



# HV-H Homogenizer

Extra high pressure type

| Model No. | Motor Required (kw) | Capacity (L/Hr) |       |       |       | Dimensions Width×Length×Height          | Connection |           | Dry weight (kg) |
|-----------|---------------------|-----------------|-------|-------|-------|---|------------|-----------|-----------------|
|           |                     | 35MPa           | 50MPa | 70MPa | 85MPa |   | Suction    | Discharge |                 |
| HV-0H     | 0.75                | 30              | -     | -     | -     | 800×900×1210<br>(Manual Operation)      | 10A        | 10A       | 500             |
|           | 1.5                 | 100             | 30    | -     | -     |   |            |           |                 |
|           | 2.2                 | 150             | 150   | 70    | 60    |   |            |           |                 |
|           | 3.7                 | 200             | 150   | 100   | 80    |   |            |           |                 |
|           | 5.5                 | -               | 200   | 150   | 130   |   |            |           |                 |
|           | 7.5                 | -               | -     | -     | 150   |   |            |           |                 |
| HV-1H     | 5.5                 | 300             | -     | -     | -     | 1015×1380×1420<br>(Manual Operation)    | 1S         | 1S        | 1000            |
|           | 7.5                 | 500             | 300   | -     | -     |   |            |           |                 |
|           | 11                  | 750             | 500   | 300   | -     |   |            |           |                 |
| HV-2H     | 11                  | 750             | -     | -     | -     | 1020×1540×1470<br>(Manual Operation)    | 1.5S       | 1.5S      | 1800            |
|           | 15                  | 1000            | 750   | -     | -     |   |            |           |                 |
|           | 18.5                | 1250            | 1000  | -     | -     |   |            |           |                 |
| HV-3H     | 22                  | 1500            | -     | 750   | -     | 1225×1830×1880<br>(Hydraulic Operation) | 1.5S       | 1.5S      | 3000            |
|           | 30                  | 2000            | 1500  | -     | -     |   |            |           |                 |
| HV-4H     | 37                  | 2500            | -     | 1250  | -     | 1470×2040×2070<br>(Hydraulic Operation) | 2S         | 1.5S      | 4000            |
|           | 37                  | 3000            | -     | -     | -     |   |            |           |                 |
|           | 45                  | -               | 2000  | -     | -     |   |            |           |                 |
|           | 55                  | 4000            | 3000  | 2000  | -     |   |            |           |                 |
| HV-5H     | 75                  | 4500            | -     | -     | -     | 1900×2260×2540<br>(Hydraulic Operation) | 2S         | 1.5S      | 6500            |
|           | 75                  | 5000            | 4000  | -     | -     |   |            |           |                 |
|           | 90                  | 7000            | -     | -     | -     |   |            |           |                 |
|           | 110                 | 8500            | 5000  | 4000  | -     |   |            |           |                 |
|           | 132                 | 10000           | 6500  | 5000  | -     |   |            |           |                 |



# HV-E/A/H Series Homogenizer

From JAPAN to the WORLD with our abundant expertise



## BEST SUPPORT / BEST SOLUTION (R&D CENTER IN JAPAN)

- We can support your new product development and offer the solution for your existing process.
- We repair the equipment for experimental use and tests them in shortest leading time.



● Particle size distribution measuring device



● Microscope



● Analysis Room

- Available Measuring instruments and Experimental equipments
  - Viscometer · Microscope · pH meter
  - Particle size distribution measuring device · Centrifugal separator
  - Moisture meter · Salinometer · Rotary evaporator
  - DO meter · Autoclave · Electric conductivity meter
  - Superheated steam generator · Colorimeter · Brixmeter



● Viscometer

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**IZUMI FOOD MACHINERY CO., LTD**

# Application



## <Foods/Beverages>

- Diary Products** Milk / Cream / Ice Cream / Coffee
- Fat Products** Mayonnaise / Butter / Margarine
- Beverages** Fruit Juice / Green Vegetable Juice
- Seasonings** Ketchup / Dressings / Sauces / Spice
- Confectionaries** Chocolate / Flour Paste
- Others** Liquid Food

