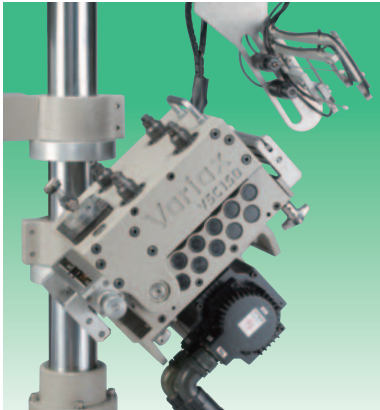


# Producing the ideal material loop.

**Variax**

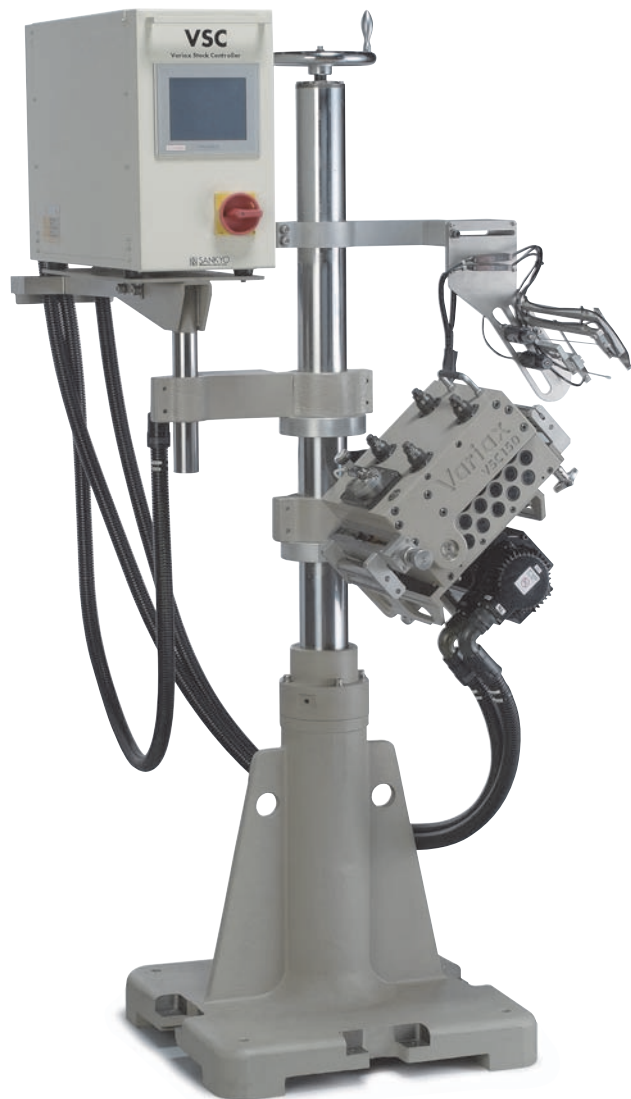
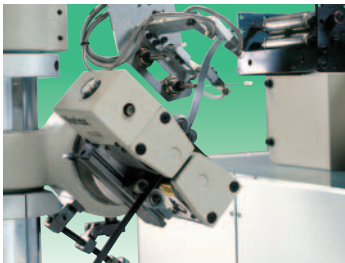
## VSC series

VSC70/150/400



## VLC series

VLC50/150/400



## Features

- Employ the high-resolution high-torque servo motor drive.
- To eliminate the bending of the material near the entrance loop.
- Possible to supply-eject the material at creep speed.
- Feed conditions are set by full-color touch screen.
- Integrating a leveler function that corrects the rolling habits of a material.

Sankyo developed the NC loop controller in order to create the ideal loop shapes required by the feeding device, using servo technology. This VLC sets up optimum feeding by forming ideal loops in the space allowed, taking advantage of the spring characteristics of materials and stabilizing the loop using a sensor and servo control. The VLC has excellent handling characteristics in that it does not scratch, kink or dent material and can improve both quality and productivity.

