ABSOLUTE MACHINE TOOLS

Production Turning SOLUTIONS

LICO

NEXTURN
SWISS TURN LEADER

quick tech

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PMPA
PRECISION MACHINED PRODUCTS ASSOCIATION
MEMBER

Corporate Office - Lorain, Ohio

Technical Center - Mason, Ohio

Technical Center - Elgin, Illinois

Absolute Machine Tools has 4 technical centers located to serve our customers directly throughout Ohio, Indiana, Michigan, Illinois, Kentucky, West Virginia, Western Pennsylvania and Wisconsin.

We also support a network of dealers throughout North America with sales, product applications, and service.

Technical Center - Livonia, Michigan

For more than 30 years, Absolute Machine Tools has been a leading machine tool importer and distributor in North America. Times have changed and so have we. Not only do we provide high quality CNC machine tools, but also are proud to be a leading solutions provider for customers in the precision machined parts industry. How can we make this claim? First it begins with a culture of providing customers with the perfect machining solution. Absolute's Production Turning Team consists of highly knowledgeable and experienced sales and applications engineers whose number one focus is to pair your manufacturing challenges up with the right machine. Absolute offers 3 versatile CNC machine tool lines specifically engineered towards the production turning industry…

1 When the solution to your needs involves Swiss-style machines, Nexturn Swiss lathes answer the call. Nexturn machines include guide-bushing machines with maximum bar capacities from 12mm to 38mm diameter, exchangeable guide-bushing machines from 20mm to 38mm capacity, and non-guide-bushing machines with 20mm to 51mm bar capacity. Further, Nexturn provides turret-type non-guide-bushing sliding-headstock machines to process 45mm, 56mm and 67mm diameter bars. When you need sliding headstock capacities, Nexturn takes the lead!

2 Next, our LICO multi-axis multi-slide CNC screw machines combine up to four X-Z cross-slides with an eight position turret that work simultaneously to maximize metal removal. Overlapping up to five tools at a time, the LICO machines rival screw machine speed...with CNC quality and versatility. These machines include either turret-mounted or independent counter-spindles. LICO CNC's are available in spindle sizes from 36mm to 100mm. When cycle times are important, overlapping tools get the job done faster!

3 Our third solution is Quicktech multi-tasking multi-function CNC mill/turn centers. With up to 56 total tools and up to 24 B-Axis live tools, even the most challenging workpieces are dropped complete. The live tools work on independent slide ways, allowing simultaneous access to main and sub-spindles. All of these processes combined in one complete cycle result in faster part-making, higher accuracies (no re-chucking), and less set-up times, which truly adds to your company's profitability. Quicktech machines are available as either bar or chucking machines with robot loading.

The way we maximize profitability in the precision production turning industry is to match the right part to the right machine. This means analyzing part complexity, materials, tolerances, lot sizes, and selecting the best machine to match those characteristics. Absolute Machine Tools has hundreds of years of combined experience doing just that. We have experts who have lived the production turning life in every capacity from part deburring to owning their own screw machine houses. Let our experienced team help you find the right solution.

Absolute has production turning lines ranging from simple CNC gang-style lathes to multi-slide, multi-axis turning machines that rival screw machine speed. Whether your application requires sliding headstock solutions or fixed headstock, we have the machines and expertise to help you make the right choices.

NEXTURN
SWISS TURN LEADER

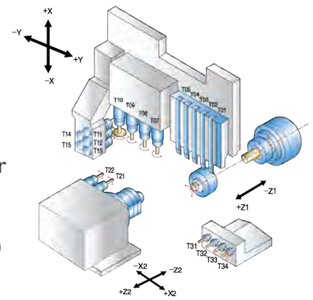
Nexturn Swiss Lathes are engineered to maximize accuracy and economy in the production machining of precision parts. Nexturn Swiss CNC lathes include basic guide-bushing-equipped machines with maximum bar capacities from 12mm to 38mm diameter, exchangeable guide-bushing machines from 20mm to 38mm capacity, and non-guide-bushing machines with 20mm to 51mm bar capacity. In addition, Nexturn provides turret-type non-guide-bushing sliding-headstock machines to process 45mm, 56mm and 67mm diameter bars. Six different lathe series are designed to meet specific production and economic requirements:

- B Series: 7-Axis economical model with 22 tools in 12, 20, 32mm
- PII Series: 7-Axis premium model with 22 tools in 20, 26, 32, 38mm
- PYII Series: 8-Axis exchangeable guide-bushing model with 26 tools in 20, 26, 32, 38mm
- XII Series: 9-Axis complex machining with opt. B-Axis in 20, 26, 32, 45, 51mm
- XIII Series: 11-Axis, 3 channel complex opposing gang-tooling system with 29 tools in 32, 38, 45mm
- NST Series: 11-Axis, 3 channel turret equipped, 39 tools in 45, 56, 67mm bar diameters

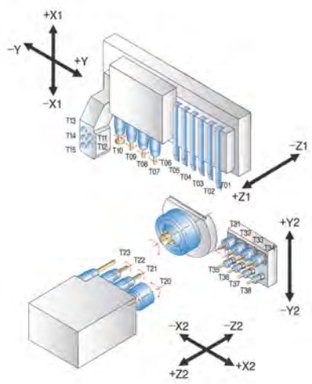
Nexturn Co., Ltd. is located in South Korea and has provided quality machine tools to Asia, Europe and the Americas since 2005. Nexturn occupies a modern facility with a capacity of building 50 machines per month. Nexturn has been listed on the KOSDAQ (Korean stock market) since 2006.

