Horizontal Machining Centers

**MCH R Series:** Designed for Ultra Heavy Duty Cutting with Large Box Ways and High Torque Spindles for Titanium and other Exotic Materials.

**HMC Series:** Is OKK’s fastest series to date. Reaching 1G in acceleration without sacrificing rigidity with the largest cross linear roller guides in class with big plus 40 taper spindles.

**HM Series:** Come in a large range of sizes with big plus 50 taper spindles and feature large cross roller guides.

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**OKK HM6000S**
- **Pallet Size:** 630mm
- **Spindle:** 12,000 RPM / 54HP / 50 Taper
- **X/Y/Z:** 31 x 29 x 34”
- **Rapid Transverse Rate:** XZ – 2953 ipm / Y – 2362 ipm

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Vertical Machining Centers

**VM R Series:** Designed for ultra heavy duty cutting with large box ways. High Torque and High Horsepower spindles for either Titanium and other exotic materials or mold work depending on the RPM of your choosing.

**VP Series:** Is OKK’s fastest series using a bridge style structure increasing rigidity combined with the largest cross linear roller guides in class. Big Plus 40 taper spindles and the option to add direct drive pallet changer making it the most versatile machining centers in class.

**VB Series:** Intended for Mold work. Comes standard with 20,000RPM Big Plus 40 Taper Spindle, Fine Pitched Core Chilled Double Anchored Ball Screws, Glass Scales, and 20% Larger Linear Cross Roller Guides than class competitors.

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**OKK VM76R**
- **X/Y/Z:** 60 x 29.9 x 25.9”
- **Spindle:** 12,000 Geared Head / 40 HP / 50 Taper
- **Torque:** 309 ft/lbs.
- **Table Size:** 61 x 29.9”

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5 Axis Series

**HMX Series:** A High Power 50 Taper with Dual Anchored Core Chilled Ball Screws and Linear Cross Roller Guides Built for and Proven in Titanium, and Materials that demands Box Ways from our competitors.

**VCX Series:** Vertical Bridge Type Machining Center with Big Plus 40 Taper Chilled Spindles with High Horsepower and Large Cross Roller Guide Ways.

**VMX R Series:** Box Way Vertical Machining Center with a Tilting Head that Carries the Highest in Customer Satisfaction Rating

**KCV-5AX Series:** Tilting Head Vertical Designed for Long Aerospace/Oilfield Parts but performs so well its been adopted by many companies in the Automotive Industry for some of the truck/Semi Axle parts

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**OKK HM-X8000**
- **Tilting Head 5 Axis HMC**
- **Pallet Size:** 800mm x 800mm
- **Spindle:** 12,000 RPM/Big Plus 50 Taper
- **Spindle Motor:** 40HP
SMEC – Samsung Machine Tools Engineering Company

History of SMEC
1988: Started as Machine Tools Division of Samsung Heavy Industries
1989: HMC and VMC Partnership with OKK
1991: Turning Center and VMC technology Partnership with Mori Seiki
1995: Transferred to Samsung Aerospace Industries
1996: 5-Sided Processing Center Technology partnership with Toshiba
1999: Established SMEC CO, Ltd
2008: Developed Y-Axis Complex Turning Center Series
2011: Merger with NewGrid, Inc. (Managed Both Machine and Telecom Divisions) and Developed Multi-Axis/Multi Tasking Machine (iMT420ST)
2012: Developed 5 Axis Machine (FTV 630)
2018: SMEC America Corp Established to Provide Factory Support to the Distributor Network and Customers

SMEC Horizontal Lathes
Rigid Box Way / Slant Bed Construction
Live Tooling / Sub Spindle / Dual Turret / Single Y & Dual Y Axis Options

SMEC Vertical Machining Centers
Linear Guide / Box Way Construction
Standard with Coolant thru Big Plus Spindle, Chilled Ball Screw, and Chip Conveyor

SMEC Vertical Turning Lathes (RH/LH Options)
High Speed and Highly Rigid Spindle
One Piece Meehanite Casting Bed with Hardened and Ground Box Way Construction

Dual Spindle Drill Tap Centers
Low Centered base structure with rigid one-piece cast iron bed
Dual Spindle with Independent Z Axis strokes
Trunnion and Rotary Table Options

SMEC MCV5500
High Speed, Ultra Precise, Rigid one-piece cast iron bed with the widest guide way span in its class
X/Y/Z: 41 x 21 x 20"
Spindle: 12,000 RPM / 25HP / 40 Taper
Table Size: 47.2" x 21.3"

