

VIBRATING EQUIPMENT FOR FOUNDRY



We have a new slogan in Japan; "ECOing" a combination of "eco" and "ing". This is to promote eco-friendly technological development and manufacturing. Our ecological activities are of course not limited to Japan and practiced in many countries around the world.

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E90-200

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 **SINFONIA**
SINFONIA TECHNOLOGY CO., LTD.

For Rationalizing Foundry Plant - Vibrating Equipment for Foundry

To achieve improvement of production, cost reduction, rationalization of facility, and avoid labor scarcity, applying suitable vibrating equipment will be the starting point. As a leading manufacturer of vibrating equipment, Sinfonia Technology has been supplying vibrating equipment and related systems for various industrial fields. Moreover, every product is applied high vibrating technologies, accumulated from rich experiences.

Our vibrating equipment for foundry are manufactured with those the best technology, and realizing the most suitable, and cost effective application for entire production line.

Various vibrating equipment are taking active role in those lines. Such as feeding and measuring of molding sand, melted material forming, melting, sand processing, and stock / transport line,

Applicable Vibrating Equipment

Feeding and measuring lines of molding sand / melted material

- Electromagnetic feeder-Feeding for pig iron, machine chips, cokes, limestone.
- Feeding of melted material, and measurement and composition equipment Feeding and measuring of scrap from hopper.

Melting line

- Electromagnetic feeder input additive.

Forming line

- Jolt molding machine
- Parts feeder for cooled metal sorting

Molding sand processing line

- Shakeout machine ● Louver conveyor
- Vibrating sand cooler ● Vibrating screen
- Breaker screen ● Vibrating conveyor
- Electromagnetic feeder ● Vibrator

Product processing line

- Vibrating conveyor Cooling transportation, braking gate, shot, sand, transportation and screening of mold.

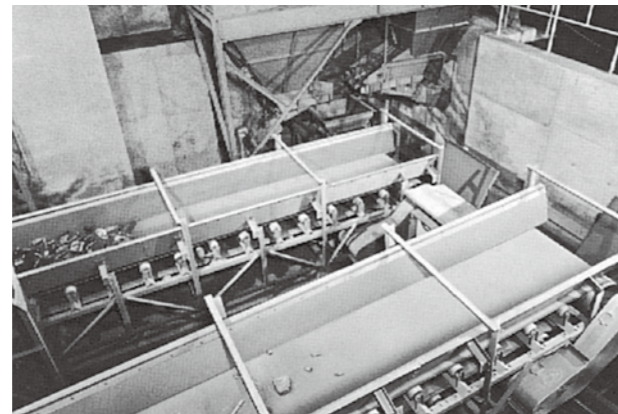
Store / transportation line and others

- Vibrator ● Electromagnetic feeder

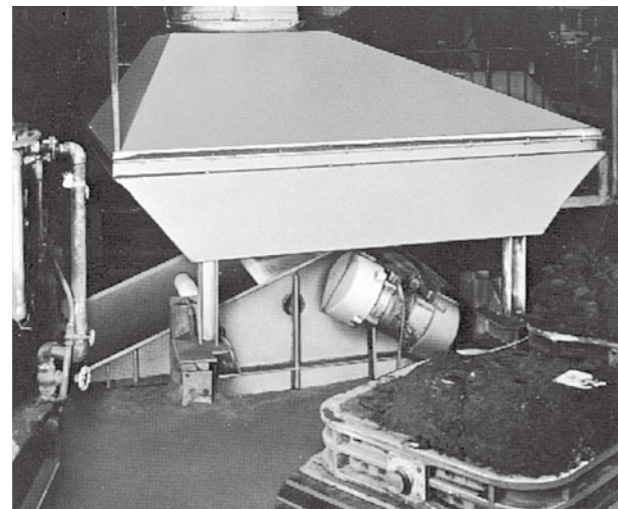
Application example of plant



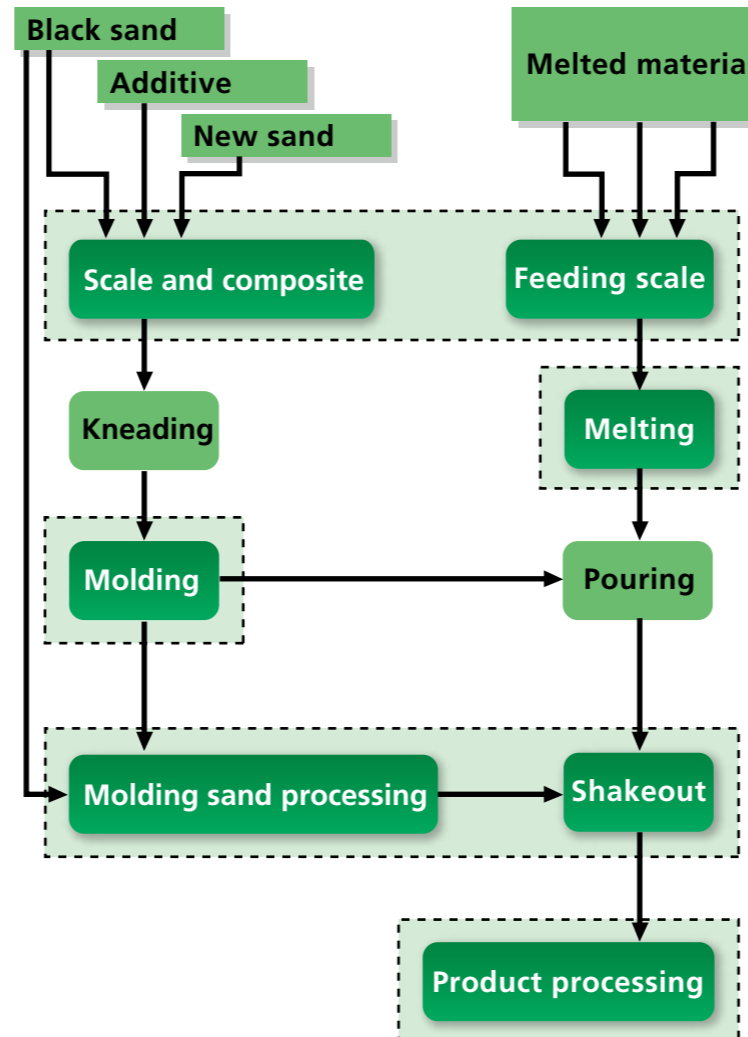
Feeding of melted material / scale and composite device (Hopper, vibrating conveyor, electromagnetic feeder)



Feeding of melted material / scale and composite device (Belt scale)



