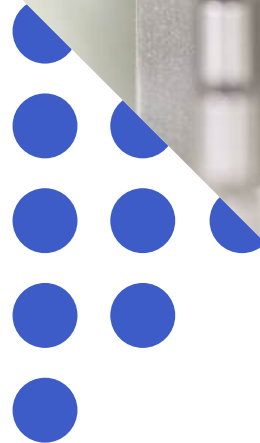




YOUR SOURCE FOR

Wire and Abrasive Technologies





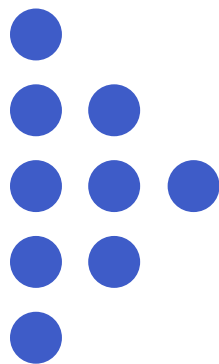
Your comprehensive resource for automated, process-driven medical manufacturing.

Medical Manufacturing Technologies (MMT) is a leading global provider of medical device manufacturing services and solutions. We serve as a comprehensive resource for automated, process-driven manufacturing, streamlining the development of complex medical devices with a strong emphasis on precision and efficiency.

MMT is dedicated to ensuring seamless production processes that lead to superior customer outcomes and enhance patient health worldwide. This dedication is reflected in our extensive support network, deep industry knowledge, and technical expertise.

With machines deployed in nearly every MedTech company around the globe, MMT offers unmatched application support and expertise. Our proven track record and extensive install base, combined with our vertically integrated approach, allow us to consistently deliver exceptional quality and reliability while increasing yield and throughput.

MMT's suite of services and solutions includes process development, applications and equipment, technical solutions, and after-market support.



Automation

Equipment

Specialty Components

TotalCare



Comco History

Established in 1965, Comco is a leading company in the microblasting space, a technique utilized for deburring, texturing, cleaning, and modifying part surfaces. As the creators of the award-winning MicroBlaster®, Comco has gained the trust of industry professionals in medical manufacturing, microelectronics, precision machining, and aerospace, positioning itself as the premier partner for microblasting solutions.

In 2025, MMT acquired Comco, enhancing its abrasive technology offerings while vastly expanding its microblasting capabilities.



The ComfortGrip® Handpiece changed the way the nozzle connects to the abrasive tube, eliminating the need for a nose piece, a wear item. The nozzle connects directly to the blue abrasive tube. Assembly is easier because there is a ferule built into the ComfortGrip® handpiece. As you tighten the handpiece against the nozzle, the ferule keeps the hose from spinning as it squeezes the abrasive hose and nozzle securely.



MicroBlasting Machines

Comco's systems are used in a variety of industries to texture, deburr, clean, etch and cut a wide range of materials. Comco's customized solutions help businesses large and small meet today's design, engineering, and manufacturing challenges.

AccuFlo

Micro-Precision Sandblasting Equipment

AccuFlo is Comco's first micro-abrasive blaster equipped with patented Simoom® Technology featuring a redesigned modulator, aerodynamic tank and PowderGate® valve. The added flexibility and enhanced powder flow control allow for a wider range of applications. Building on over 60 years of MicroBlasting experience, AccuFlo represents the best of what is possible. It incorporates advancements in abrasive mixing, durability, and operator experience.



Key Features

- AccuFlo was designed to consistently deliver a uniform abrasive stream in the harsh environment of abrasive media.
- Simoom® Technology is Comco's patented method of consistently and efficiently mixing air and abrasive. This breakthrough technology creates a more streamlined flow path, reducing turbulence, to provide better control over the abrasive stream—and allows the AccuFlo to work with a wider range of abrasive.
- PowderGate® is rated to last 250,000 blast cycles in a production environment without maintenance. A traditional pinch valve lasts about 10,000 blast cycles.
- The ComfortGrip® Handpiece provides the ultimate combination of comfort and performance. ComfortGrip® has a cushioned, natural feel and is less resistant to motion than standard handpieces so operators can blast without getting tired.

ProCenter Plus

All-In-One MicroBlasting Work Station

Designed specifically for MicroBlasting, ProCenter Plus combines a compact dust collector and chair-height work chamber in one freestanding unit, creating a clean, comfortable work environment with great visibility.



Key Features

- The perfect companion to AccuFlo, ProCenter Plus combines all necessary accessories into one self-contained system on wheels and has a footprint of only 30" x 34".
- Reduce noise without sacrificing efficiency, operating at a sound level of just 68 dBA.
- Equipped with an easy-to-replace HEPA filter. HEPA air filtration means 99.97% of all particles greater than 0.3 micron in size are removed.
- Spent abrasive is quickly evacuated from the blast chamber and captured in the media hopper. Disposal is simplified with 2 large butterfly valves.



Advanced Lathe **Automated MicroBlasting Platform**

Advanced Lathe integrates micro-abrasive blasting technology with an advanced machining platform. This automated system delivers the accuracy, reliability, and throughput to meet the challenges of today's manufacturing environment.



Key Features

- Built for abrasive environments, Comco's media is almost as hard as diamond and as fine as moon dust. Through Comco's engineering expertise, systems are designed and manufactured tough enough to withstand these harsh environments in a production environment.
- Quickly change between different types of parts. The refined user interface includes a bright, easy-to-read touchscreen display.
- With up to four axes of motion, Advanced Lathe is capable of handling complex part geometries and performing multiple operations during the same blast routine.
- Advanced Lathe has been engineered to operate with either the AccuFlo or PowerFlo families of Comco blasters.

