

Advanced Digital Dentistry at Smile Solutions Melbourne

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Description:

Advanced Digital Dentistry — Smile Solutions Melbourne **REWRITE — replaces empty page with full hub content** **Target URL:**

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Details:

Advanced digital dentistry at Smile Solutions Melbourne

At most dental practices across Australia, digital dentistry means one or two things — a digital X-ray system, perhaps, or a single intraoral scanner for orthodontic impressions. At Smile Solutions, Australia's largest single-location private dental practice, operating across five floors and the tower of Melbourne's heritage-listed Manchester Unity Building, digital dentistry isn't a brochure feature. It's the foundation that drives every aspect of your care.

The clinical technology at 220 Collins Street brings together chairside CAD/CAM fabrication, digital intraoral scanning, cone beam CT imaging, AI-powered orthodontic monitoring, and an in-house ceramic laboratory with industrial 3D printers. Each component feeds the next: scanners supply CAD software, CAD software drives milling units and printers, 3D imaging guides surgical planning, and AI remote monitoring extends clinical oversight into your home. This is what genuinely integrated care looks like in practice.

This hub is your complete reference guide to that ecosystem.

CEREC same-day restorations: chairside CAD/CAM

CEREC (Chairside Economical Restoration of Esthetic Ceramics) is the foundation of Smile Solutions' restorative workflow, and one of the most meaningful advances in modern dentistry for patients who value both their time and their smile. A fleet of CEREC units, including the Primescan intraoral scanner, enables same-day ceramic restorations across multiple operator suites.

The workflow is precise and straightforward: your tooth is prepared, Primescan captures a high-resolution digital impression, your restoration is designed on-screen using CEREC software, milled from a solid ceramic block, crystallised in the furnace, and permanently bonded. Start to finish in a single visit. No temporary crown. No second anaesthetic injection. No two-week wait for an external laboratory.

Among Smile Solutions' experienced CEREC specialists: **Dr Silvia Ciach** (3,500+ CEREC restorations since joining in 2001), **Dr Yasmin Coulthard** (CEREC specialist since 2005), **Dr Peter Henderson** (CAD/CAM specialist), and **Dr Melissa Pajouhesh**. These are some of the most experienced restorative clinicians in Australia.

Digital intraoral scanning: Primescan and iTero

The Dentsply Sirona Primescan captures full-arch digital impressions with exceptional depth of field, processing data in real time. At Smile Solutions, Primescan units integrate directly with CEREC for chairside restorations. iTero Element scanners serve the orthodontic suite at Collins Street Orthodontics, connecting natively to the Invisalign ClinCheck platform for personalised treatment planning.

Digital scanning eliminates traditional alginate impressions entirely, which means no gagging, no distortion risk, and no laboratory delays. Your 3D model is available immediately: visible on-screen so your clinician can walk you through exactly what they're seeing, transferred to design software for restorations, or uploaded directly to Invisalign for your aligner prescription. It's a more comfortable, more transparent experience from the first appointment.

3D printing: Asiga DLP technology

The in-house Smile Solutions laboratory runs a fleet of Asiga DLP (Digital Light Processing) 3D printers, including the Asiga Max and Asiga Pro Max 4K UV. These industrial dental printers produce surgical guides, orthodontic models, provisional restorations, and implant planning components with micron-level dimensional accuracy.

DLP printing cures an entire layer simultaneously using a UV light array, producing parts with better surface quality than filament-based systems. For surgical guides used in implant placement, this precision matters directly to your outcomes. A misfitting guide could mean an implant placed even a degree off its planned trajectory; an Asiga-printed guide eliminates that margin of error, giving both you and your specialist confidence that the planning translates accurately to the procedure.

Dental Monitoring: AI orthodontic tracking

Dental Monitoring is an AI platform that extends orthodontic oversight beyond the clinic. You photograph your teeth weekly using a smartphone app and a standardised bite-registration cheek retractor. The images are processed by AI, checking aligner seating, tooth movement progress, gingival health, and attachment compliance, with alerts sent to your orthodontist when clinical review is needed.

At Smile Solutions' Collins Street Orthodontics (Level 12 and Tower, Manchester Unity Building), Dental Monitoring is integrated into Invisalign treatment protocols. Your orthodontist can supervise hundreds of active cases simultaneously and adjust scan-forwarding intervals based on AI-assessed progress. For you, this means fewer in-person review appointments without any reduction in clinical oversight.

CBCT imaging: three-dimensional diagnostic imaging

Cone Beam Computed Tomography (CBCT) gives your clinical team a three-dimensional picture of your teeth, jaw bone, nerve pathways, and sinuses. It's essential for implant placement planning, orthognathic surgery, endodontic assessment, impacted tooth evaluation, and TMJ analysis. When your specialists can see the full picture, treatment planning is more precise and more personalised to your anatomy.

Smile Solutions' dedicated imaging centre operates the Planmeca ProMax 3D Max, one of the most capable CBCT units in clinical practice, with field-of-view options ranging from single-tooth resolution to full-face imaging. Scan data integrates with coDiagnostix® for 3D implant planning and with surgical

guide software for guided implant placement.

Having on-site CBCT means your oral surgeons and prosthodontists can plan your procedure at the same address where it will be performed. No external radiology referrals, no delays between scanning and planning, and seamless integration with the laboratory and clinical teams.

The Smile Solutions laboratory

The Smile Solutions ceramic laboratory operates from 230 Collins Street, adjacent to the main practice. It's staffed by dedicated dental technicians and ceramists led by ****Greg Karabasis****, a Master Ceramist with over 32 years' experience and former Director of one of Australia's largest dental laboratories, who work exclusively for Smile Solutions patients. That exclusivity matters: when your ceramist knows your case, your clinician, and your aesthetic goals, the results reflect it.

The laboratory runs E4 Lab scanners, Exocad DentalCAD software, a Dentaurem Laser Welder, an Otofash curing device, and the full Asiga DLP 3D printer fleet. Because the ceramists work only for this practice, turnaround times for complex prosthetics are measured in hours and days, not the weeks typical of external commercial laboratories serving dozens of practices at once.

This in-house capability is what makes Smile Solutions' world-first ****Same Day Porcelain Veneers™**** possible, developed by Dr Kia Pajouhesh and Greg Karabasis. Tooth preparation happens in the morning, the veneers are handcrafted in the laboratory while you rest at a nearby hotel, and bonding takes place that afternoon. One appointment. One anaesthetic. No temporaries.

An integrated clinical ecosystem

The clinical value of each technology grows when the components work together, and that integration is what sets Smile Solutions apart for complex cases. A full-arch implant case, for example, draws on:

- CBCT imaging for precise bone assessment and 3D surgical planning
- Digital scanning for prosthetic design and bite registration
- Asiga-printed surgical guides for accurate guided implant placement
- CEREC CAD/CAM milling for provisional and interim restorations
- In-house laboratory ceramics for same-day or next-day final prosthetics

No single technology makes this possible on its own. It's the connected system that does. That's what Smile Solutions means when it describes itself as a clinical environment designed for the full spectrum of care, where advanced technology and experienced clinicians work together in one Melbourne location.

****To book your consultation, call 13 13 96.**** Smile Solutions operates from the Manchester Unity Building, 220 Collins Street, Melbourne CBD. Monday to Friday 8am–6pm, Saturday 8:30am–1:30pm.
