VRIECO-NAUTA MIXER





Vrieco-Nauta Mixer



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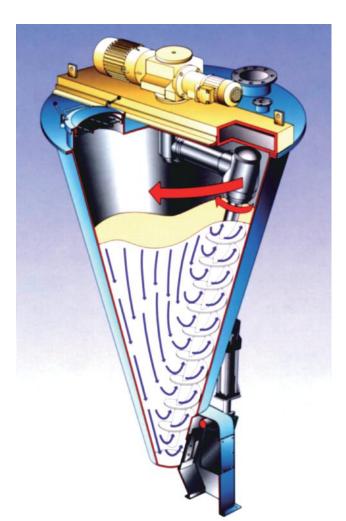
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The Newly Born Best Selling Powder Mixer!

New Type Available Now References over 10,000 units!

Vrieco-Nauta Mixer

High Grade Type With Advanced Technology Accompanied with a compact body and sanitary design



VN Type Construction

General

Hosokawa Vrieco-Nauta Mixer is the best selling powder mixer in the world.

It features a conical mixing vessel with an orbiting arm and rotating mixing screw. This structure gives the mixer many advantages such like quick mixing time, higher mixing accuracy, and lower power consumption and so on. More than 10,000 units are delivered in the world. There is a wide variety of models and options to meet various material property and characteristics, working environment, operational conditions and applications.

Application

Not only for foods and chamicals but also suitable for pharmaceuticals, agrochemicals, feeds and dyestuffs, pigments and so on. Taking the advantages of the mixing functions, Vrieco-Nauta mixer can be utilized in process of heating, drying, cooling and reaction as well.



Ribbon blender

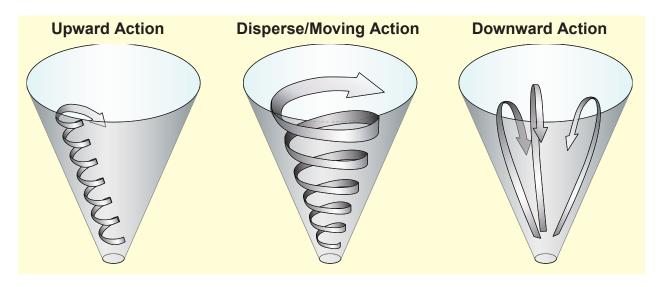
Excellent

Excellent

Good

Basic Principle of Mixing

Raw materials move upward due to screw rotation. The swing arm orbits the mixing screw along the inner vessel wall, moving and dispersing the material. On the other hand, the material where there is no screw moves downward. Based on this principle, very effective mixing action takes place in the mixer at high accuracy.



| Mixing time | Excellent | Good | Excellent | | |
|----------------------|-----------|--------------|-------------|--|--|
| Mixing accuracy | Excellent | Good | Good | | |
| Low energy | Excellent | High | High | | |
| Damage onto powders | Good | Excellent | Some damage | | |
| Ease at discharge | Excellent | Difficult | Difficult | | |
| Inspection/Cleaning | Good | Excellent | Difficult | | |
| Automation Excellent | | Difficult | Good | | |
| High capacity | Excellent | Not possible | Difficult | | |

Excellent

High

Good

Vrieco Nauta mixer Container revolving types

Comparision with other powder mixers

Install area

Install height

Initial cost

Large

High

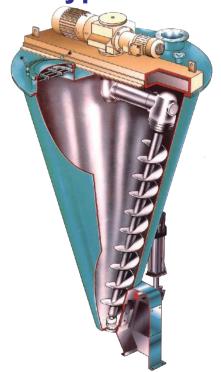
Excellent

Vrieco-Nauta Mixer



New Compact Type

VN Type



Cost Reduction by standardized parts and specification

Features

- □ Gear Transmission Efficiency is increased by 40%
- □ New Shaft Seals designed for preventing powder into lubrica-
- □ Simplified Design enabled cleanability of interior/outside increased.
- □ Compact body increase ease of installation
- □ Cost Reduction by Cantilever design