JetCenter **Automated MicroBlasting Platform**

In an evolution of Comco's automated MicroBlasting platform, the JetCenter has created new options. In addition to having greater travel, this system is designed specifically to integrate additional types of motion and automation within the blast chamber. JetCenter is the go-to choice for large flat parts, or trays of smaller parts that need to be blasted individually.



Key Features

- Built for abrasive environments, Comco's media is almost as hard as diamond and as fine as moon dust. Through Comco's engineering expertise we are able to design and manufacture a system tough enough to withstand these harsh environments in a production environment.
- JetCenter protects against accidental improper loading of parts or mismatch of programs. Simply select a preset program, load the parts, and blasting can begin at the press of a button.
- JetCenter configurations can be developed for a wide range of processes to meet exacting standards in the medical, aerospace, electronics, automotive, semiconductor industries, and more.
- JetCenter has been engineered to operate with either the AccuFlo or PowerFlo families of Comco blasters.



An MMT Company

Glebar History

Since 1952, Glebar has been a global leader and innovator in the centerless grinding industry. Glebar's versatile suite of precision grinding machines and automated turnkey grinding systems can process a multitude of materials for end-use applications found in virtually any industry or home around the world.



In 2020, **Glebar acquired Tridex Technology and Everite Machine Products**, becoming part of the MMT brand of companies. World leaders in Electromechanical Grinding (ECG), Tridex and Everite focus on creative manufacturing solutions utilizing ECG technology for both standard and custom applications. ECG combines abrasive grinding and electromechanical erosion producing a more efficient, cost-effective, burr-free part.



Centerless Grinding Machines

The Glebar GT-610 Series offers a range of precision Infeed/Thrufeed Centerless Grinders. From manual to fully automated, Glebar machines outperforming competitors by removing material faster and achieving superior surface finishes. Designed for versatility, these machines excel in processing aerospace fasteners, automotive parts, PCD drill bits, medical components, and more, ensuring efficiency across varied high-precision applications.



GT-610 CNC

CNC Infeed/Thrufeed Precision Centerless Grinder

The Glebar GT-610 Infeed/Thrufeed Precision Centerless Grinder features a compact design that provides high horsepower, high rigidity, and superior slide positioning. Customizable controls are designed to integrate full turnkey automation including feeders, robots, pick and place gantry, automatic gauging, cleaning, and pass/fail sorting assemblies. The rigid design excels at grinding PCD Diamond, and metals such as steel, carbide, titanium, and composite materials.

Key Features

- Grinds multiple parts per cycle.
- High-production, lights-out grinding capability.
- Intuitive touchscreen HMI.
- Automatic CNC work wheel and regulating wheel dressing.
- Full turnkey automation integration available.
- Patented motorized work rest blade.
- Independent upper and lower slide positioning.
- EtherCAT connection for remote access or remote technical support.



GT-610

Automated Infeed/Thrufeed Centerless Grinder

The Glebar GT-610 Centerless Grinder boasts a compact, high-power, and rigid design with precise slide positioning. It offers customizable controls for seamless integration with full turnkey automation, including robotic handling, automatic gauging, and sorting solutions. Excelling in grinding PCD Diamond and various metals like steel, carbide, titanium, and composites, it's the industry-leading choice for tasks that demand grinding precision.

Key Features

- Maintains extremely tight tolerances.
- Full turnkey automation integration available.
- Intuitive touchscreen HMI.
- Stationary and removable template tracing dressers for both wheels.
- Grinds multiple parts per cycle.
- Independent upper and lower slide positioning.
- Multiple programmable grind zones.
- Remote connectivity simplifies troubleshooting and maintenance.



GT-610 SD **Infeed/Thrufeed Centerless Grinder**



The Glebar GT-610 SD Centerless Grinder excels at grinding supermaterials like polycrystalline diamonds, tackling even the toughest grinding challenges. By capturing critical parameters for analysis, the grinding process can be optimized through data-driven adjustments for improved throughput, wheel longevity, and the most efficient setup.

Key Features

- The high-speed, high-performance multi-axis controller ensures that diameter control is maintained.
- The touchscreen HMI enables easy programming of all movable axes and peripherals for efficient operations.
- A variable speed vector drive allows the machine to maintain a constant surface speed as the work wheel wears.
- Built-in automatic wheel balancing system dynamically adjusts and eliminates wheel vibration.
- The machine control detects loading on the grinding wheel and initiates the dressing cycle to maintain efficient grinding.
- Part diameter feedback allows the machine to correct the wheel dress profile for size variation by station and slide positioning.

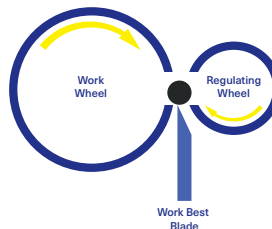
GT-610M **Thrufeed Centerless Grinder**



Built for the machine shop, the Glebar GT-610M Thrufeed Centerless Grinder is an affordable, compact, precision centerless thrufeed grinding machine. Featuring a 8-5/8" wide x 10" diameter work wheel, it can remove more material faster, and with better surface finishes than competing machines with narrower grinding wheels. Common applications include spool valves, bar stock, pins, bushings, metals, hard and green ceramics, and other engineered materials.

