



Socket Data Sheet



Consistent grain flow results in a stronger socket. Material stays in the walls through precisely milled raw stock and cold forging.



Spline sockets for aviation are just one of the many specialty sockets available. All are cold forged with HPQ material. Standard issue for Stahlwille.

Stahlwille sockets are different from the rest. These differences provide cost savings due to greater strength, increased durability and dimensional accuracy. If “apples to oranges” is what you need in a new product vs what you are currently using look no further.

Cold Forging = Greater Strength.

Solid billets of HPQ material are hit at room temperature by a hydraulic forge. This cold forging method is just one step in a series of processes that results in sockets with extraordinary strength and consistency. Cold forging and selected alloys keep the wall thickness consistent and the material grain flow vertical. Greater strength and lower breakage rates are the benefit.

Notice in the cut away that the grain flow pattern from cold forging keeps the socket strong in areas where other companies sockets fail. Hot forged sockets, especially in smaller sizes, tend to suffer from weakness where the material flows away from cool thin spots, like walls, and are inconsistent in thickness.

Superior material = Increased Durability.

Stahlwille sockets are forged from special recipe HPQ material. HPQ stands for High Performance Quality. This is material that is specially designed for use on Aerospace Titanium fasteners. Titanium wreaks havoc on standard tools due to the extreme hardness of titanium.

Stahlwille sockets HPQ material is designed to provide greater strength, longer life and since there is no cadmium in Stahlwille HPQ no corrosive effect on titanium fasteners. All this for the cost of a “standard” socket. Realize greater savings by having fewer broken tools, less paperwork, reduced ordering, receiving and warehousing costs. Not to mention reduced down-time in production!

Dimensional Accuracy = Fewer Damaged Fasteners.

Combining tight tolerances and a perfectly vertical profile equal consistent accuracy. When the fasteners in Aerospace cost far more than the tool the cheapest tool is not necessarily the cheapest tool once a few fasteners are “buggered” up.

A dimensionally accurate tool lasts longer, fits better, and costs less than tools whose manufacturing quality is not as precise.

Stable Chrome.

Stahlwille’s unique chrome process applies only the necessary amount of chrome for corrosion protection. Beauty is secondary to function. Precise preparation combined with Stahlwille’s nickle chrome plating process results in a chrome stable condition with exceptional chrome durability.

FOD free, no chrome flake, lifetime consistency.