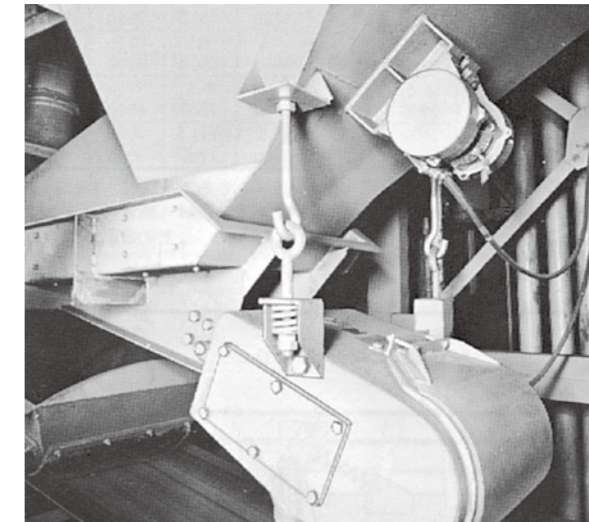
Shakeout machine



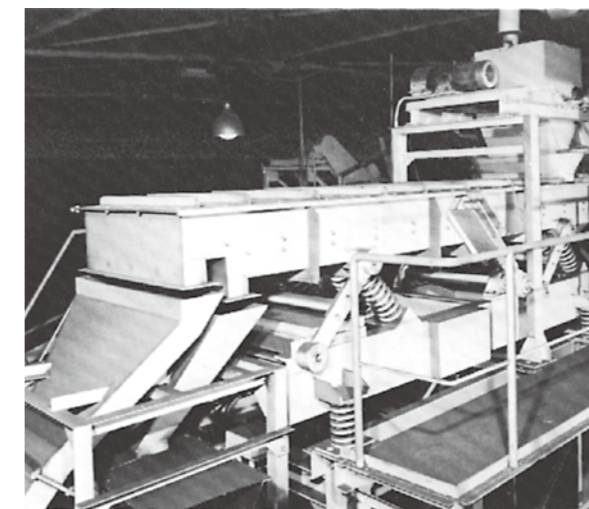
Vibrating Conveyor



Vibrating Sand Cooler



Vibrator



Vibrating Screen

Wide variety of vibrating equipment are taking active role in foundry processing line

For transportation from cast metal and sand to any material

VIBRATING CONVEYOR

For transporting cast metal and sand to upstairs

SLOPE CONVEYOR

For removing lumps of molding sand

VIBRATING SCREEN

For continuous cooling of molding sand

VIBRATING SAND COOLER

For improvement of working environment about casting metal and sand shakeout

DRUM SHAKER

For separating molding flask from casting metal and sand

SHAKEOUT MACHINE

Transporting while separating casting metal and sand

LOUVER CONVEYOR

Vibrating molding table with running roller

JOLT MACHINE

To prevent clogging of hopper and chute

VIBRATOR

Quantitative supply of sand and additives

VIBRATING FEEDER

This catalogue only listed representative type of products. Please feel free to contact us to for more products.

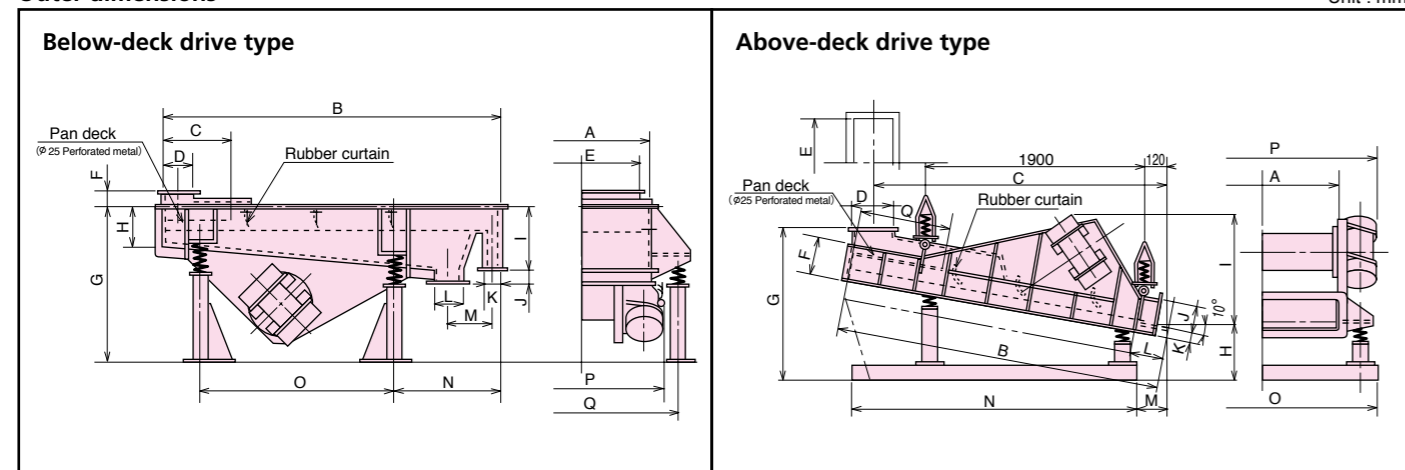
VIBRATING SCREEN

Vibrating screen is the most representative equipment for removing sand lumps, or dusts at foundry plants. The screen is powerful and efficient by using vibrating motor driving.

Standard specifications

| Type | Effective Screening area (m ²) | Trough size | Motor type (2 motors) | Motor type (kW) | Frequency (Hz) 50Hz / 60Hz | Weight (kg) | Applicable controllers |
|--------------|--|-------------|-----------------------|-----------------|----------------------------|-------------|------------------------|
| RVS- 600-1.8 | 0.75 | 600x1800 | RV-78B | 0.75x2 | 12.0 / 14.2 | 400 | ORV- 7x2R |
| RVS- 900-1.8 | 1.12 | 900x1800 | RV-158B | 1.5x2 | 12.0 / 14.2 | 850 | ORV-15x2R |
| RVS- 900-2.4 | 1.6 | 900x2400 | RV-158B | 1.5x2 | 12.0 / 14.2 | 1100 | ORV-15x2R |
| RVS-1200-2.4 | 2.2 | 1200x2400 | RV-228B | 2.2x2 | 12.0 / 14.2 | 1450 | ORV-22x2R |
| RVS-1200-3 | 2.9 | 1200x3000 | RV-378B | 3.7x2 | 12.0 / 14.2 | 1650 | ORV-37x2R |
| RVS-1500-3 | 3.7 | 1500x3000 | RV-378B | 3.7x2 | 12.0 / 14.2 | 2300 | ORV-37x2R |

Outer dimensions



Standard specifications / dimension table (Below-deck drive type)

| Type | Motor type (2 motors) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | Rubber curtain (quantity) |
|--------------|-----------------------|------|------|-----|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|------|------|------|---------------------------|
| RVS- 600-1.8 | RV- 78B | 600 | 1800 | 500 | 300 | 500 | 150 | 1050 | 200 | 300 | 150 | 100 | 150 | 250 | 600 | 1000 | 1200 | 800 | 3 |
| RVS- 900-1.8 | RV-158B | 900 | 1800 | 500 | 300 | 700 | 150 | 1200 | 250 | 350 | 150 | 100 | 150 | 250 | 600 | 1100 | 1300 | 1200 | 3 |
| RVS- 900-2.4 | RV-158B | 900 | 2400 | 600 | 300 | 700 | 150 | 1250 | 250 | 400 | 150 | 150 | 200 | 350 | 800 | 1450 | 1300 | 1200 | 3 |
| RVS-1200-2.4 | RV-228B | 1200 | 2400 | 600 | 350 | 1000 | 200 | 1300 | 250 | 400 | 150 | 150 | 200 | 350 | 800 | 1450 | 1150 | 1500 | 3 |
| RVS-1200-3 | RV-378B | 1200 | 3000 | 800 | 350 | 1000 | 200 | 1650 | 250 | 450 | 200 | 150 | 250 | 400 | 950 | 1700 | 1750 | 1500 | 4 |