Key Features

- Grinds spool valves, bar stock, pins, bushings, metals, hard and green ceramics, and other engineered materials with a smaller footprint than competing machines.
- A twin grip super precision spindle and an 8-5/8" wide work wheel in a compact footprint make this the ideal machine shop solution.
- Includes independent upper and lower slides, and a blade height ramp system for finite blade adjustment.
- Tooled to grind materials ranging from hard carbide and titanium bar stock to polymers, and everything in between.
- The system's dual independent slides for the regulating wheel and work-rest blade offer significantly easier setup than competing systems.



The Fundamentals
of Centerless Grinding

Micro Grinding Solutions

Glebar's Micro Grinding Machines grind parts for a variety of industries, from semiconductor probe pins to a wide array of medical components, such as medical guidewires, biopsy needles, medical probes, and dental implants.



CAM.2 Micro Grinder Micro Grinder

The Glebar CAM.2 Micro Grinder is the perfect machine for grinding complex medical and small precision parts such as medical guidewires, radiuses, needle points, and non-linear shapes. Previously unproduceable parts can be made easily with minimal setup time, and with limited operator training. Glebar's patented dual-carriage linear motor part feed system ensures that the position, speed, and rotation are under absolute control at all times, controlling the grind with a high degree of diameter and length accuracy.

Key Features

- Software interface allows an unskilled operator to run multiple high-precision machines simultaneously.
- Secondary Spindle Assembly can be used as a cutoff wheel to grind slots, angular slots, or generate sharp internal corners.
- Absolute control over the lengths and diameters.
- Available Spool Feeder System feeds Nitinol and SLT wire from a spool and cuts the wire to length.

GT-9AC Guidewire Grinder Automated Guidewire Grinder

The Glebar GT-9AC Automated Guidewire Grinder excels at precision grinding of medical guidewires with multiple tapers, paddles, and parabolic shapes with speeds as fast as a centerless grinder. Instead of using sensors to detect the wire position and trigger diameter changes, high-speed imaging technology and a 1-micron encoder run the entire length of the feeder providing constant updates displayed on the touchscreen HMI allowing for quick, simple adjustments. The result is crisp, clear tapers and virtually no limit to the number of tapers, paddles, and parabolic shapes which can be ground.



Key Features

- Software interface allows an unskilled operator to run multiple high-precision machines simultaneously.
- High-speed imaging technology and a 1-micron encoder run the length of the feeder.
- Wire position is updated every 0.00025" (0.006 mm) at typical grinding speeds.
- Available Extractor allows for double-ended grinds or grinding multiple parts in the same cycle.



TF-9D Infeed/Thrufeed Centerless Grinder

The Glebar TF-9D Infeed/Thrufeed Centerless Grinder uses computer controls to grind both hard and soft materials including catheters, medical guidewires, and spinal cord stimulators.



Key Features

- Grinds both hard and soft materials.
- Intuitive touchscreen HMI allows an unskilled operator to run multiple high-precision machines simultaneously.
- Available stationary and removable wheel dressers.
- Independent upper and lower slide positioning.
- Built-in infeed and thrufeed cycles with programmable inputs and positioning.
- Full turnkey automation integration is available including feeders, robots, pick/place gantry, gauging, cleaning, and sorting assemblies.

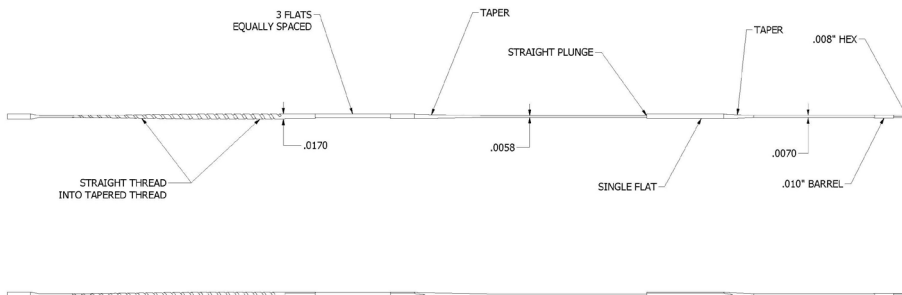
TF-9BHD Infeed/Thrufeed Micro Grinder

The Glebar TF-9BHD Infeed/Thrufeed Micro Grinder is a manual infeed/thrufeed centerless grinder that grinds both hard and soft materials, specializing in parts from .002" to 2.5" in diameter such as fuel pellets, pins, bushings, PTFE, plastics, ceramics, and other engineered materials.



Key Features

- Utilizes an 8-5/8" (219mm) wide work wheel removing more material faster, and with better surface finishes than similar machines with shorter wheels.
- Grinds metal, plastic, ceramic, carbide, glass/crystal, and wood applications.
- By using a multi-grit wheel, the machine can rough and finish the same part in one operation.
- Can be configured with an automatic loading/unloading system for a complete turnkey medical catheter grinding solution.
- Hard-chromed dovetail slides with Turcite gibs for smooth operation.
- An optional auto-retract cylinder automates the process using a single sensor and the existing infeed handle.