Nexturn SA(B) Job Shop 7-Axis Swiss Turning Center Series

Nexturn SA(B) Series Swiss turning centers represent a cost efficient and productive 7-Axis machine for precision complex parts. Three models feature synchronous guide-bushings, 7-Axes and as many as 22 tools to handle maximum bar diameters of 12/20/32mm. Maximum turning lengths are 6.3" on the 12mm machine and 8" on the 20mm and 32mm models. Built-in main spindle motor ranges from 3HP – 10HP and maximum RPM capacity up to 10,000 RPM, while sub-spindles offer 1.5HP – 3HP and up to at 10,000 RPM. Both spindles have full C-Axis with .001° positioning. Powerful live tools, operating at 1.3HP and 6,000 RPM, allow for complex milling operations. Excellent rigidity results from the use of FEA technology in the one-piece bed casting design.

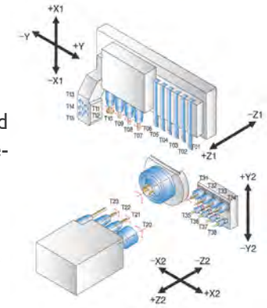


Nexturn SA(PII) 7-Axis Swiss Turning Center Series



The SA(PII) Series is our mid-level machine available with or without rotary synchronous guide-bushing. It features a total of 7-Axes (Z1, X1, Y, Z2, X2, C1, and C2) and up to 23 total tools. Bar capacity is 20/26/32/38mm with 250mm (9.8") maximum turning length in one chucking. High precision integral motor spindles on both main and sub provide excellent precision and fast cycle times. The machine is built for rigidity, accuracy, reliability and ease of use. The highly rigid one-piece cast iron machine bed is designed using FEA software. Powerful motors for both turning and milling deliver outstanding machining capability. The use of ultra-precision pre-tensioned ballscrews and LM guides produce high accuracy. High speed positioning of 1260"/minute reduces cycle times. A sliding operator door, as opposed to a lift-up style door, provides easy access to the machining area and is drip free.

Nexturn SA(PYII) 8-Axis Swiss Turning Center Series

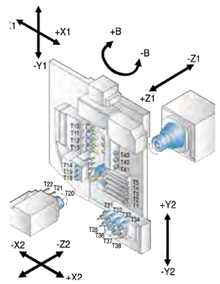


The Nexturn SA(PYII) Series Swiss turning centers are our high-level machines featuring an exchangeable guide-bushing, allowing users to run with or without the guide-bushing depending on work length. Removing the guide-bushing for short parts keeps remnant length to a minimum with a maximum turn length of 60mm and allows the use of non-ground bar stock. The guide-bushing, for longer parts utilizing ground bar stock allows maximum turning length up to 210mm.

The SA(PYII) features a total of 8-Axes (Z1, X1, Y1, Z2, X2, Y2, C1, and C2) and up to 27 total tools. Bar capacity is 20/26/32/38mm. High precision integral motor spindles on both main and sub provide excellent precision and fast cycle times. The machine is built for rigidity, accuracy, reliability, and ease of use. The highly rigid one-piece cast iron machine bed is designed using FEA software. Powerful motors for both turning and milling deliver outstanding machining capability. The use of ultra-precision pre-tensioned ballscrews and LM guides produce high accuracy. High speed positioning of 1260"/minute reduces cycle times. A sliding operator door, as opposed to a lift-up style door, provides easy access to the machining area and is drip free.

Nexturn SA(XII) 9-Axis Swiss Turning Center Series with Opt. B-Axis

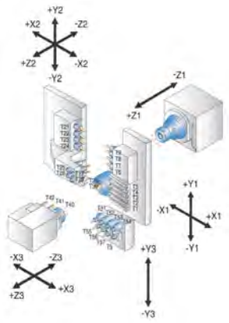
The SA(XII) Series of Nexturn Swiss turning centers consists of 5 models with or without rotary synchronous guide-bushings. An optional continuous swiveling 135° B-Axis permits variable angle machining up to 10 front and 8 back-side live tools. Use of guide-bushings permits turning of longer parts, while machines without guide-bushings are ideal for processing short parts and cold drawn material. The machines feature up to 8-Axes and up to 29 total tools, increasing to 9-Axes with the B-Axis. Maximum bar diameter capacity of the main and sub-spindles is 20mm – 51mm, depending on machine size. Maximum turning lengths are 120mm – 270mm.



