



Perryman company

Forge & Fabrication

Contract Manufacturing:

- ◆ PLASTICS MACHINING
- ◆ METALS MACHINING
- ◆ FORGING



Surface Texturing | Finishing Operations | Cleaning & Packaging | Quality & Validation

FDA Registered Facility • ISO 13485: 2003 • AS9100-C • ISO 9001: 2008



Perryman's investments in state-of-the-art equipment and processes have enabled us to remain a leader in plastics and metals machining, as well as forging. We supply high-precision products with dependable results.

Perryman Company

is a trusted, fully-integrated, worldwide supplier of specialty titanium products. From melting to finishing, Perryman produces titanium bar, coil, fine wire, net shapes and hot-rolled products to support the needs of the aerospace, medical, consumer, industrial and recreational markets.



Plastics Machining

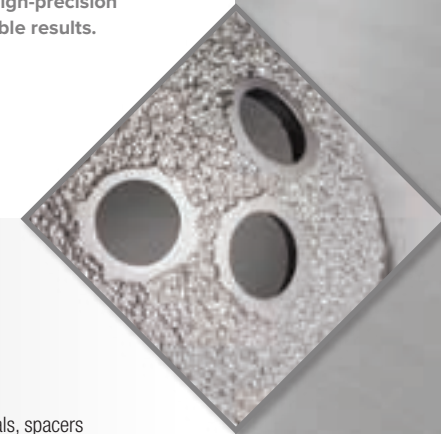
- Dedicated manufacturing area
- Value stream for precision machined plastic implants, trials and instruments
- Unique cutting solutions to enhance surface finish and productivity
- Unique work holding solutions that enhance geometric stability, reduce setups and improve throughput
- 5 axis machining and mill/turn solutions
- Excellent surface finish

Materials:

UHMWPE, Acetal, Radel, Ultem 1000, PEEK, carbon reinforced PEEK

Product Types:

Hip—Liners, shells, head trials, spacers
Knee—Inserts, spacers, patellas, instruments
Spinal—PEEK rods and interbody devices, plates, artificial disc replacements
Shoulder—Glenoids
Extremities—Ankle liners, toes



Surface Texturing

- Chemtex® surface treatment offers texture while minimizing the possible sources of stress. This subtractive process produces radiused features with no sharp corners and there is no risk to full or partial detachment
- Chemtex creates a macro-texture on an implant that provides a robust bonding surface that promotes osseointegration
- Can be applied to complex surfaces
- For the past two decades, our patented Chemtex surface has been used on over 200,000 implants

Perryman Forge & Fabrication

is a high-quality contract manufacturer offering forging of metals and fabrication of plastics and metals. We specialize in meeting our customers' growing needs with creative solutions, cost-saving design for manufacture services and superior products. From trials to implants and inserts to proprietary surface finishes, we provide on-time delivery and exceptional results.



Metals Machining

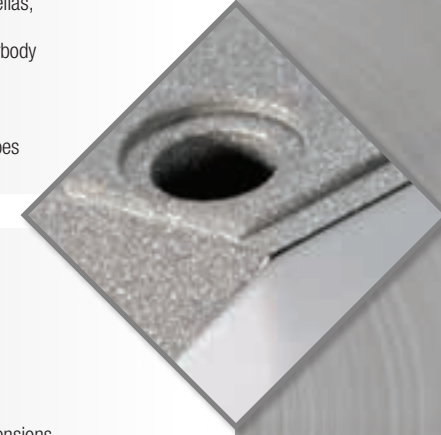
- Dedicated manufacturing area
- Common machine platform provides robust and flexible manufacturing capacity and validation
- Advanced mill/turn machines
- Robot gantry loaded dual spindle milling lathe
- Advanced high-speed milling capabilities
- 5 axis machining—vertical and horizontal mills

Materials:

Titanium, cobalt chrome, stainless steel, aluminum

Product Types:

Hip—Shells, stems, heads
Knee—Tibial trays, stem extensions, wedges and spacers, patellas, uni trays and spacers
Spinal—Interbody devices, plates, cages, hooks, crosslinks, total disc replacements
Shoulder—Humoral implants
Extremities—Ankles, toes, fingers



Finishing Operations

- In-house polishing and color buffing enhances product performance and meets the needs of the most stringent visual requirements
- Vibratory finishing yields a consistent burr-free matte finish
- Abrasive media blasting

Perryman: Putting the Customer First

For more than 25 years, Perryman Company has built a reputation upon using the right resources to deliver the best possible products to our customers. In a fast-paced world, we know that relationships based on reliability are essential to meet customers' unique needs. Reliability is at the forefront of our manufacturing operations because we recognize that the success of your business is a reflection on our own.



