**S1** **Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Crushers with disposable vessels | Mode of action\* | Manufacturer / Supplier | Item in Fig. S1 |
| With disposable cups |  |  |  |  |
| **First Crush Automated Pill Crusher Gen2** | $$$$ | Electronic, twist | First Wave Products GroupBatavia NY, USAfirstwaveproducts.com | b |
| **Ocelco Plastic Pillcrusher** | $$ | Lever press | OcelcoBrainerd, MN, USApillcrusher.com | a |
| **Rhino Crush Tablet Crusher** | $$$$ | Lever press | WebstercareLeichhardt NSW, Australiawebstercare.com.au | c |
| With disposable bags |  |  |  |  |
| **Metal handheld pill crusher** | $$ | Lever press | OcelcoBrainerd, MN, USApillcrusher.com | h |
| **MiniTwist Quiet Crusher** | $$ | Twist | Health Care Logistics Inc.Circleville, OHgohcl.com | g |
| **Powdercrush** | $$$$ | Electronic, press | Manrex LtdWinnipeg, MB, Canadapowdercrush.com | f |
| **Roc N Crush** | $$$ | press | Health Care Logistics Inc.Circleville, OHgohcl.com | i |
| **Quiet Crusher** | $$$ | Lever press | Health Care Logistics Inc.Circleville, OHgohcl.com | e |
| **Silent Knight Pill Crusher** | $$$ | Lever press | Links Medical Products Inc.Irvine, CA, USAlinksmed.com | d |
| Crushers without disposable vessels |  |  |  |
| By hand-twisting |  |  |  |  |
| *Serrated flat surface:* |  |  |  |  |
| **Ultra Fine Cut N Crush** | $$ | Twist, internal screw | Apothecary Products Inc.Minneapolis, MN, USAapothecaryproducts.com | j |
| **Crusher with storage** | $ | Twist,external screw | Apothecary Products Inc.Minneapolis, MN, USAapothecaryproducts.com | k |
| **Cut/crush cups** | $ | Twist | Health Care Logistics Inc.Circleville, OHgohcl.com | l |
| **Crushing syringe 60 mL\*** | $ | Twist | Health Care Logistics Inc.Circleville, OHgohcl.com | m |
| *Smooth conical surface:* |  |  |  |  |
| **Ergo-grip tablet crusher** | $ | Twist,external screw | Apothecary Products Inc.Minneapolis, MN, USAapothecaryproducts.com | n |
| **Apex Ultra tri-grip pill crusher** | $ | Twist,external screw | Carex Health BrandsSioux Falls, SD, USAcarex.com | o |
| *Smooth flat surface:* |  |  |  |  |
| **Sabi Crush easy pill smasher** | $$ | Twist, internal screw | Sabi Inc.Palo Alto, CA, USASabi.com | q |
| **Deluxe tablet crusher** | $ | Twist,internal screw | Apothecary Products Inc.Minneapolis, MN, USAapothecaryproducts.com | p |
| *Smooth rounded surface:* |  |  |  |  |
| **Combination crusher/cutter** | $ | Twist, internal screw | Health Care Logistics Inc.Circleville, OHgohcl.com | r |
| **Crushy pill crusher & splitter** | $ | Twist, internal screw | FrancehopitalErstein, Francefrancehopital.com | s |
| Mortar and pestle-like |  |  |  |  |
| **Ball and socket stainless steel tablet pulverizer** | $$$$ | press | Health Care Logistics Inc.Circleville, OHgohcl.com | t |
| **Agate mortar & pestle**34 H x 75 OD (mm) | $$$ | press | # | u |
| **Porcelain mortar & pestle**32 H x 60 OD (mm) | $ | press | # | v |
| **Glass mortar & pestle**60 H x 70 OD (mm) | $$ | press | # | w |
| Blade |  |  |  |  |
| **Vitacarry automatic pill grinder**  | $$$ | Electronic, blade | eNNOVEA LLCColumbus, OH, USAennovealife.com | x |

# mortar and pestles owned by the School of Pharmacy for many years, source could not be determined.