



MACEMARK TECHNOLOGY

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ENDOSCOPY RANGE

PRODUCT & SERVICE CATALOGUE

ABOUT MACEMARK TECHNOLOGY

Clean, reliable, compliant reprocessing.

Macemark Technology has supplied and serviced infection-control and sterile-reprocessing technology across Australian healthcare for over 40 years.

OUR STORY

Founded in 1983 by David Flanagan and Denis Norman to support rural and regional hospitals, Macemark has grown into a team of more than 40 specialists working across three divisions: Health, Endoscopy and Life Science. We bridge world-class engineering and local, reliable service, partnering with leading manufacturers such as Atherton, KEN Hygiene and Soniclean so clients get equipment, consumables and service support under one roof.

In Endoscopy, Macemark supports units through the full reprocessing journey: pre-cleaning, leak testing, channel cleaning, drying and storage, backed by national field service and compliance support. The aim is simple: clean, reliable, compliant reprocessing, and equipment that staff can trust every day.

OUR REACH

Local support, everywhere you are

From our Brisbane head office and regional offices across Queensland, our experienced team delivers services throughout every Australian State and Territory, as well as New Zealand and the Pacific Islands. With a National and International capability, we are ready for wherever your project takes us.

QUEENSLAND • ORIGIN STATE

📍 **Brisbane** **HEAD OFFICE**

62 Secam Street, Mansfield QLD 4122
(07) 3849 1077

📍 **Townsville** **OFFICE**

📍 **Cairns** **OFFICE**

📍 **Gold Coast** **OFFICE**

NATIONWIDE SERVICE • COVERING

New South Wales

Victoria

Queensland

South Australia

Western Australia

Northern Territory

Tasmania

ACT

ACROSS THE REGION

📍 **New Zealand**

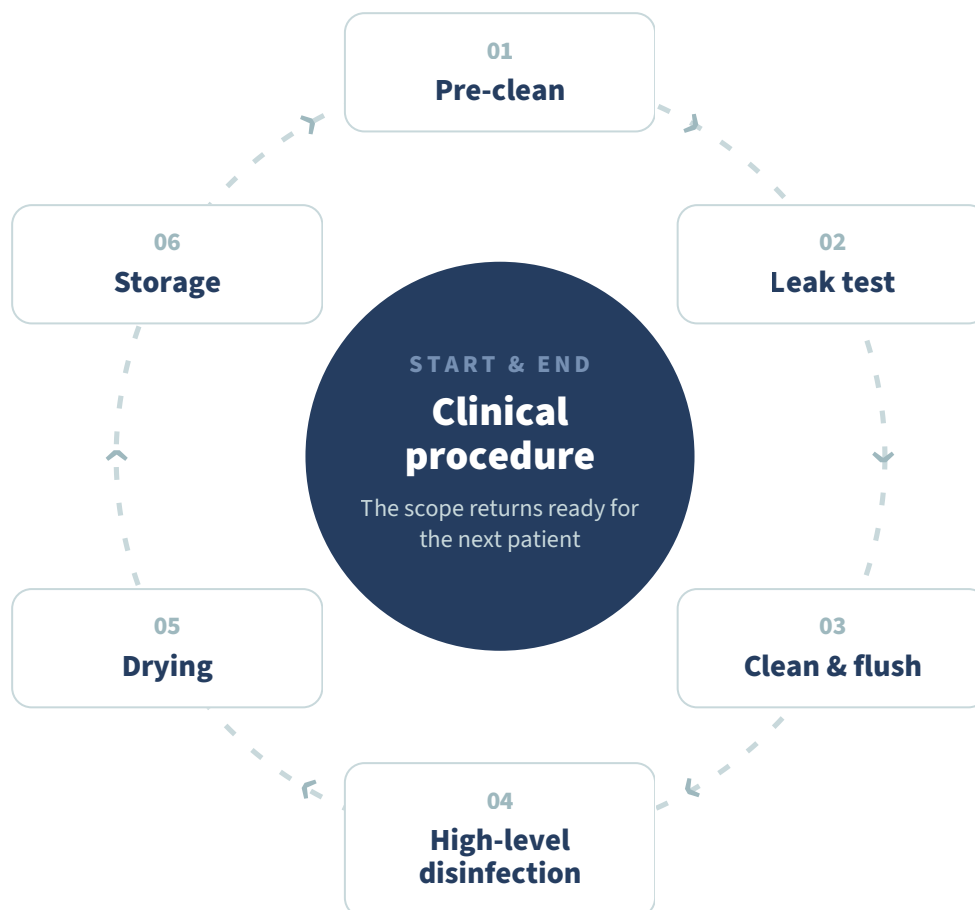
📍 **Pacific Islands**

Papua New Guinea • Fiji • Vanuatu • Solomon Islands

THE REPROCESSING CYCLE

How flexible endoscope reprocessing works

Flexible endoscopes follow a defined reprocessing cycle after every use. Macemark supplies equipment and consumables across each step, supporting compliance with AS/NZS 5369:2023 and each flexible endoscope manufacturer's Instructions for Use (IFU).



