine can be set up in 1-3 hours, allowing for part production that very same day. Training employees to set up a robot or utilize automation will increase their value to the organization while improving their self-worth as team members. Fewer people with stronger production capabilities adds to your bottom line while also establishing a healthier and more engaged culture. Now that's a win-win!

Plus, Absolute Machine Tools can train your employees to set up jobs and operate a CNC machine for efficiency. It's always a relief to know someone has your back.

3 OPERATIONS

Q: How do I solve the problem of performing 2nd operations on part runs while still producing the highest quality parts possible?

A: CNC machines are proven to increase throughput and drop complete complex parts in one cycle with NO bench time required. The Done-in-One feature justifies minimally slower cycle times as it frees workers to perform more value-added tasks. Every manufacturer knows that there is always something else to do around the shop.

Q: I run my machines every day. How can my spindle utilization be any higher than it currently stands?

A: At Absolute Machine Tools, we can accurately compute real spindle utilization time using YOUR actual production numbers. Each shop is unique, so we request customers to supply us with their real-world numbers. We'll share our calculations and results so that you can make smart buying decisions. In most cases, we find that typical spindle utilization time on cam-operated machines is somewhere between 40% - 65%. Using those numbers as a baseline, we can improve uptime using our CNC machines as high as 90%, resulting in a quicker ROI. Contact us and share your data to receive a customized spindle utilization study.

Q: Can a fixed-headstock machine produce parts faster than a guide-bushing machine?

A: In a word, yes! Ultimately, the features on a part will determine which machine will process faster. Fixed-headstock machines can perform larger drilling, milling, and tapping because they are engineered for higher torque and thrust on the motors. Swiss machines excel on smaller diameter parts, thanks to faster chip-to-chip times, faster spindle acceleration, and higher spindle RPMs.

4 MAINTENANCE

Q: It's getting more difficult and expensive to find replacement parts for my Acme and New Britain screw machines. What will I do in 5 years when they are even harder to find and cost more?

A: Don't set yourself up for failure. In five years, you will wish you had invested your hard-earned money towards a new CNC machine. Save yourself the trouble of seeking out hard-to-find repair parts and paying a small fortune for unique replacement parts. One investment in a CNC machine now can save you time, money, and possibly your company's future!

Q: In 5 years, where will I find a reputable maintenance company to fix my cam-operated machines?

A: You're on your own. In 5 years, outside service companies will be even harder to find than they are now. If you do find one, they will charge a pretty penny for cam maintenance and repair services, since they require specialized knowledge. On the contrary, CNCs won't be phased out anytime soon. It will be far easier (and cost-effective) to find a CNC maintenance and repair company now and in the future.

Q: How can I reduce the amount of scrap produced from raw materials while running cam-operated machines?

A: CNC machines create streamlined operations by producing complete complex parts in one operation, allowing manufacturers to ship all finished parts that were made rather than tossing them in the scrap barrel. When compared to cam-operated machines, CNCs hold much tighter tolerances, ultimately reducing waste. Investing in a CNC machine is of great value to manufacturers that want to establish lean, streamlined processes in their company.

5 SAFETY

Q: Do you think OSHA will be easier or harder to work with in the future? Will a CNC machine help us pass our OSHA inspections?

A: The hard truth is that OSHA's health and safety regulations are only becoming stricter and more regularly enforced. At this point, manufacturing facilities with cam-operated machines likely will not pass an OSHA inspection. That's because the proper guarding and safety features are typically non-existent on older cam-operated machines.

Since COVID-19, there is an increased expectation for clean, healthy, and safe shop conditions. However, cam-operated machines require a lot of oil to operate, and eventually that oil will spill on the floor and create hazardous working conditions for employees.

All CNC machines can be equipped or retrofitted with air + oil filtration systems to improve indoor air quality as well as fire suppression systems for the health and safety of your employees on the shop floor. CNC machines offer the ability to easily implement and include such accessories as air + oil mist filtration units, fire suppression systems, full machine enclosures and door safety interlocks.

As the industry modernizes and begins to recognize the importance of these health and safety regulations, manufacturers are going to be forced to upgrade before penalties are imposed. Investing in a CNC machine now is a proactive way to get ahead of the curve and save yourself trouble in the future.