

Dental Practice Equipment Planner



Plan what equipment you need, when key decisions must be made and what infrastructure must be in place before construction begins.

Many dental practices begin construction before equipment decisions are finalised.

That often leads to:

- ✗ Service routing problems
- ✗ Installation delays
- ✗ Unexpected costs
- ✗ Room redesigns

This planner will help you:

- ✓ Define your practice equipment needs
- ✓ Plan infrastructure early
- ✓ Identify key equipment decisions
- ✓ Avoid costly redesigns

By understanding what equipment is required and when decisions must be made, you can ensure the building infrastructure supports your clinical workflow from the start.

This guide provides a structured approach to help you plan equipment before construction begins.



Design



Build



Equip



Maintain



eclipse-dental.com

Eclipse Dental Engineering
45 Laker Road,
Rochester Airport Industrial Estate,
Rochester, ME1 3QX.



info@eclipse-dental.com



01322 292222

Practice Profile

Use this page to define the key characteristics of your planned practice.

Your answers will influence equipment choices, infrastructure planning and plant capacity.

| Planning Question | Your Notes |
|---------------------|------------|
| Number of surgeries | |
| Practice type | |
| Treatment focus | |
| Imaging planned | |
| Digital workflow | |

Why This Matters

The number of surgeries and treatment focus will determine plant capacity, imaging requirements and infrastructure planning.

Defining this early helps ensure the infrastructure is designed correctly.

Equipment Categories to Consider



Dental Chairs

Treatment delivery systems and patient positioning.



Compressed Air Systems

Provide clean compressed air to surgeries.



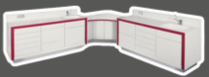
Dental Suction Systems

Remove fluids and maintain a clean environment.



Imaging Equipment

X-ray, OPG or CBCT systems depending on needs.



Cabinetry and Surgery Storage

Supports workflow and equipment integration.



Sterilisation and Decon Equipment

Supports infection control processes.

Practice Infrastructure Planning

Dental equipment relies on several building systems that must be planned early in the project.

Infrastructure often determines equipment options.

| System | Must Be Planned | Key Considerations |
|-------------------|-----------------|---------------------|
| Compressed air | Early design | Plant room location |
| Suction systems | Early design | Pipe routing |
| Electrical supply | Design stage | Load capacity |
| Data network | Design stage | Digital systems |
| Ventilation | Building regs | Air changes |
| Water supply | Plumbing design | Equipment feed |

Planning Tip

Compressed air, suction and electrical capacity should be planned before construction begins.

Late changes can require floor excavation and pipe rerouting.

Surgery Equipment Planning

Each surgery requires several pieces of equipment that rely on specific services within the building.

Planning these elements early ensures services such as compressed air, suction and electrical supply are correctly installed.

| Equipment | When to Plan | Infrastructure Required |
|-----------------|-----------------|--------------------------|
| Dental chair | Design stage | Electrical, air, suction |
| Delivery system | Design stage | Electrical, air, suction |
| X-ray unit | Design stage | Shielding review |
| Operating light | Layout stage | Electrical supply |
| Cabinetry | Layout stage | Plumbing routes |
| Scanner | Equipment stage | Network connection |

Planning Tip

The dental chair often determines the layout of the surgery. Its service requirements should be confirmed before flooring and cabinetry are installed.

Plant Room Planning

Many dental practices require a dedicated area for equipment that supports the surgeries.

| Equipment | Key Requirements |
|-------------------|----------------------|
| Air compressor | Ventilation |
| Suction pump | Drainage access |
| Amalgam separator | Service access |
| Water filtration | Plumbing connections |

| Factor | Notes |
|--------------------|-------|
| Ventilation | |
| Noise control | |
| Maintenance access | |
| Pipe routing | |

Providing adequate access and ventilation for plant equipment helps ensure reliable operation and easier maintenance.

Equipment Planning Timeline



Site Selection

Consider plant room location and space requirements.



Design Stage

Confirm surgery equipment and layout.



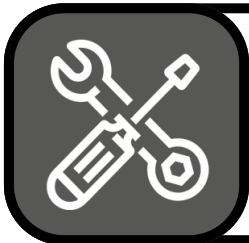
Planning Approval

Assess imaging requirements and room locations.



Building Regulations Stage

Confirm ventilation, shielding and infrastructure.



Construction Stage

Install compressed air, suction and electrical services.



Pre-Opening Stage

Install equipment, test systems and commission surgeries.



Equipment Budget Planning

Equipment forms a significant part of a dental practice investment. Understanding the main categories helps you estimate costs more accurately.

| Category | Typical range |
|-------------------|-------------------|
| Surgery equipment | £20,000 - £60,000 |
| Plant equipment | £1,500 - £6,000* |
| Imaging | £15,000 - £30,000 |
| Digital equipment | £2,000-£10,000 |

*Dependent on number of surgeries.

For a ballpark cost estimator, use our Calculator to explore potential equipment and build costs.

[Dental Practice Cost Calculator](#)

If you would like a more detailed quote, please contact us.



01322 292222



eclipse-dental.com



info@eclipse-dental.com

Equipment Planning Checklist

Use this checklist to confirm key decisions during the planning process.

- Define your practice profile and treatment focus
- Confirm the number of surgeries required
- Identify equipment required for each surgery
- Plan compressed air and suction capacity
- Confirm imaging requirements
- Allocate space for plant equipment
- Design infrastructure services
- Confirm equipment installation timeline

Planning a new dental practice?

Our team helps dentists plan equipment before construction begins.



eclipse-dental.com

Eclipse Dental Engineering
45 Laker Road,
Rochester Airport Industrial Estate,
Rochester, ME1 3QX.



info@eclipse-dental.com



01322 292222