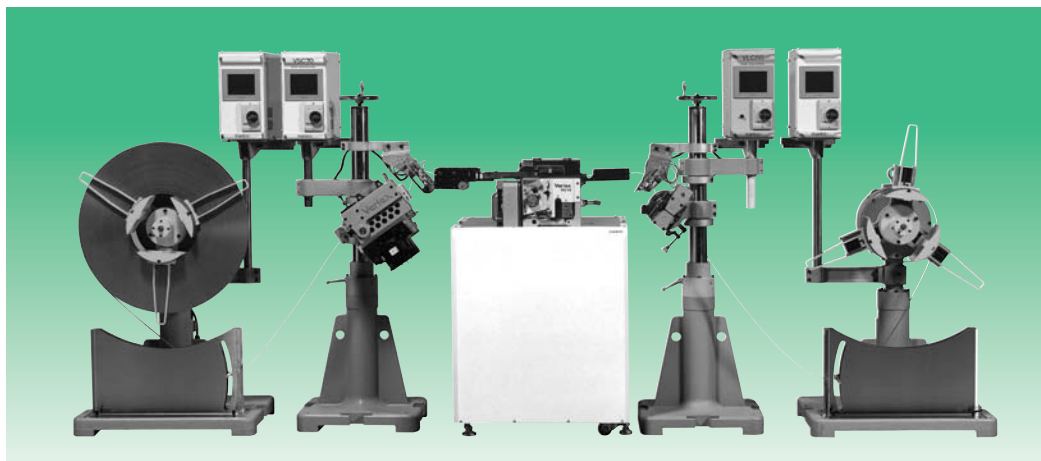
# Outline and Specifications

## Specifications (VSC)

| Size                       | Unit              | VSC70                        | VSC150                       | VSC400                        |
|----------------------------|-------------------|------------------------------|------------------------------|-------------------------------|
| Feed length                | mm                | 0 to 999                     | 0 to 999                     | 0 to 999                      |
| Material thickness         | mm                | 0.2 to 1                     | 0.2 to 1                     | 0.2 to 1                      |
| Grip force                 | N                 | 350(at 490-kPa air pressure) | 700(at 490-kPa air pressure) | 1470(at 490-kPa air pressure) |
| Maximum material width     | mm                | 70                           | 150                          | 400                           |
| Maximum strokes            | min <sup>-1</sup> | 3000                         | 3000                         | 3000                          |
| Maximum feed rate          | m/min             | 100                          | 100                          | 100                           |
| Operating air pressure     | kPa               | 490 to 690                   | 490 to 690                   | 490 to 690                    |
| Operating power supply     | V                 | 200 VAC three phase, ±10%    |                              |                               |
| Paint color                |                   | 5Y7/1                        | 5Y7/1                        | 5Y7/1                         |
| Product weight             | kg                | Approx. 320(Including stand) | Approx. 330(Including stand) | Approx. 1000                  |
| Product Specification Page |                   | P3                           | P4                           | P5                            |

## Specifications (VLC)

| Size                       | Unit              | VLC50  | VLC150                        | VLC400                        |
|----------------------------|-------------------|--|-------------------------------|-------------------------------|
| Feed length                | mm                | 0 to 999   | 0 to 999                      | 0 to 999                      |
| Material thickness         | mm                | 0.2 to 1   | 0.2 to 1                      | 0.2 to 1                      |
| Grip force                 | N                 | 350(at 490-kPa air pressure)                                 | 1500(at 490-kPa air pressure) | 1500(at 490-kPa air pressure) |
| Maximum material width     | mm                | 50   | 150                           | 400                           |
| Maximum strokes            | min <sup>-1</sup> | 3000   | 3000                          | 3000                          |
| Maximum feed rate          | m/min             | 150  | 100                           | 100                           |
| Operating air pressure     | kPa               | 490 to 588   | 490 to 690                    | 490 to 690                    |
| Operating power supply     | V                 | 200 to 230 VAC $\pm 10\%$ / $-15\%$ , single phase, 50/60 Hz |                               |                               |
| Paint color                |                   | 5Y7/1  | 5Y7/1                         | 5Y7/1                         |
| Product weight             | kg                | 250  | 270                           | 330                           |
| Product Specification Page |                   | P7   | P8                            | P9                            |



