

Final restorations on Z5-BL implants

General note

Z5-BL implants can be restored with all restorative materials used in modern dentistry.

In addition to all-ceramic restorations, composites, metal restorations and combinations (PFM) are also conceivable. All restoration types are permanently cemented in the conventional manner.

Adhesive cementation of restorations to Z5-BL abutments are only possible for single-tooth reconstructions. In general, intraoral cementing of the reconstructions is recommended and must be strictly observed for bridges such as splited crowns, to avoid inadequate friction fit connection between the abutment and implant. When restoring Z5-BL implants, the generally applicable guidelines for the planning and fabrication of implant-supported prosthetics must be observed.

The static, occlusal contact of the restoration must be considered in relation to the contacts of permanent teeth. The movement of permanent teeth must be taken into account, particularly with single-tooth restorations. Dynamic occlusal contacts on the restoration must be avoided. A group function must be aimed for to relieve a single implant in the canine position. A sufficient number of the supporting abutments and a statically favourable distribution must be ensured, as well as good cleaning possibilities.

Indication for the final prosthetic restoration of Z5-BL implants

The following clinical or radiographic findings indicate that the final prosthetic restorations can be fitted:

- No peri-implantitis
- No clinically noticeable loosening of the implant
- No loosening when attempting to unscrew (max. 15 Ncm/anaesthesia)
- No pain in the vicinity of the implant
- No radiographic visible peri-implant gap

Prosthetic restoration of Z5-BL implants

The valid general guidelines for the fabrication of fixed restorations on implants must be observed on Z5-BL implants. This applies in particular to the static and dynamic occlusion and the periodontium-prophylactic design of the restoration.

Indication of single-tooth restoration on Z5-BL implants

Z5-BL implants allow a restoration with fixed single-tooth crowns in the anterior and posterior regions.

The indication guidelines for implant selection must be observed. Furthermore, the instructions for restorations on Z5-BL implants with regard to static and dynamic occlusion, the periodontium-prophylactic design of the restoration, as well as the valid general guidelines for the fabrication of fixed restorations on implants must be observed.

Restoration of interdental gaps on Z5-BL implants

Fixed restorations can be placed on Z5-BL implants to close interdental gaps. Please note the preoperative selection of Z5-BL implants according to the Z-SYSTEMS indication guidelines and the sufficient number of abutments according to generally applicable prosthetic guidelines.

The mesial and/or distal extension of the restoration is not permitted under any circumstances. The integration of Z5-BL implants in composite bridges requires the exact observance of current dental implant clinical practice recommendations.



Single-tooth restoration of a front tooth with a Z5-BL implant

NOTE: To prevent excessive bending moments, the crown should be max. 5 mm longer than the abutment occlusal or incisal.
Recommendation: The horizontal crown width should overlap the implant diameter d by a maximum of $d/2$.