Standard specifications / dimension table (Above-deck drive type)

| Type | Motor type (2 motors) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | Rubber curtain (quantity) |
|--------------|-----------------------|------|------|------|-----|------|-----|------|-----|------|-----|-----|-----|-----|------|------|------|-----|---------------------------|
| RVS- 600-1.8 | RV- 78B | 600 | 1800 | 1590 | 300 | 500 | 250 | 950 | 350 | 850 | 170 | 80 | 200 | 100 | 1750 | 1300 | 1460 | 500 | 3 |
| RVS- 900-1.8 | RV-158B | 900 | 1800 | 1590 | 300 | 700 | 250 | 950 | 350 | 900 | 170 | 80 | 200 | 100 | 1750 | 1650 | 1700 | 500 | 3 |
| RVS- 900-2.4 | RV-158B | 900 | 2400 | 2150 | 300 | 700 | 250 | 1200 | 450 | 1100 | 170 | 80 | 200 | 150 | 2300 | 1650 | 1700 | 600 | 3 |
| RVS-1200-2.4 | RV-228B | 1200 | 2400 | 2150 | 350 | 1000 | 300 | 1200 | 450 | 1150 | 200 | 100 | 200 | 150 | 2300 | 2000 | 2050 | 600 | 3 |
| RVS-1200-3 | RV-378B | 1200 | 3000 | 2750 | 350 | 1000 | 300 | 1350 | 450 | 1300 | 200 | 100 | 200 | 150 | 3000 | 2000 | 2100 | 800 | 4 |

SHAKEOUT MACHINE

High efficiency casting shakeout machine driven by vibrating motor. By its broad utility, we have been supplying for various kinds of foundry plants.

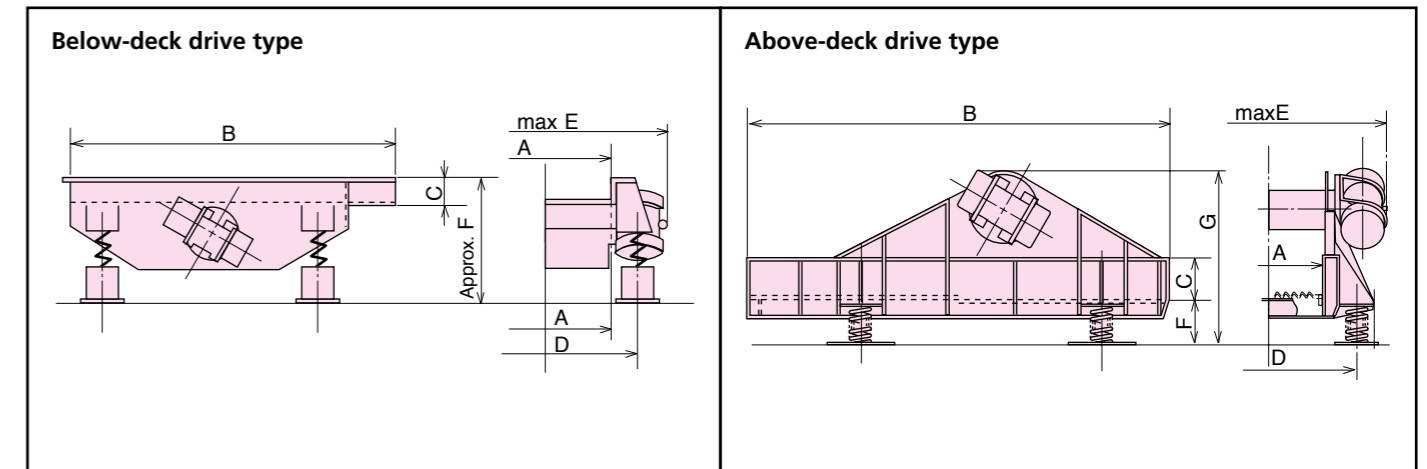
Standard specifications/ dimension table (Below-deck drive type)

| Type | Motor (kW) | Frequency (Hz) 50Hz / 60Hz | Weight (kg) | Applicable controllers | A | B | C | D | E max | F |
|---------------|------------|----------------------------|-------------|------------------------|------|------|-----|------|-------|------|
| RVSO- 800-1.2 | 0.75x2 | 12.0 / 14.2 | 600 | ORV- 7x2R | 800 | 1200 | 300 | 1200 | 1700 | 1000 |
| RVSO- 800-1.5 | 0.75x2 | 12.0 / 14.2 | 600 | ORV- 7x2R | 800 | 1500 | 300 | 1200 | 1700 | 1000 |
| RVSO- 800-2 | 1.5x2 | 12.0 / 14.2 | 1000 | ORV-15x2R | 800 | 2000 | 300 | 1200 | 1850 | 1000 |
| RVSO- 900-1.5 | 1.5x2 | 12.0 / 14.2 | 1000 | ORV-15x2R | 900 | 1500 | 300 | 1300 | 1950 | 1100 |
| RVSO- 900-2 | 1.5x2 | 12.0 / 14.2 | 1200 | ORV-15x2R | 900 | 2000 | 300 | 1300 | 1950 | 1100 |
| RVSO- 900-2.5 | 2.2x2 | 12.0 / 14.2 | 1800 | ORV-22x2R | 900 | 2500 | 300 | 1300 | 2000 | 1100 |
| RVSO-1000-1.5 | 1.5x2 | 12.0 / 14.2 | 1200 | ORV-15x2R | 1000 | 1500 | 300 | 1400 | 2000 | 1200 |
| RVSO-1000-2 | 2.2x2 | 12.0 / 14.2 | 1800 | ORV-22x2R | 1000 | 2000 | 300 | 1400 | 2000 | 1200 |
| RVSO-1000-2.5 | 3.7x2 | 12.0 / 14.2 | 3000 | ORV-37x2R | 1000 | 2500 | 300 | 1400 | 2100 | 1200 |
| RVSO-1200-2 | 3.7x2 | 12.0 / 14.2 | 3000 | ORV-37x2R | 1200 | 2000 | 350 | 1600 | 2200 | 1300 |
| RVSO-1200-2.5 | 3.7x2 | 12.0 / 14.2 | 3000 | ORV-37x2R | 1200 | 2500 | 350 | 1600 | 2200 | 1300 |
| RVSO-1200-3 | 3.7x2 | 12.0 / 14.2 | 3300 | ORV-37x2R | 1200 | 3000 | 350 | 1600 | 2200 | 1300 |
| RVSO-1200-3.5 | 5.5x2 | 12.0 / 14.2 | 4400 | ORV-55x2R | 1200 | 3500 | 350 | 1600 | 2500 | 1300 |
| RVSO-1200-4 | 5.5x2 | 12.0 / 14.2 | 4600 | ORV-55x2R | 1200 | 4000 | 350 | 1600 | 2500 | 1300 |
| RVSO-1500-2.5 | 3.7x2 | 12.0 / 14.2 | 3300 | ORV-37x2R | 1500 | 2500 | 350 | 2000 | 2600 | 1400 |
| RVSO-1500-3 | 5.5x2 | 12.0 / 14.2 | 4600 | ORV-55x2R | 1500 | 3000 | 350 | 2000 | 2900 | 1400 |
| RVSO-1500-3.5 | 5.5x2 | 12.0 / 14.2 | 4800 | ORV-55x2R | 1500 | 3500 | 350 | 2000 | 2900 | 1400 |
| RVSO-1500-4 | 5.5x2 | 12.0 / 14.2 | 5000 | ORV-55x2R | 1500 | 4000 | 350 | 2000 | 2900 | 1400 |
| RVSO-2000-3 | 5.5x2 | 12.0 / 14.2 | 5000 | ORV-55x2R | 2000 | 3000 | 350 | 2800 | 3500 | 1500 |
| RVSO-2000-3.5 | 7.5x2 | 12.0 / 14.2 | 6000 | ORV-75x2R | 2000 | 3500 | 350 | 2800 | 3650 | 1500 |
| RVSO-2000-4 | 7.5x2 | 12.0 / 14.2 | 6500 | ORV-75x2R | 2000 | 4000 | 350 | 2800 | 3650 | 1500 |