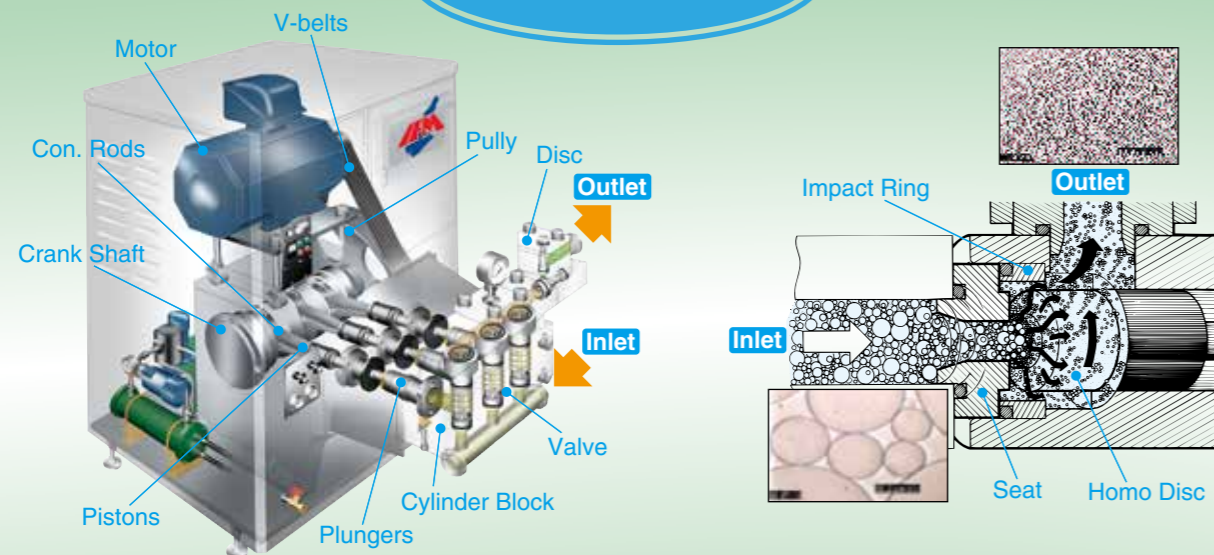
## <Chemical>

- Ink / Pigment / Paint / Dye stuff / Developer
- Silicone Oil / Solvent

## <Other>

- Medicine / Cosmetic

# Structure



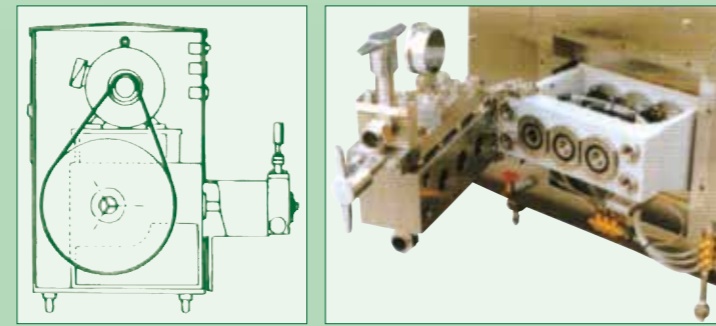
# Feature

**Silent noise of operation**  
V-belt drive mechanism enable to smooth & direct Power transmission and silent noise of operation.



**Simple structure & Easy maintenance**  
Easy inspection & maintenance at Cylinder block part. A hinge construction cylinder block has been adopted, to enable opening at will, and for ease of disassembly, cleaning and assembly.

**Optimal homogenizing Valves**  
The vortex type disk (standard) and other (optional), assuring a high homogenizing effect for a various products.

**High Standard material for abrasion resistant**  
For prevent abrasion, HV-Series select the material of homogenizing disk SUS316 coating with stellite as standard and tungsten as option.



