

General Contact

Prairie West Design, Inc.
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Qualifications

Cage Code: 9FR96
UEI: JVRVS7J6J4L1
Duns: 11-8922894
SBA Veteran Owned Small Business
Employees: 5
Facility: 10,600 square feet
Entity: S Corporation
Registration: Colorado

Primary NAICS Code

332710: Machine Shops

Secondary NAICS Codes

Component Manufacturing:
327991, 332721, 332722, 332812,
332912, 332913, 332919, 332996,
332999, 333514, 333515, 339910,
339930, 339999

Device Manufacturing:
333414, 333511, 333912, 333992,
334516, 334517, 334519

Machinery Manufacturing:
333111, 333112, 333132, 333241,
333243, 333244, 333248, 333249,
333310, 333413, 333517, 333519,
333618, 333914, 333922, 333993,
333998, 333999

Design Services:
541330, 541340, 541420, 541512,
541690, 541715

Company

Founded in 2019, Prairie West Design, Inc. (PWD) is a design engineering and advanced manufacturing company. As an agile, innovative small business, we have consistently added equipment and capability. Since 2019 we tripled the size of our clean, well maintained facility. Our customer base ranges from start-ups to Fortune 500 companies and government laboratories.

Our goal is to establish and maintain an outstanding record as a supplier. All of our automation customers are repeat customers.

Fabrication

We do CNC milling, multi-axis CNC turning, laser engraving, laser micro-welding, die cutting, and 3d printing, along with conventional manual machining and many secondary operations. We program CAM in Esprit. We produce in volumes from prototype to production. The materials we use include aluminums, plain steels, hardened and tool steels, stainless steels, plastics, copper alloys, nickel alloys, precious metals, stone, and ceramics. We assemble products, systems, and machinery. We also fabricate control cabinets and program industrial controls.

Design Services

We have expertise in the design of plastic parts, mechanical systems, custom automation equipment, and industrial controls. We design in SolidWorks and Rhino3D. We have designed and built custom automation equipment for assembly, winding, resistance welding, paper converting, and packaging. We have designed products and sensors for wet, harsh, outdoors, and harsh chemical environments.

Systems and Quality

We have systems and procedures in place to handle CUI per NARA requirements, and to handle data per NIST 800-171. Our quality system is compliant with ISO10012.

Differentiator

We stand out by fabricating and delivering difficult or complex designs out of difficult materials. We are eager to take on new challenges, learn new methods, and implement new processes.

Past Performance

We are a supplier for DOE's Sandia National Laboratories.

Commercial References:

Mr. Teddy Shalon, Founder Waterguru, Inc., Teddy@Waterguru.com
Mr. Brian Horvath, Principal Engineer, MKS Instruments,
Brian.Horvath@mksinst.com

Work Examples

(fabricated in-house except as noted)



Milled Parts

1. Prototype, PVC and POM*
2. Prototypes, PVC and HDPE*
3. Injection mold, aluminum*
4. Engraving fixture, aluminum*
5. Contact, electrode copper**
6. Machine part: tool steel*
7. Feature rich miniature parts, stainless**



Commercial Product Design (externally fabricated)

- Snap-assembled submerged swimming pool chemistry test cassette
1. Complete assembly with test strip. *
 2. Internal divider, ASA*
 3. Mechanical drive components, POM*
 4. Back housing, ASA*
 5. Front housing, ASA*



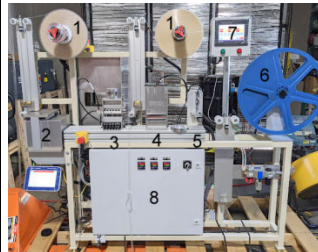
Turned Parts

1. Feature knobs, stainless*
2. Annular Cutter, hardened tool steel**
3. Annealing nests, hardened tool steel**
4. Pulley, POM*
5. Automation parts, electrode copper *
6. Automation parts, stainless*
7. Gun-drilled feature rich shafts, stainless*
8. Miniature shafts with features, stainless



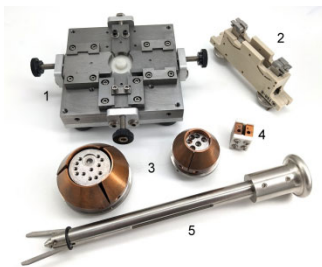
Snap-assembled submerged colorimeter

1. Cassette seating area, ASA
2. Mechanical drive, POM
3. Color sensor, Mixed
4. Temperature sensor, epoxy and ASA
5. Flow-through port with filter, ASA



Custom Packaging Machine

- Produces chemical test strips sealed in moisture resistant film
1. Film feed stations *
 2. Thermal transfer printer**
 3. Test strips feed and tack station*
 4. Heat seal station*
 5. Web index station*
 6. Finished product take-up station*
 7. HMI**
 8. Industrial controls*



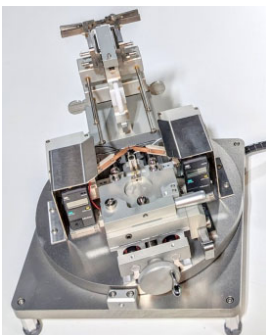
Small Assemblies and Fixtures

1. Forming fixture, Plain steel, aluminum, and POM*
2. Resistance weld fixture, PEEK and stainless**
3. Annealing Fixture, electrode copper, tool steel, and stainless**
4. Sintering Fixture, Macor ceramic, copper, and stainless**
5. Grasper, stainless*



Custom Assembly Machines

- Sensor wound wire cage assembly machine
1. Expanding mandrel on quick change base*
 2. Rotating axis with zero point holder*
 3. Wire feed on translating axis*
 4. Resistance weld head on translating axis**



Stepping motor driven resistance welding fixture with digital position readouts, multiple materials*



Medical device assembly machine (feeds and inserts two components into a housing)

1. Housing nest*
2. Vibratory bowl feeder**
3. Gravity hopper feeder*
4. Housing clamp*
5. Industrial controls with HMI*