After every patient procedure the flexible endoscope re-enters the same validated loop: pre-clean, leak test, clean & flush, high-level disinfection, drying and storage, before it is ready for the next case. Macemark partners with healthcare professionals, providing trusted equipment and consumables across the Endoscopy workflow

**AS/NZS
5369:2023**

Every step supports compliance with AS/NZS 5369:2023, the Australian Standard for reprocessing reusable medical devices, and with each endoscope manufacturer's Instructions for Use.

CAPITAL • SECTION ONE

Cleaning

Standardised pre-cleaning, leak testing and channel flushing that removes operator variability before automated reprocessing.

Torvan Medical AUTOSINK

Automated pre-cleaning sink

Dovideq FlushControl

3-in-1 reprocessing station

Dovideq LeakControl

Automated air-leak tester

Torvan Medical TPS PumpChannel flushing system

TORVAN MEDICAL

AUTOSINK

Automated pre-cleaning, the same validated process every cycle.

Automated flush & drain

No operator variability

864 × 762 mm footprint

The AUTOSINK gives flexible endoscopes pre-cleaning a standardised, automated environment, replacing inconsistent manual techniques with a validated, documented process for every cycle.

Integrated flush and drain cycles replace inconsistent manual techniques, so every cycle follows the same validated, documented process, regardless of operator experience or workload. Automated handling also reduces direct contact with contaminated flexible endoscopes and reprocessing fluids, lowering occupational exposure for staff.

Beneath a simple touchscreen, the AUTOSINK monitors detergent temperature, concentration and flow, priming each lumen separately to confirm the correct volume reaches every channel (lumen) as the flexible endoscope manufacturer specifies, and logging delivery per channel for audit. It holds pre-programmed protocols for most major makes and models, with device and user tracking and network support for monitoring, service and updates. Ergonomic design, with programmable height adjustment, marine basin edges, bottom-fill basins and eDrain electronic drains, reduces strain on high-volume lists, and it sits naturally in the pre-Automated Endoscope Reprocessor (AFER) workflow.



ORDER CODE
AutoSink01

WHY AUTOSINK



Automated flush & drain

The same validated, documented process every cycle.



No operator variability

Standardised results across all staff.



Reduced handling risk

Less contact with contaminated scopes.



Ergonomic design

Optimised height, reach and layout.



Seamless AER integration

A standardised step before automated reprocessing.

CLINICAL VALIDATION

The Standard Is Only the Beginning

Model: T9-3430HA-AS

Footprint: 864 × 762 mm (34 × 30 in)

Supports: AS/NZS 5369:2023 · endoscope manufacturer IFU

Available with Macemark SupplyCare options

DOVIDEQ

FlushControl

Leak testing, detergent dosing and channel flushing in one process.

3-in-1 pre-clean

 Universal
compatibility

EndoscopeManager

FlushControl combines leak testing, detergent dosing and channel flushing into one continuous process, consolidating three manual pre-clean steps into a single station.

The order of operations is software-configurable, so the workflow can be set to match the unit's own standard operating procedure. A detachable leak-test tube uses a CPC connector on the system side and a scope-specific connector on the flexible endoscope side, giving universal compatibility across any make and model, with reusable or single-use tubing.

Keeping the dosing and flushing pump heads external, with no internal tubing, reduces risk of biofilm formation, and reusable tubing prompts a soak mode at set intervals. FlushControl monitors flow per channel to detect blockages automatically and can be fitted with a borescope to inspect them, stopping blocked flexible endoscopes entering the AFER. The leak test pressurises the scope over 60 or 120 seconds, and full records integrate with the EndoscopeManager cloud platform for traceability and audit purposes.



ORDER CODE
FlushControl01

WHY FLUSHCONTROL



3-in-1 process

Leak test, dose and flush in one station.



Configurable to your SOP

Software-set order of operations.



Universal compatibility

CPC and scope-specific connectors, any model.



Lower risk of biofilm formation

External pump heads, no internal tubing.



Blockage detection

Per-channel flow monitoring, optional borescope.

CLINICAL VALIDATION

The Standard Is Only the Beginning

Supports: AS/NZS 5369:2023 · endoscope manufacturer IFU
EndoscopeManager cloud integration
Accessories: camera · printer · scanners · borescope

DOVIDEQ

LeakControl

Catch leaks early, before they become costly repairs.

Automated leak test

60 / 120-second cycle

EndoscopeManager

 Serial-number
traceability

LeakControl is an automated electronic air-leak test for any flexible endoscope with a leak-test connection, catching leaks, including micro-leaks, when repairs are minor and less costly.