### Kinds of Disk Design

| Disk type  | Use  |
|--|--|
| <br><b>Vortex type disk</b> | <Homogenizing of Liquids><br>Milk, Margarine<br>Ice cream mix<br>Seasoning, Fat                                      |
| <br><b>Flat type disk</b>   | <Dispersion for liquid with solid><br>Fresh cream<br>Fatty ice cream<br>Pigment dye stuff<br>(incl. solid particles) |



# HV-E Homogenizer

- Certain Durability! Abundant
- Over 60 years of history 5000 support of experiences!
- Capable of developing to wide application

| Model No. | Motor Required (kw) | Capacity (L/Hr) |         |         | Dimensions Width×Length×Height       | Connection |           | Empty weight (kg) |
|-----------|---------------------|-----------------|---------|---------|--------------------------------------|------------|-----------|-------------------|
|           |                     | 14.7MPa         | 19.6MPa | 24.5MPa |                                      | Suction    | Discharge |                   |
| HV-1E     | 3.7                 | 700             | 500     | 300     | 760×940×1160 (Manual Operation)      | 1S         | 1S        | 400               |
|           | 5.5                 | 1000            | 800     | 600     |                                      |            |           |                   |
| HV-2E     | 7.5                 | 1400            | 1000    | 800     | 1100×1370×1460 (Manual Operation)    | 1.5S       | 1.5S      | 1000              |
|           | 11                  | 2000            | 1500    | 1000    |                                      |            |           |                   |
|           | 15                  | 2500            | 2000    | 1500    |                                      |            |           |                   |
| HV-3E     | 18.5                | 3000            | -       | -       | 1100×1500×1770 (Hydraulic Operation) | 2S         | 1.5S      | 1800              |
|           | 22                  | 4000            | 3000    | 2500    |                                      |            |           |                   |
|           | 30                  | 5000            | 4000    | 3500    |                                      |            |           |                   |
|           | 37                  | 7000            | 5000    | 4000    |                                      |            |           |                   |
| HV-4E     | 45                  | 7500            | -       | -       | 1640×2200×2350 (Hydraulic Operation) | 3S         | 2S        | 4500              |
|           | 55                  | 11000           | 8000    | 6000    |                                      |            |           |                   |
|           | 75                  | 15000           | 11000   | 9000    |                                      |            |           |                   |
|           | 90                  | 18000           | 13500   | 11000   |                                      |            |           |                   |
| HV-5E     | 110                 | 22000           | 16000   | 13500   | 2100×2075×2540 (Hydraulic Operation) | 3S         | 3S        | 7300              |
|           | 132                 | -               | -       | 16000   |                                      |            |           |                   |
|           | 132                 | 27000           | 20000   | -       |                                      |            |           |                   |
|           | 150                 | 30000           | 22000   | 18000   |                                      |            |           |                   |
|           | 160                 | 32000           | 24000   | 19000   |                                      |            |           |                   |
|           | 185                 | -               | 27000   | 22000   |                                      |            |           |                   |
|           | 200                 | -               | -       | 24000   |                                      |            |           |                   |

### Optional subject

- Motor: In case different Voltage from 200V.
- Inverter Aparatus(Control panel separate type).
- Automatic pressure tracking control device (for Hydraulic operation).
- Hydraulic pressure control system (for HV-1E HV-2E).
- Oil cooler for hydraulic pressure control system (Model of 90kw above are originally equipped).
- Air chamber.
- Ball-type suction discharge valve (for high viscosity).

### Remark

- Optional subject will be estimated each time when required specifications become concrete.
- Freight, Spare parts and Commissioning on site are excluded from Settlement utit price (Ex-work, JPY) and that will be estimated each time.

# HV-0A Homogenizer

- Suitable for R&D test machine
- Compatible with small production
- Minimum capacity 30L/h capable



| Model No. | Motor Required (kw) | Capacity (L/H r) |         |         | Dimensions Width×Length×Height | Connection |           | Empty weight (kg) |
|-----------|---------------------|------------------|---------|---------|--------------------------------|------------|-----------|-------------------|
|           |                     | 14.7MPa          | 19.6MPa | 24.5MPa |                                | Suction    | Discharge |                   |
| HV-0A     | 0.4                 | 30               | 30      | -       | 500×860×790 (Manual Operation) | 1S         | 1S        | 250               |
|           | 0.75                | 100              | 100     | -       |                                |            |           |                   |
|           | 1.5                 | 200              | 200     | 100     |                                |            |           |                   |
|           | 2.2                 | 300              | 300     | 200     |                                |            |           |                   |