An example of installing the VSC series in front of a feeder and the VLC series at a later stage in the press process

# VSC70/VSC150

## VSC70 overall dimensions

[Unit:mm]

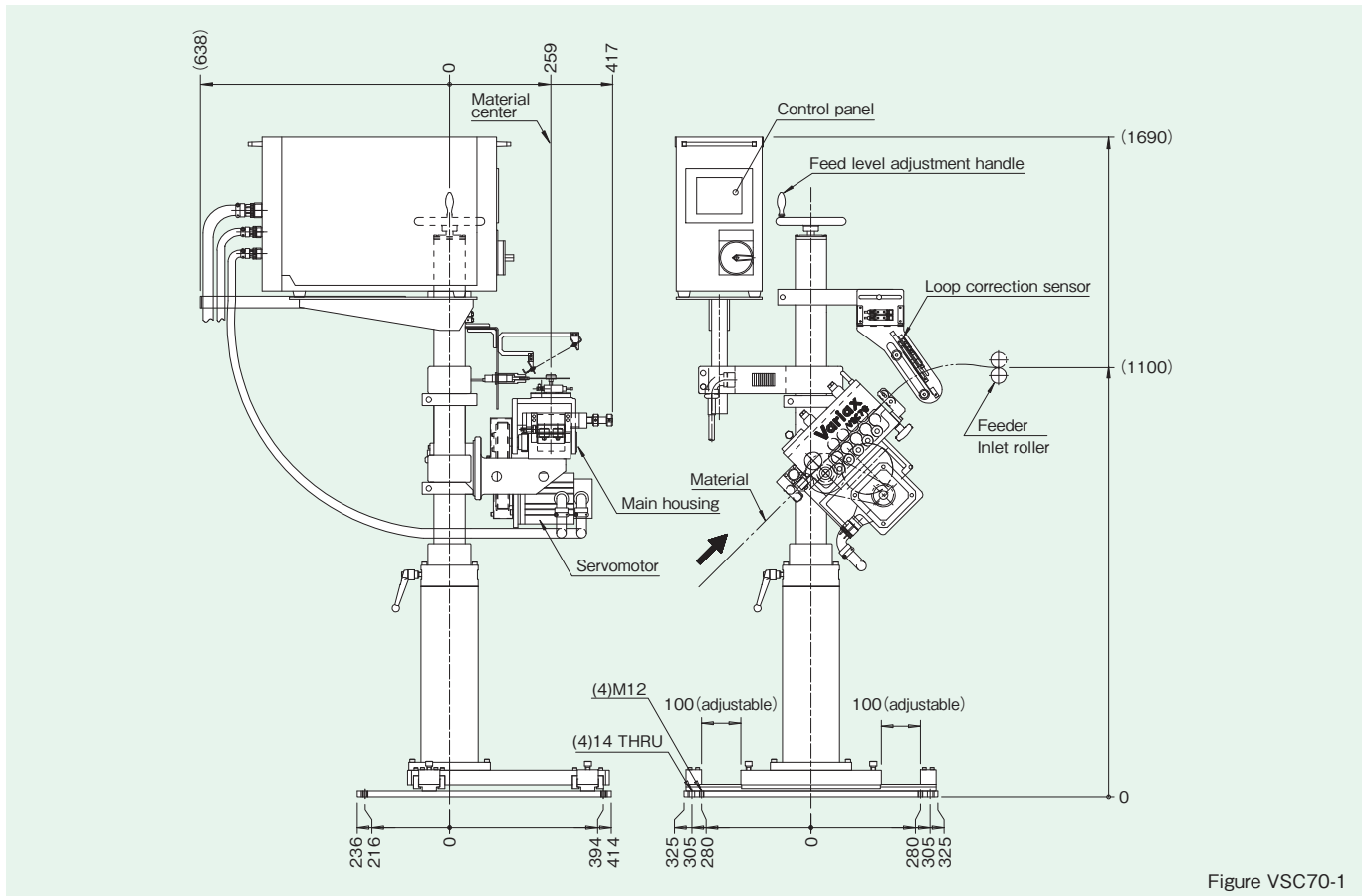


Figure VSC70-1

## VSC70 main housing dimensions

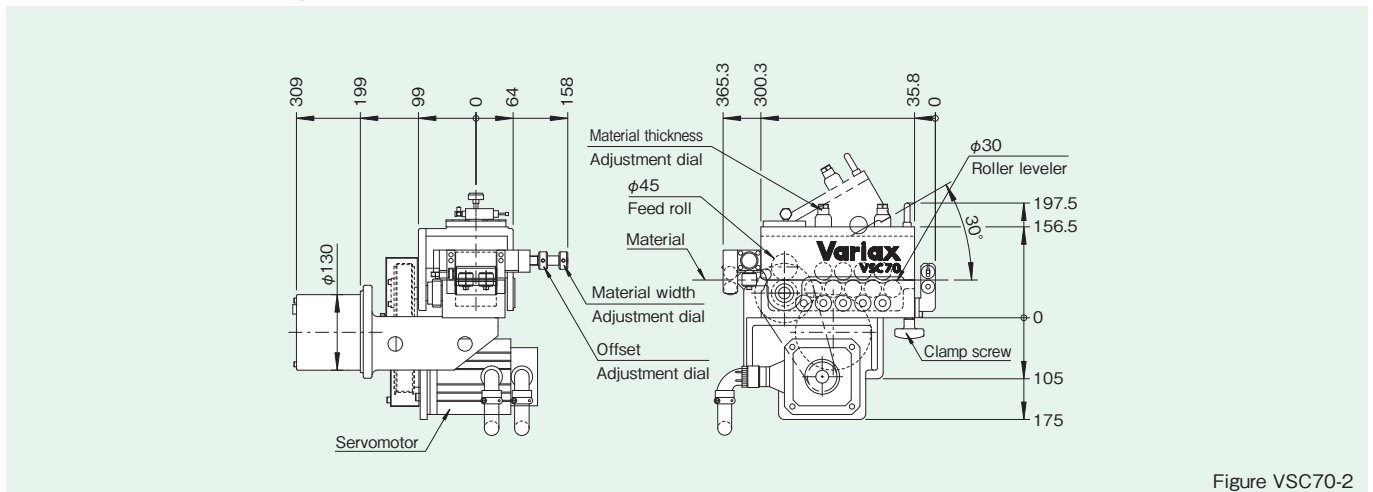


Figure VSC70-2

## Specification table

| Characteristic            | Data                              |
|---------------------------|-----------------------------------|
| Feed length               | 0 to 999 [mm]                     |
| Material thickness        | 0.2 to 1 [mm]                     |
| Gripping force            | 350 (at 490-kPa air pressure) [N] |
| Maximum material width    | 70 [mm]                           |
| Maximum number of strokes | 3000 [min <sup>-1</sup> ]         |
| Maximum feed speed        | 100 [m/min]                       |

| Characteristic              | Data                               |
|-----------------------------|------------------------------------|
| Operating air pressure      | 490 to 690 [kPa]                   |
| Operating power supply      | 200 VAC three phase [V]            |
| Input power supply capacity | 7.5 [kVA]                          |
| Product weight              | Approx. 320 (Including stand) [kg] |

1[N·m] ≒ 0.102[kgf·m]

## VSC150 overall dimensions

[Unit:mm]