Main spindles and sub-spindles provide as much as 20HP (15kW) at speeds as high as 8,000 RPM while offering full C-Axis capability.

The synchronous sub-spindle permits simultaneous front and backworking. Live tools provide 1.3HP (1 kW) – 3HP (2.2 kW) and 6,000 RPM. Rigid tapping is standard. Excellent rigidity results from the use of FEA technology in machine structure design. The machines maximize ease of use with ergonomically arranged controls and fully opening covers and doors.

Nexturn SA(XIII) 3 Channel Swiss Turning Centers with 3 Y-Axes



The SA(XIII) Series of Nexturn Swiss turning centers includes three models with or without rotary synchronous guide-bushings. The XIII series is equipped with an opposing gang-tooling system holding a maximum of 14 live tools for high productivity when machining complex parts. The opposed slides allows balanced or pinch turning. Use of guide-bushings permits turning of longer parts, while machines without guide-bushings are ideal for processing short parts and cold drawn material. The machines feature up to 11-Axes and up to 29 total tools. Maximum bar diameter capacity of the main and sub-spindles is 32mm – 45mm, depending on machine size. Maximum turning lengths are 120mm – 270mm. Main spindles and sub-spindles provide as much as 20HP (15kW) at speeds as high as 8,000 RPM while offering full C-Axis capability. The synchronous sub-spindle permits simultaneous front and backworking. Live tools provide 1.3HP (1 kW) and 6,000 RPM. Rigid tapping is standard. Excellent rigidity results from the use of FEA technology in machine structure design.
The slant-bed Nexturn machines maximize ease of use with ergonomically arranged controls and fully opening covers and doors.

LICO Machinery began manufacturing cam-operated, multi-slide screw machines in 1978. They introduced their CNC products in the United States in 1990 by opening a manufacturing operation in Texas, where they produced specialty parts for the U.S. automotive industry. In 1996, LICO introduced the LNTS series CNC screw machines. These machines are equipped with 3 or 4 multi-axis slides and an 8-position turret allowing for overlapping of up to 5 tools simultaneously.

The LNTS series features a turret-mounted sub-spindle, gang tool backworking platform, and live tool turret. A backworking turret is optional. The LNTS series offers exceptional productivity for parts under 7" in length and diameters 2.5" and under.

In 2014, LICO introduced the LNDD mill/turn center series with an independent counter-spindle, multi-axis cross-slides, and a turret capable of live tools and Y-Axis work. The LNDD series is capable of dropping very complex parts complete. These machines handle parts up to 17" in length and are available in bar capacity to 4".

LNTS CNC Screw Machines are reinforced with internal ribs for maximum rigidity. The turret slide linear ways are extra wide to increase stability and accuracy. The gang tool back-machining platform is standard on all LNTS machines, with an optional static 8-position turret available for more extensive backworking projects.

These 11-Axis CNC machines compete with the speed of cam-operated screw machines but with greater accuracy and better finishes. Plus they can drop complex parts complete.

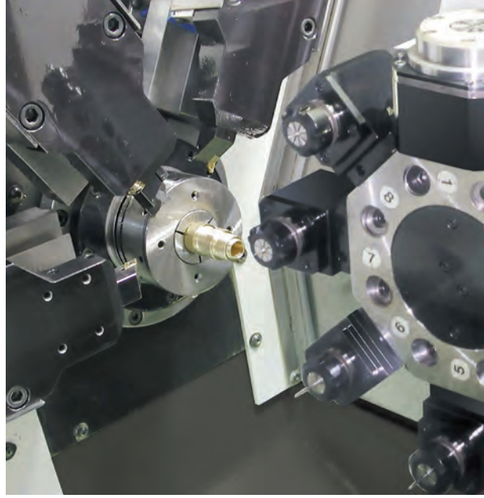
up to **5 Tools** in the cut simultaneously

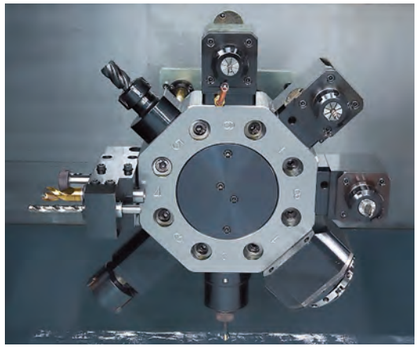
LNT 42S-S4
with backworking turret

You don't need to sacrifice screw machine speed to get CNC accuracy, finish, or versatility. LICO LNTS CNC Screw Machines deliver up to 5 tools in the cut simultaneously for maximum metal removal rates.

Driven tools can be inserted in any turret position using VDI-30 tooling.

Standard features include a turret-mounted sub-spindle, tool holders for each slide, and a programmable part conveyor. A gang-style back platform is standard, and a modular 8-position turret is optional. Control options include Mitsubishi M830, FANUC F31i, and Siemens 840D.





LICO LNTS CNC Screw Machines feature up to five channels capable of simultaneous cutting.