Forging

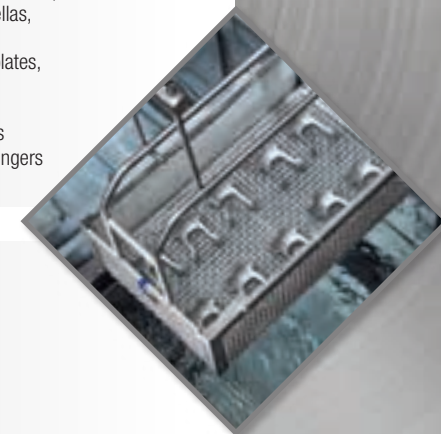
- Advanced technology provides globally competitive position
- Automated robotic acetabular forging cell
- Validated annealing and heat treating
- Full metallurgical lab capabilities
- Supported by in-house tool and die manufacturing
- Low cost modular tooling designs

Materials:

Titanium, cobalt chrome

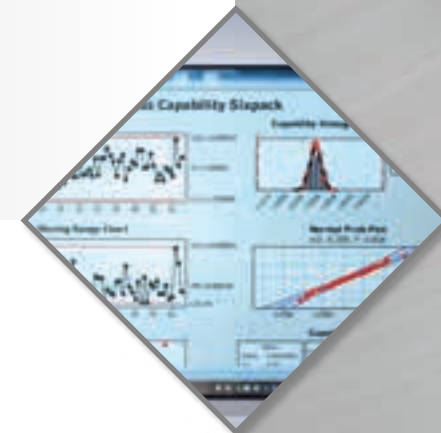
Product Types:

Acetabular shells, modular hip stem bodies



Cleaning & Packaging

- Cleaning lines are equipped with ultrasonic and chemical cleaning automated stations that guarantee implants' microbiological safety before sterilization
- Validated cleaning lines with gantry loaders
- Nitrogen air drying ensures cleaner parts versus compressed air
- Shrink wrap and bag seal capability within an ISO class 7 environment

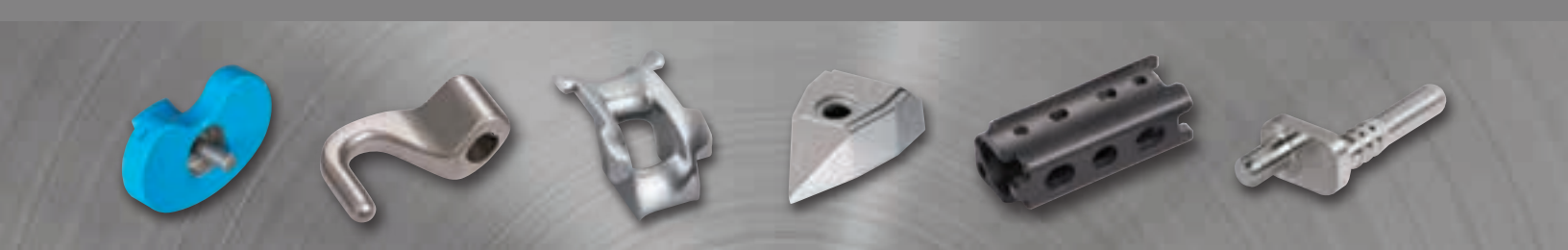


Quality & Validation

- Extensive process validation experience: IQ (Installation Qualification), OQ (Operational Qualification), PQ (Performance Qualification)
- Certified black belts on staff
- Common CMM platform—with excellent machine-to-CMM ratio

Perryman produces precision-machined spinal implants using years of experience with spine fusion geometry for both titanium and PEEK implants.





Contract Manufacturing Products

Capabilities	Materials	Product Portfolio
<ul style="list-style-type: none"> • Turn milling machine centers and lathes • Milling machines – 4 and 5 axis • Forge presses • Laser marking • Clean room – ISO class 7 • Mitutoyo Coordinate Measuring Machines (CMM) • Optical comparators 14" and 30" • SmartScope • Polyethylene processing • Chemtex surface texturing • Wire EDM 	<p>Plastics</p> <ul style="list-style-type: none"> • UHMWPE • Acetal • Radel • Ultem 1000 • PEEK • Carbon reinforced PEEK <p>Metals</p> <ul style="list-style-type: none"> • Titanium • Cobalt chrome • Stainless steel • Aluminum 	<p>Hips</p> <ul style="list-style-type: none"> • Acetabular liners and trials • Acetabular shells – machined or forged • Modular sleeves – machined or forged • Femoral head trials • Chemtex surface texturing • Hip stems <p>Knees</p> <ul style="list-style-type: none"> • Tibia inserts and trials • Patella inserts and trials • Wedge implants and trials • Stem extension implants and trials • Metal tibias <p>Spine and Trauma</p> <ul style="list-style-type: none"> • Plates • Hooks • Cages • Interbody devices • Total disc replacement <p>Upper Extremities</p> <ul style="list-style-type: none"> • Glenoid implants and trials • Humeral stem implants



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