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# Technology & Innovation

At Orthopaedics 360, technology is not adopted for its own sake — it is adopted because it demonstrably improves outcomes. From CT-based 3D pre-operative planning to a specialised carbon fibre table for anterior hip access, Aquamantys water-cooled haemostasis, and patient-specific instruments for knee replacement, every technology in use has been selected for its proven contribution to precision, safety, and recovery.

## THE TECHNIQUE

### 01 3D Pre-Operative Planning

CT-based models used to plan every component size and position.

### 02 Carbon Fibre Table

Specialised carbon fibre table for the direct anterior approach: precise, safe access.

### 03 Aquamantys Device

Water-cooled coagulation reduces blood loss and soft tissue damage.

### 04 Patient-Specific Instruments

Custom cutting guides matched to anatomy for kinematic knee alignment.

## AT A GLANCE

### 3D PLANNING

Pre-Op Standard

### TABLE

Carbon Fibre

### HAEMOSTASIS

Aquamantys

### ALIGNMENT

Patient-Specific

“Technology in the right hands transforms outcomes.”

— Dr Chien-Wen Liew

## FREQUENTLY ASKED QUESTIONS

### Q. Does pre-operative planning really affect outcomes?

Substantially. Detailed 3D planning means every component is sized and positioned before the patient enters the operating room — reducing intraoperative uncertainty.

### Q. What is the Aquamantys device?

A water-cooled coagulation device that seals small blood vessels with minimal heat spread, reducing blood loss and tissue damage compared to standard diathermy.

### Q. Does patient-specific technology cost more?

The additional costs are incorporated into the surgical fee at Orthopaedics 360. These technologies are considered essential — not optional extras.

## ABOUT THE SURGEON

Dr Chien-Wen Liew exclusively performs total hip replacements via the direct anterior approach and total knee replacements via kinematic alignment only. He utilises patient-specific technology for both procedures, and practices from Orthopaedics 360 — within the Eastwood Private Hospital Precinct.

Dr Chien-Wen Liew

Hip and Knee Replacement Surgeon

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