The Turret Z-Axis uses a ball screw and linear ways that are mounted to the bed casting.

The Turret X-Axis uses a massive round bar shaft design driven by a ball screw. Each of the 8 turret positions is capable of using driven live tools.

The turret-mounted sub-spindle is standard on all LNTS models.

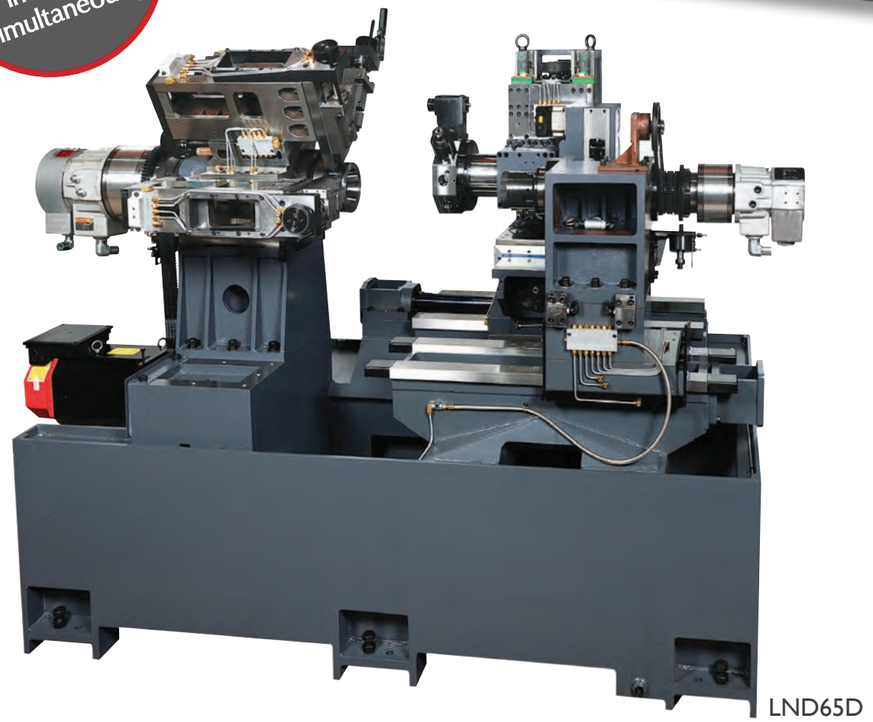
Four, 2-Axis cross-slides with heavy-duty, dovetail & gib design are arrayed around the main spindle. This makes single pointing or form tools a viable option, depending on lot size and finish.

power of parallel®

Both the LNTS and LNDD models feature independent cross-slides that overlap with the turret slide, enabling up to 5 tools in the cut at once. **Parallel** machining is how LICO combines speed with CNC quality and versatility. These machines are an outstanding marriage of screw machine speed and CNC technology.

The **LICO LNDD Series** are extremely productive twin-spindle multi-slide mill/turn centers. LNDD machines feature overlapping slides for maximized productivity and excellent size control. These machines are offered in 4 spindle sizes: 42mm, 65mm, 80mm, and 100mm. The base machines are delivered with two 2-Axis cross-slides around the main spindle, an 8-position 2-Axis VDI-30 turret that is double-tooled for working both main and counter-spindles, and a fully independent counter-spindle. Outfitted with live tooling on the turret (up to 16 live tools) this machine changes from turning center to a machine that can handle cross drilling, tapping, slotting, and basic milling. An optional Y-Axis can be added to turn the machine into a twin-spindle turning and milling center (both spindles C-Axis capable) with the capability of overlapping 4 tools at once (2 cross-slides and 2 turret tools). By adding the third optional cross slide you extend your overlapping ability to get 5 tools in the cut.

up to 5 Tools in the cut simultaneously



LND65D

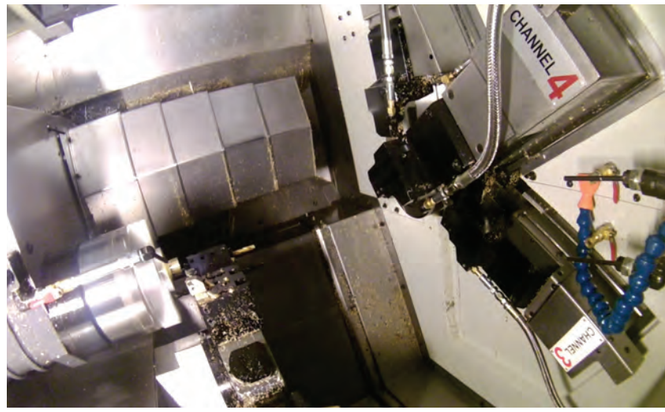
LICO LNDD Mill/Turn Centers utilize a standard 8-position turret with optional live tooling and Y-Axis. Axial Z-Axis tools can work on both spindles simultaneously via superimposed sub-spindle function.

Each station on the turret can be double tooled on both the X and Z-Axes as well as overlapped with 2 or 3 cross-slides.