Standard specifications/ dimension table (Above-deck drive type)

| Type | Motor (kW) | Frequency (Hz) 50Hz / 60Hz | Weight (kg) | Applicable controllers | A | B | C | D | E | F | G |
|---------------|------------|----------------------------|-------------|------------------------|------|------|-----|------|------|-----|------|
| RVSO- 800-3.5 | 3.7x2 | 12.0 / 14.2 | 2500 | ORV-37x2R | 800 | 3500 | 300 | 1200 | 1700 | 400 | 1500 |
| RVSO- 800-4 | 3.7x2 | 12.0 / 14.2 | 2800 | ORV-37x2R | 800 | 4000 | 300 | 1200 | 1700 | 400 | 1500 |
| RVSO- 900-3.5 | 3.7x2 | 12.0 / 14.2 | 2800 | ORV-37x2R | 900 | 3500 | 300 | 1300 | 1800 | 400 | 1600 |
| RVSO- 900-4 | 3.7x2 | 12.0 / 14.2 | 3000 | ORV-37x2R | 900 | 4000 | 300 | 1300 | 1800 | 400 | 1600 |
| RVSO-1000-3.5 | 3.7x2 | 12.0 / 14.2 | 3000 | ORV-37x2R | 1000 | 3500 | 300 | 1500 | 1900 | 400 | 1700 |
| RVSO-1000-4 | 3.7x2 | 12.0 / 14.2 | 3300 | ORV-37x2R | 1000 | 4000 | 300 | 1500 | 1900 | 400 | 1700 |
| RVSO-1200-3.5 | 3.7x2 | 12.0 / 14.2 | 3300 | ORV-37x2R | 1200 | 3500 | 350 | 1700 | 2500 | 400 | 1800 |
| RVSO-1200-4 | 5.5x2 | 12.0 / 14.2 | 4600 | ORV-55x2R | 1200 | 4000 | 350 | 1700 | 2500 | 400 | 1800 |
| RVSO-1500-3.5 | 5.5x2 | 12.0 / 14.2 | 4800 | ORV-55x2R | 1500 | 3500 | 350 | 2000 | 2900 | 400 | 1900 |
| RVSO-1500-4 | 5.5x2 | 12.0 / 14.2 | 5000 | ORV-55x2R | 1500 | 4000 | 350 | 2000 | 2900 | 400 | 1900 |

Outer dimensions



LOUVER CONVEYOR

This conveyor separates casting metal and sand while transporting materials. Various kinds of screens which are suitable for every transporting materials and needs are available.

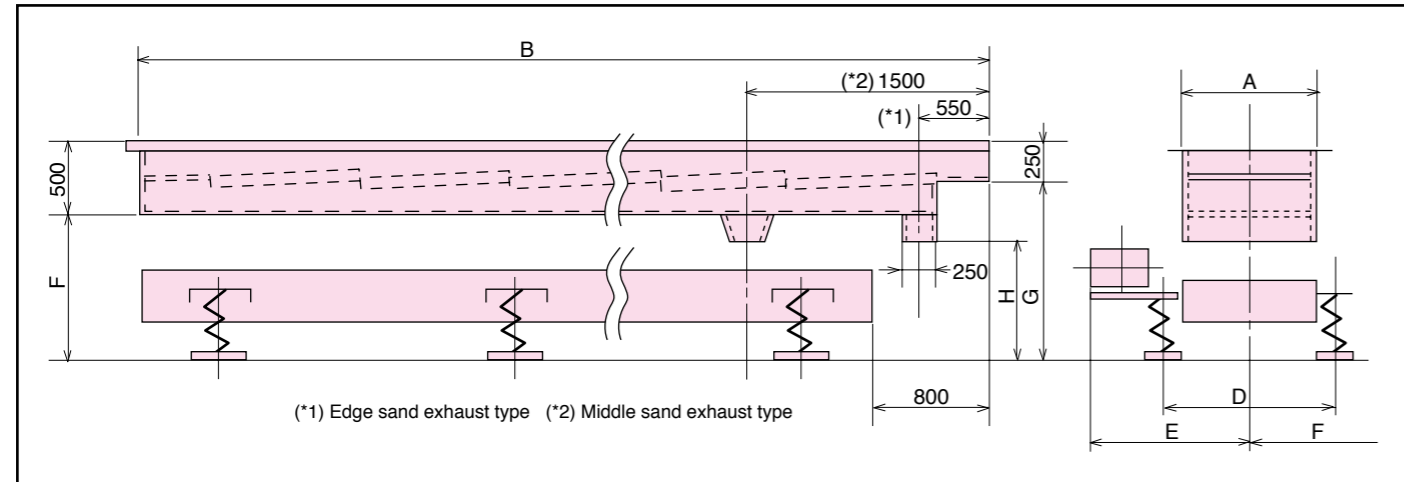
Basic Specifications

| Type | Stroke (mm) | Frequency (Hz) | Trough length(m) | | | | | Anchor bolt (Hole in anchor) | |
|------------|-------------|----------------|------------------|-------|-------|-------|-------|------------------------------|-----|
| | | | 5 | 6 | 8 | 10 | 12 | | |
| GMVCB- 600 | 10-18 | 7.5-10 | Motor (kW) | 3.7 | 3.7 | 3.7 | 2.2x2 | 3.7x2 | M16 |
| | | | Weight (kg) | 2700 | 3200 | 4200 | 5100 | 6100 | |
| GMVCB- 750 | 10-18 | 7.5-10 | Motor (kW) | 3.7 | 3.7 | 2.2x2 | 2.2x2 | 3.7x2 | M16 |
| | | | Weight (kg) | 3200 | 3800 | 5000 | 6100 | 7300 | |
| GMVCB- 900 | 10-18 | 7.5-10 | Motor (kW) | 3.7 | 3.7 | 2.2x2 | 3.7x2 | 3.7x2 | M16 |
| | | | Weight (kg) | 3700 | 4300 | 5700 | 7300 | 8400 | |
| GMVCB-1050 | 10-18 | 7.5-10 | Motor (kW) | 3.7 | 2.2x2 | 3.7x2 | 3.7x2 | 5.5x2 | M16 |
| | | | Weight (kg) | 4200 | 5000 | 6400 | 7900 | 9500 | |
| GMVCB-1200 | 10-18 | 7.5-10 | Motor (kW) | 2.2x2 | 2.2x2 | 3.7x2 | 3.7x2 | 5.5x2 | M16 |
| | | | Weight (kg) | 4600 | 5500 | 7200 | 9000 | 10800 | |
| GMVCB-1500 | 10-18 | 7.5-10 | Motor (kW) | 2.2x2 | 2.2x2 | 3.7x2 | 5.5x2 | 5.5x2 | M16 |
| | | | Weight (kg) | 4900 | 5900 | 7800 | 9700 | 11600 | |

*Motor type : TEFC type.
*When using punching out, make sure not to input material directly, but absorb shock once.

