Next Generation Type Tablet Press Die

Zirconia Tablet Press Die

- Zirconia tablet press die has a high anti-corrosion property and is rustproof.
- Zirconia tablet press die uses safe material applied for dental material and artificial bones.
- Zirconia tablet press die (equivalent to HRC72) has four times the higher durability than dies using SKD11 (compared by BMP products).
- Laser printing is adopted for QR code. Possible to control information volume that was unavailable with conventional products.

B.M.P
Joint development of Toyama Prefectural Institute for Pharmaceutical Research, Toyama Industrial Technology Center and Toyama Prefectural University
Zirconia "YSZ" Tablet Press Die

Standard die size
(Other special sizes are also available)

\[ \begin{align*}
D_a & \quad \text{External diameter} \\
D_b & \quad \text{Internal diameter} \\
L & \quad \text{Height}
\end{align*} \]

Describes the details of die according to customer's standard specification.

QR code
Laser marking on the top surface or desired position of the side surface.

Perpendicularity 0.01 tolerance
Internal surface Rmax roughness 0.5s

Product control
Printing of QR code by laser marking.
Possible to control information volume that was unavailable with conventional products.

High durability
0.5s or less of internal roughness in lapping is guaranteed.
Four times or more compared to dies using SKD11 (equivalent to H13C2),
Obtains higher durability performance than conventional products.

Superior safety
Material is safe for the human body, which is applied for dental materials and artificial bones.

Quick delivery
Quick delivery about 20 (days).
Orders are available from small quantities of one trial product to larger quantities.
Please inquire for details.

Standard manufacturing tolerance
Unit: mm
- Indicated internal diameter ± 0.01
- Indicated external diameter ± 0.01
- Indicated height ± 0.01

FINE CERAMICS ZIRCONIA "YSZ"

Stabilized zirconia (especially the yttria-stabilized zirconia (YSZ)) is superior in mechanical characteristics such as strength and tenacity compared to oxide-free zirconia.
It is of fine ceramics with strong and flexible properties that solves brittleness, which is a weakness in ceramic materials.
In addition, it is a material with high safety and is now being applied in dental materials and artificial bones to replace metallic materials.

Zirconia YSZ vs Steel (SKD11 + Cr plating)

Herbal medicine senna Before and after shot 0 → 62.145 shots.

Comparison of internal and external roughness

White
before test
after 62.145 shots

Steel
Cr plating

0 shots (brand new)
60,000 shots