The optional live tooling turret drive enables the use of up to 4 live tools at each position. The optional Y-Axis provides over 4" of travel. Turret live tools use 5.0HP motors or 7.4HP motors on Siemens' models.

With a sub-spindle that can superimpose with the main spindle, getting 3 and 4 tools in the cut is common for most parts. **Parallel** machining is the path to productivity and only LICO can put up to 5 tools in the cut at once.

power of parallel®



Multi-Axis Multi-Spindle Mill/Turn Centers Quicktech Machinery, a division of Tongtai, former Hitachi Seiki OEM, has been manufacturing high precision, high production CNC mill/turn centers for more than 20 years. The Quicktech line places an emphasis on technology, performance, rigidity, compact design, and the ability to manufacture complex parts with reduced cycle times, all combined in a cost-effective package. Quicktech multi-axis multi-spindle CNC mill/turn centers allow manufacturers to produce complex workpieces in one complete cycle. These lathes can turn a workpiece and apply rotating tooling operations, such as milling and cross-drilling, with higher accuracies (no re-chucking), and reduced set-up time.

Quicktech i-42 & i-60 Ultimate 10-Axis Twin-Spindle Mill/Turn Centers with Dual B-Axes

The Quicktech i-42 and i-60 Ultimate bar processing machines provide complete part machining including complex milling functions. The compact, high precision, high production CNC mill/turn centers are available in both 42mm (1.65") and 60mm (2.36") bar capacities, the i-42/i-60 features 10-Axes, 2 turning spindles, 2 milling spindles, 2 B-Axes, and a total capacity of 49 tools (56 opt.). A 4-Axis (X,Y,Z,B) gang-type vertical tool post serves each C-Axis spindle. The main spindle has a 15HP high torque motor and the sub-spindle is equipped with a 7.5HP high torque integral motor for backworking. Both spindles feature a full continuous C-Axis and are synchronized for fast, accurate part transfer. A 4-Axis gang-tooling system consisting of linear X,Y, and Z-Axes plus a rotary B-Axis serves each spindle. The main tool post features 6 O.D. turning tools, 5 I.D. turning tools, and 12 live tools. The sub-tool post features 5 O.D. turning tools, 9 I.D. turning tools, and 12 live tools. The live tools are powered by a 2HP spindle motor and are mounted in a continuous 360° B-Axis. Each tool post has a Y-Axis for off-center milling operations. Gang tooling provides near zero tool change times.

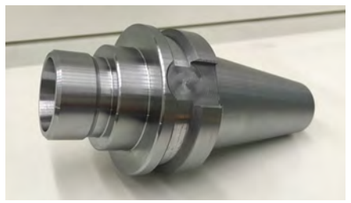
Quicktech i-42 & i-60 ROBO 4-Axis Mill/Turn Centers with Integrated 6-Axis Robot & Opt. B-Axis

The Quicktech i-42 ROBO and i-60 ROBO are unique chuckers, built like the Ultimate, and are equipped with an integrated self-contained Mitsubishi S Series 6-Axis high speed Robot. This series is a compact, high precision, high production CNC mill/turn center equipped with an integrated Mitsubishi 6-Axis robot for automatic parts loading / unloading. The i-42/60 ROBO also provides complex milling functions with the standard C-Axis spindle and Y-Axis for off-center milling with the standard live tools. An optional 360° B-Axis is available. The ROBO features 4-Axes (5 opt.), 1 turning spindle, 1 milling spindle, and a total capacity of 17 tools (23 tools with B-Axis). A 3-Axis (X,Y,Z) gang-type vertical tool post serves the spindle. The tool post features 6 O.D. turning tools, 5 I.D. turning tools, 3 radial live tool heads and 3 axial live tool heads. The live heads are powered by a 2HP spindle motor. Rigid tapping is standard. The tool post has a Y-Axis for off-center milling operations. Tool change time is near ZERO. The Mitsubishi S series Robot can load, unload, and turn over parts weighing up to 13lbs. automatically and is positioned so as to not hinder the machine operator during set-up or operation of the machine.

Quicktech i-42 & i-60 Twin 7-Axis Twin-Spindle Mill/Turn Centers w/B-Axis

The Quicktech i-42 and i-60 Twin are compact, high precision, high production, twin-spindle CNC mill/turn centers. Available in both 42mm and 60mm bar capacities, this unique bar processing center provides complete part machining including all complex milling functions. These machines feature 7-Axes, 2 turning spindles, 1 milling spindle, 1 B-Axis, and a total capacity of 30 tools. A 4-Axis (X,Y,Z,B) gang-type vertical tool post is shared between each C-Axis spindle.