SMEC SL65MC
Rigid Box Way Construction with 3-Speed Geared Headstock
Chuck Size: 24"
Spindle: 1,200 RPM / 60 HP
Torque: 4,055.5 ft/lbs.
Swing Over Bed/Cross Slide: 40.6" / 31.5"

SMEC SL2500 BSY
Versatile and High Productive Box Way Machining thru Live Tools, Sub-Spindle, and Y Axis
Chuck Size: 10"
Spindle: 3,500 / 30 HP
Torque: 542 ft/lbs.
Swing Over Bed/Cross Slide: 25.9" / 21.26"
X/Y/Z: 9.25" / 3.94" / 22.83" / 22.24"
The Machining Centers

Ergonomics, compact dimensions, workshop suitability, precision, reliability, and durability. These are no empty phrases for Hermle. Every one of their machines are distinguished by precisely those properties. Even now, after many years of Production.

Worm or torque drives are used in the C Axes. The A axes can be fitted with one-sided or tandem drives, depending on workpiece weight and the required dynamics. Hermle’s Mill Turn models can not only mill but also turn in 5 axes simultaneously.

As a consequence of their axis design, and the integrated nature of the Rotary tables, Hermle machines offer a large collision circle diameter. They can process very large workpieces relative to the machine footprint. All models can even considerably exceed the 0° to 90° swiveling range. Versatile use, uncompromising results – Simply Hermle.

Hermle C62

‘State-of-the-art’ CNC machining – this is what the C 62 / C 62 U MT stands for as Hermle’s High-Performance-Line flagship at the top of the entire product range. The highly dynamic machining center represents ultimately consistent design for efficient machining of CNC milled parts and CNC turned parts.

X/Y/Z: 47” x 51” x 35”
Spindle: 9,000 / 14,000 / 15,000 / 18,000 RPM
Table: 900mm/ 1350 x 1100mm
Control: Heidenhain TNC 640 / Siemens S840 D sl

Hermle C400

The C 400 is a dynamic and economical machining center designed for 5-axis / 5-side machining. This is where Hermle’s well-known core competence in 5-axis technology comes into its own. The mineral cast machine bed provides for the C 400’s stable, vibration-free machining.

X/Y/Z: 33” x 27.5” x 19.7”
Spindle: 15,000 / 18,000 RPM
Table: 400mm / 650 x 540mm
Control: Heidenhain TNC 640

Hermle offers Pallet Pools and Line Systems!

Pictured Left: Hermle C32 with Pallet Pool
Pictured Right: Bull machined on a Hermle at IMTS 2018
Quaser Machine Tools Inc. was established in 1991. The Company name was established based on important principles for success in the machine tool industry - QUALITY & SERVICE (QUA SER) and continuous DESIGN INNOVATION.

**Developed and Produced Machines for:**


The Company’s commitment to continuous training and development of employees has created the high standards of manufacturing productivity and efficiencies necessary to maintain a competitive advantage in the global machine tool industry.

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**Quaser Series**

**MV1 Series:** Vertical Machining Centers - X Axis Length Up to 40”

**MV2 Series:** Vertical Machining Centers - X Axis Length Up to 80”

**MT Series:** Mill-Turn Series

**VMC APC Series:** Automatic Pallet Change Vertical Machining Centers

**MF Series:** Multi-Face Vertical Machining Center

**HX Series:** Horizontal Machining Center

**MF Cell:** 28/40 Pallet Pools

**UX Cell:** 8/14 Pallet Pools

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**Quaser MF400**

**X/Y/Z:** 16” x 24” x 20”

**Spindle:** 12,000 RPM Direct Coupled Spindle

**Table Size:** 320 mm with 400mm Swing

**Standard with:**

- 48 Tools
- Coolant Through Spindle & Ball Screw
- Tool Setter / BLUM TC50 Work Probe
- Dual Coil Conveyors to Scraper Type Chip Conveyor
- 40 Block Look Ahead
- Coolant Wash Down and Wash Gun

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**Quaser MV184E**

**X/Y/Z:** 40” x 24” x 24”

**Spindle:** 12,000 RPM Belt Driven Spindle

**Standard with:**

- 25 HP Spindle Motor with Spindle ECO Cooler
- 48 Tools / Big Plus CAT40 Spindle
- Coolant Thru Ball Screw
- Coolant Thru Spindle 290 PSI
- Mist Collector / Tool Setter / BLUM TC50 Work Probe
- Interactive Human Machine Interface Touch Screen
- Dual Coil Conveyors to Scraper Type Chip Conveyor
Eurotech B436-Y2 Rapido

Fast, Accurate, 1.42" Universal Turn/Mill centers. Simultaneous Machining on 10 axes with the 2 axis Parts Catcher. 3 Tools can be simultaneously cutting due to Super Shift Sub Spindle!

