By maintaining a simple internal structure, a highly compact design has been achieved. However, even though it is compact, it is capable of casting platinum and other alloys (optional) at the same level of quality and productivity as larger devices.

The TCP-5250 can easily be operated by its touch-panel control. Previously done settings can easily be recalled, and settings of other parameters can also be done. Error message functions are also available.

Compact, Powerful, and Accurate

真空遠心鋳造機
TCP-5250

Please feel free to contact us with any questions or concerns. We are also able to provide demonstrations of our products.

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Compact, Powerful, and Accurate

TCP-5250
Vacuum Centrifugal Casting Machine

Effective rotation programming
Efficient alloy pouring with Snap Swing-arm
Prevention of pinholes by inert gas replacement control
Accurate temperature control through smoke removal function

Inert gas replacement function
During the casting process, oxidization of the alloy can cause pinholes and discoloring, resulting in a lower quality product. The TCP-5250 has an inert gas replacement function to prevent this.

- Replacement can be repeated as many times as needed

Some alloys are more likely to oxidize, and thus for these alloys, repeating the inert gas replacement will lower the amount of oxygen in the chamber, resulting in a better product. By doing this once, 90% replacement can be achieved, but by doing it twice, 99% is achieved, and the more it is done, the closer to 100% you can get.

- Efficiently fills the smallest, detailed parts of the mold and avoids shrinkage

After the rotation begins, inert gas is inserted to regular atmosphere pressure so that the alloy enters every part of the mold. The pressure of the inert gas makes the solidification of the alloy faster, preventing shrinkage and pinholes.

- Decompression level can also be set

Depending on the characteristics of the alloy and the design of the pieces, you can program the decompression level to your needs for higher quality casting results.

Accurate temperature control
Even when the quality of the radial thermometer is very high, it can yield inaccurate results when there is smoke coming from the melted alloy. By removing the smoke, the accuracy of the measurement is restored, allowing you to know the best timing for the casting.

- Smoke removal function

By removing the smoke coming from the alloy, the temperature measurements become more accurate.

- Radial thermometer

Range of measure: 750℃ ~ 2000℃
Depending on the alloys, the thermal emissivity will vary. The previous version only had one option, but this can be customized for other options, allowing to mold not only Pt, but also Au, Ag, Cu, and SUS.

- Melting atmosphere, Manual mode

When the alloy is melted, not only the temperature but also the atmosphere around the alloy is an important factor. The melting button can be pressed at any time deemed fit by the user, such as right after reaching the target temperature or during the decompression. Automated and manual modes are both available for creating high quality pieces.