Outer dimensions (Totally Enclosed Fan Cooled type) Insulation class : E

Unit : mm



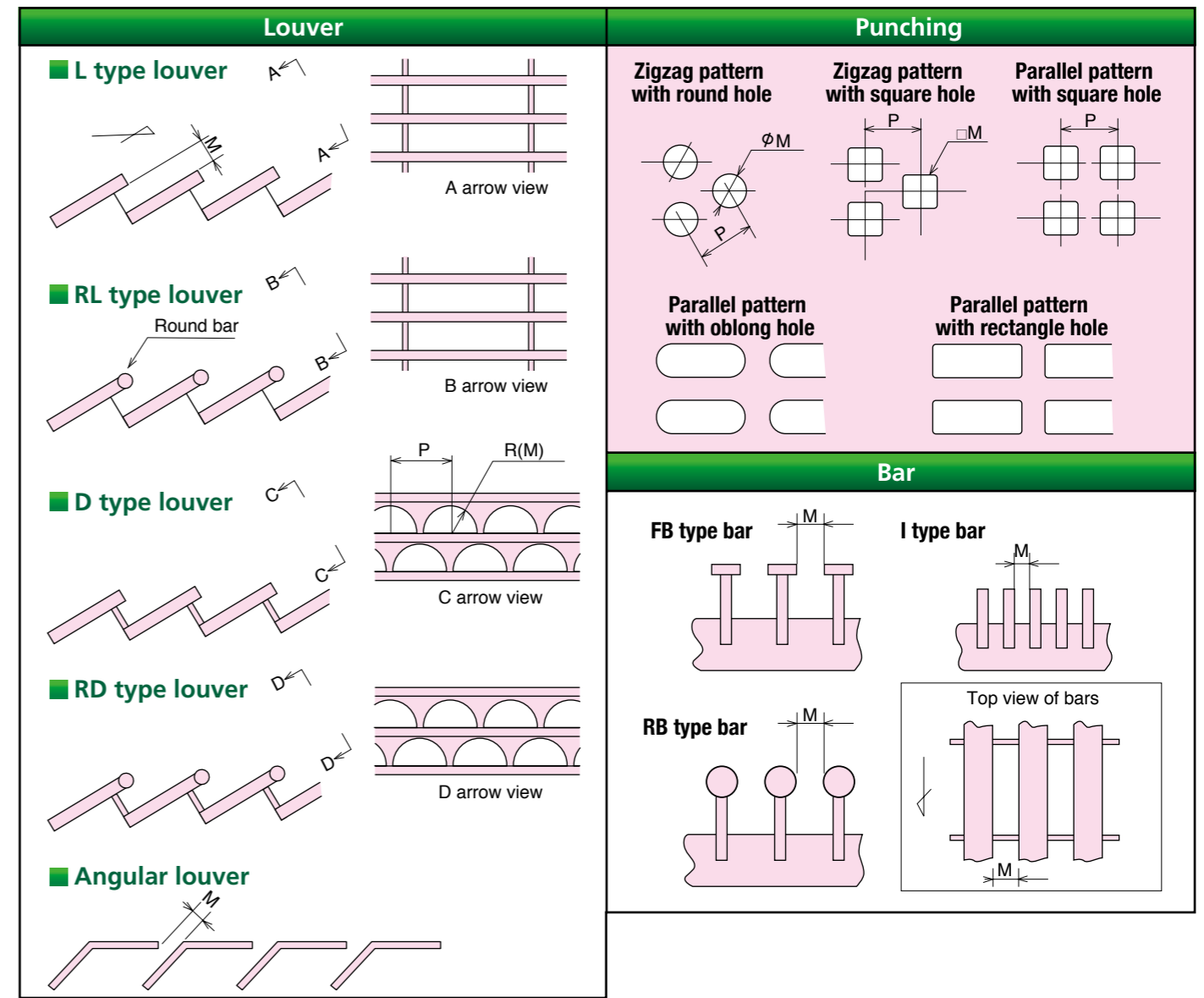
Dimensions table

Unit : mm

| Type | A | B (Trough length(m)) | | | | | D | EMAX | F | G | H |
|------------|------|----------------------|------|------|-------|-------|------|------|-----|------|-----|
| | | 5 | 6 | 8 | 10 | 12 | | | | | |
| GMVCB- 600 | 600 | 5000 | 6000 | 8000 | 10000 | 12000 | 850 | 950 | 850 | 1100 | 650 |
| GMVCB- 750 | 750 | 5000 | 6000 | 8000 | 10000 | 12000 | 1000 | 1100 | 900 | 1150 | 700 |
| GMVCB- 900 | 900 | 5000 | 6000 | 8000 | 10000 | 12000 | 1150 | 1250 | 900 | 1150 | 700 |
| GMVCB-1050 | 1050 | 5000 | 6000 | 8000 | 10000 | 12000 | 1300 | 1350 | 900 | 1150 | 700 |
| GMVCB-1200 | 1200 | 5000 | 6000 | 8000 | 10000 | 12000 | 1450 | 1400 | 950 | 1200 | 750 |
| GMVCB-1500 | 1500 | 5000 | 6000 | 8000 | 10000 | 12000 | 1750 | 1550 | 950 | 1200 | 750 |

*Select a trough length from upper chart
*BM type driving part available

Examples of various screens



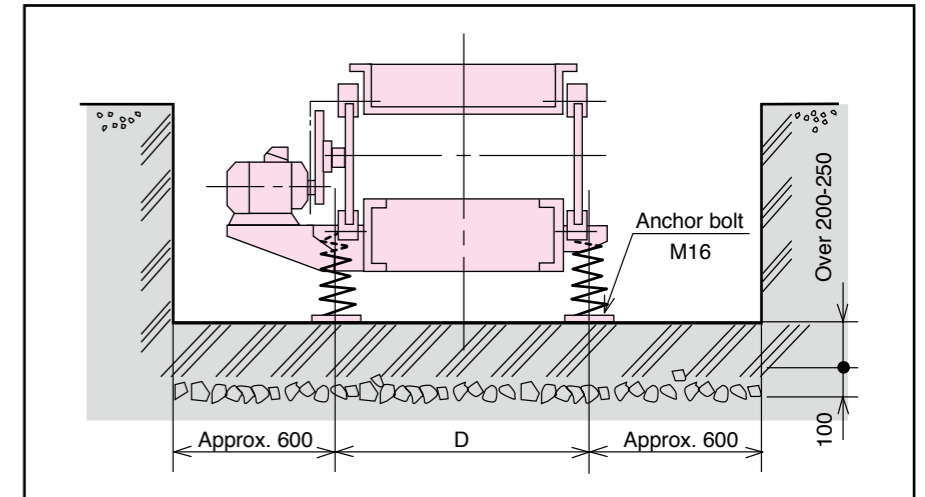
M : Aperture P : Pitch

About an installation space

Unit : mm

When installing MVCB type balanced conveyor or GMVCB type louver conveyor at narrow space such as a pit, you have to consider whether maintenance and checking out can be possible or not.