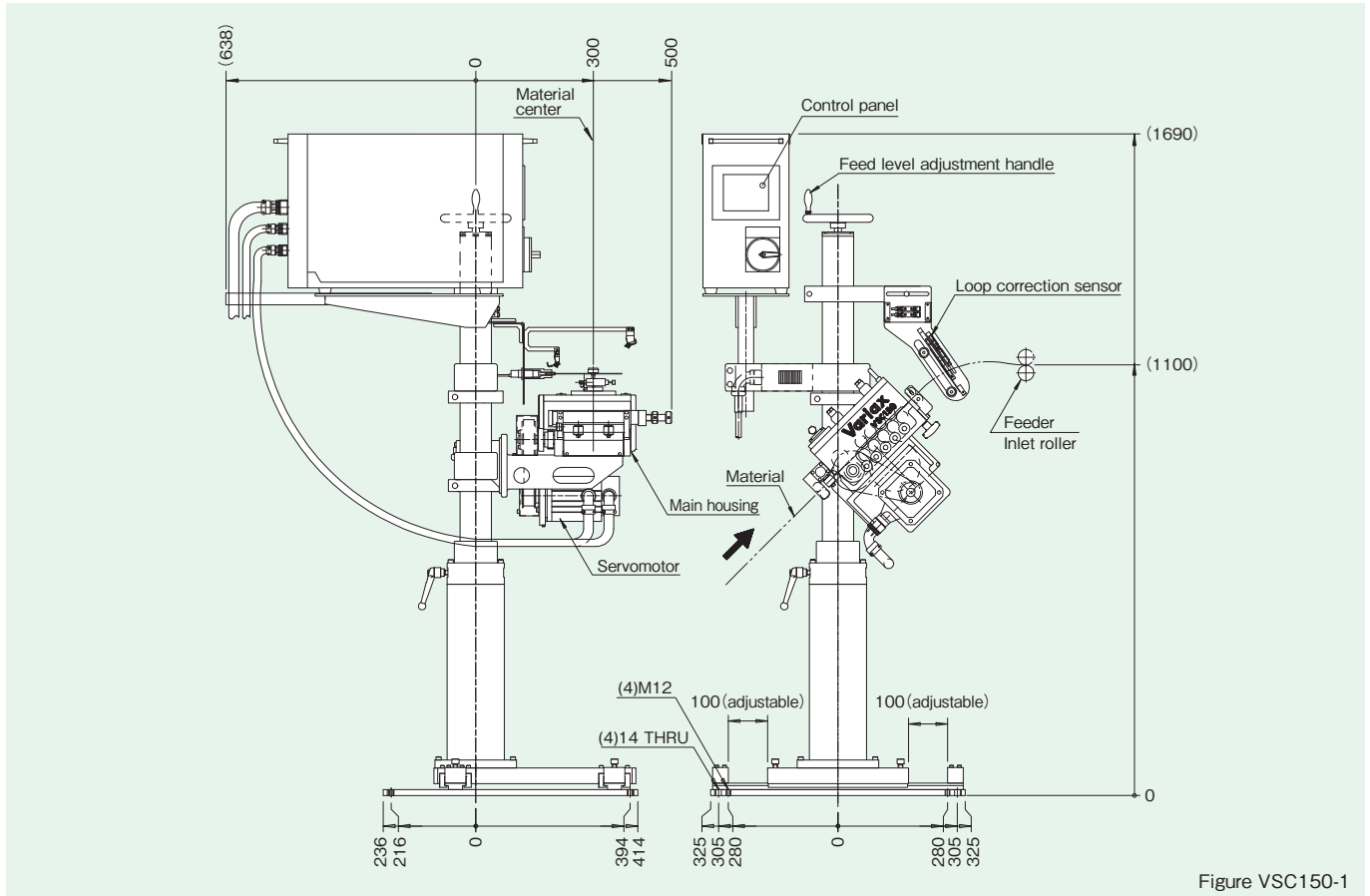


Figure VSC150-1

## VSC150 main housing dimensions

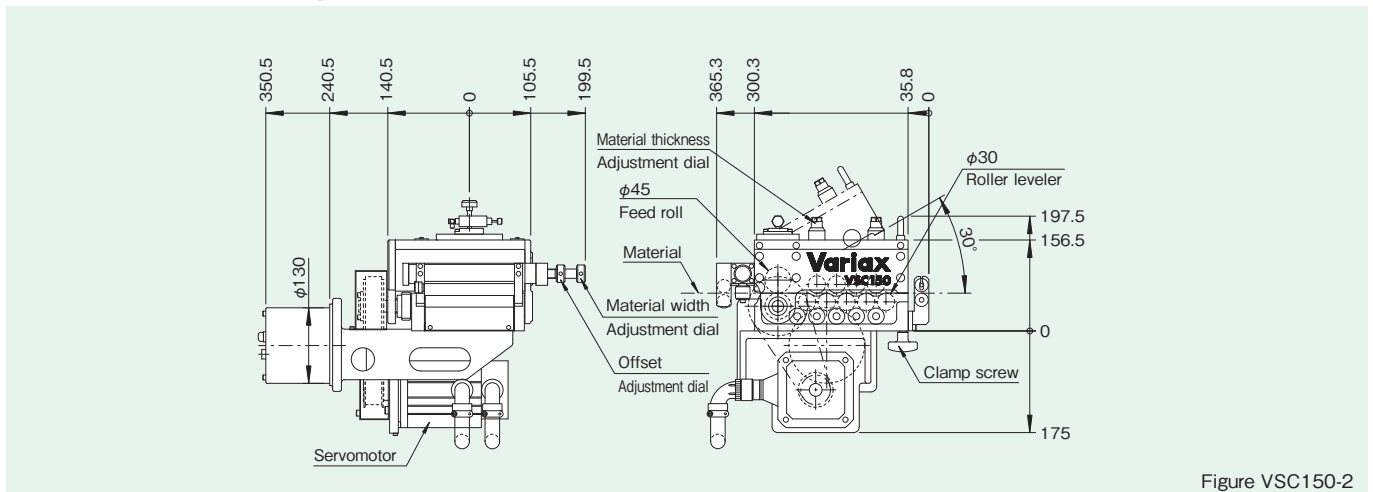


Figure VSC150-2

## Specification table

| Characteristic            | Data                              |
|---------------------------|-----------------------------------|
| Feed length               | 0 to 999 [mm]                     |
| Material thickness        | 0.2 to 1 [mm]                     |
| Gripping force            | 700 (at 490-kPa air pressure) [N] |
| Maximum material width    | 150 [mm]                          |
| Maximum number of strokes | 3000 [min <sup>-1</sup> ]         |
| Maximum feed speed        | 100 [m/min]                       |

| Characteristic              | Data                               |
|-----------------------------|------------------------------------|
| Operating air pressure      | 490 to 690 [kPa]                   |
| Operating power supply      | 200 VAC three phase [V]            |
| Input power supply capacity | 7.5 [kVA]                          |
| Product weight              | Approx. 330 (Including stand) [kg] |

1[N·m] ≅ 0.102[kgf·m]

# VSC400

## VSC400 overall dimensions

[Unit:mm]