LeakControl integrates simply into the existing manual pre-clean: connect it to the flexible endoscope and start the test before the water bath. If a leak is detected, LeakControl alerts the operator and keeps the flexible endoscope pressurised until it is taken from the bath, preventing fluid ingress, one of the biggest causes of damage to flexible endoscopes.

By identifying leaks before disinfection, it stops compromised scopes entering the AFER, avoiding mid-cycle stoppages and mitigating risks of cross-contamination risk. The test measures the pressure drop over time, with duration set automatically to 60 or 120 seconds by flexible endoscope size (a manual option is available). Connected to EndoscopeManager, every test is recorded in a database that is searchable by serial number for compliance.



ORDER CODE
LeakControl01

WHY LEAKCONTROL



Early detection

Catches micro-leaks before costly repairs.



Prevents fluid ingress

Holds pressure until the scope leaves the bath.



Protects the washer

Stops compromised flexible endoscopes entering reprocessing.



Auto 60/120s cycle

Duration set to scope size.



Serial traceability

Every test recorded in EndoscopeManager.

CLINICAL VALIDATION

The Standard Is Only the Beginning

Supports: AS/NZS 5369:2023 · endoscope manufacturer IFU
Automatic 60 / 120-second test by scope size
EndoscopeManager database, searchable by serial

TORVAN MEDICAL

TPS Pump

Consistent, pressure-regulated channel flushing for every scope.

100% pressure-regulated

3.6 kg benchtop

Touchscreen control

The TPS (*Torvan Pressure-Regulated System*) Pump delivers consistent, pressure-regulated channel flushing for flexible endoscopes and cannulated instruments.

Touchscreen control of flow rate, flushing volume and aspiration removes the variability of manual syringe flushing and standardises every pre-cleaning flush across staff and shifts. Regulated pressure reaches every channel consistently, without the over-pressurisation that manual syringes can cause, protecting channel integrity, extending the life of flexible endoscopes and reducing repair costs across the fleet.

Flow and volume adjust for different models, channel diameters and protocols, so one pump supports the entire fleet. A built-in aspiration function clears residual fluid and debris from channels before formal reprocessing in an AFER.



ORDER CODE

T8-FLUSH-ACME7

WHY TPS PUMP

\$ Tubing is changed monthly, not daily — minimising consumable spend, waste and staff time across the fleet.



Pressure-regulated
Reproducible, with no over-pressurisation.



Touchscreen interface
Precise, consistent control across all staff.



Adjustable flow & volume
One pump for the whole flexible endoscope fleet.



Integrated aspiration
Complete channel clearing before reprocessing.



Protects channels
Fewer repairs, longer flexible endoscope life.

ACCESSORIES

T8-CON-01FL	Flushing pump tubeset - head tubing, 15 PSI PRV
T8-CON-02FL	Flushing pump tubeset - head tubing, 30 PSI PRV
T8-KIT-TS-01FL	Flushing pump connector kit

OPTIONAL FEATURES

- ✓ **Double-headed attachment** doubles processing capacity.
- ✓ **Mountable shelf** — pegboard or wall-mountable.

CLINICAL VALIDATION

The Standard Is Only the Beginning

Supports: AS/NZS 5369:2023 channel-flushing requirements
Dimensions: 203 x 216 x 254mm | Weight 3.6kg | 51 in reach | Benchtop
Available at no cost with a chemistry contract (terms apply)

CAPITAL • SECTION TWO

Drying & Storage

Verified drying and controlled storage that keep reprocessed scopes dry, contamination-free and patient-ready.

PFE Medical Scirocco

Automated drying & storage system

Torvan Medical EndoCab

HEPA-filtered storage & drying cabinet

PFE MEDICAL

Scirocco

Verified drying with complete infection-control confidence.

5–7 minute cycle

30-day sterile storage

Below 10% moisture

The Scirocco is a fully automated drying, storage and transport system that uses real-time humidity sensing to confirm every channel of a flexible endoscope is dry before storage.

Each channel of a flexible endoscope is measured, recorded and confirmed below 10% residual moisture, documented proof that manual drying cannot provide. Residual moisture creates ideal conditions for unwanted growth of bacteria and biofilm, and traditional methods often fail to reach the intricate internal structures of modern flexible endoscopes.

The cycle runs in five to seven minutes, drying critical parts such as the suction connector housing and air/water pistons. A built-in label printer generates audit-ready records every cycle, with RFID identification, traceability software and colour-coded drying tubes to ensure correct connections to channels.


ORDER CODE
PFE001

WHY SCIROCCO



Verified drying

Every channel confirmed below 10% residual moisture.



5–7 minute cycle

Faster turnaround on high-volume lists.