- Consult with us if there is risk of vibration pollution.
- When you install a machine on a table or upstairs, consider dynamic load.
- Thickness of concrete
 - Below GMVCB-1050 Over 200mm
 - Over GMVCB-1200 Over 250mm

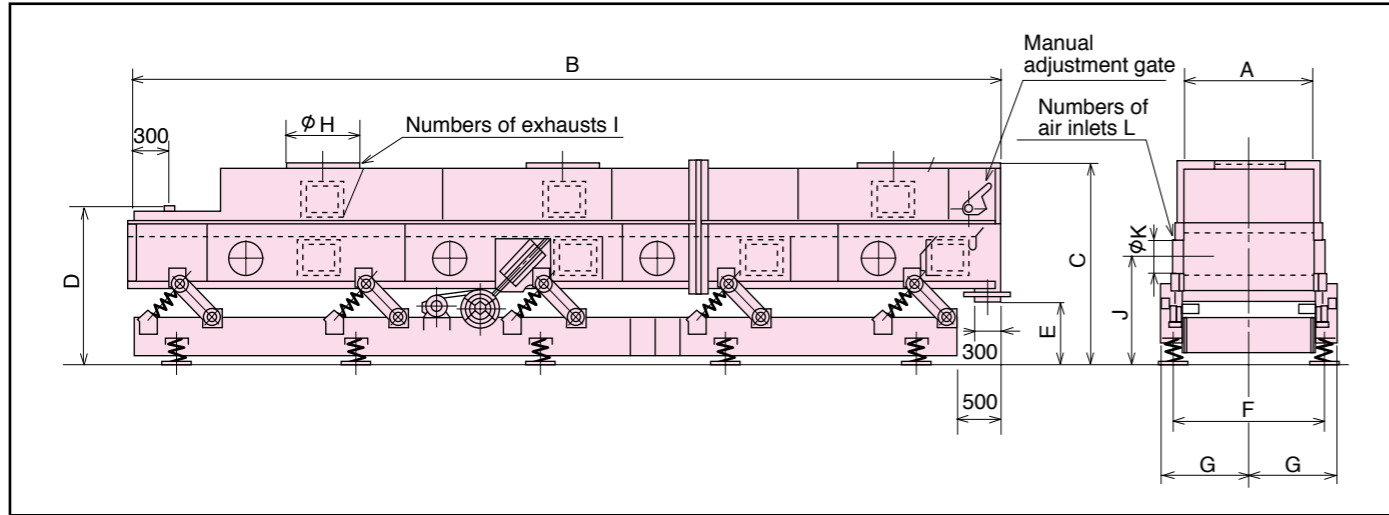


VIBRATING SAND COOLER

Original vibrating conveyor which efficiently and continuously cool down hot molding sand while transporting.

Outer dimensions

Unit : mm



Standard Specifications

Unit : mm

| Type | Effective area (t/Hr)m | Required air volume (Nm ³ /min) | Motor (kW) | Weight (kg) | A | B | C | D | E | F | G | H | I | J | K | L | |
|---------------|------------------------|--|------------|-------------|-------|------|-------|------|------|-----|------|------|-----|---|------|-----|---|
| CMVCB- 450- 5 | 3.2 | 1.5 | 55 | 0.75x1 | 2000 | 450 | 5000 | 1900 | 1550 | 550 | 700 | 580 | 430 | 2 | 1000 | 215 | 2 |
| CMVCB- 600- 7 | 6.7 | 3.2 | 115 | 1.5x1 | 3100 | 600 | 7000 | 1900 | 1550 | 550 | 850 | 680 | 430 | 3 | 1000 | 215 | 3 |
| CMVCB- 750- 9 | 11.4 | 5.4 | 200 | 2.2x1 | 4900 | 750 | 9000 | 2000 | 1550 | 550 | 1000 | 680 | 573 | 3 | 1000 | 318 | 4 |
| CMVCB- 900-10 | 15.7 | 7.5 | 270 | 2.2x1 | 5100 | 900 | 10000 | 2000 | 1550 | 550 | 1150 | 750 | 573 | 4 | 1000 | 318 | 4 |
| CMVCB-1200 -9 | 19.3 | 9.2 | 335 | 3.7x1 | 6500 | 1200 | 9000 | 2100 | 1650 | 650 | 1450 | 900 | 700 | 3 | 1100 | 318 | 4 |
| CMVCB-1500-10 | 29.5 | 14.0 | 510 | 3.7x2 | 10200 | 1500 | 10000 | 2250 | 1800 | 700 | 1750 | 1050 | 840 | 4 | 1200 | 382 | 4 |
| CMVCB-1200-12 | 26.3 | 12.5 | 450 | 3.7x1 | 8300 | 1200 | 12000 | 2100 | 1650 | 650 | 1450 | 900 | 700 | 4 | 1100 | 318 | 5 |
| CMVCB-1500-12 | 33.4 | 15.9 | 575 | 3.7x2 | 12100 | 1500 | 12000 | 2250 | 1800 | 700 | 1750 | 1050 | 840 | 4 | 1200 | 382 | 5 |
| CMVCB-1500-14 | 39.3 | 18.7 | 675 | 3.7x2 | 14100 | 1500 | 14000 | 2250 | 1800 | 700 | 1750 | 1050 | 840 | 5 | 1200 | 382 | 7 |
| CMVCB-1800-14 | 46.3 | 22.0 | 800 | 3.7x2 | 15500 | 1800 | 14000 | 2400 | 1950 | 850 | 2050 | 1200 | 995 | 5 | 1350 | 382 | 7 |
| CMVCB-1800-16 | 53.4 | 25.4 | 920 | 3.7x2 | 17900 | 1800 | 16000 | 2400 | 1950 | 850 | 2050 | 1400 | 995 | 6 | 1350 | 382 | 8 |
| CMVCB-2000-16 | 58.3 | 27.3 | 1000 | 3.7x2 | 26000 | 2000 | 16000 | 2400 | 1950 | 850 | 2250 | 1500 | 995 | 6 | 1350 | 382 | 8 |
| CMVCB-2000-18 | 65.8 | 31.3 | 1130 | 3.7x2 | 29200 | 2000 | 18000 | 2400 | 1900 | 850 | 2250 | 1500 | 995 | - | - | - | - |

- Capacity in upper chart is applicable when molding sand is 0.15mm~0.84mm, inlet temperature 120°C, outlet temperature 40°C, inlet moisture 3%WB, outlet moisture 0.6%WB, cooling air atmosphere 30°C, relative humidity of cooling air 80%, and punching holeφ2.2 with hole area 2.5% of perforated plate.
- Adjust cooling time with adjusting a gate.
- Equipment which have more high capacity than upper charts is available when required.
- Material should be input continuously, and evenly to this conveyor.

DRUM SHAKER

By solving dust problem of separating process of casting metal and molding sand, this shaker contributes significant improvement of working environment. This shaker improves yield ratio without damaging product with original ellipsoidal vibrating method. Moreover, it has remarkable advance about product cooling.

