














SPECIFICATIONS	
 <p>Features</p>	<ul style="list-style-type: none"> High throughput processing is feasible thanks to the 4-cavity SS jar. Up to 16 different materials can be processed at the same time with 4 jars placed in position. Please click the bottom left image to see details. Bench-top compact design with 4 Grinding Stations. Large touch screen controller allows easy programming for multi-steps speed-up/down milling/grinding, rotate direction, timing control and cycling Efficient grinding benefits from the high centrifugal force and pulverization energy Suitable for mechanical alloying, mixing, homogenizing, pulverizing Minimum output granularity can be as small as 0.1 um
Working Voltage	<ul style="list-style-type: none"> 208 - 240V AC (single phase), 50/60 Hz 220V AC Power plug is not included. Please click here to order the plug. For operation under 110V, please use > 1000W transformer (click here to order)
Max. Power Consumption	550W
Speed	<p>Speed adjustable by tuning the frequency output to the AC motor (principle)</p> <ul style="list-style-type: none"> Revolution: 324 RPM Mixing tank self-rotation: 648 RPM
Speed Ratio	Revolution:Self-rotation = 1:2
Touch Screen Control	 <ul style="list-style-type: none"> Digital display and inputs for speed and time Up to 10 recipes can be stored Max. 5 segments speed control per recipe, up to 10 Cycles Rotation direction selectable, clockwise-anticlockwise
Material Feed Size	Crispy materials< 10mm (Others<3mm)
Material Output Size	<ul style="list-style-type: none"> Wet Milling < 1um average Dry milling < 20um average <p>Note: The output granularity is dependent on the material physical properties such as size, milling media and processing time. Minimum granularity can be as small as 0.1 um according to customer's feedbacks.</p>
Milling Jars	<ul style="list-style-type: none"> Four sets of 4 cavity SS jars (10ml/cavity) with O-ring sealing are included, which can mill 16 samples per batch. Four sets of SS milling ball combo are included. If extra SS balls are needed please click the pic in below to order. Four jar holders can accommodate single cavity jar with size up to 82mm O.D x 80mm H as optional (Pic 4) We provide a wide range of jar/ball materials for contamination-free processes, such as Nylon, Alumina, Zirconia, agate...Please contact us for more details. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>4 cavity SS Jar (included)</p> </div> <div style="text-align: center;">  <p>SS Milling Balls (included)</p> </div> <div style="text-align: center;">  <p>Optional 80mL SS Jar</p> </div> <div style="text-align: center;">  <p>Optional 100ml SS Jar</p> </div> <div style="text-align: center;">  <p>100ml Alumina jar</p> </div> </div>
Noise Level	55-70 decibel
Holding Fixtures	 <ul style="list-style-type: none"> Four sets of holding fixtures are included Easy to tight for max. jar securing. Can hold jars with height up to 80mm
Warranty	<ul style="list-style-type: none"> One-year limited warranty with lifetime support Consumable parts, such as milling jar and grinding balls are not covered by the warranty
Compliance	<ul style="list-style-type: none"> CE Certified NRTL certification is available at extra cost
Production Dimensions & Weight	 <ul style="list-style-type: none"> 500mm(L) x 350mm(W) x 330mm(H) 60KG
Operation Manual and Video	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  <p>Click to Watch Video</p> <p>Holding Fixture Video</p> </div> <div style="text-align: center;">  <p>Click to Watch Video</p> <p>Operation Video</p> </div> <div style="text-align: center;">  <p>Request More Info</p> </div> </div>
Application Notes	 <ul style="list-style-type: none"> SS304 mixing jar is suitable for grinding various metal materials For milling the oxide material, please choose alumina/Nylon jars and zirconia media. DO NOT USE stainless steel balls in Alumina jars. Must place 4 jars or 2 in symmetrical with similar weight in the ball mill to keep balance during rotation, If using one jar, you must put another jar with the same weight in symmetrical position. Otherwise, unbalance rotation, especially one jar, may damage the machine. Please consider our SYU-3 Ultrasonic Filtration System for filtering the product Please click underline to learn Centrifugal Force calculation.
Shipping Dimensions	30"(L) x 28"(W) x 26"(H)
Shipping Weight	200 lbs