



Intersecting Art and Anodizing

Editors Note: Last month, Light Metal Age had the opportunity to tour P.K. Selective Metal Plating, Inc. in Santa Clara, CA, and speak to founder and owner Peter Kellett about P.K. Selective's creative blending of finishing technology and art.

The lobby of P.K. Selective can only be described as an ar gallery. Examples of the company's multi-colorfyplash anodizing process adorn every wall and display case, including clocks, vases, picture frames, to be considered to the control of the color post (Figure 1). Peter Kellet's office, just off the main lobby, hosts even more pieces, including the bulk of his famous multicolor and citized a luminum Fender guitars.



Figure 1. Multicolor/splash anodizing applied to a toaster and coffee

Rock and Roll Meets Anodizing Tech

There is no better example of the unique intersection of at and anodizing than Peter Kellett's collector's edition Fender guitate (Figure 2). Kellest started his relationship with Fender guitate (Figure 2). Kellest started his relationship with Fender Fender's wood guitate. When he realized that they were a great medium for experimentation, he wrote to Fender to see if they were interested in his evolving splash process. They sent him 20 pick guards to multicoler anodize, and when they whole guitate, which he engraved and multicolor anodized whole guitate, which he engraved and multicolor anodized a



Figure 2. Three of the collector's edition Fender multicolor anodized guitars by Peter Kellett.

The guiter was a hit and Fender rating up confug Kaller meet han 5g aignate for multicodersplash andiding. Today, Richel Kalleris dasigns are featured on the cover of Fender's custom shop book, and the 50-60 collector's editions can sell for upwards of \$20,000. (Jay Leno reportedly paid \$5,000 for a Hardys-thened alluminam guitar). To this day, Kellert still amedizes all of Fender's pick guards, and even designs his relative to the state of th



Figure 3. Kellett's Fender gultar room

A Look at the Plant

Tacked into an industrial zone in Santa Clara, bordering the Mireta/San Jose International airport, P.K. Selective evolved from very humble beginnings. As a 23-yaer-old college dropout, Kellet started the business in 1976 in his parents' Sammyade garage, with a single plastic garbage can for alcoldring, and the assistance of a rentel bead blaster. Today, the company is situated in over 25,000 square feet of shop spec in two warehouses, with more than 16,000 amps of resemble of the company of the

The company prides itself on its successes in three specific areas: hardcoat anodizing, cosmetic anodizing, and multi-color/splash anodizing. Despite the attention garnered by the Fender guitars, 90% of PK. Selective's business is still generated from the industrial sector. The constant flow of jobs through the plant include components for the semi-conductor

industry, such as robotic arms, aerospace industry equipment, motorcycle parts, stereo and undio equipment such as speakers, amps, and recording industry control panels, medical implements like saves and reamers, and parts for eelectic products like wheelchairs, hung gliders, and preghancy tests. In location in the Silicon Valley supports the company's company to the control on the Silicon Valley supports the company's create the most sophisticated cosmetic anodizing system for both local and international testsomer.

Anodizing in Action

A tour through the heart of PK. Selective begins in the packaging/racking area, where the frames of dozens of pain-ball guns are hung, waiting to be splash anodized to customer specifications. The paintball guns, Kellett explains, are a staple of the business. In the late 1980s, a customer asked for a couple of paintball guns to be camouflaged for effect, and when another customer approached Kellett with a desire for when another customer approached Kellett with a desire for the fielding splash anodizing process. Some of gunstelled the wild-looking finish caught on, and the paintball market continues to be a buse customer based.

From the packaging/racking area, a door leads to the main anodizing facility (Figure 4). Nine large anodizing tanks line the length of the warehouse. P.K. Selective offers Type II and Type III hardcoat anodizing, in clear, black, and bright colors, and can customize jobs between the two types without changing tanks, utilizing a sophisticated system. Specialized rectifiers with an inductance bank fitted onto them are controlled by a pulsing system with a unique programmable controller. The system can vary the concentrations of hybrid chemical additives that go into the tanks for different processes, and by changing the temperature and the amps and volts used for a job, it allows Type II and Type III anodizing to be performed in the same tank. Chillers keep the tanks at a constant temperature. The tanks are 12-13 years old and maintained in great condition. The company maintains redundant systems in order to compensate for repairs, maintenance, or large-capacity jobs.



Figure 4. A view of the anodizing tanks inside P.K. Selective's ware-

A quick walk to another warehouse reveals the polishing toom, with even more paintfull gun components waiting to be limished. The sealed polishing facility is surprisingly clean, and Kellet motes that specialized dates forcibly blow clean, and Kellet motes that specialized dates forcibly blow both to the control of the



Figure 5. Peter Kellett's anodized art blends technology and imagina-

Here, the powder coating and painting is performed, while another room yields up the multicolor department, where sike screening, multicolor/splash color, and precision masking activities are housed. Examples of Kellett's aluminum artwork adorn the walls and table, including his very first mutlicolor anodized aluminum "canvas."

Looking Ahead

Kellett is starting to focus more intently on the art potential of his company (Figure 5). As the conomy has worsened, he has had to downstee from 150 employees maning the shop 24 during more standard basiness hours. The looming likelihood of major contracts being taken overseas has prompted Kellett to focus on expanding his expertise on an international level, as well. Current projects include anodized aluminum boxes (that the contract of th

On an even grander scale, Kellett's vision has him looking skyward, towards the opportunity of getting his anodized aluminum art into space. If there is going to be art in space eventually, he says, anodized aluminum is the ideal medium, since it is not only lightweight, but can be built-in as part of the construction of a shattle or space station. The options of says are supposed to the construction of a shattle or space station. The options of space of this art into space. "That day," he says, "wall be the highlight of my business careor."

And he may well be on his way. Some of NASA's traditional anodizing needs are already served by the company. In the meantime, Peter Kellett and P.K. Selective will continue to focus on providing customer service for all kinds of jobs, great and small, industrial and artistic, locally and internationally, continuing to broaden its niche in the anodizing market.