

# Stainless Steel Couplings Provide Twice the Torque Capacity

MDT Staff



Helical's 17-4PH stainless steel couplings are ideal when high strength, excellent fatigue resistance and high torsional stiffness are called for in an application. Helical is the only company offering a standard product line of beam couplings made of 17-4PH stainless steel. When compared to both 303 stainless steel and 7075-T6 aluminum, 17-4PH provides twice the torque and can operate up to 600° F, which is ideal when used for heavy duty applications such as lead screws, positioning systems, pumps and processing equipment. Helical couplings are machined from a solid piece of material, and when the unique HELI-CAL Flexure is incorporated they can compensate for angular, parallel or skewed misalignment, while providing axial compliance, constant velocity and smooth bearing loads.

Our series of couplings offer the engineer a large range for torque applications, or our engineers can design, develop and produce a custom HELI-CAL Flexure to meet your specific requirements. The W series (metric) from 1.2-39 Nm, the H series has a torque range from 2.4-100 lbin, and the MC series from 40-556 lbin. The MC Series has higher torque capacity and torsional stiffness and has two sets of flexures for increased parallel offset. This makes the MC series a great choice for conveyor systems, and industrial processing equipment where absolute reliability is required. All three series include configurations with reliefs, set screws, or integral clamp attachments.

For more information, visit: [www.Heli-Cal.com](http://www.Heli-Cal.com) [1].

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### **Links:**

[1] <http://www.Heli-Cal.com>