Main/Sub Spindle: 7000 rpm / 15HP
Tools: (2) 12-station Live Tool Turrets
Live Tooling: 6,000 RPM / 5.9 HP

**Standard Features:**
- Barfeed interface – 36 mm bar capacity
- Dual Y and C Axes
- Independent Y-axis slides for increased speed
- Programmable SuperShiftsub-Spindle
- Programmable 2-axis parts catcher that can pull part from main/sub spindle while still machining on opposing spindle
- Programmable parts conveyor

A family owned business since its founding in 1958 with the same family running it today and machines built in the same location. “Big enough to do the job and small enough to care.” Eurotech doesn’t just assemble the machines, they make them! ...from pouring the castings, machining the castings, making their own turrets, to painting the machines.

For over 20 years, Eurotech has offered FREE LIFETIME TRAINING to their valued customers as well as free engineering phone support. They have found this to be an important factor in helping their customers become profitable. Thousands of CNC machinists have trained at their FREE Eurotech College. By listening to their customers’ needs, Eurotech has established a value that delivers more benefits to their customers than anything else in the industry, benefiting companies such as G.E., Pitney Bowes, Parker Hannifin, Goodrich Aerospace, Honeywell, Westinghouse, Stryker, Timken, Smith Nephew, Textron, Tyco, Gates, Beretta, Benelli, Taurus, Remington, Ferrari, Perazzi, Kel-Tec, Infinity, Sako and many others.

Eurotech B620YS – New Innovative Design!
High Tech Universal Turning Center: 2” ~ 2.75” Bar Capacity

**Standard Features:**
- 18 HP / 6,000 RPM Live Tools / 15 Pos. Servo Turret
- 5,000/4,500 Main - ASA-6” / 5,000 Sub - ASA-5”
- Rigid Cast Iron Machine Bed
- CNC Auto Tailstock
- Auto load/unload 2 axis parts system
- Synchronized sub-spindle and parts ejector
- Sub Spindle w/ B-Axis load detection system
- Barfeed Interface
Toshiba Machine’s origins can be traced back more than a century to Shibaura Engineering Works Co., established in 1875. Toshiba Corporation was launched when Tokyo Electric Co., and Shibaura Engineering Works Co. combined operations in the late 1930’s.

Their focus as a vertically integrated manufacturer is key to the quality and reliability of Toshiba Machine’s machinery products. At their state-of-the-art manufacturing facilities in Numazu, Sagami and Gotemba, Japan, Toshiba produces all of the basic components to yield the superb precision and impressive infrastructure of our machines – from small factory automation equipment to machinery of truly mammoth proportions.

**Toshiba TUE-150S**
Vertical Turning Lathe with Live Tooling
- **Table Diameter:** 57”
- **Max Swing:** 78.74”
- **Max Cutting Height:** 61”
- **Live Spindle:** 3,000 RPM / 171.8 ft/lbs.
- **RAM Travel:** 35”
- **Table Speed:** Low – 100 RPM / High – 400 RPM
- **Max Table Load:** 17,600 lbs.

**Toshiba BTD-110**
Horizontal Boring Mill
- A closed-loop control system for the X, Y, Z and B axes with standard 1µm linear scales and rotary scale provides guaranteed accuracy.
- **X/Y/Z/W Axes:** 78” / 59” / 57” / 19.7”
- **Table Size:** 55 x 63”
- **Load Capacity:** 13,860 lbs.
- **Spindle:** 3,000 RPM / 50 Taper / 4.3” Spindle Dia.

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**Takamaz**

**Takamaz XW-60**
Dual Spindle / Dual Turret Lathe
- **Spindle:** 6” Chuck (5” Opt) / 4,500 RPM (6,000 Opt)
- **Turrets:** (2) 8 Station Turrets
- **X:** 4.9” / **Z:** 5.5”

**Takamaz J-Wave**
Compact Gang Lathe
- **Spindle:** 4” Chuck / 4,500 RPM
- **X:** 7.8” / **Z:** 9.8”
- **Floor Space:** 59” x 49”

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Vision Wide Product Line

SF Series: 5 Face Double Column Machining Center
X-Axis: 82” ~ 161” / Y-Axis: 47” ~ 106”

FA Series: 5 Axis Bridge Type Machining Center
X-Axis: 122” ~ 323” / Y-Axis: 106” ~ 130”