Glebar Micro Grinders can automatically form precise shapes in applications such as medical guidewires.

Electrochemical and Precision Abrasive Tube & Bar Cutoff Solutions

Featuring superb accuracy and multiple bar cutting, the Tridex Technology line of tube and bar cutoff machines offers fast, clean cuts. The Precision Abrasive, Burr-Free Electrochemical, and Hybrid Abrasive ECG all offer a compact, robust design for superior tolerance and finish.



CS1-E Burr-Free Electrochemical Cutoff Machine

The Tridex CS1-E Burr Free ECG Cutoff Machine features completely burr-free cutting, virtually eliminating the need for deburring or other corrective secondary operations and reducing scrap.

Key Features

- Completely burr-free cuts virtually eliminate the need for deburring and other secondary operations.
- Fast, precise cuts.
- Cuts multiple tubes or bars per cycle.
- All stainless construction, including full access stainless splash guard and electrolyte tank.
- Fixtures and jobs can be changed in one minute.
- All feed components are protected from electrolyte and grit.



CS1-A Precision Abrasive Cutoff Machine

The Tridex CS1-A Precision Abrasive Cutoff Machine provides fast, clean cuts with minimal burrs.

Key Features

- Compact, robust design for superior tolerance and finish.
- Fast, clean cuts with almost no burr.
- Cuts multiple tubes or bars per cycle.
- Thin, inexpensive rubber bond wheels never go dull or need sharpening, minimizing kerf loss.
- Leaves parts with a smooth surface finish, 0.2 – 0.4 RA typical.
- Can also use diamond and CBN wheels.

CS1-EA **Hybrid Burr-Free ECG and Precision Abrasive Cutoff Machine**



The Tridex CS1-EA Hybrid Burr-Free Electrochemical (ECG) and Precision Abrasive Cutoff Machine combines the best of the CS1-A Precision Abrasive and CS1-E Electrochemical Cutoff Machines into one robust and compact design.

Key Features

- Electrochemical cutoff for burr-free tube or wire cutoff.
- Precision abrasive cutoff with minimal burr.
- Easily change between ECG and abrasive modes.
- Cuts multiple tubes or bars per cycle.
- Easy setup and operation using color touchscreen HMI.
- Fixtures and jobs can be changed in one minute.

MCS-12 **Single Axis Burr-Free ECG Cutoff Machine**



The Tridex MCS-12-E Cutoff Machine features completely burr-free cutting, virtually eliminating the need for deburring or other corrective secondary operations and reducing scrap.

Key Features

- Completely burr-free cuts virtually eliminate the need for deburring and other secondary operations.
- Fast and precise.
- Precision linear guides for cutting head axis – no pivot.
- Servo driven ballscrew head motion for accurate repeatable cuts.
- Available in a Precision Abrasive version Model MCS-12-A for solid bars, metallurgical sampling, and similar jobs.
- Easy setup and operation using color touchscreen HMI.
- Direct drive spindle motor, no drive belt.

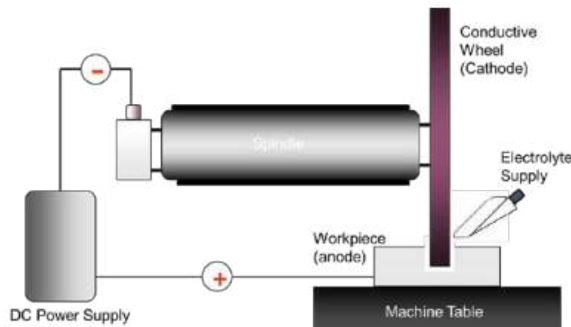
Electrochemical Grinding (ECG) Explanation

A conductive grinding wheel (Cathode) and conductive workpiece (Anode) are connected to a DC power supply while a conductive saltwater solution (Electrolyte) is applied to the cutting surface.

DC current flow causes oxidation and reduction to dissolve the metal surface (Electrolysis).

The conductive abrasive wheel removes the oxidized material and increases the cut rate.

The metal removal rate is dependent on feed rate, DC current flow, and other cutting parameters.



Burr-Free Electrochemical Grinding (ECG) Solutions

Providing burr-free and low force grinding and leaving no recast or heat-affected zone, the Tridex Technology line of Electrochemical Surface Grinders is a faster alternative to traditional surface grinding. Numerous applications across many materials and industries are available, including medical devices, aerospace, and automotive.



SG-1645

Electrochemical Burr-Free Surface Grinder

The Tridex SG-1645 Burr-Free Electrochemical NC/CNC Surface Grinder is a faster alternative to traditional surface grinding.

Key Features

- Robust stationary table design makes the machine easier to automate and provides more robust machine guarding.
- Wheel moves in X, Y, and Z axes. 6" (160mm) x 18" (450mm) travel.
- Available Index Table Pallet Changer allows the operator to load the next part while grinding is in operation.
- Easily integrates with automation to increase process efficiency.
- Integration of the Tridex PGS-100 Point Grinding System is simple for grinding points on wire and medical needles.
- Standard, simple conversational control with color HMI touchscreen. Full CNC is optional.



