The Anderson Clamp Hub is quickly becoming the new standard in shaft mounting. Its patented technology allows users to carry high torques without any keys or tapers. It can be installed and removed very quickly and easily with only hand tools – heat and hydraulics are not required. Additionally, it can be retrofitted to any type of existing shaft – straight, keyed, hydraulic, tapered, or splined.

### Ideal Applications

- Coupling to shaft
- Fans blades to shaft
- Shaft-mounting gear
- Two clamp hubs together make a solid coupling
- Actuator arms
- Any place a shaft connection is needed

### Anderson Clamp Hub vs. other hubs

<table>
<thead>
<tr>
<th>Keyed Hubs</th>
<th>Hydraulic Hubs</th>
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<tr>
<td>Because of the stresses a keyway causes in a shaft, keyed shafts need to be larger to carry a given torque. The Anderson Clamp Hub means:</td>
<td>Since the Anderson Clamp Hub uses no oil, there are several major advantages over a hydraulic hub. The Anderson Clamp Hub means:</td>
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<tr>
<td>- No key means smaller, less expensive shafts</td>
<td>- Higher coefficient of friction</td>
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<tr>
<td>- Easy axial and angular adjustment</td>
<td>- Higher torque transmission safety factor</td>
</tr>
<tr>
<td>- No torches and no hot work permits needed</td>
<td>- Easy axial adjustment – no shims</td>
</tr>
<tr>
<td>- Better concentricity</td>
<td>- No special equipment needed to install or remove</td>
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<tr>
<td>- Less time for fitting</td>
<td>- No “weep” time before running</td>
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</tbody>
</table>
**HOW DOES IT WORK?**

1. Tighten the load screws by hand.
2. The collar moves axially away from the flange.
3. Asymmetrical threads in the collar force the split inner sleeve inward.
4. The split sleeve securely clamps to the shaft.

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**Answers to Commonly Asked Questions about the Anderson Clamp Hub**

**How do I know when the load screws are tight enough?** As you tighten the screws, the collar will move away from the flange and create a gap. For your desired torque value, CCA will give you the proper gap dimension.

**Do the loading screws loosen during operation?** No, the axial force on the screws is too high. Even if one screw loosened, the remaining screws would become even tighter.

**Does the Anderson Clamp Hub damage the shaft?** No, it is designed to stay well within yielding stresses of the shaft.

**What if I can't remove it by unloading the screws?** Sometimes, the collar will resist sliding off the tapered threads. CCA has designed pulling features into the hub if needed.

**How can CCA retrofit a keyed shaft?** Very simply: Put a half key in the keyway, and then the Anderson Clamp Hub clamps on to the shaft without collapsing the empty keyway.

**How can the Anderson Clamp Hub have axial freedom on a tapered shaft?** A split bushing with an internal taper and an external cylindrical surface is placed on the tapered shaft. The hub clamps on to the outside of the bushing.
Anderson Clamp Hub Applications

OEM Advantage – Manufacturers can save time and money with the Anderson Clamp Hub by reducing machining costs for keyed and tapered shafts. Without the stress added by keyways, shafts can be smaller. Therefore, in addition to the cost advantage, smaller shafts mean smaller seals and less bearing wear. There are even more cost savings when considering the greatly reduced time to fit the hubs.

Coupling to Shaft – The Anderson Clamp Hub is the perfect hub for almost any coupling. While it is the standard at Coupling Corporation of America, other couplings can be retrofitted with the Anderson Clamp Hub.

Solid Coupling – When flexibility is not an issue, a double Anderson Clamp Hub can be a simple shaft-to-shaft connection. It is even adjustable for varying shaft spacing.

Hardware Mounting – The Anderson Clamp Hub can be specially designed to be an integral part of any shaft-mounting hardware and is easily applied to gears and fan blades, and, in many cases, even actuator arms. In any application the ease of axial and angular (phase) placement can be extremely valuable.

Anderson Clamp Hub imbedded in a gear

A double Anderson Clamp Hub as a solid shaft connector

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