

All 71 parts and tools shown on jec-mold.com, grouped by category. Photographs are of JEC Mold's own work.

Automotive Parts (12)

Injection molded automotive parts built from tools that hold their form across a full production run

- Automotive Air Handling Housing — ref Automobile part 1 — Deep-ribbed black housing with a large circular bore and integrated ducting, molded as one piece.
- Automotive Interior Trim Bezel — ref Automobile Part 10 — Slim black bezel frame with a molded-in clip rail and a Class-A visible face.
- Automotive Intake Manifold — ref Automobile Part 11 — Long black manifold body with plenum, runner ports and bolt flanges in a single molding.
- Automotive Air Filter Housing — ref Automobile Part 12 — Ribbed black housing shell with sealing lip and mounting bosses around the perimeter.
- Automotive Headlamp Housing — ref Automobile Part 2 — Black headlamp housing with twin reflector bowls, connector apertures and adjuster pockets.
- Automotive Lamp Housing with Reflector Cavities — ref Automobile Part 3 — Angular lamp body combining dark structure with light reflector zones in one tool.
- Automotive Coolant Expansion Tank — ref Automobile Part 4 — Translucent tank body with a filler neck, level-readable wall and molded mounting feet.
- Automotive Tail Lamp Lens — ref Automobile Part 5 — Two-color lens with a clear light-guide section blended into a deep red signal section.
- Automotive HVAC Air Vent Register — ref Automobile Part 6 — Black vent register with twin circular barrels, louvre frame and a ducted rear body.
- Automotive Under Hood Bracket Assembly — ref Automobile Part 7 — Wide structural bracket with a corrugated conduit run and molded-in retaining clips.
- Automotive Speaker Grille Cover — ref Automobile Part 8 — Flat cover panel with a fine perforated acoustic field and snap-fit edge features.
- Automotive Mirror Cap — ref Automobile Part 9 — High-gloss curved mirror cap with a clean unbroken Class-A outer surface.

Die Casting Parts (5)

Aluminum die casting tooling and cast components for structural housings brackets and bases

- Die Cast Aluminum Rotor Disc — ref Die Casting Part1 — Cast aluminum disc with radial lugs, a bored hub face and an integral side arm.
- Die Cast Aluminum Support Bracket — ref Die Casting Part2 — Slender cast arm pair with machined pivot bosses and a ribbed spine.
- Die Cast Housing Block — ref Die Casting Part3 — Rectangular cast housing with an open cavity, twin bores and mounting lugs.
- Die Cast Aluminum Five Star Chair Base — ref Die Casting Part4 — Polished five-arm base casting with castor sockets and a central column bore.
- Die Cast Aluminum Gearbox Housing — ref Die Casting Part5 — Complex cast housing with

bearing bores, a sealing flange and a full bolt pattern.

Home & Office Appliance Parts (9)

Large thin wall appliance housings covers and panels molded to a consistent visible finish

- Transparent Blender Jug — ref OA Part 1 — Clear jug body with a molded handle, pour lip and internal measure ribs.
- White Appliance Top Cover — ref OA Part 2 — Smooth white cover shell with a recessed control pocket and a clean parting line.
- Office Equipment Top Cover with Media Slot — ref OA Part 3 — Dark grey curved cover with a full-width media slot and a molded latch rail.
- Appliance Front Grille Panel — ref OA Part 4 — White frame panel carrying a fine louvre grille and snap features on both ends.
- Appliance Curved Handle Cover — ref OA Part 5 — Long curved white cover with a sweeping Class-A face and hidden fixing bosses.
- Vented Appliance Housing — ref OA Part 6 — White housing shell with a circular top aperture and a molded ventilation louvre bank.
- Appliance Chassis Base Panel — ref OA Part 7 — Large flat light-grey base panel with stiffening ribs and multiple mounting pads.
- Appliance Internal Frame Rail — ref OA Part 8 — Black internal rail with a dense array of bosses, ribs and cable-routing features.
- Appliance Handle Housing — ref OA Part 9 — Elongated dark housing with a central aperture and a soft-radius grip profile.

Medical Parts (9)

Clear and thin wall medical components molded from tools finished to an optical cavity standard

- Clear Medical Optical Cover — ref Medical Part 1 — Optically clear V-profile cover with polished surfaces on both faces.
- Transparent Medical Cassette Housing — ref Medical Part 2 — Clear rectangular cassette with internal dividing ribs and a stepped sealing edge.
- Blue Medical Connector Cap — ref Medical Part 3 — Conical cap with an internally threaded bore and an external grip knurl.
- Medical Valve Body with Tethered Cap — ref Medical Part 4 — Clear valve body with side ports and a living-hinge tethered closure cap.
- Medical Port Fitting with Tethered Cap — ref Medical Part 5 — Port fitting with a stepped sealing face and a tethered cap on a molded strap.
- Blue Transparent Filter Chamber — ref Medical Part 6 — Tinted transparent chamber with a threaded neck and an integral inlet spigot.
- Medical Filter Insert — ref Medical Part 7 — Frosted conical insert with fine longitudinal slots molded through the wall.
- Clear Medical Seal Component — ref Medical Part 8 — Thin-wall clear component with a raised sealing bead and an internal channel form.
- Clear Diagnostic Cuvette Block — ref Medical Part 9 — Multi-chamber clear block with flat

optical windows and stepped locating features.