SG-2060

Electrochemical Burr-Free Surface Grinder

The Tridex SG-2060 Burr-Free Electrochemical CNC Surface Grinder is a faster alternative to traditional surface grinding in a larger format.

Key Features

- Wheel moves in X, Y, and Z axes. 8" (200mm) x 24" (600mm) travel.
- Available Index Table Pallet Changer allows the operator to load the next part while grinding is in operation.
- Increasing productivity, index table can run two Tridex PGS-100 Point Grinders.
- Easily integrates with automation to increase process efficiency.
- Standard CNC simple conversational control with color Mitsubishi HMI touchscreen.
- Available with full rotary table (C) axis.





RVG-10 **Electrochemical Rotary Vertical Grinder**

The Tridex RVG-10 ECG Rotary Vertical Grinder is designed for grinding round format aerospace parts such as honeycomb seals (rings and segments), vane tips, shrouds, and other thin wall components.

Key Features

- Completely burr-free grinds eliminate the need for deburring and other secondary operations.
- High-precision vertical spindle ensures fast, accurate grinds.
- Remote diagnostics capability simplifies troubleshooting and maintenance.
- Servo-driven rotary table with dual mode (spindle or CNC C-Axis).
- Easy setup and operation using Mitsubishi M80 CNC with color screen.
- All vital components are outside the wet area and protected from electrolyte and grit.

PGS-100 **Electrochemical Burr-Free Needle Point Grinder**

The Tridex PGS-100 Burr-Free ECG Point Grinding Machine is a fully programmable pointing and material handling system designed to integrate with the Tridex SG-1645 or SG-2060 ECG Grinders.



Key Features

- Capable of producing Menghini, tri-bevel, back-bevel, trocar, diamond, stylet, Franseen, Chiba, Pencil Point, and other custom points burr-free.
- Ability to grind cannula and other parts with hubs.
- Setup and changeovers take minutes to complete.
- Loading fixtures can facilitate secondary operations such as electropolishing, bead blasting, slotting—and more—without losing point orientation.
- No taping required for loading.
- Optional on the Tridex SG-1645 and SG-2060 ECG Surface Grinders.

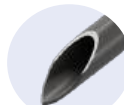
Coming Soon - APM-SG with two PGS-100 fixtures on a Pallet Shuttle grinder for higher productivity.



Trocar



Menghini



Hypodermic



Pencil Point



Diamond Point



Franseen/Trephine

Medical Needle Point Grinding

Burr-Free ECG Grinding of Tubing or Solid Wire.

Form Grinding

Glebar's Centerless Form Grinding Machines are designed to grind parts as small as 0.050" to 4" diameter on the same machine. Spherical and cylindrical components can be shaped into unlimited forms on a large variety of materials such as rubber, carbon fiber, Teflon® (PTFE), and various metals.

PG-912DG **Enclosed Centerless Form Grinder**



Glebar's PG-912DG Enclosed Centerless Form Grinder uses a 12" wide work wheel and servo motors to reduce setup times, increase throughput, and maintain tighter tolerances.

Key Features

- 12" wide work wheel allows manufacturers to grind more parts per cycle. In testing, throughput increased by as much as 30%.
- Servo motors automatically adjust the oscillating regulating wheel to the pre-programmed position, reducing setup time.
- Precise positioning maintains tight tolerances and improves sphericity. In testing, a Cpk two times greater than the existing process was achieved.
- The thick granite machine bed provides enhanced rigidity, as well as thermal and vibratory stability, maintaining a high-quality part.
- The machine software interface was developed to allow an unskilled operator to run multiple high precision machines simultaneously.
- Automated feeding systems can be integrated at the top or side of the machine depending on the application.

PG-9DHD **Centerless Form Grinder**



The Glebar PG-9DHD Centerless Form Grinder is a high-precision version of the Glebar PG-9BHD. With its 10" wheel, this form grinder is capable of multiple parts-per-cycle grinding, also offering precise slide positions and controllability.

Key Features

- Multiple parts-per-cycle can be generated in a single infeed motion.
- Can be fitted with a 15HP main spindle motor for heavy grinding of materials such as G10 fiberglass to turn cylinders into balls.
- To shape the grinding wheel, the machine can become a work wheel dresser allowing the operator to manually dress the grinding wheel on the machine.
- Precision collets ensure optimum concentricity control.
- Cast iron frame standard; also available with granite machine bed for increased thermal insulation and reduced vibration.
- Feeding systems for rod or ball feeding from the top or side of the machine include semi-automated systems for testing and small production runs up to stainless-steel hoppers that can hold thousands of balls.



PG-9X20DHD **Centerless Form Grinder**

The Glebar PG9X20DHD Centerless Form Grinding Machine was designed to form ceramic components such as unfired carbide and crystal quartz glass boules used to produce fiber optics by form grinding the carbide in the soft state to near net size.

