## SPECIFICATIONS: **Features** 1200 max. RPM allows efficient pulverization and homogenization The range of jar materials (Nylon, Alumina, SS, and Agate) offered for various applications Optional for variable speed and forced chilling air cooler One 80 ml Nylon Jar with a set of Zirconia milling balls (4 pcs of 11.5 mm, 10 pcs of 10 mm and 10 pcs of 8mm) are Standard Milling Jars & included. It is suitable for grinding / milling the materials with minimized contamination. One 80 ml Stainless Steel Jar with a set of SS milling balls (20 pcs) are included for achieving a finer particle size. Media (Two Milling Jars are included) 10.01 Attention: Don't use SS jar with ceramic balls. Power Input Single phase 208- 240VAC 50/60Hz For 110V, please order a 750W transformer The power plug is not included for the 220 VAC version. Please click here to order the plug) 300W Motor Power Consumption Oscillation Frequency 1,200 rounds/min (Please see the video below for performance of the jar rotation) Timing Range 0 to 30 minutes for built-in mechanical timer Warning: Running time for the mill should be less than 30 minutes, otherwise the mill may overheat. Maximum Feeding 1/3 of the capacity of the ball milling tank Capacity Feeding Granularity <1mm Discharging Granularity 0.1 micron minimum for certain material (Mainly ceramic material) Note: To achieve finer or desired particles via ball mill is a research project, which is depended on the material to be milled, grinding time and speed, combination of grinding jar and milling ball etc. It is the user's responsibility to find the best milling procedure based on the material. Buyers are welcomed to MTI laboratory at California test before purchase. Noise Level 87dBA (standing at 1ft with the machine lid open and SS milling balls in the jar) **CE** Certified Compliance NRTI certification is available upon request at extra cost Warranty Two years limited warranty for parts with lifetime technical support (after June 1, 2017) Alumina jars are not covered by the warranty. Operation Manual & Video Request More Info Speed Controller Variable speed version (0 - 1200 RPM) by 3 phase motor and speed controller is available at \$800 extra. Click pictures below for details and please select "with speed controller" from the options bar when purchasing. Optional Air Cooling If the user needs to force conditional air cooling for some ductile materials, please click to order a Portable Spot Air Cooling Conditioner, which will keep milling jar temperature low (click picture below). It is a cost-effective way to achieve required particle sizes and production rates for heat sensitive or tough-to-mill materials. Air Cooling Conditioner Test with Nylon Jar Zirconia Balls Milling 30 mins Milling 60mins The temperature of jar without Air Cooling 45°C 65°C Optional jar and grinding balls are available in product options bar (click Pic below to see specs or order spares) SS vacuum jar 50ml alumina jar Alumina balls Application Notes Attention: In order to achieve the best grinding effects, it is suggested to use milling balls with diameter less than 10mm for 50ml alumina jar Tips for choosing proper jars and milling media for milling and grinding application: SS mixing jar is suitable for grinding various metal materials For milling the oxide material, please choose Nylon or alumina/zirconia jar and media Please consider our SYU-3 Ultrasonic Filtration System for filtering the product. DO NOT USE stainless steel balls in Alumina jars or vice versa to avoid contamination. Please use N2 gas if operates inside of glove-box, do not use Ar gas because Ar may cause motor short circuit. Bulk samples must be crushed before grinding. Please consider MTI Jaw crusher ( click pic below right ) Overall Dimensions Mill: 415mm(L) x 365mm(W) x 285mm(H) Speed Controller: 260mm(L) x 170mm(W) x 240mm(H) Net Weight 40 kg (88 lbs) 27"(L) x 23"(W) x 24"(H) Shipping Dimensions

Shipping Weight

135 lbs