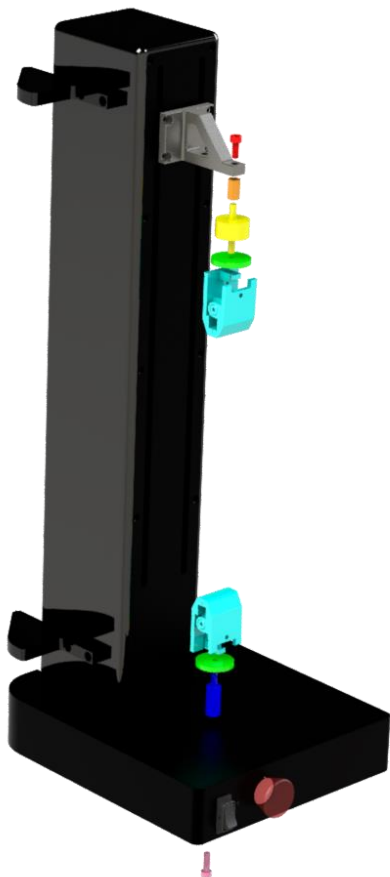


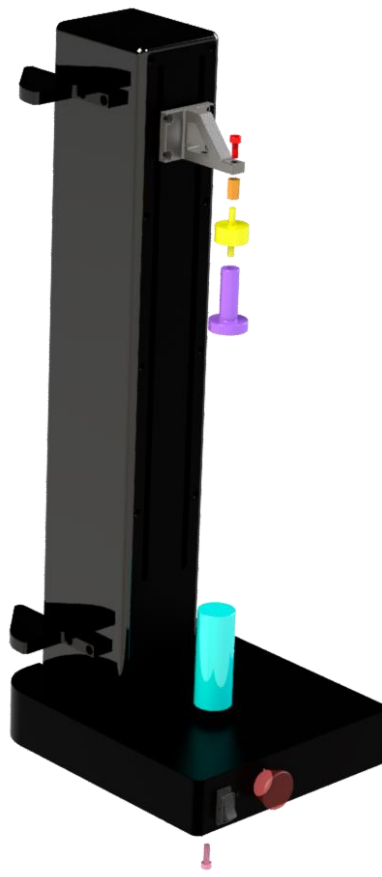
## Vertical Configurations

***Tension Test Setup***



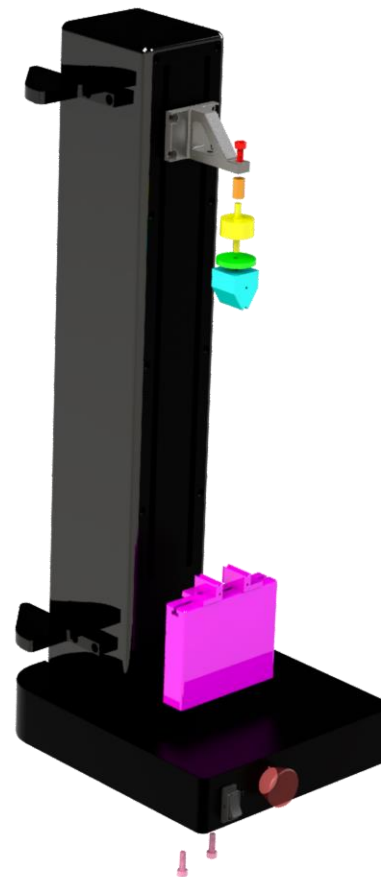
M5x12 SHCS	M5 Standoff
Thumbnut	M5x16 SHCS
Load Cell	
Locking Disc	
Grips	

***Compression Test Setup***



M5x12 SHCS	M5x16 SHCS
Thumbnut	
Load Cell	
Compression Base	
Compression Platen	

***3-Point Bend Test Setup***

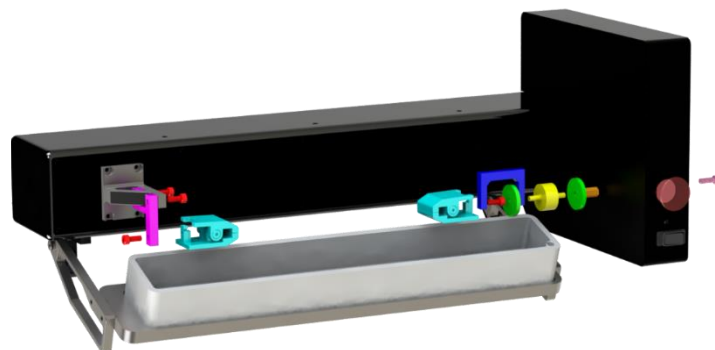


M5x12 SHCS	Bend Rail
Thumbnut	M5x16 SHCS
Load Cell	
Locking Disc	
Bending Block	

## Horizontal Configurations

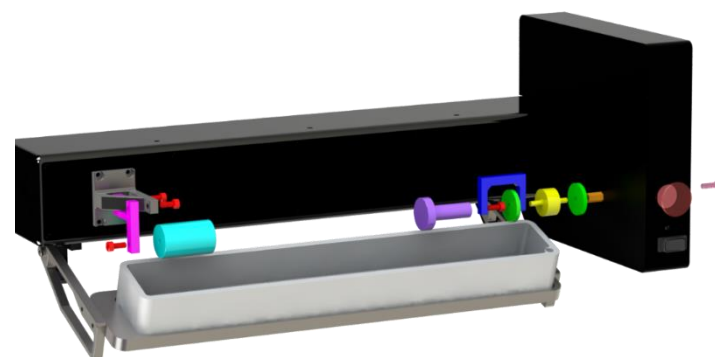
### *Tension Test Set-up*

M5x12 SHCS
Horizontal Bracket
Grips
Tension Load Cell Bracket
Locking Disc
Load Cell
Thumbnut
M5x16 SHCS