The main spindle is equipped with a 15HP high torque spindle motor and the sub-spindle has a 7.5HP high torque integral spindle motor for backworking. The main spindle has a 42mm bar capacity (60mm for i-60) and the sub-spindle has 30mm bar capacity. Both spindles feature a full continuous C-Axis with braking system and are both standard with 42mm DIN-173E-42B collet chucks (60mm DIN-185E-60B for i-60). The main and sub-spindle are synchronized for fast and accurate part transfer. A unique single 4-Axis gang-tooling system consisting of linear X,Y, and Z-Axes plus a rotary B-Axis serves both spindles. The tool post features 9 O.D. turning tools, 9 I.D. turning tools, and 12 live tools. The live tools are mounted in a continuous 360° B-Axis. The live tools are powered by a 2HP spindle motor. Rigid tapping is standard. The tool post has a Y-Axis for off-center milling operations. Tool change time is near ZERO.



Quicktech T8 HYBRID 9-Axis Twin-Spindle Mill/Turn Centers with Turret & B-Axis

The Quicktech T8 HYBRID mill/turn center combines powerful main spindle turning utilizing a 3-Axis BMT-55 power turret with a sub-spindle featuring a 4-Axis gang slide, including a 360° B-Axis. With a 65mm bar capacity, this unique bar processing center provides complete part machining including all complex milling functions. The T8 HYBRID features 9 total axes, 2 turning spindles, 2 live milling spindles, a B-Axis, and a minimum capacity of 38 tools. The main spindle features a 15HP high torque spindle motor and the sub-spindle a 7.5HP high torque integral spindle motor for backworking. The main spindle has a 8" chuck with 65mm bar capacity (60mm with collet chuck) and the sub-spindle has 32mm bar capacity. Both spindles feature a full continuous C-Axis with braking system. The main spindle is standard with either the 8" 3-jaw chuck or 60mm DIN-185E-60B collet chuck. The sub-spindle is standard with either a 6" 3-jaw chuck or the 42mm DIN-173E-42B collet chuck. The main and sub-spindle are synchronized for fast and accurate part transfer. Both spindles employ P4 high precision bearings for stability and heavy cutting ability. The main spindle features a rigid 12 station BMT-55 live turret with 5HP spindle motor and 80mm of true linear Y-Axis travel. The turret features fast servo motor index and rigid hydraulic clamping. All 12 stations can be live. The sub-spindle features a unique 4-Axis gang-tooling system consisting of linear X,Y, and Z-Axes plus a rotary 360° B-Axis. The sub-tool post features 5 O.D. turning tools, 9 I.D. turning tools, and 12 live tools. The live tools are mounted in a continuous 360° B-Axis. The live tools are powered by a 2HP spindle motor. Rigid tapping is standard in both the turret and the B-Axis.

Quicktech S-32 ATM Compact 9-Axis Twin-Spindle Mill/Turn Center with B-Axis & ATC

The Quicktech S-32 ATM mill/turn center is perfect for small complex parts. It's smart design combines integral motor main and sub-spindles for turning with a B-Axis milling head and ATC. Utilizing a unique 3-Axis movement of the sub-spindle, machine physical size is minimized by the sub-spindle's ability to move in the X-Axis above and below centerline…completely out of the way of the B-Axis milling spindle. With a 30mm bar capacity, this unique bar processing center provides complete part machining including all complex milling functions. The S-32 ATM features 9 total axes, 2 turning spindles, a B-Axis milling spindle with 24 tool (36 opt.) auto tool changer, and 6 fixed sub-spindle turning tools for a total capacity of 30 tools. The main spindle sports a 5HP high torque integral motor. The sub-spindle is equipped with a 5HP high torque integral spindle motor for backworking. The main and sub-spindles have 42mm collet chucks (or 5" 3-jaw hydraulic chucks) with 30mm bar capacities. Both 6,000 RPM spindles feature a full continuous C-Axis with braking system. The main and sub-spindle are synchronized for fast and accurate part transfer. A B-Axis milling spindle serves both spindles. The B-Axis integral spindle motor delivers 3HP and 12,000 RPM. Utilizing a 24 tool arm type tool changer and HSK-40T tooling system, the spindle is locked in position by coupling for rigid turning operations. Tool change time tool-to-tool is only 3 seconds. The B-Axis has a working range of 190° (+/- 95 °s from vertical). Six gang-type fixed turning tools are standard for the sub-spindle, allowing simultaneous machining operations.

Quicktech i-42 & i-60 Eco 4-Axis/5-Axis Mill/Turn Centers w/opt. Tailstock

The Quicktech i-42 and i-60 Eco are economical, compact, 4/5-Axis CNC mill/turn centers. Available in both 42mm and 60mm bar capacities, this unique bar processing center provides complete single operation part machining including all complex milling functions. The i-42/i-60 Eco features 4-Axes (5-Axis with opt. B-Axis), 1 turning spindle, optional tailstock, and a total capacity of 17 tools (23 tools with B-Axis). A unique single 4-Axis gang-tooling system consisting of linear X, Y, and Z-Axes plus an optional rotary B-Axis serves the main spindle. The tool post features 6 O.D. turning tools, 5 I.D. turning tools, and 6 live tools (12 with B-Axis). The fixed live tools are 3 axial and 3 radial but can also be mounted in a continuous 360° B-Axis allowing 12 tools. The live tools are powered by a 2HP spindle motor. Rigid tapping is standard. The tool post has a Y-Axis for off-center milling operations. Tool change time is near ZERO. An optional servo driven programmable tailstock is available.

