



# Forged Wheels

## **APP Forged Wheels & Center Discs**

Aluminum Precision Products, Inc. (APP) began operations in 1965 servicing the aerospace and defense industries. From early on, APP established itself as a leader in closed and open-die forgings in aluminum and titanium.

In the early 1990's APP began producing forged wheel blanks for FORD, GM and CHRYSLER. By 1998, APP was producing finished 1-piece forged wheels and center discs (for 2-piece and 3-piece modular wheels) for both the automotive and motorcycle aftermarkets.

Today, APP has a range of one-piece wheels in sizes 17", 18", 19", 20", 21", 22" and 23" in both conventional lip profile as well as the new European flat-face configuration for both street and motorsports applications. Plus, we produce modular wheel center discs that range in size from 15" through 26" as well as motorcycle wheel blanks in a variety of sizes for domestic as well as Asian and European fitments.

## **APP Forged Wheels are distributed throughout the world.**

In Europe, our exclusive distributor is our affiliate company APP Tech Srl that machines and finishes wheels for the elite high end automotive market. Our OEM customers include Artega, Aston Martin, Brembo, Ferrari, Lamborghini, Mercedes AMG, and Pagani and our automotive tuners include Carlsson, Sportec, and RUFF with all aftermarket through AEZ Leichtmetal.

## **Why forged?**

The forging process uses high pressure and temperature to change the non-directional grain structure of the highest quality, 6061 cast aluminum alloy, starting material to the high integrity multi-directional grain structure of forgings. The aluminum remains solid throughout the process as the forging dies come together and change the shape of the round cast bar to the cylindrical shape of a wheel. This forged blank is then placed in a custom built spin-forging machine to spin out and forge the rim section. The resulting radial grain direction places the highest material strength in the same direction as the operating loads. The result is, "premium strength to weight ratio." Next, CNC lathes and mills are used to achieve the final configuration. By forging the wheel into one piece, we produce a light weight, high strength wheel with no porosity or need for welded or bolted joints.

## **Why APP?**

APP concentrates on smaller forging runs rather than large OEM "one size-one design" runs. APP has invested heavily in a full size and profile range of generic, open tooling available to all customers in the automotive industry. This allows our company to better serve our customers by "customizing" the product to their needs without the large investment in tooling and without a major investment in parts. Our customers now have a multitude of different design possibilities.

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# FORGED ONE PIECE™

Light & Strong Forged Wheels for Road & Track!



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