### *Compression Test Set-up*

M5x12 SHCS
Horizontal Bracket
Compression Base
Tension Load Cell Bracket
Locking Disc
Load Cell
Thumbnut
M5x16 SHCS
Compression Platen



## UniVert Quick Tips

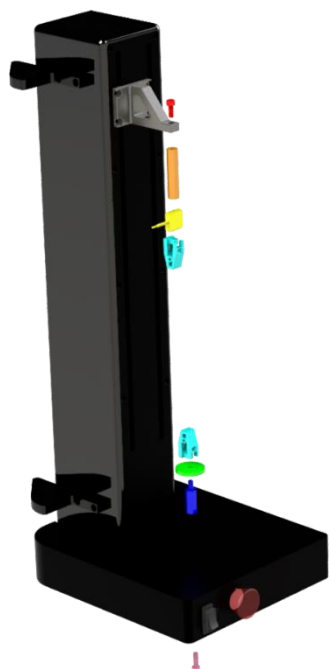
Be aware that **the load cell is NOT reversible**. Be sure that the force-measuring stud faces the specimen and **DO NOT over-tighten** the fasteners on the force measurement side to avoid damaging the load cell. See **Appendix B** in the Users Manual for more details.

When using the Horizontal Bath (optional add-on), be sure that the temperature probe is inserted in the fluid bath and that the fluid bath always contains sufficient fluid levels while the device is powered to avoid overheating.

After attaching the fixtures and orienting the UniVert, be sure to zero (tare) the load cell to achieve a zero force reading before mounting the specimen.

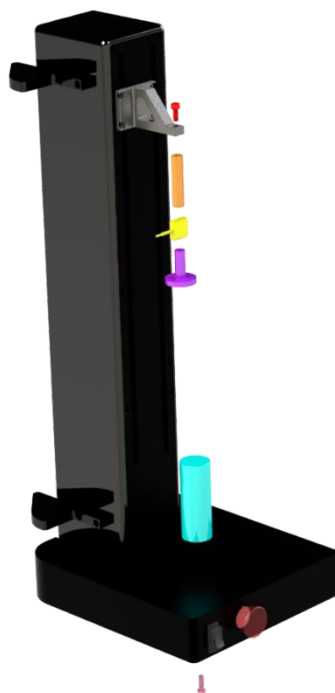
## Low Force Configurations

### Vertical Tension Test Set-up



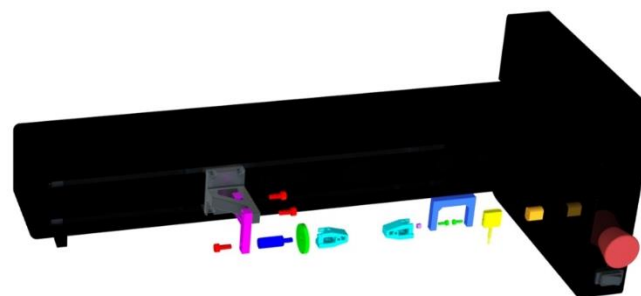
M5x12 SHCS
M5 to M3 Stand Off - Long
Load Cell
Grips
Locking Disc
M5 Standoff
M5x16 SHCS

### Vertical Compression Test Set-up



M5x12 SHCS
M5 to M3 Stand Off - Long
Load Cell
Low Force Compression Platen
Compression Base Riser
M5x16 SHCS

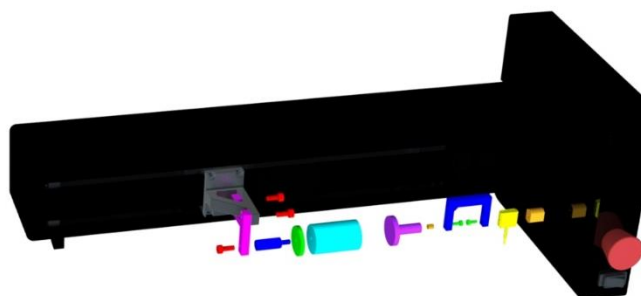
### Horizontal Tension Test Set-up



M5x12 SHCS
Horizontal Bracket

M5 Standoff
Locking Disc
Low Force Grips
M3 Coupling Nut
Plastic M3 Tension LC Bracket
M3x8 SHCS
Load Cell
M5 to M3 Standoff – Short
M5x16 SHCS

### Horizontal Compression Test Set-up



M5x12 SHCS
Horizontal Bracket
M5 Standoff

Locking Disc
Compression Base Riser
Low Force Compression Platen
M3 Coupling Nut
Plastic M3 Tension LC Bracket
M3x8 SHCS
Load Cell
M5 to M3 Standoff – Short
M5x16 SHCS

### UniVert Quick Tips

For test protocols that are entirely below 3mm/s, the UniVert operates in an ultra-smooth, low vibration mode. This is especially beneficial for testing at low forces. Refer to **Appendix H** in the Users Manual for further details.

In vertical configurations, the load cell can be mounted on the base plate rather than the moving end to reduce vibrations and inertia-related loads.