Quicktech T6 Compact 2-Axis & T6 Mill 3-Axis Turning Centers w/Tailstock

The Quicktech T6 COMPACT and T6 MILL combine a powerful 15HP 1.65" bar capacity main spindle with a tailstock for economical turning or mill/turn applications. These high production CNC turning centers are cast from Meehanite iron. With a 42mm bar capacity, this unique turning center provides fast and accurate turning functions with optional milling functions. The T6 MILL features a full continuous C-Axis with braking system. The main spindle is standard with a 6" 3-jaw hydraulic chuck. The machine features a rigid 12 station BMT-55 servo turret (BMT-55 live turret with 5HP spindle motor for T6 MILL). Both turrets feature fast servo motor index and rigid hydraulic clamping. On the T6 MILL with BMT turret, all 12 stations can be live. Rigid tapping is standard in the BMT live turret. The bed is a one-piece 45° slant bed. The T6 uses large, 35mm Hiwin roller type linear guideways in all linear axes. The large 32mm ballscrews are double anchored, pre-tensioned and direct coupled to the servo motors thus promoting precision. Standard equipment includes parts catcher, parts conveyor, 75 PSI coolant pump, chip conveyor, tailstock with programmable quill, and bar feeder interface.

Quicktech T8 Compact 2-Axis & T8 Mill 3-Axis Turning Centers w/Tailstock

The Quicktech T8 COMPACT and T8 MILL combine a powerful 20HP 2.5" bar capacity main spindle with a tailstock for economical turning or mill/turn applications. These high production CNC turning centers are cast from Meehanite iron and weighs an impressive 12,540 lbs! With a 65mm bar capacity, this unique turning center provides fast and accurate turning functions with optional milling functions. The machine features a rigid 12 station BMT-55 servo turret (BMT-55 live turret with 5HP spindle motor for T8 MILL). Both turrets feature fast servo motor index and rigid hydraulic clamping. On the T8 MILL with BMT turret, all 12 stations can be live. Rigid tapping is standard in the BMT live turret. The bed is a one-piece 75° slant bed. The T8 uses large, 35mm Hiwin roller type linear guideways in all linear axes. The large 32mm ballscrews are double anchored, pre-tensioned and direct coupled to the servo motors thus promoting precision. Standard features include parts catcher, parts conveyor, 75 PSI coolant pump, chip conveyor, tailstock with programmable quill, and bar feeder interface.

Quicktech T8 Twin Y 6-Axis Twin-Spindle Mill/Turn Center with Turret

The Quicktech T8 Twin Y is the 6-Axis version of the T8 Mill. In addition to the BMT-55 live turret, the Twin Y features a true linear Y-Axis with 80mm of Y travel and a full 7.5HP synchronous sub-spindle featuring a 6" chuck and a full C-Axis. Drop complex parts complete with the low cost of the Quicktech T8 Twin Y mill/turn center.

No production turning machine is complete without a loader to process bars through the machine. Absolute, through CNC Indexing & Feeding Technologies, offers a full complement of bar processing equipment for both fixed and sliding headstock machines. We supply short loaders and bar feeders up to 4" capacity and all are equipped with a patented TRACER LED light display system to visually track where the bars are at a glance.

Hydrodynamic Bar Feeders

CNC Indexing offers the TRACER 6' & 12' magazine hydrodynamic bar feeders from 13mm to 110mm diameter. These bar feeders can be used with collets for remnant retraction or as pusher feeds. Equipped with Mitsubishi PLC and servo drives, these bar feeders offer exceptional value. Change out channels guides for various bar sizes, adjust the V-style anti-vibration device, change out your bar feed collet, and you are ready for the next job. All TRACER bar feeders come with a patented LED light display system which provides for easy identification of where the end of the bar is at all times. A simple customized control display and hand-held remote keep you in total control of your bar feeder.

Short Bar Loaders

Short loaders are available in air-feed models or servo-feed models. The air-feed models require feeding to a stop on the machine. The servo-feed models can feed to a predetermined distance without a stop. These loaders do not use channel guides and push the bars forward with a quick change pusher. Spindle liners are required. There is a simple V-channel adjustment for bar size changes. The TRACER short loaders feature a rail-retract system to make changing spindle liners a snap. A simple water/oil resistent hand-held remote makes controlling your loader easy to understand and operate.