3 types ofBottom Support are available







Cantilever

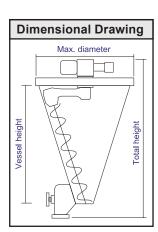
Radial Locator

Pin Joint

Specification

| Model | | VN- | 5 | 10 | 15 | 20 |
|-----------------|---------------|------|------|------|------|------|
| Water filling c | (1) | 500 | 1000 | 1500 | 2000 | |
| Motor | Screw | (kW) | 3.7 | 3.7 | 3.7 | 3.7 |
| IVIOLOI | Arm | (kW) | 0.4 | 0.4 | 0.4 | 0.4 |
| | Max. diameter | (mm) | 1450 | 1710 | 1910 | 2090 |
| Dimensions | Vessel height | (mm) | 1750 | 2180 | 2510 | 2800 |
| | Total height | (mm) | 2520 | 2950 | 3280 | 3570 |
| Approx. mass | ; | 960 | 1090 | 1210 | 1320 | |
| Screw suppor | ting | - | - | - | - | |

| Model | | VN- | 30 | 40 | 50 | 60 | 70 | 80 | 100 |
|------------------------------|---------------|------|------|------|------|------|------|------|-------|
| Water filling capacity (() | | | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 10000 |
| Motor | Screw | (kW) | 7.5 | 7.5 | 15 | 15 | 11 | 11 | 15 |
| IVIOLOI | Arm | (kW) | 0.75 | 0.75 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Max. diameter | (mm) | 2330 | 2570 | 2830 | 2970 | 3050 | 3170 | 3450 |
| Dimensions | Vessel height | (mm) | 3190 | 3580 | 3810 | 4040 | 4180 | 4370 | 4830 |
| | Total height | (mm) | 4120 | 4510 | 4990 | 5220 | 5110 | 5300 | 6020 |
| Approx. mass (kg) | | | 1940 | 2200 | 3550 | 3700 | 2560 | 2650 | 4300 |
| Screw supporting | | | - | - | - | - | with | with | with |
| | | | | | | | | | |



1) Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.



Cantilever Screw Type

DBX Type

Drive unit is direct coupled with motor. Completely cantilevered, without bottom support. This type is best suited for heat sensitive, abrasive, and brittle.





Original Type

NX Type

| Model | | DBX- | 600 | 1000 | 1500 | 2000 | 3000 | 4000 |
|------------------|------------------------|------|------|------|------|------|-------|-------|
| Water filling of | Water filling capacity | | 600 | 1000 | 1500 | 2000 | 3000 | 4000 |
| Motor | Screw | (kW) | 3.7 | 3.7 | 3.7 | 3.7 | 5.5 | 7.5 |
| MOIOI | Arm | (kW) | 0.4 | 0.4 | 0.4 | 0.4 | 0.75 | 0.75 |
| | Max. diameter | (mm) | 1610 | 1810 | 2030 | 2190 | 2430 | 2730 |
| Dimensions | Vessel height | (mm) | 1970 | 2300 | 2620 | 2870 | 3270 | 3680 |
| | Total height | (mm) | 2940 | 3270 | 3590 | 3840 | 4240 | 4810 |
| Approx. mas | s | (kg) | 900 | 1000 | 1200 | 1300 | 1500 | 2300 |
| Model | | DBX- | 5000 | 6000 | 7000 | 8000 | 10000 | 10000 |
| Water filling | capacity | (1) | 5000 | 6000 | 7000 | 8000 | 10000 | 10000 |
| Motor | Screw | (kW) | 7.5 | 11 | 11 | 11 | 11 | 22 |
| MOTOL | Arm | (kW) | 0.75 | 1.5 | 1.5 | 1.5 | 1.5 | 2.2 |
| | Max. diameter | (mm) | 2890 | 3140 | 3270 | 3390 | 3590 | 3770 |
| Dimensions | Vessel height | (mm) | 3950 | 4350 | 4560 | 4750 | 5080 | 5030 |
| | Total height | (mm) | 5080 | 5610 | 5810 | 6000 | 6400 | 6640 |
| Approx. mas | (kg) | 2500 | 4000 | 4300 | 4600 | 5000 | 9000 | |

- 1) Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.

Available in small, medium and very large capacities. Basic original type with many references and high performance.

