

Spec.

ECXPS		ECX	
High-Grade		Standard	
Model	ECX40Ps	ECX200Ps	ECX40T
Pieces of size	0mm~		2mm~
Capacity	40L	200L	40L
Processing capacity	5~15L	50~70L	5~15L
Foot print	W1250×D1300×H1200mm	W1800×D1600×H1450mm	W860×D550×H950mm
Weight	800Kg	1500Kg	200Kg
Drum material	SUS (Buffing) or Abrasion resistant polyurethane		SUS (Buffing)
Dimensions			

● Product specifications are subject to change without notice. ● Custom specifications are available upon request.
 ● CE and UL specifications, and GMP specifications for pharmaceuticals are available upon request. ● Auxiliary equipment available.

Testing facility

We have set up trial production rooms in the following two locations.
 Please feel free to contact us.

- ▶ **Head Office** 3-19-21 Toyoda, Minami-Ku, Nagoya, Aichi Prefecture
457-8566 Japan
- ▶ **Detroit Office** 28317 Beck Road Suite E-14 Wixom, MI USA 48393



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VEGETABLE
OIL INK
This catalog is printed using
environment-friendly vegetable ink.

25/03/A

For granulation, coating, sizing, and mixing.

ECX Series



For
granulation, mixing,
and coating particles!



For
coating particles!

**The strong stirring power
by the multi-spin structure provide doubles productivity.**

Patent

JP3425536 JP4740419 JP5603808 W02023047529 JP2024-114243

Made in Japan

The powerful vortex flow that is created by the multi-spin and uniquely shaped disc doubles productivity, reduces material loss and ensures a quality finish.

Uniquely developed multi-spin and brilliant discs generate powerful spiral-like vortex flow.

Processing using this powerful vortex flow reduces processing time by half and reduces material loss. It also creates a more even finish.

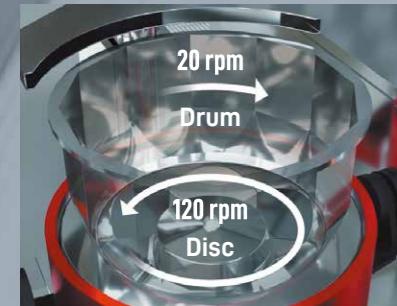
Furthermore, since the top of the device is open, it is easy to automate with other processes.

Upon request, Tipton can customize design to specification to prevent contamination.

Principle



Multi-spin



Suitable for fine and lightweight particles!

The disc and drum are independent, and the rotation direction and rotation speed can be controlled separately. By setting the disc to rotate to the left and the drum to rotate to the right, the agitation power increases and even fine particles and lightweight materials can be processed without difficulty. Also, because it spreads quickly, it saves time and makes the finish more uniform.

Patent | JP4740419



Brilliant disc



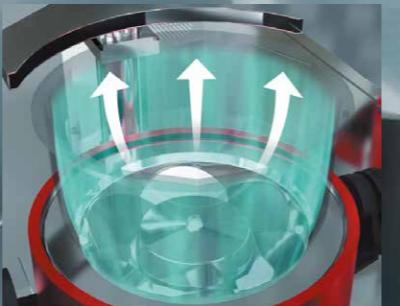
Minimize ingredient waste

The unique brilliant shape composed of polyhedrons further enhances the vortex flow. The pieces are stirred and centrifugally pushed against the drum wall where excessive coating falls and reincorporated back into the mix thereby reducing waste. Since there is no mixing blade, the recipe will be delicately incorporated.

Patent | JP3425536



Narrow gap and air flow



Powder particles smaller than 1mm can also be processed.

There is a gap between the rotating disc and drum where a continuous flow of air is blown that stops base powders and fine media from falling through.

Patent | JP5603808

Features

1

Coating time reduced

Speed of incorporating coating powder/liquid more than doubles the productivity rate of conventional coating machines.

2

Density consolidation, and higher sphericity

Creating uniform, high-density, and highly spherical particles by strong centrifugal force is applied to each particle.

3

Sharp particle distribution

A sharp particle distribution is realized as each particle moves without stopping and strong centrifugal force is applied evenly thanks to the unique vortex flow.

4

Material loss reduced

The pieces are stirred and centrifugally pushed against the drum wall where excessive coating falls and reincorporated back into the mix thereby reducing waste.

5

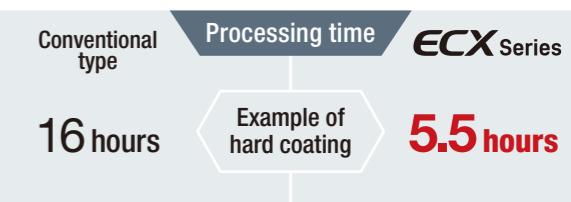
Labor saving

Thanks to its strong stirring power and spread to each piece at high speeds the recipe will be uniformly incorporated. Any operator can achieve a constant quality.

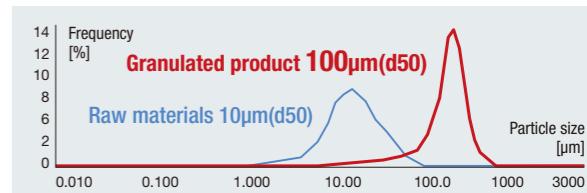
6

Easy maintenance

The powerful vortex makes cleaning a cinch. By simply using water, the tub can be cleaned in just a few minutes.



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



After processing



ECX series has an open top and tilting feature that makes draining any recipe with ease. The simple structure with few parts makes disassembly very seamless.



Applications

Medicine

Sugar coating
Film coating
Granulation
Coating particles
Mixing



Health food products Herbal medicine

Sugar coating
Film coating
Granulation
Coating particles
Mixing



Food

Chocolate coating
Snacks
Gummy
Hard coating
Soft coating



Chemicals

Granulation
Coating particles
Mixing



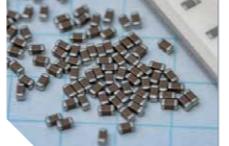
Industrial products

Spherical granulation
Sizing
Mixing



Electronic Components

Coating



Case study

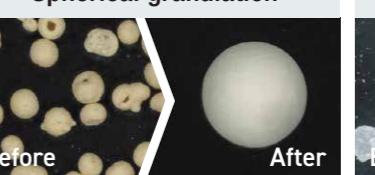
ECXPS



Granulation



Spherical granulation



Coating particles



ECX



Coating



Coating



Sizing