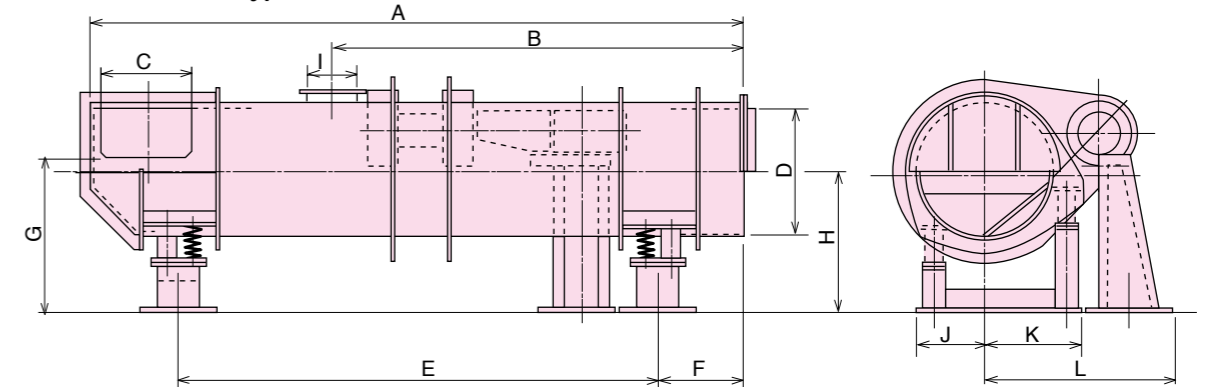
Standard Specifications

| Type | Capacity (t/Hr) | Motor (kW) | Weight (kg) | Air volume of dust collection (kg) | Vibration insulation method |
|--------------|-----------------|------------|-------------|------------------------------------|-----------------------------|
| RDSO-1200- 4 | 20 | 22 | 4200 | 150 | Single |
| RDSO-1200- 6 | 30 | 22 | 5200 | 150 | Single |
| RDSO-1400- 6 | 40 | 22 | 5500 | 250 | Single |
| RDSO-1600- 6 | 50 | 37 | 10300 | 300 | Double |
| RDSO-1800- 7 | 70 | 45 | 14200 | 350 | Double |
| RDSO-2000- 8 | 90 | 45 | 21800 | 450 | Double |
| RDSO-2500-10 | 110 | 45x2 | 33800 | 550 | Double |
| RDSO-2500-10 | 140 | 45x2 | 37100 | 700 | Double |

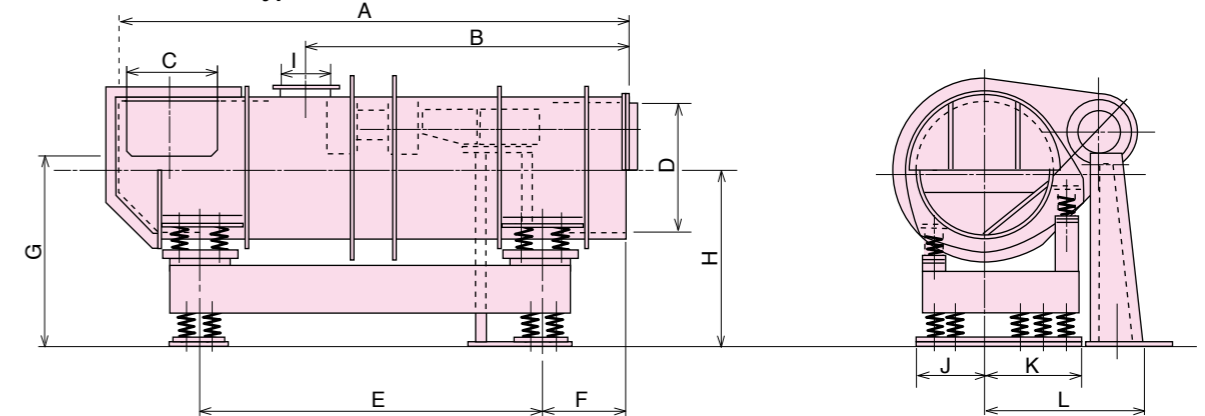
- Transportation speed can be adjustable by adjusting angle (0-2°) of a drum.
- Liner is SUS304 for inlet, and SS-41 for other parts.
- Sound isolation is required because this machine generate ultra-low frequency air vibration.
- An exclusive use control board is available.

Outer dimensions

Single vibration isolation type



Double vibration isolation type



Dimensions table

Unit : mm

| Type | A | B | C | D | E | F | G | H | I | J | K | L |
|--------------|-------|------|------|----------|------|------|------|------|---------|------|------|------|
| RDSO-1200- 4 | 4000 | 800 | 850 | φ 1219.2 | 2300 | 800 | 1470 | 1230 | φ 450 | 600 | 900 | 1750 |
| RDSO-1200- 6 | 6000 | 3800 | 850 | φ 1219.2 | 4400 | 800 | 1500 | 1200 | φ 450 | 600 | 900 | 1750 |
| RDSO-1400- 6 | 6000 | 3800 | 1000 | φ 1400 | 4400 | 800 | 1500 | 1400 | φ 500 | 650 | 1000 | 1540 |
| RDSO-1600- 6 | 6000 | 3800 | 1100 | φ 1600 | 4000 | 1000 | 2300 | 2000 | φ 550 | 700 | 1100 | 2000 |
| RDSO-1800- 7 | 7000 | 4500 | 1350 | φ 1800 | 5000 | 1000 | 2770 | 2080 | φ 650 | 750 | 1200 | 2100 |
| RDSO-2000- 8 | 8000 | 4000 | 1500 | φ 2000 | 5600 | 1200 | 2940 | 2160 | φ 700 | 850 | 1300 | 2200 |
| RDSO-2200-10 | 10000 | 5800 | 1650 | φ 2200 | 7400 | 1300 | 3220 | 2330 | φ 750 | 950 | 1450 | 2500 |
| RDSO-2500-10 | 10000 | 4200 | 1900 | φ 2500 | 7200 | 1400 | 3370 | 2430 | φ 650x2 | 1050 | 2500 | 2600 |

