

DRAVYA SHAKTI MECHANOCHEM PRIVATE LIMITED

ECOTYPE Specification Data	
Model	EcoType Alpha
Applications	Pulverizing, Homogenizing, Colloidal milling, Mechanical alloying, Amorphisation ,Mixing
Grinding material	Dry or Wet (Soft, Fibrous, Hard, Brittle)
Material feed size	<10 mm (Less than 10 Millimeter)
Final fineness	<500 nm (<0.5µm)
No. of Grinding Jar	2 Nos.(2 samples simultaneously)
Grinding Jar Volume (Each)	50 ml , 125 ml, 250 ml, 500 ml
Grinding Jar Casing	Stainless Steel - SS316
Grinding Jar Liner Material	Tungsten Carbide (WC-Co), Ytria stabilized Zirconia (YSZ), Hardened/Tempered steel, Stainless Steel (SS316), Sintered Alumina
Gasket Ring	Silicon O-Ring for gas proof, dust proof and leak proof operation
Ball Diameter	5mm, 8mm, 10mm, 12mm,15mm, 20mm
Jar Speed (Customizable)	0-1250 RPM
Sun wheel speed (customizable)	0-600 RPM
Sun wheel diameter	180 mm
G-force* /Force Field	up to 70g
Transmission ratio	The transmission ratio is variable to infinite possibilities with clockwise and anti-clockwise directions: 1:-2, 1:-2.5, 1:-3 or any can be achieved within the above jar or sunwheel speed range.
Plane of rotation	Planetary action of Jars with vertical plane of rotation and revolution
Axis of rotation	Axis of rotation and revolution are horizontal
Spin	Able to give same transmission ratio at both spin directions (clockwise & anti-clockwise) with respect to gyration arm
Gas Purging Facility (GPF: Optional)	For controlled atmosphere/ inert grinding
GTM System (Gas Pressure & Temperature Monitoring)	Real time monitoring and logging of pressure and temperature data, for all above mentioned liner materials jar
Coupled GTM with GPF (Optional)	Unique combination to control grindings under wide range of atmospheric ambience and pressure conditions
Power Supply	3-Phase /440V/50Hz
Power consumption	~ 3000 W
W x H x D closed (mm)	700 x 825 x 720
Net Weight	
Operating Parameter Control	
Set Grinding time / Set Interval operation /Set Interval time /Set Pause time /Set Protection code / Energy consumption Meter	Yes
Programmable Operating Time & Spin control	Programmable touch display mounted on machine to control Run, Pause time (hh:mm:ss) with option of spin direction reversal in alternate cycles, up to 99:99 hh:mm. Program retains current operation settings in case of power failure and has an option of resuming it from where it was interrupted.
COMPUTER INTERFACE	Optional
Data Capture & Control (OPTIONAL)	RS 232/ RS 485/ USB (Optional), Suitable GUI with data logging and programming the process parameters
IoT enabled	Optional
Programming Features	<ul style="list-style-type: none"> Supervisor Restricted Access Password control Up-to 10 individual users Up-to 5 materials & balls information for individual users Electromechanical failure reset/memory operation Virtually Infinite transmission ratio
SAFETY FEATURES	
Safety Machine Cover	Mild steel housing with cover closing and opening for user protection & safety
Door Lock / Door open prevention	Mechanical lock / Auto off - when door is open
USER-SPECIFIC CUSTOMISATION	
Mechanical	<ul style="list-style-type: none"> Jars can be customised internally for any specific need / requirement (Parabolic / Ellipsoidal) Wheel spin can be bi-directional (β-Model / range) Temperature module in each jar Pressure module in each jar Temperature & Pressure can be measured over internet

Manufacturing Unit

Sai Complex, Wazirpur Road, Faridabad,
Haryana (India) PIN -121002



+91-9628124000



www.dravyashakti.in