

ABSTRAK

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Judul Laporan Karya Tulis Ilmiah : Proses Faset Manual Lensa Organik Bifokal Flattop Pada Frame Rimless Di Optik Estilo Salatiga

Jumlah Lampiran Depan + Halaman + Tabel + Gambar + Lampiran Akhir : xiii + 56 halaman + 9 tabel + 26 gambar + 2 lampiran

Latar Belakang: Kacamata lensa organik bifokal flattop dengan frame rimless diminati karena kenyamanan dan estetikanya. Proses faset manual untuk kombinasi ini, khususnya pada frame rimless, menuntut keahlian tinggi demi presisi. Penelitian ini mengkaji proses tersebut di Optik Estilo Salatiga.

Metode: Penelitian deskriptif kualitatif ini menggunakan studi kasus untuk mendeskripsikan proses faset manual lensa organik bifokal flattop pada frame rimless, serta mengidentifikasi alat, bahan, dan kendala di Optik Estilo Salatiga (Jan-Apr 2025). Data dikumpulkan melalui survei (kartu order, observasi) dan studi pustaka, dengan satu kasus sebagai sampel.

Hasil Penelitian: Studi kasus menunjukkan proses faset manual sistematis: dari interpretasi kartu order (Rx OD SPH +0.25, ADD +2.50) dan inspeksi material, penggunaan lensa dummy sebagai patrun, perhitungan desentrasi (2mm nasal/lensa) dan tinggi segmen (16mm), hingga edging cermat (meliputi rough cutting, grinding flat bevel, drilling dua tahap, polishing), dan mounting dengan bushing. Alat dan bahan yang digunakan sesuai standar praktik manual.

Kesimpulan: Proses faset manual, alat, bahan, serta potensi kendala (terutama presisi dalam penempatan OC, pemotongan, pengeboran, dan pengelolaan stres lensa yang bergantung pada keahlian teknisi) dalam pembuatan kacamata lensa organik bifokal flattop pada frame rimless di Optik Estilo Salatiga berhasil diidentifikasi.

Kata Kunci: faset manual, lensa organik bifokal flattop, frame rimless, Optik Estilo Salatiga

Referensi: (delapan literatur) (2003 – 2025)

Abstract

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Scientific Paper Report Title : Manual Facet Process of Organic Bifocal Flat-Top Lenses on Rimless Frames at Optik Estilo Salatiga

*Number of Front Attachments + Pages + Tables + Figures + Final Attachments :
xiii + 56 pages + 9 tables + 26 figures + 2 attachments*

Background: Eyeglasses with organic bifocal flat-top lenses and rimless frames are popular for their comfort and aesthetics. The manual facet process for this combination, especially on rimless frames, demands high skill for precision. This research examines this process at Optik Estilo Salatiga.

Method: This qualitative descriptive research used a case study to describe the manual facet process of organic bifocal flat-top lenses on rimless frames, and to identify tools, materials, and constraints at Optik Estilo Salatiga (Jan-Apr 2025). Data were collected through surveys (order cards, observation) and literature review, with one case as a sample.

Research Results: The case study revealed a systematic manual facet process: from order card interpretation (Rx OD SPH +0.25, ADD +2.50) and material inspection, using a dummy lens as a pattern, 2mm nasal decentration and 16mm segment height calculation, to careful edging (including rough cutting, flat bevel grinding, two-stage drilling, and polishing), and mounting with bushings. Tools and materials used were standard for manual practice.

Conclusion: The manual facet process, tools, materials, and potential constraints (especially precision in OC placement, cutting, drilling, and lens stress management, all reliant on technician skill) in producing organic bifocal flat-top lenses on rimless frames at Optik Estilo Salatiga were successfully identified.

Keywords: manual facet, organic bifocal flat-top lenses, rimless frames, Optik Estilo Salatiga

References: (eight literature) (2003 – 2025)