

# Chuck Options for SureTorque Models

The closure gripping is a critical part of your process when testing closure torque. Many variables influence the optimal collet and chuck choices, such as: cost, compatibility with the torque tester model, topload requirements (child resistant closures require topload), type of cap (pump dispenser cap vs. standard vs. child resistant cap), type of testing (measuring thread break only vs. measuring the bridge break of a tamper evident band or testing the reverse ratchet torque of a child resistant closure).

Mesa Laboratories offers a number of different chuck and collet designs for both the Torqo and the SureTorque models. Below is a list summarizing the different chuck options for the SureTorque models and their recommended applications.

	Standard Chuck	Topload Chuck	Floating Chuck	Fatigue Resistant Gripper	Universal 4 Post Cap Gripper
					
Applications	Ideal for testing thread break and seal break torque of CR and non-CR closures	Ideal for thread break, seal break and topload testing of CR and non-CR closures	Ideal for cap tightening, thread break, seal break, and Tamper-Evident Band testing of non-CR closures and reverse ratchet testing of CR closures	Ideal for pump dispenser caps and thread/seal break testing of non-CR closures when the annual cycle count exceeds 150,000.	Ideal for testing Application, Release, Tamper Evident Band Bridge Break, Strip, Fatigue, Non-destructive
Actuation Type	Patented, pneumatic actuation, with spring return function				None, Lever type engagement
Operating Pressure	0-80PSI, Adjustable with pressure regulator (the actual cap gripping pressure is a function of the collet surface and the pressure regulator output)				N/A
Collet Compatibility	Compatible with historical collet design (serrated and molded inserts)			Requires special cap grippers (serrated and molded inserts)	N/A
Change-Over	Tool-less, quick change-over			Using Allen wrench	Tool-less, Slow
Materials of Construction	Clear anodized Aluminum, HDPE ring, Steel spring, Rubber O-rings, Stainless Steel cap, Nickel plated steel collet with polyurethane or acrylic inserts.			Black Anodized Aluminum, Stainless Steel	Black and clear anodized aluminum, acrylic, rubber

Due to the high level of project and product-specific customizations, the compatibility of the chucks/grippers must be evaluated on a case-by-case basis. Please [contact](#) a Mesa representative for compatibility and pricing information.