Specification



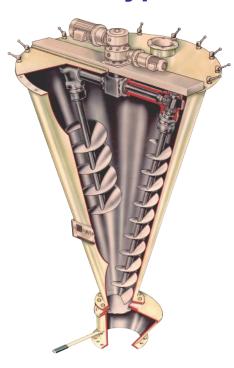
| Model | | NX- | 1 | 2 | 3 | 6 | 10 | 15 |
|---------------|---------------|------|------|-------|-------|-------|-------|-------|
| Water filling | capacity | (1) | 100 | 200 | 300 | 600 | 1000 | 1500 |
| Motor | Screw | (kW) | 1.5 | 2.2 | 2.2 | 2.2 | 2.2 | 3.7 |
| IVIOLOI | Arm | (kW) | - | - | - | - | - | - |
| | Max. diameter | (mm) | 1060 | 1220 | 1330 | 1550 | 1760 | 1980 |
| Dimensions | Vessel height | (mm) | 1130 | 1380 | 1560 | 1950 | 2290 | 2600 |
| , | Total height | (mm) | 2100 | 2490 | 2600 | 2940 | 3280 | 3590 |
| Approx. mas | s | (kg) | 500 | 600 | 650 | 750 | 850 | 950 |
| Model | | NX- | 20 | 30 | 40 | 50 | 60 | 70 |
| Water filling | capacity | (1) | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 |
| M-4 | Screw | (kW) | 3.7 | 5.5 | 7.5 | 7.5 | 11 | 11 |
| Motor | Arm | (kW) | - | 0.75 | 1.5 | 1.5 | 1.5 | 1.5 |
| | Max. diameter | (mm) | 2130 | 2390 | 2830 | 2990 | 3130 | 3250 |
| Dimensions | Vessel height | (mm) | 2850 | 3260 | 3850 | 4110 | 4340 | 4530 |
| | Total height | (mm) | 3840 | 4130 | 5000 | 5260 | 5490 | 5690 |
| Approx. mas | s | (kg) | 1050 | 1200 | 2400 | 2600 | 2800 | 3000 |
| Model | | NX- | 80 | 100 | 150 | 200 | 250 | 500 |
| Water filling | capacity | (1) | 8000 | 10000 | 15000 | 20000 | 25000 | 50000 |
| Maria | Screw | (kW) | 11 | 11 | 18.5 | 22 | 30 | 37 |
| Motor | Arm | (kW) | 1.5 | 1.5 | 2.2 | 2.2 | 3.7 | 3.7 |
| | Max. diameter | (mm) | 3370 | 3590 | 3990 | 4320 | 4740 | 5750 |
| Dimensions | Vessel height | (mm) | 4730 | 5070 | 5650 | 6180 | 6840 | 8490 |
| | Total height | (mm) | 5880 | 6230 | 6890 | 7430 | 8420 | 10110 |
| Approx. mas | ss | (kg) | 3200 | 3300 | 6000 | 8000 | 11000 | 16000 |

- 1) Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
- 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.

Vrieco-Nauta Mixer



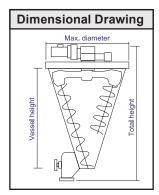
D2SX Type



Rational Mixing Performance

Features

In addition to a standard mixing screw, another large diameter satellite screw is provided. With only 30% increase of running power, mixing time can reduced by half or below.



Specification

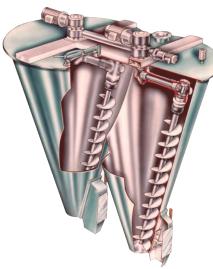
| Model | | D2SX- | 1000 | 1500 | 2000 | 3000 | 5000 | 10000 |
|---------------|------------------------|-------|------|------|------|------|------|-------|
| Water filling | Water filling capacity | | 1000 | 1500 | 2000 | 3000 | 5000 | 10000 |
| Motor | Screw | (kW) | 3.7 | 5.5 | 5.5 | 7.5 | 15 | 22 |
| IVIOLOI | Arm | (kW) | 0.4 | 0.55 | 0.55 | 0.75 | 1.5 | 12.2 |
| | Max. diameter | (mm) | 1810 | 2032 | 2185 | 2513 | 4030 | 5165 |
| Dimensions | Vessel height | (mm) | 2300 | 2615 | 2865 | 3360 | 2944 | 3642 |
| | Total height | (mm) | 3270 | 3580 | 3830 | 4490 | 5285 | 6770 |
| Approx. mas | (kg) | 1250 | 1600 | 1700 | 2500 | 4300 | 6400 | |

Note

- 1) Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
- 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.