Key Features

- An extended 20" (508 mm) work wheel and regulating wheel allow several components to be ground simultaneously.
- Uses a rigid, hard chromed, slide assembly with a resolution of 0.1 micron.
- Slide velocity and position are controlled through operator-friendly touchscreen HMI with custom-designed software.
- A 20" long 0.5" diameter green tungsten carbide rod can be formed to 250" in less than 12 seconds maintaining an accuracy of 0.001" (25 μ m).
- Built-in hoist for easy removal of diamond work wheel and spindle assembly.
- Servo-motor driven regulating wheel side.



PG-9BHD **Centerless Form Grinder**

The PG-9BHD Centerless Form Grinder produces spherical or cylindrical components from pre-form or rod in a range of materials, including rubber, ceramics, wood, plastic, glass, and Teflon® (PTFE).

Key Features

- Highly controllable machine capable of form grinding parts as small as felt pen nibs to 4" diameter fiberglass on the same machine.
- 10" wide work wheel allows multiple parts to be ground per cycle.
- Can be fitted with a 15HP main spindle motor for heavy grinding of materials such as G10 fiberglass, turning cylinders into balls.
- Feeding systems for rod or ball feeding from the top or side of the machine include semi-automated systems for testing and small production runs up to stainless-steel hoppers can hold thousands of balls.
- Oscillating regulating wheel for improved sphericity on ball forms, reducing part to part feeding time.
- The PG-9BHD delivers high throughput and quality results, yet saves production space due to a small footprint.

Outer Diameter & Double Disc Grinding Solutions

Glebar offers one of the most compact Double Disc Grinders on the market, excellent for small diameter components and Outer Diameter (OD) Grinders. This machine is ideal for producing components requiring a tight concentricity specification.



DD-7 Double Disc Grinder

The Glebar DD-7 is one of the most compact double disc grinding machines on the market. Designed for grinding small diameter components, it accurately controls length and perpendicularity.

Key Features

- 3 Fixturing Modes: Vertical (Carriage), Thrufeed, or Precision Fixture.
- Intuitive touchscreen HMI allows an unskilled operator to run multiple high-precision machines simultaneously.
- Fully customizable to your application.
- Full turnkey automation integration available including feeders, robots, pick/place gantry, gauging, cleaning, and sorting assemblies.
- Brushless servo motors provide a faster and more precise way of moving the slides.
- Servo-driven, closed-looped drive offers a high degree of control.

PG-9DOD Compact OD Grinding Machine

The Glebar PG-9DOD OD Grinder produces components requiring tight concentricity specifications. Examples include bearings, bushings, and engine components.



Key Features

- Granite machine bed coupled with a high precision twin grip spindle holds extremely tight concentricity specifications.
- The servo driven arbor attachment provides part control during the plunge grinding operation.
- Fully customizable and capable of processing high-volume components utilizing a precision arbor as a fixture.
- Outperforms conventional OD grinders by using the full face of the wheel to grind the part.
- The wheel shape can be controlled finitely using a template tracing work wheel.
- Adaptable to full automation for a complete turnkey solution.

PG-9CRG **OD Grinder**



The Glebar PG-9CRG OD Grinder shapes the diameter on parts where the piece's diameter is concentric to the centerline. The PG-9CRG manufactures components from rubber rollers for laser printers to dental drills.

Key Features

- The fully programmable slide can be positioned to an accuracy of 0.1 microns.
- Interfaces with robots and seamlessly attaches to non-contact inspection systems for complete, hands-off operation.
- An available robot incorporates two grippers for loading and unloading during the grind cycle, reducing cycle time.
- An available dressing system automatically advances a diamond tool and dresses the work wheel while tracing a formed template.
- Precision collets ensure optimum concentricity control.
- Collet rotation and speed variability optimize the grinding process for efficient material removal at fast, controlled speeds.

FW-9D **OD Grinder**



The Glebar FW-9D Ferris Wheel/OD Grinding Machine forms parts concentric to the inner diameter. Typical applications of the FW-9D are car oxygen sensors, spark plugs, rubber feed rollers, and ceramic insulators.

Key Features

- Shapes components up to 5".
- In-line inspection can be deployed to automatically adjust size, further improving the machine's accuracy and repeatability.
- Precision stepper motor positioning head.
- Adjustable load cycle move profile.
- Integration with automation and inspections systems, as well as robots.
- Parts can be loaded manually or by using robots onto the precision arbors.

Gauging Systems

Glebar's Profile Gauging Systems represent the culmination of years of experience in understanding the unique challenges and requirements of measuring long cylindrical shapes in a manufacturing environment. They also happen to be the fastest and most accurate on the market.



P5K Gauging System

Gauging System

The Glebar P5K Gauging System from MMT offers unparalleled scanning precision and speed for guidewire measurement in medical and industrial applications. This patented, fully automated system excels in objectivity, accurately gauging components up to 78" long and 0.250" in diameter. Delivering 16,000 diameter readings per second—12x more data than other available systems—the P5K also uniquely addresses operator comfort with its versatile sit, stand, or sit/stand configurations, enhancing both flexibility and productivity.

Key Features

- Results are presented to operators as a clear "Go" or "No Go".
- Fast scanning provides 16,000 readings per second.
- 4x the data output while operating at 4x speed of the P4K, enhancing part quality and significantly improving manufacturing efficiencies .
- Provides a diameter and length reading every 30 millionths of an inch.
- Ability to set warning tolerances to alert the operator before a part goes out of tolerance.
- More immediate insights into size compensation, providing feedback to Glebar Grinding Systems: CAM.2, GT-9AC, and GT-610 CNC.



