

# Ordering the Sandwich Solution

## Sensors

| Name                             | Comment   | Links  |
|----------------------------------|---|--|
| K3D40-50N<br>3-axis force sensor | Select the +- 50N variant.  | <a href="https://www.me-systeme.de/shop/en/sensors/force-sensors/k3d/k3d403">https://www.me-systeme.de/shop/en/sensors/force-sensors/k3d/k3d403</a>  |
| TRT series<br>Torque sensor      | <p>Select the +-50 lb-in (5.65Nm) variant.</p> <p>The AMX-4 cable is shipped with it stock. However, the AMX-4 has a straight connector head. <b>It is crucial that the AMX-410-90 with a 90 degree connector head is ordered, due to space consumption. That would have to be negotiated with Transducer Techniques.</b></p> | <p><a href="https://www.transducertechniques.com/trt-torque-sensor.aspx">https://www.transducertechniques.com/trt-torque-sensor.aspx</a></p> <p>Cable types:<br/><a href="https://www.transducertechniques.com/mating-assembly-amx.aspx">https://www.transducertechniques.com/mating-assembly-amx.aspx</a></p> |

**Needed screws**

| Name  | Req. p. sensor | Thread    | Length        | Links   |
|---|----------------|-----------|---------------|---|
| 10-32 UNF A2<br>Stainless Steel<br>Countersunk Philips<br>Head Machine Screws<br>(For the TRT-sensor)   | 8              | 10-32 UNF | 1/4" (6.35mm) | <a href="https://www.spaldingfasteners.co.uk/10-32-unf-a2-stainless-steel-countersunk-philips-head-machine-screws/">https://www.spaldingfasteners.co.uk/10-32-unf-a2-stainless-steel-countersunk-philips-head-machine-screws/</a>   |
| M3 Pan Head Machine screws<br>(for K3D40 to linkage connection)   | 4              | M3        | 10mm          | <a href="https://no.rs-online.com/web/p/machine-screws/0198289/">https://no.rs-online.com/web/p/machine-screws/0198289/</a>   |
| M3 Pan Head Machine screws<br>(for locking the linkage)   | 4              | M3        | 8MM           | <a href="https://no.rs-online.com/web/p/socket-screws/3044918/">https://no.rs-online.com/web/p/socket-screws/3044918/</a>   |
| M3 Pan Head Machine screws<br><br>(for mounting the K3D40 sensor system)<br>*optional and depends on how the sensor system is implemented in the snake robot* | 4              | M3        | 14mm          | <a href="https://shop.arvidnilsson.com/nb/bult-mutter-och-bricka/machine-screws/machine-screw-pan-head/mrt-i14583-a4-70-m3x14-t10-115125.html">https://shop.arvidnilsson.com/nb/bult-mutter-och-bricka/machine-screws/machine-screw-pan-head/mrt-i14583-a4-70-m3x14-t10-115125.html</a> |