Combi-type mixer, cope with high capacity

CX Type



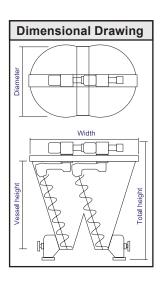
Features

Combi-type mixer, cope with high capacity.

In CX type, two units of NX type are combined into one piece. Beside the standard mixing action, material moves adjacent container therefore it accelerates further mixing. CX type also save installation height and processing time. Mixing time and discharge time can be shorter. Screw load is relieved therefore stable operation is possible.

Specification

| Model | | CX- | 4 | 6 | 11 | 18 |
|---------------|---------------|------|------|-------|-------|-------|
| Water filling | capacity | (1) | 400 | 600 | 1100 | 1800 |
| Motor - | Screw | (kW) | 2.2 | 3.7 | 3.7 | 5.5 |
| MOIOI | Arm | (kW) | 0.4 | 0.4 | 0.4 | 0.75 |
| | Diameter | (mm) | 1218 | 1330 | 1550 | 1760 |
| Dimensions - | Width | (mm) | 1848 | 2013 | 2260 | 2600 |
| Dimensions - | Vessel height | (mm) | 1380 | 1560 | 1950 | 2290 |
| | Total height | (mm) | 2451 | 2630 | 2910 | 3250 |
| Approx. mas | s | (kg) | 1200 | 1300 | 1500 | 1700 |
| Model | | CX- | 37 | 55 | 110 | 175 |
| Water filling | capacity | (1) | 3700 | 5500 | 11000 | 17500 |
| Motor | Screw | (kW) | 7.5 | 5.5×2 | 11×3 | 22×4 |
| MOTOR | Arm | (kW) | 1.5 | 1.5 | 2.2 | 3.7 |
| | Diameter | (mm) | 2130 | 2380 | 3120 | 3720 |
| Dimensions | Width | (mm) | 3150 | 3540 | 4670 | 5570 |
| Dimensions | Vessel height | (mm) | 2850 | 3260 | 4400 | 5300 |
| | Total height | (kg) | 3820 | 4200 | 5560 | 6590 |
| | | | | | | |



Note

- Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
- 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.



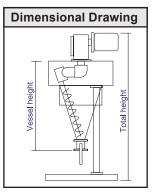
Small lab. production

DBY Type



Features

Down scaled from standard Vrieco-Nauta Mixers, this type is suitable for small production or make small samples. For 10 liter capacity satellite type is also available.



Specification

| Model | | DBY- | 10 | 20 | 30 |
|------------------|---------------|-------|------|------|------|
| Water filling ca | apacity | ({) | 10 | 20 | 30 |
| Motor | | (kW) | 0.2 | 0.4 | 0.4 |
| D: | Vessel height | (mm) | 470 | 570 | 670 |
| Dimensions | Total height | (mm) | 1200 | 1350 | 1580 |
| Approx. mas | s | (kg) | 100 | 130 | 180 |

Note

- 1) Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
- 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity.

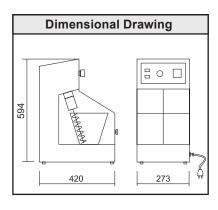
Laboratory Mixer

LV-1 Type



Features

Lab mixer (LV-1) is a small lab mixer. The mixer uses the same principle as Hosokawa Vrieco-Nauta Mixer. However, in this lab mixer, mixing screw arm is stationary and both a mixing screw and conical vessel are rotated. The screw and the conical vessel can be removed one touch from the main unit. The vessel then can be used as a product container. Cleaning of the vessel and the screw is very easy.



Specification

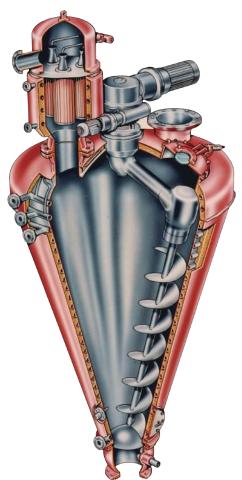
| Model | | | LV-1 | | |
|---------------------|-----------------------|-------|-------------------------|--|--|
| Water filling capac | city | 2.5 | | | |
| Motor | Speed controlled moto | r | 100V, 50/60Hz, 40W | | |
| | Geared motor | | 100V, 50/60Hz, 25W | | |
| Rotational speed | Screw | (rpm) | 120~240 | | |
| | Mixing chamber | (rpm) | 3.5(50Hz), 4.2(60Hz) | | |
| Screw | | | Φ50mm (removable screw) | | |
| Outlet | | | Ф60mm with handle lever | | |
| Material of Powde | er contacting part | | SS304 (Polish #300) | | |