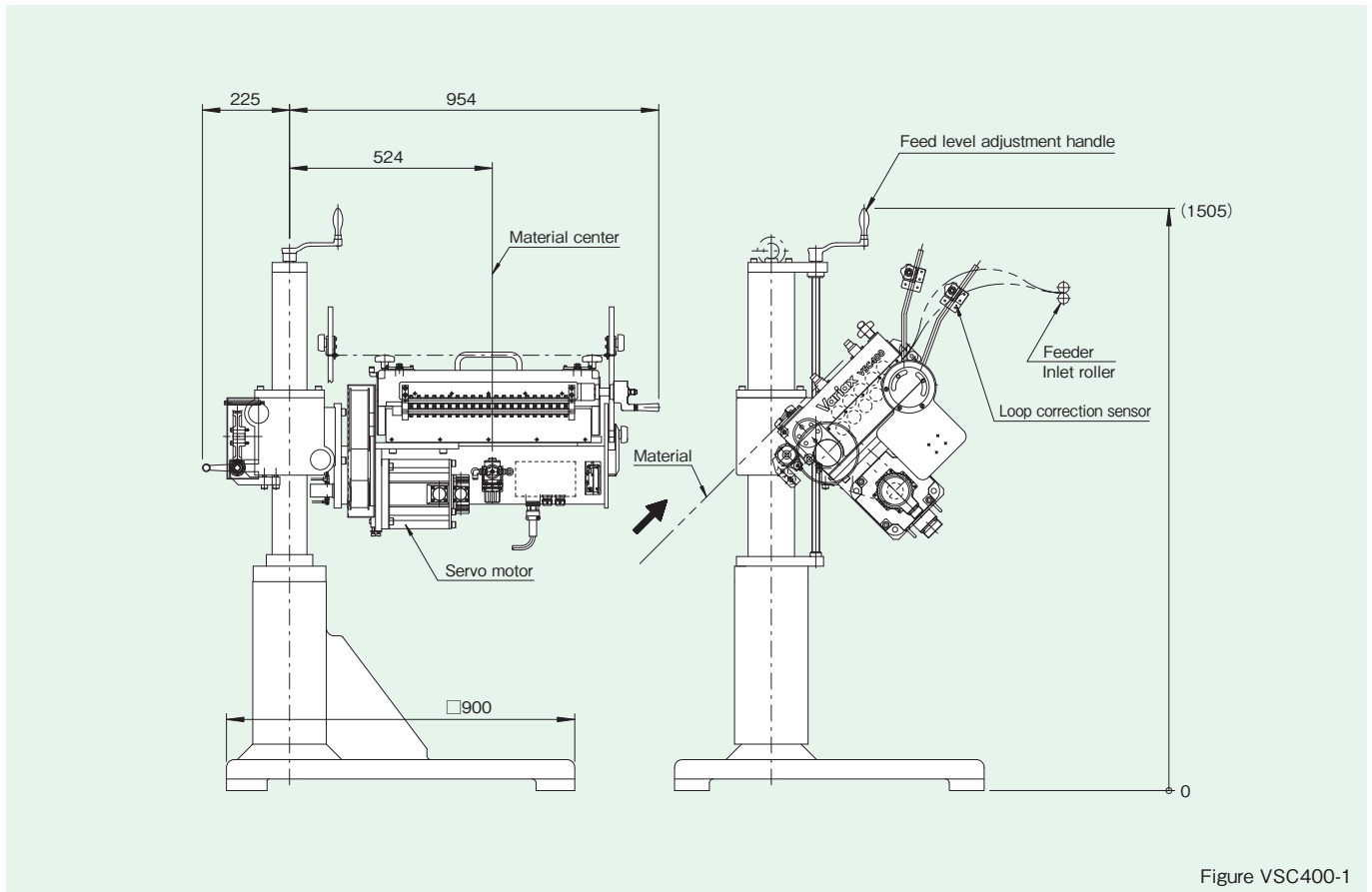


Figure VSC400-1

## VSC400 main housing dimensions

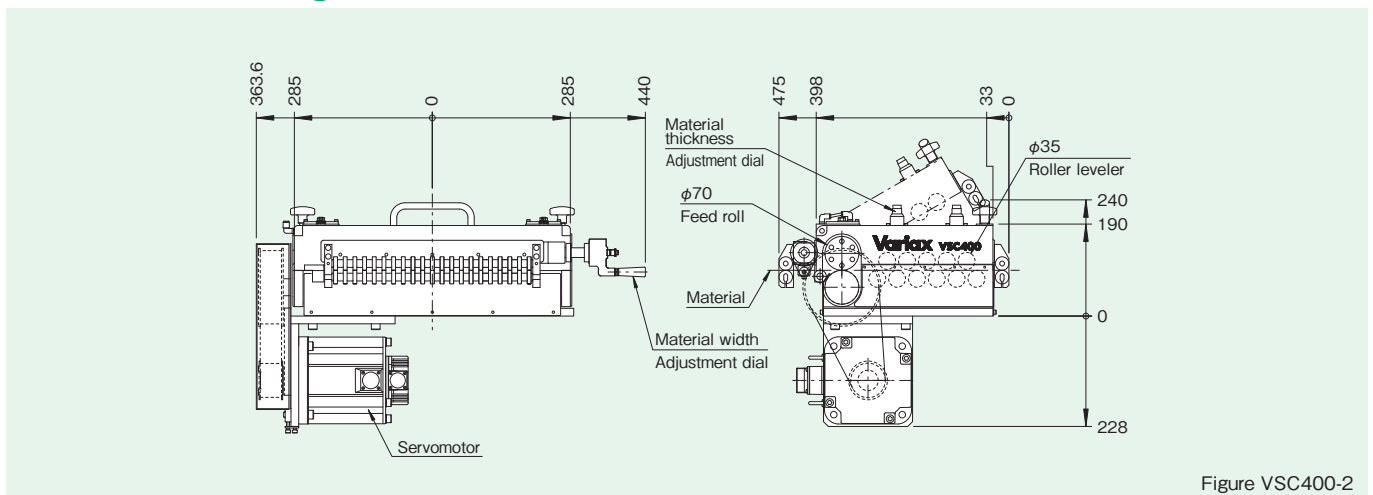


Figure VSC400-2

## Specification table

| Characteristic            | Data                                      |
|---------------------------|---|
| Feed length               | 0 to 999 [mm]                             |
| Material thickness        | 0.2 to 1 [mm]                             |
| Gripping force            | 1470 (at 0.5-MPa supply air pressure) [N] |
| Maximum material width    | 400 [mm]                                  |
| Maximum number of strokes | 3000 [min <sup>-1</sup> ]                 |