P4K Gauging System

Gauging System

The Glebar P4K Gauging System precisely scans multiple single parts or one long part in a single operation, providing fast and accurate profile metrology for guidewires, arthroscopic shavers, fasteners, and more.

Key Features

- Simple, easy-to-use software and user interface.
- Results are presented to operators as a clear "Go" or "No Go".
- Measurement is automatic, free of any operator influence.
- Parts are pulled through an optical micrometer.
- Fast scanning provides 10,000 readings per second.
- Provides a diameter and length reading every 30 millionths of an inch.

Wheel Dressing Machines

The ability to dress wheels offline increases efficiency and minimizes downtime. Having wheels ready for change-over allows the grinder to be used only for its intended purpose — making parts. Glebar offers two CNC options, both compact and efficient.



DM-12 CNC

CNC Grinding Wheel Truing & Dressing Machine

The Glebar DM-12 CNC Grinding Wheel Dressing Machine provides a standalone solution that precisely dresses grinding wheels offline, increasing operational efficiency.

Key Features

- Interchangeable arbors ensure compatibility across all infeed, thrufeed, and OD/ID grinders using wheels within the size envelope.
- Standalone machine that CNC dresses precision contours in vitrified, resin, and superabrasive grinding wheels.
- The hydraulic tailstock supports the grinding wheel, reducing setup time, and increasing accuracy.
- Fully functional Mitsubishi CNC control with color screen HMI.
- Designed to handle aggressively hard electrochemical resin bonded wheels used on Tridex ECG Grinding Machines.
- Uses long-lasting diamond dressing rolls of various shapes.



DM-9CNC

Standalone CNC Grinding Wheel Dresser

The Glebar DM-9CNC is a standalone machine, available for both 9" and 10" work wheels, that CNC dresses precision contours in vitrified grinding wheels.

Key Features

- Powered by a brushless servo motor, offering high torque and closed-loop velocity control up to 10,000 RPM.
- Built on a granite bed for optimal thermal stability and vibration control.
- Wheel contour can be generated in CAD or entered directly as linear and circular positions on the large 15" touchscreen interface.
- Dresser path, wheel shape, and dresser position are all rendered in real-time on the screen.
- Linear roller ways deliver ultra smooth motion and long life.



Secondary Process Devices

Secondary process devices for guidewire grinding include the Glebar Standalone Feeder and Guidewire Deburring Machine.

GFS Standalone Feeding System

The Glebar GFS is a standalone device which can seamlessly connect and feed parts into existing third-party machines including swiss screw machines, manual grinding machines, and more.



Key Features

- Built on a sturdy platform with casters for easy placement.
- 7-inch color HMI for simple and easy access to feeder operation.
- Feeds grinding machines, printing or laser marking machines, or any other equipment where the part needs to be introduced to a specified distance and retracted into a collection bin.
- Trays mounted on the front and back of the unit provide convenient part staging areas.
- Loads wire using a vacuum pick head on a pick and place unit.
- Strips the wire from a bundle and drops it into a staging area reducing part to part feeding time.

GSR-6 Guidewire Deburring Machine

The Glebar GSR-6 Guidewire Deburring Machine deburrs guidewires while automatically separating pass and fail parts and counting the number of wires processed.



Key Features

- Deburrs guidewires while automatically separating pass/fail parts.
- Compact, bench-top design.
- Straightforward, color touchscreen controls.
- Simple selection of tip configurations via touchscreen from the parts library.
- Wide variety of preset radii and chamfers.
- Ability to create and save custom configurations.



Glebar Precision Grinding

Automation

Glebar's dedicated staff of engineers and applications personnel can design and integrate a turnkey automated precision grinding solution to meet your specific application needs. Automation is available for Glebar centerless, micro, double disc, form, OD grinder, or ECG machines.

Key Features

- Combines Glebar's world-class grinding solutions with automation and the capability to design fully integrated cells for companies around the globe.
- Glebar grinding systems can be fitted with robots, gantries, cleaning and drying stations, and vision- or laser-based inspection systems. This creates a virtually hands-off, turnkey solution for high production grinding applications, all on the smallest footprint available in the market.
- Customized touchscreen HMI software is based on the customer's needs using a simple user interface that is extremely intuitive and requires little training to operate





Material Handling

- Ball Feeding
- Cleaning and Drying
- Multi-Axis Actuators
- Pick-and-Place
- SCARA Robots
- Six-Axis Robots
- Vibratory Bowls and Conveyors
- Wire and Tube Feeding

Measurement & Interface

- Custom part feeders designed around your part for high-volume production
- In-process measurement interfaced to machines for automatic size compensation
- Laser gauge diameter measuring devices, both on and offline
- Linear Variable Differential Transformer (LVDT-based) measurement systems
- Profile measurement systems for shaped cylindrical components such as wires and tubing
- Sorting and part accumulation systems
- Palletizing
- Part singulation and staging for post-grinding processing
- Advanced software and controls allow for peripheral components
- Eddy Current System
- Interface between machine tools and peripheral components
- Integrates machine line onto another to maximize production flow



Wire and Abrasive

Specialty Components

MMT proudly offer specialty manufacturing services for our wire and abrasive technologies through our innovative Tridex line of equipment. Whether you're seeking start-up production or a consistent, contract-based partnership, our Burr-Free Electrochemical Grinding (ECG) process ensures precise, high-quality results tailored to your needs. Utilizing the advanced Tridex CS1-E, we excel in cutting metal tubing with unmatched efficiency and accuracy, delivering burr-free results that are ideal for critical applications.

