

Orthodontic bracket fabrication using the investment casting process

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Abstrak

Demand for dental health care is increasing, especially in the Orthodontic field. The main objective of orthodontic treatment is to restore malocclusion conditions. Malocclusion causes aesthetics issues for the patient's face and several discomforts like a difficulty in breathing or swallowing or speaking. If not repaired, a malocclusion could lead to other diseases, such as a greater risk of perforated teeth, gum irritation and temporomandibular disorder or pain in the lower jaw. Malocclusion can be remedied by Orthodontic Brackets. This research aim is to fabricate an orthodontic bracket that is suitable for the teeth structure of the Indonesian people. The fabrication method uses an Investment Casting process. The results show that orthodontic brackets have been successfully produced within an acceptable geometric tolerance, with the exception that surface finish quality has to be improved.