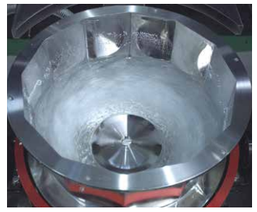
Easy Maintenance

Easy Cleaning in Just a Minute

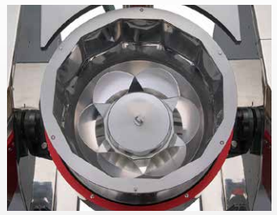


After Gathering water, the high-speed disc spins; create a vortex; that cleans the tub in just a minute. Adding hot water or detergent increases its effectiveness.

Easy Drainage in a Few Seconds

ECXPs has a dumping mechanism and open top tub for users to easily drain dust and detergents then check for any remains in seconds. After draining, the tub is then lightly scrubbed and is ready for the next batch.

Stainless Steel and Urethane Bowls for Different Uses



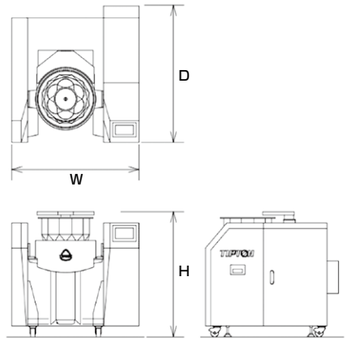
Stainless Steel Drum and Disc

Its ease of cleaning and disinfection is hygienic as it stops discoloration and breading of bacteria. The inner tub has a sanitary buffed surface to stop sticking making ECX-Ps perfect for the medical and food industries.

Urethane Drum and Disc

Urethane rubber has high durability when processing with abrasive powders for grinding/polishing. Also, Its low adhesivity prevents sticking and sedimentation; perfect for mass finishing and base chemical production.

■Specifications



Model	Size	Weight	Capacity
ECX40Ps	W1250×D1300 ×H1200mm	約800kg	約15L
ECX200Ps	W1800×D1600 ×H1450mm	約1500kg	約80L

●The specifications of machines may be changed for improvement without prior notice.
●Custom Specifications are available upon request.

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24/06

A device for powder mixing, granulation and refinement

TIPTON

[pi:z]

ECXPs

Mixing, granulation and refining for powders, all in one device

Patent No.4740419 No.5603808

Made in Japan

Case Study

Granulation

Making small grains to big grains.

Revolving Granulation

The particles in the base powder bond and expand in a process similar to a rolling snowball.

- Sphericalizes
- Consistent particle diameter
- Density Consolidation

Agitation Granulation

Its Agitating (stirring) power agglomerates (clumps) the powder together.

- Consistent Particle Diameter
- Adjusts densities

ECX Ps

Spherical Particle Sizing

Sphericalizes Irregularly Shaped Particles to Consistent Sizes

Granulation

Its vortex flow continuously collides a countless number of particles in all directions to create a smooth shape.

- Consistent Particle Diameter
- Surface Smoothening

Coating

Coating particles.

Spray Coating

Coating agents are highly refined and stick better the stick evenly to the surface.

- Uniform coating

Polishing

Perfect for precise polishing with agents/media under 1mm in diameter

Dry Barrelling (Polishing)

It agitates work with micro media and polishing agents with <1mm Diameter for precise surface finishing.

- Polishes every nook and cranny by using highly fine powders
- Achieves a super mirror finish <0.005μm

Features

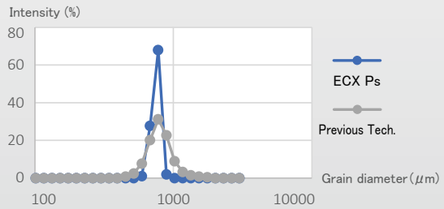
Higher Sphericity (Revolving Granulation)

Aspect Ratio

*Aspect Ratio: compares the longest and shortest diameters. 1=perfect sphere.

Sharp particle Distribution

Standard Deviation

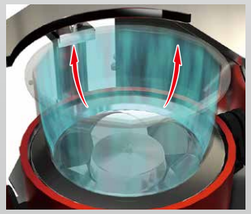


Previous Tech. 157.4 | ECX Ps 90.7

Patent5603808

Can Process Grains Under 1mm in Size

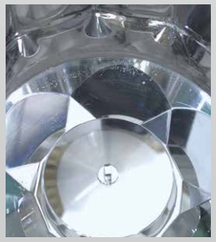
Narrow Gap and Air Flow



There is only a miniscule gap between the rotating disc and drum. From this gap, there is a continual flow of air which stops base powders and fine media from falling.

Base Powders don't Stick

A brilliant shape that reduces the loss of base powders.



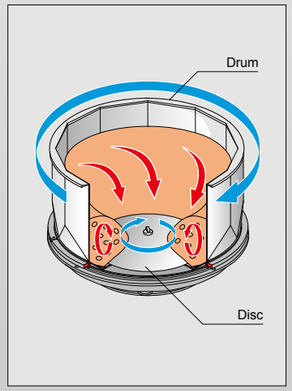
Its original, brilliant shape features multiple, concave planes that increases its vortex flow strength and form. At the same time, the centrifugal force from its vortex flow shears particles inside the pan and reduces sticking to its sides. Its lack of convex planes stops unwanted sedimentation.

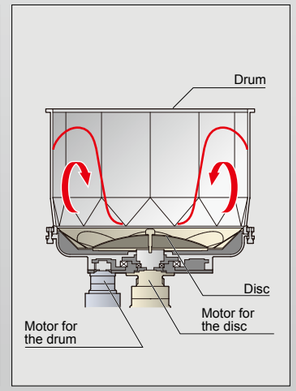
Principle of Flow

Patent4740419

Its multispin tech supports super light and highly refined particles.

Its brilliant disc stops sticking





The centrifugal force of high RPM spinning disc forces particles into the sides then the inner wall of the drum forces the particles up.

The particles risen to the top, drop to the bottom then return to the center of the disc. This is repeated and creates vortex.

The vortex's flow does not weaken when revolving lightly particles at low speeds; the drum rotating in the opposite direction of the disc causes flow resistance, making the flowing strength of the vortex even stronger.