For medical needle pointing, we provide unparalleled expertise using our PGS-100 Point Grinding System that integrates with the Tridex SG-1645 and SG-2060 ECG Surface Grinders. This specialized fixture allows us to create a wide range of precision needle points, including menghini, tri-bevel, back-bevel, trocar, diamond, stylet, franseen, chiba, pencil point, and fully customized designs, all with burr-free accuracy. In addition, we support grinding cannula and parts with hubs, ensuring the highest quality outcomes for your medical manufacturing needs.

From prototyping to full-scale production, our team is equipped to bring your unique components to life with precision and reliability.

Services

Biopsy Sets

Blades

Burr-Free Needle Pointing

Burr-Free Tube Cutoff

Form Grinding

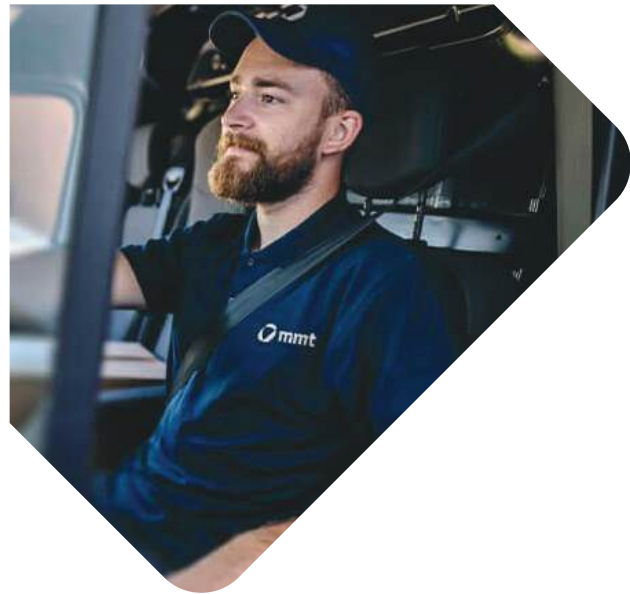
Knives

Surgical Tools

Suture Cutters

And More





totalcare

SUPPORT + SERVICE BY MMT

Comprehensive Support Options

At Medical Manufacturing Technologies (MMT), we are passionate about delivering exceptional customer service and technical expertise that truly makes a difference. Our TotalCare Program is specifically designed to empower you to achieve production goals across the entire manufacturing continuum. By choosing MMT, you're not just selecting a service, you're partnering with a team that is committed to your success.

Proudly Offering Customer Service and Technical Support in Major Global Markets

As a global leader in catheter, wire, and abrasive technology solutions, MMT offers an integrated partnership approach to customers. TotalCare by MMT combines application expertise and technical solutions with extensive service and support to ensure you receive reliable and dynamic solutions to optimize your manufacturing processes.

End-to-End Service & Support

Designed to lower the total cost of ownership and reduce downtime, we provide the following options to support uninterrupted operations.

24/7 Support

MMT's dedicated technical staff is on standby 24/7, ready to jump into action should your equipment encounter issues. You can rest assured that expert assistance is always just a call away to minimize downtime and keep your operations running smoothly.

Customer Portal Access

Easily open cases, request service, and effortlessly track your case history all in one convenient place. Accessing our portal ensures a seamless, efficient customer experience.

Annual / Bi-Annual System Evaluation Health Check

Our teams perform a thorough preventative health check on each piece of equipment, customized to its specific requirements. As we carefully inspect every machine, our aim is to ensure they operate at peak efficiency. This helps maintain smooth operations and reduces the risk of unexpected downtime.

On-Site Field Service Labor

Maintain peak performance and reliability for your equipment. MMT's dedicated on-site field service support assures timely repairs, precise calibrations, and a full range of essential services.

On-Site Training

MMT's on-site training is tailored to meet your specific staff needs. Training programs are customized based on your unique requirements and are typically conducted during the annual or bi-annual health check.

FAT / SAT

Factory Acceptance Tests (FAT) and Site Acceptance Tests (SAT) are offered at discounted rates for new machine acceptance testing. The testing can be conducted at either the customer's site or MMT's site, based on customer preference.

System Commissioning

System commissioning is provided at no extra cost when you purchase a service contract with your new machine.

Process & Application Development

Process and application development support is included in customer contracts for a specified duration each year. This ensures you receive the assistance you need as your project requirements evolve.

Inventory Management

Service contract coverage includes replacement parts and essential spares at no extra cost. Discounts are also available on consumables.

Flexible Billing Plans

Billing for service contracts occurs at a frequency convenient to you—monthly, quarterly, annually, or all at once.



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