# SimpleCAT GitHub Information

**Defining the Safe Limit of Compressive Force for**

**Gastrointestinal Organs during Laparoscopic Surgery: a**

**Simple Prototype Device Study**

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# Read Me

All SolidWorks files necessary to manufacture and recreate the SimpleCAT is located on GitHub and is licensed under the MIT Open Source Initiative:

<https://github.com/crushdevice>

Load all part files with the main SolidWorks assembly file “CrushRig.SLDASM”.

# Build of Materials

|  |  |  |
| --- | --- | --- |
| Part | Description | Product Code |
| U-Shaped frame and weight platform | Machined out of 6061 aluminum via hospital machine shop, then anodized after via an external anodizing company | N/A |
| Anodized aluminum guide rails x2 | 12 mm wide guide rail for high temperature sleeve bearing carriage | <https://www.mcmaster.com/9880k12>  McMaster-Carr part 9880K12  120 mm rail length |
| Sleeve bearing carriage x2 | High temperature sleeve bearing carriage for 12 mm wide rail | <https://www.mcmaster.com/9880k2>  McMaster-Carr part 9880K2  For 12 mm wide rail |
| 316 Stainless Steel Socket Head Screw | Thread Size: M3  Thread Pitch: 0.5 mm  Length: 12mm | <https://www.mcmaster.com/92290a117>  McMaster-Carr part 92290A117  Pack of 50 |
| 316 Stainless Steel Hex Nut | Size: M3  Pitch: 0.5 mm  Width: 5.5 mm  Height: 2.4 mm | <https://www.mcmaster.com/94150a325>  McMaster-Carr part 94150A325  Pack of 50 |
| 316 Stainless Steel Pan Head Phillips Screws | Size: M3  Pitch: 0.5 mm  Length: 50 mm | <https://www.mcmaster.com/90116a188>  McMaster-Carr part 90116A188  Pack of 25 |