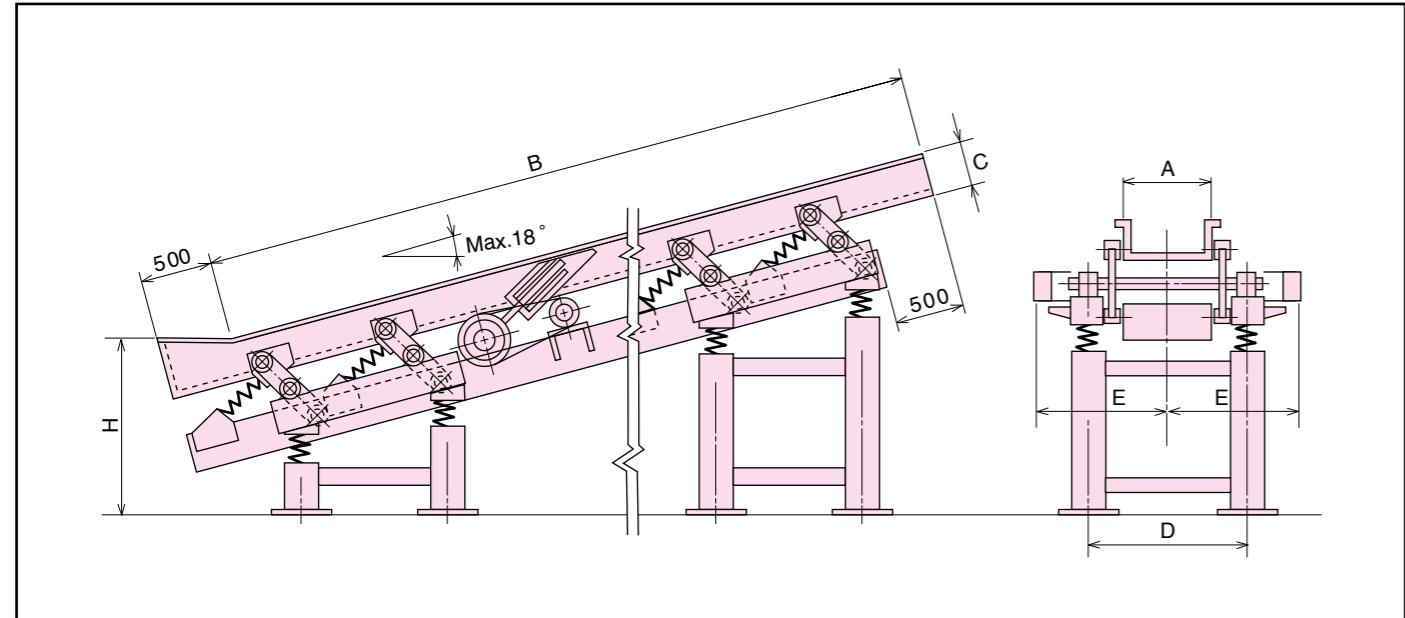
SLOPE CONVEYOR

This revolutionary conveyor transport material from downstairs to upstairs, which conventional vibrating conveyors are not capable. Moreover, slope conveyor has more characteristics such as, sealed structure, high durability, and easy jointing to post-process.

| Transportation capacity | | Tilt angle: 18° |
|-------------------------|-----------------|-----------------|
| Type | Capacity (t/Hr) | |
| BM- 450 | 12 | |
| BM- 600 | 16 | |
| BM- 750 | 20 | |
| BM- 900 | 24 | |
| BM-1050 | 28 | |

*Capacity of upper chart is when apparent specific gravity is 1.5, and humidity is 3%.

Outer dimensions



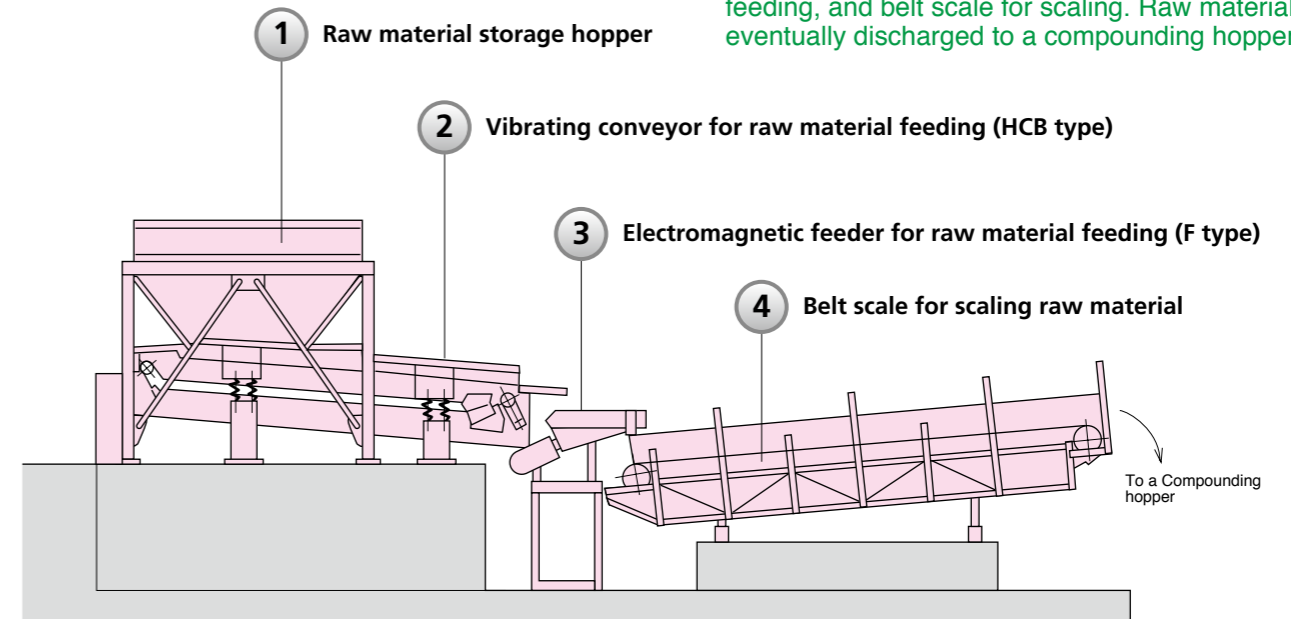
Dimensions table

| Type | A | Length B and motor capacity | | | | C | D | H | E(Max) | |
|---------|------|-----------------------------|-------|-------|-------|-------|-----|------|--------|------|
| BM- 450 | 450 | Length | 5000 | 10000 | 15000 | 20000 | 200 | 950 | 1300 | 950 |
| | | Motor(kW) | 5.5 | 3.7x2 | 5.5x2 | 5.5x2 | | | | |
| BM- 600 | 600 | Length | 5000 | 10000 | 15000 | 20000 | 250 | 1100 | 1350 | 1100 |
| | | Motor(kW) | 5.5 | 5.5x2 | 5.5x2 | 7.5x2 | | | | |
| BM- 750 | 750 | Length | 5000 | 10000 | 15000 | 20000 | 250 | 1250 | 1350 | 1250 |
| | | Motor(kW) | 3.7x2 | 5.5x2 | 7.5x2 | 11x2 | | | | |
| BM- 900 | 900 | Length | 5000 | 10000 | 15000 | 20000 | 250 | 1400 | 1350 | 1300 |
| | | Motor(kW) | 3.7x2 | 5.5x2 | 7.5x2 | 11x2 | | | | |
| BM-1050 | 1050 | Length | 5000 | 10000 | 15000 | — | 250 | 1550 | 1350 | 1400 |
| | | Motor(kW) | 5.5x2 | 7.5x2 | 11x2 | — | | | | |

*An inverter panel could be used because the conveyor should be arranged according to slope angle, transporting material shape, and metal/sand ratio.

RAW MATERIAL FEEDING, SCALING, AND COMPOUNDING DEVICE EXAMPLE

This device is combined hopper for storage raw material, vibrating conveyor and electromagnetic feeder for feeding, and belt scale for scaling. Raw material will be eventually discharged to a compounding hopper.



SEPARATING AND RETURNING OF MOLDING SAND BY DRUM SHAKER EXAMPLE

After pouring molten metal, separated casting metal and sands are transported to upstairs by a slope conveyor, and discharged into a drum shaker. Drum shaker transport casting and sand while cooling and braking lumps, and discharge for vibrating screen. Castings are separated by molding sands, and transported to further processes. At this point, sand lumps are crushed again. Separated sand will be send back to a sand returning line by using a vibrating conveyor, which located under a screen.

