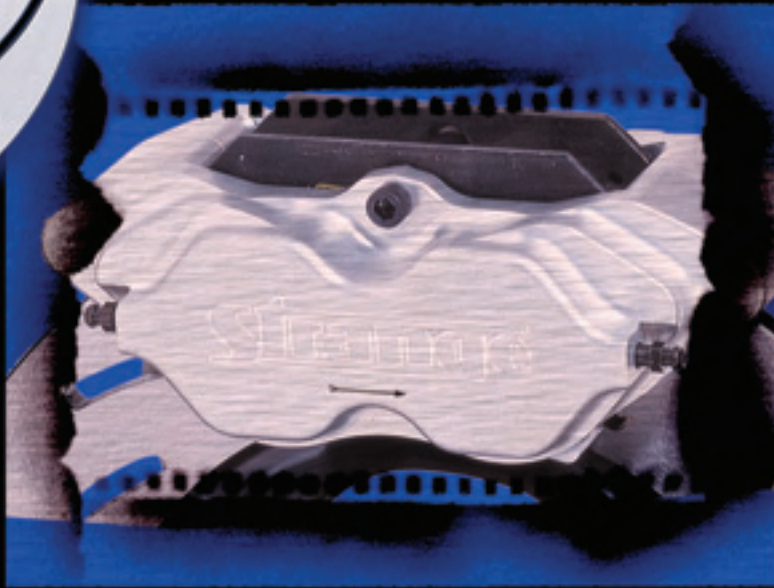


## Strange Pro Race Steel Brake Kits Commonly Asked Questions



**Strange Engineering steel brake kits have been the choice of bracket racers and NHRA & IHRA World Champions for decades.**

**Question:** What is a *directional* caliper and how do I benefit from its use?

**Answer:** A directional caliper is a caliper which features differing piston bore sizes. Directional calipers allow pad loading and wear to be balanced against the natural changing temperatures across the pad face. Coupled with superior Strange caliper bridge bolt strength, the dissimilar piston sizes allow for optimum braking, extraordinary feel, and consistent pad wear.

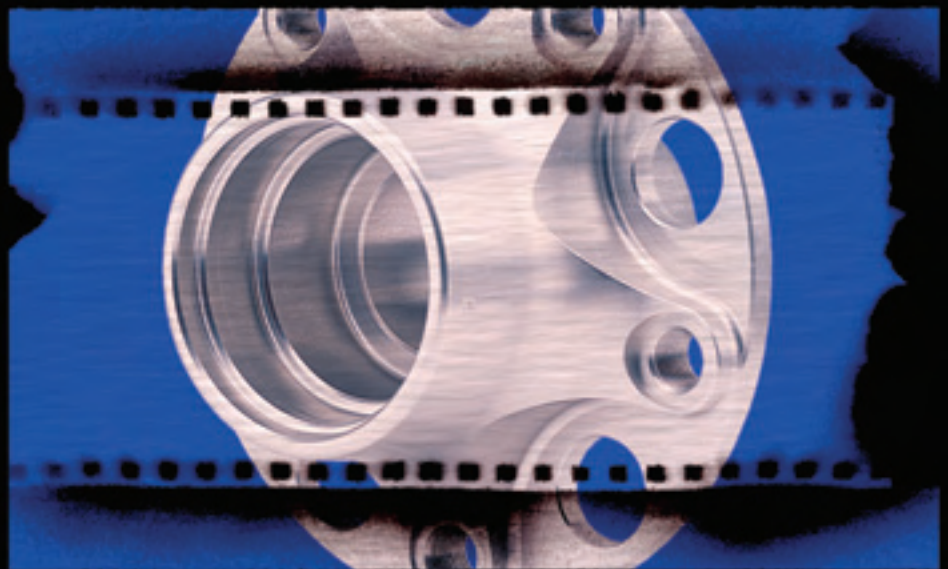
**Question:** Why is Strange the only manufacturer to use a one piece rotor?

**Answer:** The one piece rotor is more expensive to manufacture when compared to 2 pc. rotors (alum. hat/steel rotor). Two piece steel rotors are taken from burn-outs and hats are usually machined from inexpensive aluminum. The two piece design may provide adequate braking, but will not provide optimum braking and durability. The one piece forged steel rotor offers several advantages when compared to two piece designs: (1) Due to the strength of our one piece forged steel rotor, a considerable amount of weight is eliminated in the steel hat area. Aluminum hats are .250" to .500" thick and are not lightened in the side of the hat. The Strange rotor is only .125" thick in the mounting surface and is further lightened with prodigious holes as well as large perforations in the side of the hat area- which provides a stronger and, in most cases, **lighter** rotor than two piece designs. (2) Eliminates mounting screws that conduce binding and require constant torquing and/or cumbersome safety wire. (3) Superior dissipation of heat created by braking- due to one integral design (4) Accommodates several axle bolt circles (5) Can be re-surfaced to eliminate brake pad material build-up.

**Question:** Why are Strange forged steel rotors slotted and directional?

**Answer:** The slots are precisely milled into the rotor surface to create a thermally stable braking surface with an added benefit of reduced rotating weight. The slots location, size, and shape were meticulously selected after field and dyno testing.

The slots provide a thermally stable rotor which vastly reduces distortion and/or warping of the rotor. Even though it would be far less expensive to offer only one slotted rotor, our testing clearly dictated the best slot design and placement required a *rotational shaped* slot; hence- directional rotors. The slot design also minimizes rotational weight. Unlike drilled rotors, the reduction in weight is achieved without sacrificing stability.



**All Strange 4-piston Pro Race front brake kits feature a lightweight billet aluminum hub**