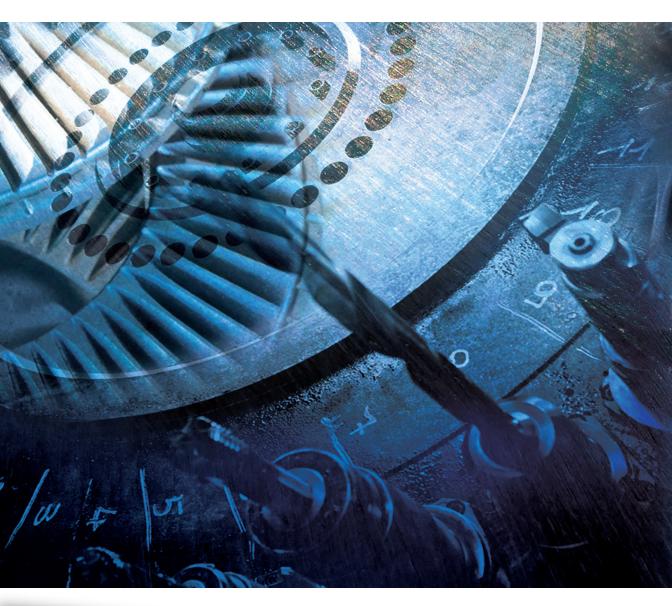
# JSP Mold

Expertise in design and manufacturing of complex metal parts and assemblies





# SOLUTIONS

MATERIALS EXPERTISE EQUIPMENT ABOUT

> JSP Mold's background is in the design and manufacture of aluminum tools used in the steam chest molding of expanded polymers to produce automotive components, packaging parts and consumer items.

> We now offer these design and manufacturing capabilities in an à la carte selection of CAD / CAM, machining and short run production services. JSPM serves companies and engineers requiring either stand alone CAD / CAM capabilities or the full service manufacture of high performance metal and synthetic parts, components and assemblies on a custom basis.

> We work with a variety of common metals and synthetic materials. In addition to smaller piece sizes, we also possess the capability and capacity to work with larger parts. For example, our largest X-axis is a gantry mill with 145" travel.

Our services encompass these general capabilities:

- CAD / CAM programming
- Prototypes
- Custom parts, components and assemblies
- Short run manufacturing in metals and synthetic materials
- Assembly, packing and shipping



We work with many machine metals, with special experience and expertise in the following types:

- Aluminum
  - 5000 Series Cast Aluminum Billet
  - 6061
  - 2024
- Stainless Steel

- 303

- 304
- 400 Series
- Brass
- Bearing Bronze
- Synthetics
  - REN
  - Teflon
  - Nylon

Ask us about your requirements in other metals.



SOLUTIONS MATERIALS **EXPERTISE** EQUIPMENT ABOUT

JSP Mold provides expertise in engineering and develops designs using CAD and CAM software for prototype and production machining.

We are proficient in the application of the following software:

#### CAD DESIGN, NC & CMM SOFTWARE

**Unigraphics NX7.5** A completely integrated platform for design and manufacturing

Delcam PowerInspect

For CMM inspections and reverse engineering

#### FILE TRANSLATION / READING CAPABILITY

Delcam PS Exchange

- Step
- Pro E
- IGES
- Catia
- Ideas
- Rhino

- Inventor
- Parasolid
- SolidEdge
- Solid Works
- SpaceClaim

## **INSPECTION CAPABILITIES**

### Romer Cimcore Infinite Arm Model 5028

Measuring Envelope:	42" diameter
Point Tolerance:	.029″
Length Tolerance:	.041″

#### **CMM** Inspection

We offer 3<sup>rd</sup> party full CMM parts certification.





In addition to all standard machining tools, our machining capabilities include large and highly specialized milling and shaping equipment.

#### MACHINING CAPACITIES

40T & 50T Vertical Machining Center Travels

X:	84″
Y:	32″
Z:	30"

#### 40T Bridge Mill Machining Travels

X:	100
Y:	80″
Z:	28″

#### 40T High Speed Gantry Mill Machining Travels

X:	145″
Y:	61"
Z:	11″

#### 30T Five-Axis High Speed Router Travels

X:	124
Y:	67"
Z:	24″

## **CNC** Lathe Specifications

Controlled Axis:	2
Spindle Diameter:	3.94″
Spindle Bore:	2.44″
Swing Over Bed:	21.65"
Swing Over Slide:	15.75″
X Axis Travel:	7.28″
Z Axis Travel:	20.47"

# SOLUTIONS MATERIALS EXPERTISE EQUIPMENT ABOUT

JSP Mold LLC is located approximately 100 miles west of Chicago in Milledgeville, Illinois, and serves industrial, manufacturing, engineering and equipment builders in the Upper Midwest and beyond.

The company was established as Moldmaster in 1975, and was incorporated in 1996 as a subsidiary of JSP International Group Ltd., North America's premier producer of expanded polypropylene molded products for automotive, packaging and other specialty applications.

Today, JSP Mold offers its custom design and manufacturing expertise to all industrial and manufacturing customers for whom high performance and exacting standards in metal design, prototyping, machining, short run production and manufacturing services add value.

#### Please contact us at:

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