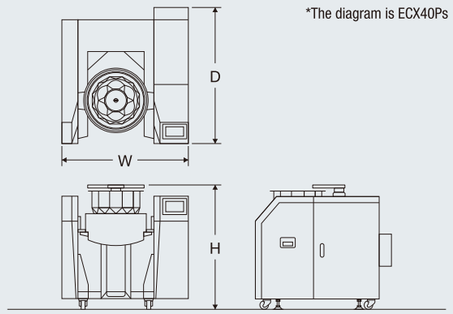
Spec.

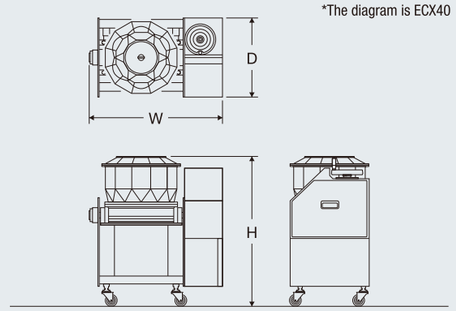
	ECXPs High-Grade		ECX Standard	
	 ECX40Ps		 ECX40	
Model	**ECX40Ps**	**ECX200Ps**	**ECX40**	**ECX200**
Pieces of size	0mm～		2mm～	
Capacity	40L	200L	40L	200L
Processing capacity	5～15L	50～70L	5～15L	50～70L
Foot print	W1250×D1300×H1200mm	W1800×D1600×H1450mm	W860×D550×H950mm	W1450×D1100×H1300mm
Weight	800Kg	1500Kg	200Kg	800Kg
Drum material	SUS (Buffing) or Abrasion resistant polyurethane		SUS (Buffing)	

Dimensions

*The diagram is ECX40Ps



*The diagram is ECX40



- 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
- **Tipton USA Inc.** 2450 W Broadway Rd. Suite 108, Mesa, AZ 85202, USA



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26/03/X

For granulation, coating, sizing, and mixing.

ECX Series

High-Grade ECXPs For sizes 0 mm~

For granulation, mixing, and coating particles!



ECX40Ps

Standard ECX For sizes 2 mm~

For coating particles!



ECX40

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

Patent JP3425536 JP4740419 JP5603808 WO2023047529 JP2024-114243

Made in **Japan**

ECX Series

For granulation, coating, sizing, and mixing.

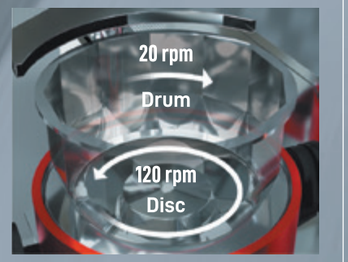
The powerful vortex flow that is created by the multi-spin and uniquely shaped disc doubles productivity, reduces material loss and ensures a quality finish.

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 automate with other processes.
Upon request, Tipton can customize design to specification to prevent contamination.

Principle

ECXPs + ECX

Multi-spin



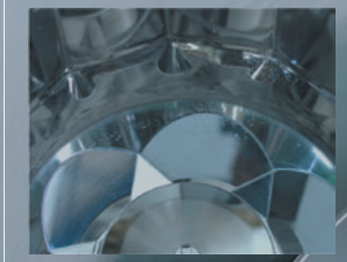
Suitable for fine and lightweight particles!

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

ECXPs + ECX

Brilliant disc



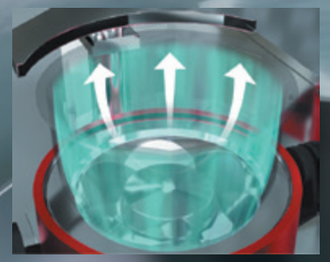
Minimize ingredient waste

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

ECXPs

Narrow gap and air flow



Powder particles smaller than 1mm can also be processed.

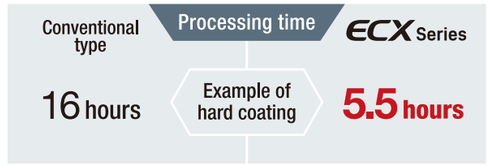
There is a gap between the rotating disc and drum where a continuous flow of air is blown that stops base powders and fine media from falling through.

Patent | JP5603808

Features

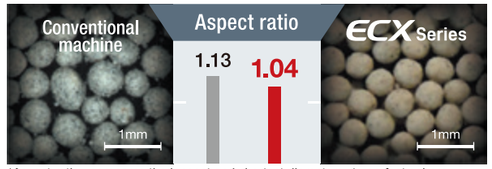
1 Coating time reduced

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



2 Density consolidation, and higher sphericity

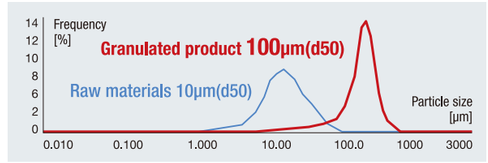
Creating uniform, high-density, and highly spherical particles by strong centrifugal force is applied to each particle.



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

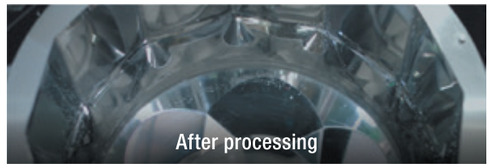
3 Sharp particle distribution

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.



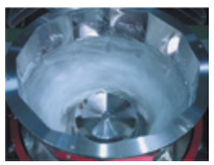
5 Labor saving

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.



ECX series has an open top and tilting feature that makes draining any recipe with ease. The simple structure with few parts makes dis/assembly 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



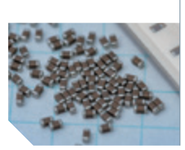
Industrial products

Spherical granulation
Sizing
Mixing



Electronic Components

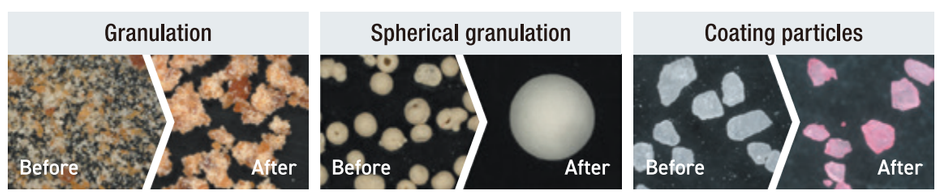
Coating



Case study

ECXPs





ECX