Approx. weight 30kgs

Vrieco-Nauta Mixer

Multipurpose - Domed type with Jacket

Vacuum / Pressure Type



Features

Taking advantages of Vrieco-Nauta Mixer's superior mixing functions, vacuum/pressure type is so designed that operations of vacuum drying, reacting, heating, cooling and sterilizing are possible. Since applicable range is wide, it is very stuiable for rationalization of the production process and labour saving.

Test Plant



Specification (Cantilever Screw Type)

| Model | | NXV- | 1 | 2 | 3 | 6 | 3 | 10 | 15 | 20 |
|---------------|---------------|------|------|------|------|----|---------|------|-------|-------|
| Water filling | capacity | (1) | 100 | 200 | 300 | 60 | 00 | 1000 | 1500 | 2000 |
| Motor - | Screw | (kW) | 3.7 | 3.7 | 3.7 | 5. | .5 | 5.5 | 5.5 | 5.5 |
| IVIOLOI | Arm | (kW) | - | - | - | 0. | 75 | 0.75 | 0.75 | 0.75 |
| | Diameter | (mm) | 1000 | 1150 | 1300 | 15 | 00 | 1650 | 1850 | 2050 |
| Dimensions | Vessel height | (mm) | 1500 | 1690 | 1920 | 23 | 2350 2 | | 2990 | 2920 |
| | Total height | (mm) | 2360 | 2570 | 2800 | 33 | 00 | 3600 | 4600 | 4400 |
| Approx. mas | s | (kg) | 1000 | 1200 | 1300 | 18 | 00 2500 | | 2700 | 3300 |
| Model | | NXV- | 30 | 40 | 5 | 50 | | 60 | 80 | 100 |
| Water filling | capacity | (1) | 3000 | 4000 | 50 | 00 | 6 | 000 | 8000 | 10000 |
| Motor | Screw | (kW) | 7.5 | 11 | 1 | 1 | | 11 | 11 | 18.5 |
| MOTOL | Arm | (kW) | 0.75 | 1.5 | 1. | 5 | | 1.5 | 1.5 | 2.2 |
| | Diameter | (mm) | 2450 | 2650 | 28 | 00 | 2 | 950 | 3100 | 3300 |
| Dimensions | Vessel height | (mm) | 4010 | 3850 | 50 | 02 | 4 | 900 | 5210 | 5570 |
| | Total height | (mm) | 5275 | 5770 | 60 | 00 | 6 | 350 | 6460 | 6930 |
| Approx. mas | s | (kg) | 5000 | 7500 | 67 | 00 | 8 | 300 | 10000 | 12000 |

Note

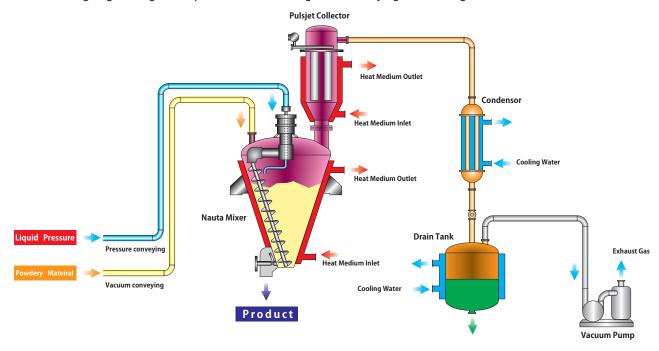
- Motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
- 2) The effective capacity differs as powder properties, however, it is about 80-100% of water filling capacity..



Vrieco-Nauta Mixer is Multi-Functional!

Examples of Multi-Processing with a single machine

Following is an example of one single unit of Vrieco-Nauta Mixer, multi-processing of pneumatic feeding of raw material, weighing, mixing with liquid addition, reacting, vacuum drying and cooling.