Mold Components (9)

Precision cavity plates core inserts and machined components cut ground and inspected in house

- Polished Cavity Insert for Automotive Trim — ref Mold Component 1 — Machined and polished insert carrying a long automotive trim form with sharp shut-offs.
- Cavity Plate for Appliance Panel — ref Mold Component 2 — Large cavity plate with a deep panel form, guide bores and a full cooling pattern.
- Mold Plate with Lamp Housing Cavity — ref Mold Component 3 — Plate carrying a curved lamp housing cavity with slide pockets and ejector bores.
- Precision Core Insert Block — ref Mold Component 4 — Tall machined core block with stepped faces, deep slots and interlocking shut-offs.
- CNC Machined Mold Inserts — ref Mold Component 5 — Set of inserts on the machine table, cut in one clamping for form accuracy.
- Multi Cavity Plate for Oval Parts — ref Mold Component 6 — Cavity plate with a row of oval cavities and a balanced runner layout.
- Cavity Plate Under CMM Inspection — ref Mold Component 7 — Cavity plate on the CMM with a probe measuring the circular cavity pattern.
- Two Cavity Mold Plate for Bowl Shaped Parts — ref Mold Component 8 — Two-cavity plate with deep bowl forms and mirror-finished cavity walls.
- Mirror Polished Two Cavity Plate — ref Mold Component 9 — Two-cavity plate finished to a mirror polish across the full molding surface.

Pipe & Tube Parts (9)

Molded connectors manifolds and fittings for fluid circuits that have to seal every time

- Barbed Pipe Connector with Mounting Bracket — ref Pipe&Tube 1 — Barbed spigot connector with an integrated flat mounting bracket and clip.
- Plastic Tee Pipe Connector — ref Pipe&Tube 2 — Three-way tee with barbed ends and molded O-ring seats.
- Plastic Pipe Manifold Housing — ref Pipe&Tube 3 — Multi-port manifold body with a large central bore and several branch spigots.
- Angled Barbed Pipe Fitting — ref Pipe&Tube 4 — Angled fitting with deep-barbed run ends and a raised branch spigot.
- Threaded Pipe Elbow Body — ref Pipe&Tube 5 — Elbow body with an external thread, a retaining collar and a molded inspection window.
- Y Type Pipe Connector — ref Pipe&Tube 6 — Y connector with three externally threaded ports on a symmetrical split.
- 45 Degree Pipe Elbow with Flange — ref Pipe&Tube 7 — 45-degree elbow with a flanged base and a molded-in identification panel.
- Multi Port Valve Housing — ref Pipe&Tube 8 — Compact valve housing with several spigots and a molded actuator interface.
- Compact Multi Port Connector — ref Pipe&Tube 9 — Small multi-port connector with barbed

outlets on three axes.

Plastic Injection Molds (12)

Complete engineering molds designed built tried and documented for export production

- Precision Mold Insert Set — ref Precision Mold part 1 — Group of machined cavity and core blocks finished ready for fitting.
- Precision Core Pins and Slide Inserts — ref Precision Mold part 2 — Array of slender core pins, blades and slide inserts ground to size.
- Injection Mold Mounted in Molding Machine — ref z Plastic Mold 1 — Mold clamped in the molding machine during trial, with the platen and tie bars visible.
- Injection Mold with Hydraulic Core Pulls — ref z Plastic Mold 2 — Mold in the machine with hydraulic couplings feeding the core-pull cylinders.
- Two Plate Injection Mold — ref z Plastic Mold 3 — Two-plate mold opened on the bench showing cavity and core sides together.
- Multi Cavity Injection Mold with Lifters — ref z Plastic Mold 4 — Opened mold with several cavities, lifters and a balanced runner layout.
- Large Two Cavity Injection Mold — ref z Plastic Mold 5 — Large opened mold with two deep cavities and heavy guide pillars.
- Injection Mold with Cooling Circuit Manifolds — ref z Plastic Mold 6 — Mold on the bench with cooling manifolds and color-coded circuit hoses fitted.
- Injection Mold with Multi Circuit Water Manifolds — ref z Plastic Mold 7 — Mold fitted with several independent water circuits routed through side manifolds.
- Slide Action Injection Mold — ref z Plastic Mold 8 — Long mold with side slides and a multi-cavity layout set up on the bench.
- Injection Mold Assembly on Assembly Bench — ref z Plastic Part 10 — Mold assembly under final fitting, with plates and inserts laid up for build.
- Large Injection Mold Ready for Trial — ref z Plastic Part 9 — Large mold staged on the shop floor ahead of its trial in the molding machine.

Two-Shot (2K) Parts (6)

Two shot and over molded parts where two materials have to meet on a line you can see

- Two Shot Ribbed Panel — ref 2K Part 1 — Curved panel combining a rigid frame with a ribbed contrast surface in one tool.
- Two Shot Handheld Terminal Housing — ref 2K Parts 2 — Handheld terminal front housing molded in a yellow shell with a black keypad frame.
- Two Shot Handheld Device Enclosure — ref 2K Parts 3 — Front and rear enclosure halves molded with hard and soft zones in register.
- Two Shot Power Tool Handle — ref 2K Parts 4 — Power tool handle with a rigid core and an over-molded soft grip.
- Two Shot Keypad Housing — ref 2K Parts 5 — Keypad housing with contrast key fields molded into the front shell.
- Two Shot Scanner Grip Housing — ref 2K Parts 6 — Scanner grip housing with a rigid body and

an over-molded contrast grip.

Notes

Dimensions, resin grade, cavity count and tolerances are project data and are confirmed in the quotation.
Send 3D part data, the resin, the expected annual volume and your mold standard to eddy.liu@jec-mold.com
for a professional quotation within 2 working days.