| Maximum feed speed        | 100 [m/min]                               |

| Characteristic              | Data                    |
|-----------------------------|-------------------------|
| Operating air pressure      | 490 to 690 [kPa]        |
| Operating power supply      | 200 VAC three phase [V] |
| Input power supply capacity | 7.5 [kVA]               |
| Product weight              | 1000 [kg]               |
|                             | 1 [N·m] ≅ 0.102 [kgf·m] |

### Control panel dimensional drawings

[Unit:mm]

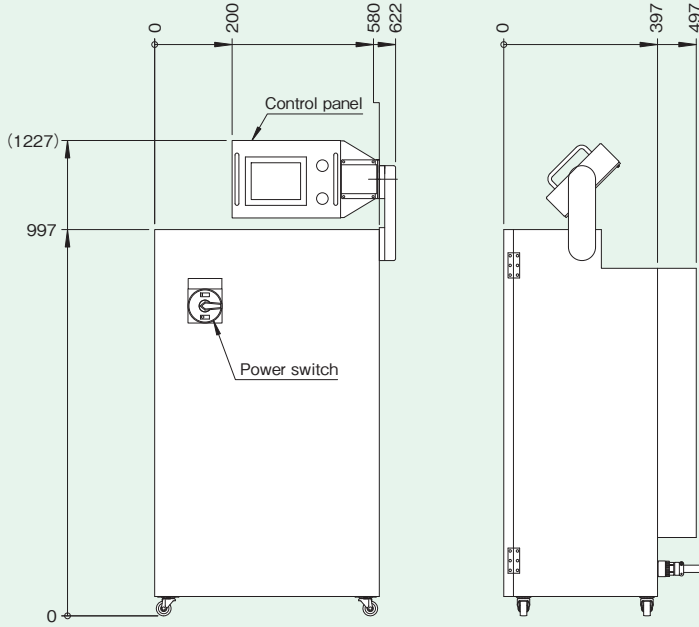


Figure VSC400-4