Specification (Pin Joint Type)

| - | | • | | • • • | | |
|---------------|-----------------|------|------------|-----------|---------|---------|
| Model | | DBX- | 600RWV | 1000RWV | 1500RWV | 2000RWV |
| Water filling | capacity | (1) | 600 | 1000 | 1500 | 2000 |
| Motor | Screw | (kW) | 3.7 | 5.5 | 5.5 | 5.5 |
| IVIOLOF | Arm | (kW) | 0.4 | 0.75 | 0.75 | 0.75 |
| | Diameter A | (mm) | 1450 | 1700 | 1900 | 2050 |
| Dimensions | Vessel height B | (mm) | 1890 | 2290 | 2620 | 2870 |
| | Total height C | (mm) | 3100 | 3530 | 3900 | 4180 |
| Approx. mas | s | (kg) | 2300 | 3500 | 3600 | 3900 |
| | | | | | | |
| Model | | DBX- | 3000RWV | 4000RWV | 5000RWV | 6000RWV |
| Water filling | capacity | (1) | 3000 | 4000 | 5000 | 6000 |
| Motor | Screw | (kW) | 7.5 | 11 | 11 | 11 |
| IVIOLOI | Arm | (kW) | 0.75 | 1.5 | 1.1 | 1.1 |
| | Diameter A | (mm) | 2300 | 2650 | 2800 | 2950 |
| Dimensions | Vessel height B | (mm) | 3230 | 3810 | 4650 | 4300 |
| | Total height C | (mm) | 4570 | 5350 | 5880 | 6130 |
| Approx. mass | | (kg) | 4800 | 6000 | 7000 | 8000 |
| Model | | DBV | 9000D\A/\/ | 10000BW// | | |

| Model | | DBX- | 8000RWV | 10000RWV |
|---------------|-----------------|------|---------|----------|
| Water filling | capacity | (1) | 8000 | 10000 |
| Motor | Screw | (kW) | 18.5 | 22 |
| IVIOLOI | Arm | (kW) | 2.2 | 2.2 |
| | Diameter A | (mm) | 3350 | 3450 |
| Dimensions | Vessel height B | (mm) | 5400 | 5640 |
| | Total height C | (mm) | 6800 | 7050 |
| Approx. mas | s | (kg) | 15000 | 17000 |

- Standard motor sizes are calculated for mixing the powder with bulk density = 0.6g/ml.
 The effective capacity differs as powder properties, however, it is about 80-100% of water
- filling capacity..

Vrieco-Nauta Mixer



Option

Variation Suited to your needs

Strong Delumping Unit

Intensifier



A rotor mounted on the center shaft rotates at very high speed, and prevents agglomeration of the mixture. It is very effective to prevent remaining of the very light powder, generated at mixing of density different materials, over the mixture surface. Or it is also effective when very strong dispersing power is required at the liquid added mixing application. By rotating mixing screw, the material is consecutively fed to the intensifier resulting in effective mixing.

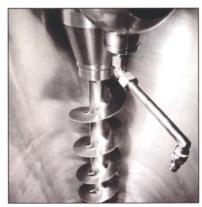
Vacuum/Pressure Sanitary Dome Cover



Dome cover can be mounted when the vessel interior is in negative or positive pressure during operation. In this case, speed reduction unit or swing arm should be vacuum or pressure specification. And this type is also recommendable when ease of interior cleaning is required.

Liquid Adding Device

Micro Injection



This is the device to add liquid or condition humidity. The liquid is sprayed over the powder mixture via one or more nozzles, piped through the gear box.

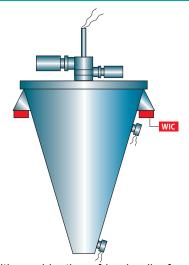
Disintegrator

Lump Breaker



The device is to disintegrate the mixture during mixing or liquid adding. One or more units are mounted at the side of the casing, and preventing the agglomeration.

Level Control



With combination of load cells, feed quantity or discharge quantity can be checked during operation. Contents control is possible with the use of common levellers.

Discharge method

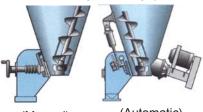
□Bottom Discharge



Olide Typ



□Side Discharge : Swing type



(Manual)

(Automatic)

It is possible to select automatic or manual.



