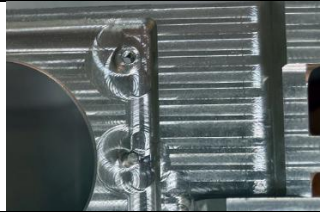
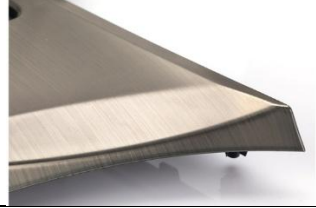


Surface Finishing

Images	Finishing	Description	Applicable Materials	Machining Color	Surface Texture
	As-machined	The standard finish for our parts, the “as machined” finish, has a surface roughness of 3.2μm (126μin), which removes sharp edges and deburs parts cleanly.	All materials	n/a	Stain
	Bead Blasting	Bead blasting is the process of powerfully propelling, generally with high pressure, a stream of blast media against a surface to remove unwanted coating layers and surface impurities.	Aluminum, Steel, Stainless Steel, Brass, Copper	n/a	Matte
	Anodizing	Keeping our parts in the long term, our anodizing process resists corrosion and wear. It's also an ideal surface treatment for painting and priming, and it looks great too.	Aluminum	Clear, black, grey, red, blue, gold	Smooth, matte finish
	Electroplating	Electroplated coating preserves the surface of parts and resists rusts and other defects from causing decay by applying electric currents to reduce metal cations.	Aluminum, steel, stainless steel	Gold, silver, nickel, copper, brass	Smooth, glossy finish
	Polishing	Ranging from Ra 0.8~Ra0.1, polishing processes use an abrasive material to rub the part's surface to make the shine more less shiny, depending on your requirements.	All materials	n/a	Smooth, glossy finish

	Powder Coating	Using corona discharge, we make the powder coating adsorbed to the part, creating a more wear-resistant layer with a typical thickness ranging from 50µm up to 150µm.	All metal materials	Custom	Glossy
	Brushing	Brushing is a surface treatment process in which abrasive belts are used to draw traces on the surface of a material, usually for aesthetic purposes.	ABS, Aluminum, Brass, Stainless Steel, Steel	n/a	Satin
	Painting	Painting involves spraying a layer of paint onto the surface of the part. Colors can be matched to a Pantone color number of the customer's choosing, while finishes range from matte to gloss and metallic.	Aluminum, Stainless Steel, Steel	Custom	Gloss, semi-gloss, flat, metallic, textured
	Black Oxide	Black oxide is a conversion coating similar to Alodine that is used for steel and stainless steel. It is used mainly for appearance and for mild corrosion resistance.	Steel, Stainless Steel	Black	Smooth, matte
	Alodine	Chromate conversion coating, more commonly known by its brand name Alodine, is a chemical coating that passivates and protects aluminum from corrosion. It is also used as a base layer before priming and painting parts.	Aluminum	Clear, Gold	Same as before
	Part Marking Pad Printing	Part marking is a cost-effective way to add logos or custom lettering to your designs and is often used for custom part tagging during full-scale production.	All materials	Custom	n/a

n/a	Deburring	Mechanical surface treatment, which involves removing burrs, flashings, oxide scales through physical means, or improving surface roughness and glossiness.	All materials	n/a	Smooth, glossy
n/a	Grinding	Mechanical surface treatment involves using tools such as grinding wheels and sandpapers to grind the surface. This method is suitable for flat or regular surfaces.	All materials	n/a	Smooth, glossy
n/a	Tumbling	Mechanical surface treatment: Place the workpiece together with the abrasive material into the drum, and through rolling friction, remove burrs and chamfers. This method is suitable for small-batch parts.	All materials	n/a	Smooth, glossy
n/a	Degreasing	Remove the oil, cutting fluid, fingerprints and other dirt from the surface of the workpiece to provide a clean base for subsequent pickling and passivation processes.	All metal materials	Same as materials	n/a
n/a	Pickling Brite dip (brass)	Use acid solution to dissolve the oxide scale, weld spots, rust layer, etc. on the surface, exposing the clean metal substrate.	Aluminum, Steel, Stainless Steel, Brass, Copper	n/a	n/a
n/a	Passivation (Stainless steel) Chemical conversion (Aluminum)	A dense oxide film is formed on the clean metal surface (such as the chromium-rich film on stainless steel), which isolates the air and moisture and enhances the corrosion resistance.	Aluminum, Steel, Stainless Steel, Brass, Copper	n/a	n/a