NEXTURN SWISS TURN LEADER	SA(B)	SA(PII)	SA(XII)	SA(XIII)
# of Axes/Channels	7 / 2	7 / 2	8 (9 opt.) / 2	11 / 3
Max. Bar Capacity (mm)	12 (SA-12B) 20 (SA-20B) 32 (SA-32B)	20 (SA-20PII) 26 (SA-26PII) 32 (SA-32PII) 38 (SA-38PII)	20 (SA-20XII) 26 (SA-26XII) 32 (SA-32XII) 45 (SA-45XII) 51 (SA-51XII)	32 (SA-32XIII) 38 (SA-38XIII) 45 (SA-45XIII)
Main Spindle HP/RPM	3 / 10,000 (SA-12B) 5 / 8,000 (SA-20B) 10 / 8,000 (SA-32B)	5 / 10,000 (SA-20PII) 10 / 8,000 (SA-26PII, SA-32PII, SA-38PII)	5 / 8,000 (SA-20XII) 10 / 8,000 (SA-26XII, SA-32XII) 20 / 6,000 (SA-45XII) 17.5 / 6,000 (SA-51XII)	10 / 8,000 (SA-32XIII, SA-38XIII) 20 / 6,000 (SA-45XIII)
Sub-Spindle HP/RPM	1.5 / 10,000 (SA-12B) 3 / 8,000 (SA-20B & SA-32B)	3 / 8,000 (SA-20PII) 5 / 8,000 (SA-26PII, SA-32PII, SA-38PII)	3 / 8,000 (SA-20XII, SA-26XII, SA-32XII) 7.5 / 6,000 (SA-45XII) 20 / 6,000 (SA-51XII)	3 / 8,000 (SA-32XIII, SA-38XIII) 7.5 / 6,000 (SA-45XIII)
Total Tools (Live/Fixed)	18 (6/12) (SA-12B) 22 (8/14) (SA-20B) 20 (8/12) (SA-32B)	23 (8/15) (SA-20PII) 20 (6/14) (SA-26PII, SA32PII) 19 (6/13) (SA-38PII)	29 (14/15) (SA-20XII, SA-26XII, SA-32XII) 31 (14/17) (SA-45XII) 29 (13/16) (SA-51XII)	29 (12/17) (SA-32XIII, SA-38XIII) 24 (11/13) (SA-45XIII)
B-Axis	-	-	0 - 135° (N/A on 45XII & 51XII)	-
CNC Control	Fanuc / Siemens	Fanuc / Siemens	Fanuc / Siemens	Fanuc / Siemens

LICO	LNDD
# of Axes/Channels	11 / 4
Max. Bar Capacity (mm)	42 (LND-42D) 65 (LND-65D) 80 (LND-80D) 100 (LND-100D)
Main Spindle HP/RPM	20 / 5,000 (LND-42D) 27 / 4,000 (LND-65D) 27 / 3,000 (LND-80D) 27 / 2,500 (LND-100D)
Sub-Spindle HP/RPM	9.4 (7kW) / 5,000 13.4 (10kW) / 5,000
Total Tools (Live/Fixed)	19 minimum (8/11)
B-Axis	-
CNC Control	Mitsubishi / Siemens / Fanuc

LICO	LNTS
# of Axes/Channels	11 / 5
Max. Bar Capacity (mm)	36 (LNT-36S) 42 (LNT-42S) 51 (LNT-51S) 65 (LNT-65S)
Main Spindle HP/RPM	20 / 6,000 (LNT-36S) 20 / 5,000 (LNT-42S) 27 / 4,500 (LNT-51S) 27 / 4,000 (LNT-65S)
Sub-Spindle HP/RPM	5 / 3,000
Total Tools (Live/Fixed)	20 minimum (8/12)
B-Axis	-
CNC Control	Mitsubishi / Siemens / Fanuc

quick tech	i-42 / i-60 Ultimate	i-42 / i-60 Robo	i-42 / i-60 Twin	T8 Hybrid	S-32 ATM	i-42 / i-60 Eco	T6 Compact/Mill	T8 Compact/Mill	T8 Twin Y
# of Axes/Channels	10 / 2	4 (5 opt.) / 1	7 / 1	9 / 2	9 / 2	4 (5 opt.) / 1	2 or 3 / 1	2 or 3 / 1	6 / 1
Max. Bar Capacity (in)	1.65" / 2.36"	1.65" / 2.36"	1.65" / 2.36"	2.56"	1.18"	1.65" / 2.36"	1.65"	2.56"	2.56"
Main Spindle HP/RPM	15 / 6,000 (i-42) 4,000 (i-60)	15 / 6,000 (i-42) 4,000 (i-60)	15 / 6,000 (i-42) 4,000 (i-60)	20 / 4,000	5 / 6,000	15 / 6,000 (i-42) 4,000 (i-60)	15 / 6,000	20 / 4,000	20 / 4,000
Sub-Spindle HP/RPM	7.5 / 6,000	-	7.5 / 6,000	7.5 / 4,000	5 / 6,000	7.5 / 6,000	-	-	7.5 / 4,000
Total Tools (Live/Fixed)	56 (24/32)	23 (12/11)	30 (12/18)	38 (24/14)	42 (36 ATC/6)	17 (6/11) (23 w/B-Axis)	12	12	12
B-Axis	360° x 2	360°	360°	360°	190°	Opt.	-	-	-
CNC Control	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc	Mitsubishi / Fanuc