ASM Series: 5 Axis CNC Turning and Milling Center
X: 63” / Y: 49” / Z: 41” – 5 Axis Head, Up to 116 Tools

ADM Series: Composite Material 5 Axis Machining Center
X: 102” / Y: 149” / Z: 39” – 24,000 RPM, 787 IPM Feed Rate

GS Series: Gantry Style CNC Machining Center
X-Axis: 47” ~ 118” / Y-Axis: 78.8” / Z-Axis: 31” ~ 39”

BM Series: Beam Moving Bridge Type Machining Center
X Axis: 165” ~ 401” / Y-Axis: 118” ~ 165” / Z-Axis: 39” ~ 55” W Axis: 39” ~ 59”

SF Series

The most popular bridge type CNC milling machining center of Vision Wide, is 3-axis linear way design with rapid traverse reaching 944 ipm. Suitable for fine components machining and mold cutting.

• Large stepped design of Y axis makes guide ways close to beam and spindle which effectively increases rigidity of cutting load.

• Z axis 590ipm rapid traverse, high acceleration/deceleration performance to achieve contour accuracy of high speed mold machining.

Honor Seiki VL-160C (CM: Live Tool)
Table Diameter: 63”
Max Swing Diameter: 78”
Max Turning Diameter: 78”
Max Turning Height: 47”
X Axis Travel: -7.8” + 45”
Z Axis Travel: 35”
ATC: 12 Positions (CM: 16 Positions)
Live Tool Spindle Speed: 2,250 RPM

Honor Seiki VL-300C
Table Diameter: 118”
Max Swing Diameter: 118”
Max Turning Diameter: 141”
Max Turning Height: 78”
X Axis Travel: -11.8 + 78.8”
Z Axis Travel: 59”
ATC: 12 Positions
MAM HPPS (High Performance Pallet System)
- Pallets driven on all axes by Servo Motors with Multi Turn Encoders for fast and accurate positioning
- Pallet’s often exceed travel time of 157”/second
- The Complete System is monitored by a remote-control unit of the cell controller. Access is via ethernet in real time!
- The HPPS Series is available in 2, 3, 4, or 5 Levels
- Pallet sizes range between 400mm to 3000x1250mm size Pallets
- Double Loading Stations

MAM CPX (Rotary Loading System for 5 Axis Machines without Pallet Changers)
- The MAM FX Series is a step into flexible production with 5 & 4 axis Machines
- A solid steel frame and robot driven by servo motors with well known components from the machine tool industry enable pallet change times in under 25 seconds, precise positioning over the entire service time, and low operating costs
- CPX can store up to 40 Pallets
- CPX can accommodate 16 – 500mm pallets

MAM CPS (Compact Pallet System)
- The CPS is the first fully flexible, modular compact system on the market
- Stores up to 10 Pallets with Pallet size ranging between 400mm to 630mm

MAM Matrix Tool Magazines
MAM C (1st from Left): Designed for HMC with up to 362 Tools
MAM L (2nd from Left): Up to 1,003 Tools. 4 Fold Turret / Carousel Loading Station
MAM LX (3rd from left): Up to 736 Tools with 4 Axis Robot for fast changeover
MAM XX (Far right): Up to 528 Tools
About Us

Owner and President Tom McArdle founded Great Lakes Machinery in his home in 1989. Vice President and Co-Owner Tim McArdle joined the business in 1991. Shortly thereafter they expanded their company to a warehouse in Wheatfield, NY and in 2000, built a 10,000 square foot showroom and office in Lancaster NY.

Great Lakes Machinery is family owned and operated. We have over 40 years of experience in selling, installing, training and maintaining some of the latest and most reliable CNC Machining Tools in the world. Our motto is “Business with Integrity” and we take that very seriously.

We service customers from Buffalo to Albany and Western Pennsylvania. We pride ourselves on providing our clients with the highest quality CNC machine tools available in today’s market place.

Great Lakes Machinery will work with you from the beginning and be there to train and support the Machine Tool through its lifetime. The sale is only the beginning and our support is critical to your success. We have a highly trained Service Team for that reason. We will provide you with a trained technician for installation. Our technician will install, inspect and level your machine. They will run tests and inspect to make sure your machine is ready to run. Our technician will train you on the machine once installation is completed. We do complete turnkeys if requested, including tooling, programs and run off with guaranteed cycle times.

We pride ourselves on our exceptional customer service. We are available to help immediately with any part and service requests.

We offer simple single page form financing with great rates for easy, quick approvals on your loan. Please give us the opportunity to show you what we can do to help and support your Company.