



## Injection Mold Design & Build

### Full Product Solutions

At US Precision Mold our goal is to accommodate our customers needs by offering injection mold design, manufacturing and first shot capabilities. From production to custom tooling our toolmakers strive to produce the highest quality products in every aspect.

Located in the picturesque foothills of Arvada, Colorado, our company is close to all the major highways offering access to the best outdoor recreation including golfing, skiing, hiking and mountain biking to name a few.

USPM has a 6500 square foot modern manufacturing facility. Through the years our core team has stayed in the Arvada, Colorado area helping build a strong reputation and relationships with local companies.

USPM offers mold design and DFM services to help optimize your injection mold and give you the best value for your budget.

Our manufacturing facility features 100% in house turn around capability including CAD/CAM specialists, CNC, Wire and Sinker EDM, welding, grinding, polishing and delivery.

We also incorporate a great deal of technology trying to stay ahead of the curve including a new, real time, time/material MRP system and a precision 3R production pallet system.

Our complete commitment to quality and customer satisfaction are carried through the entire company on all of our products.



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INJECTION MOLD DESIGN, BUILD AND SAMPLE

**75+ Years Injection Mold Experience**

**High Tolerance Precision Machining**

**Repair and Maintenance Department**

**Wire and Sinker EDM**

**Full CAD/CAM Solutions**



**“Quality in Every Aspect”**



## FACILITIES LIST MANUFACTURING EQUIPMENT

<u>Equipment</u>	<u>Size and Capacity</u>
2005 Doosan REV051P CNC Mill	Vertical CNC machining center with 43X20 travel and 24 position tool changer, 2500 LB capacity
2005 Fadal VMC4525 CNC Mill	Vertical CNC Machining center with 45X25X36 travel, 24 position tool changing station, 4000 LB capacity
2001 Matsuura MC 550VG CNC Mill	High speed, high tolerance, vertical CNC machining center with 30 position tool changing station, used for hard steel machining
2002 OKK DGM400	Graphite machine 22X16X16 travel, with Torit dust collection system
1996 Mitsubishi V35F EDM	CNC sinker EDM with Fuzzy Logic and 16 position tool changing station, allowing for long periods of unattended run time
2005 Mitsubishi EA30E EDM	CNC sinker EDM featuring a 24 position tool changer and a 48" X 33.5" X 17.1" work tank for large mold burn capability
1994 Agiecut 320 MMD	CNC wire EDM with 26X16X16 travel
Joemars JM325D EDM	EDM drilling station for hole popping
3R Dyna Fix Pallet & Macro Magnum	6 station production pallet system that allow for off-line part set-up time, repeatability and on pallet inspection
Surface Grinders	Mitsui Seiki 16X32, 2 Okamoto 6X18, 2 Harig 6X18
Manual Milling and Lathe Stations	4 Bridgeport mills with DRO and Monarch manual lathe
Hupco Furnace	Heat treat furnace for small scale in-house heat treating.
Miller Micro Welder	Micro welder equipped with Intelli Tig 4 micro processor arc controller and high power microscope
Overhead Crane Systems	2 overhead, gantry type crane systems for large size capacity and capability (3 Ton & 2 Ton)
Inspection Equipment	OPG Bench Top 50X magnification, OPG Smartscope MVP150 with coaxial surface illumination and video capture 240X magnification

## ENGINEERING SOFTWARE CAPABILITIES

<u>Package</u>	<u>Description</u>
Pro/ENGINEER 2001, Wildfire IV with Manufacturing	3-Dimensional solid modeling Computer Aided Drafting (CAD) software that allowing for our engineering department to read and manipulate customer files, design molds, analyze and pull electrodes set-up, etc.
2009 SolidWorks	Putting the focus on design by simplifying the 3D design process, SolidWorks helps users become more productive.
Powermill by DELCAM	Powermill is one of the upper level Computer Aided Manufacturing (CAM) packages offered by DELCAM. Powermill is an extremely powerful 3-dimensional CAM package that allows our engineers to create complex, high tolerance machined surfaces.
GibbsCAM - Lathe, Mill, & Wire EDM	Gibbs CAM software allows for our programming staff to develop quick and programs keeping the production floor running as efficiently and mistake free as possible.
CADKEY, KUBOTEK KeyCreator	CADKEY 3-dimensional design and surfacing software is used by our engineers, tool makers and machinists. Often used to design quick parts, the software is also a key element in our manufacturing verification standards to help avoid errors.
AutoCAD	AutoCAD software was the industry standard for years and USPM continues to keep a license, allowing us to be versatile in our capabilities.

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