Vrieco-Nauta Mixer References

Classified by applications.

| Classification | Material | Process | Model | Capacity (L) | Remark |
|------------------------|--------------------------|---------|-------------|--------------|---------|
| Food | Egg | Mixing | D2SX-1000 | 1000 | |
| | Gelatin | Mixing | CX-55 | 5500 | |
| | Cellulose | Mixing | NX-150 | 15000 | |
| | Sugar | Mixing | DBX-8000 | 8000 | |
| | Food additives | Drying | NXV-150 | 15000 | |
| | Vitamin | Mixing | DBX-5000RWV | 5000 | |
| Pharmacy | Pharmaceutical | Mixing | CX-6 | 600 | |
| | Herb medicine | Mixing | NX-30 | 3000 | |
| | Pharmaceutical | Mixing | DBX-2000 | 2000 | GMP |
| | Pharmaceutical | Drying | NXV-100 | 10000 | |
| | Pharmaceutical | Drying | DBX-600RWV | 600 | GMP |
| | Pharmaceutical | Drying | DBX-4000RWV | 4000 | |
| Chemicals | Organic chemicals | Mixing | CX-4 | 400 | |
| | Organic chemicals | Mixing | CX-100 | 11000 | |
| | Organic chemicals | Mixing | NX-100 | 1000 | |
| | Chemicals | Mixing | DBX-2000 | 500 | |
| | Organic chemicals | Drying | NXV-100 | 10000 | |
| | Organic chemicals | Drying | DBX-4000RWV | 4000 | |
| | Raw material of glass | Mixing | D2SX-1000 | 1000 | |
| Inorganic materials | Cement | Mixing | DBX-5000RWV | 5000 | |
| | Calcium carbonate | Drying | DBX-5000RWV | 5000 | |
| | Nickel hydrogen compound | Mixing | CX-55 | 5500 | Battery |
| | Nickel hydrogen compound | Mixing | NX-150 | 15000 | Battery |
| | Nickel hydrogen compound | Drying | NXV-30 | 3000 | Battery |
| Paint/Pigment | Dyestuff | Mixing | D2SX-8000 | 8000 | Battory |
| | - | Mixing | CX-110 | 11000 | |
| | _ | Mixing | NX-200 | 20000 | |
| | Pigment | Mixing | DBX-2000 | 2000 | |
| | Dye intermediate | Drying | NXV-80 | 8000 | |
| | Pigment | Drying | DBX-2000RWV | 2000 | |
| Resin | Polyethylene | Mixing | CX-6 | 600 | |
| | Polymer | Mixing | NS-150 | 15000 | |
| | Phenol resin | Mixing | DBX-7000 | 7000 | |
| | PVC | Drying | NXV-40 | 4000 | |
| | Polymer | Drying | NXV-100 | 10000 | |
| | AS | Drying | DBX-7000RWV | 7000 | |
| Pesticide | Pesticide | Mixing | CX-55 | 5500 | |
| | Pesticide | Mixing | NX-70 | 7000 | |
| | Pesticide | Mixing | DBX-5000 | 5000 | |
| | Pesticide | Drying | NXV-30 | 3000 | |
| | Pesticide | Drying | NXV-60 | 6000 | |
| | Pesticide | Drying | DBX-7000RWV | 7000 | |
| Others | Adhesive | Mixing | CX-110 | 11000 | |
| | Bone powder | Mixing | NX-100 | 10000 | |
| | Silver | Mixing | DBX-1500 | 1050 | |
| | Titanium compounds | Drying | NXV-100 | 1000 | |
| | Glue | Drying | DBX-2000RWV | 2000 | |
| | | 21,7119 | | 2000 | |



Process Technologies for Tomorrow

HOSOKAWA MICRON CORPORATION

URL http://www.hosokawamicron.com/

1-9, Shodaitajika, Hirakata-shi, Osaka 573-1132, Japan TEL: +81-72-855-2224 FAX: +81-72-855-2679

Hosokawa Micron (Korea) Ltd. Phone: 82-2-420-5691, Fax: 82-2-420-5693 URL: http://www.hosokawakorea.co.kr/

Hosokawa Micron (Shanghai) Powder Machinery Co. Ltd. Phone: 86-21-5306-8031, Fax: 86-21-6404-7579 URL: http://www.hosokawa.com.cn/

Hosokawa Micron (Malaysia) Sdn. Bhd. Phone: 60-3-7725-7433, Fax: 60-3-7725-6433 URL: http://hosokawa.com.my/

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