Built-in traceability

Audit-ready records printed every cycle.



Zero operator dependency

Consistent, validated results every time.

SEALED STORAGE & TRANSPORT


ORDER CODE
PFE002

Bagged, sealed and ready to travel

Straight off the drying cycle, each flexible endoscope goes into a dedicated Scirocco storage bag, sealed, contamination-free and patient-ready for up to 30 days, with a status-indicator sticker so staff can confirm readiness at a glance.

Because drying, storage and transport can live in one mobile unit, a bagged scope can travel from the reprocessing room to the procedure suite without breaking the clean chain, with no separate cabinet and no re-handling necessary.

Up to 30-day sterile storage

Reprocessing room → procedure suite

CLINICAL VALIDATION

The Standard Is Only the Beginning

Supports: AS/NZS 5369:2023
 40 kg · 162 × 54 × 73 cm · 220 V, 500 W, 6 A, 50 Hz
 Available with Macemark SupplyCare options

TORVAN MEDICAL

EndoCab

Controlled, HEPA-filtered storage that keeps scopes dry and ready.

Positive-pressure
HEPA

6–20 scope capacity

Optional channel-
purge

The EndoCab stores and continues drying reprocessed flexible endoscopes in a controlled, HEPA-filtered environment, built in #4 brushed stainless steel with tempered glass doors.

Every cabinet runs constant positive-pressure, HEPA-filtered ventilation for consistent, high air quality. The range accommodates 6 to 20 flexible endoscopes, with hangers for large and small-diameter flexible endoscopes, Trans-Oesophageal (TOE) and Ultrasound Probes and other specialty flexible scopes.

Configuration options match the cabinet to your unit: HEPA channel-purge to actively dry internal channels; touchscreen tracking via barcode or RFID; integrated top or modular side storage; an exterior security lock; and self-monitoring of the HEPA fan, channel-purge pump and door sensors. Pass-through models provide barrier separation between clean and storage areas.



SIDE-MOUNT STORAGE



INTEGRATED TOP COMPARTMENT

CONFIGURATIONS

Configuration	Capacity	Footprint (W × D × H)
HEPA constant positive-pressure ventilation	6–20 scopes	37"–57" × 24" × 92"
+ HEPA channel purge (dries channels)	6–20 scopes	As above
+ Touchscreen RFID / barcode tracking	6–20 scopes	As above
Pass-through	10 scopes	40" × 18" × 95"
Pass-through + channel purge	16 scopes	36" × 20" × 95"

CLINICAL VALIDATION

The Standard Is Only the Beginning

Manufacture: ISO 13485
Supports: AS/NZS 5369:2023

Pass-through models for clean / storage barrier separation

CONSUMABLES

Cleaning chemistry

Macemark Max Range Chemistry

Our own cleaning chemistry, manufactured under licence and sold as Macemark products: a matched range covering every stage of manual and automated reprocessing of reusable medical devices (RMDs).

ManualMax

PRE-CLEAN • MANUAL



Highly active multi-enzyme detergent for pre-cleaning complex reusable surgical instruments, rigid & flexible endoscopes and cannulated devices. Rapidly breaks down dried blood, tissue, proteins, lipids and carbohydrates. Effective in hard and soft water, pH-neutral and perfume-free to AS/NZS 5369:2023.

ORDER CODE • MAX1005 (2 X 5L) • **MAX1006** (15L)

SonicMax

ULTRASONIC



Neutral, free-rinsing, bacteriostatic detergent for manual and automated ultrasonic cleaning of reusable medical instruments. Includes a corrosion inhibitor to protect instrument surfaces and is suitable for environmental surface cleaning where required.

ORDER CODE • MAX1001 (2 X 5L)

ZyMax

SOAK & WASHER-DISINFECTOR



Multi-enzyme detergent that breaks down organic soil such as blood, protein, starch and fat during soaking and washing. Low-foaming and neutral pH, suitable for manual pre-soak and automated washer-disinfectors, helping prevent soil from drying onto instruments and in flexible endoscope channels.

ORDER CODE • MAX1003 (2 X 5L) • **MAX1002** (15L)

DryMax

RINSE • DRY • BUFF



Low-foaming, phosphate-free rinse aid for CSSD and laboratory washers-disinfectors. Acidic buffering prevents limescale build up, while dual sequestering minimises metallic staining and promotes rapid, spot-free instrument drying.

ORDER CODE • MAX1004 (2 X 5L)

SINGLE-USE CONSUMABLES

Point-of-use & tip protection

Sterile, single-use accessories that bookend the reprocessing journey, from the first wipe-down at the point of use to protecting the rigid or flexible endoscope tip through transport, drying and storage.



StageOne

PRE-CLEAN · POINT OF USE

An all-in-one kit for the initial flush and wipe of an endoscope at the point of use. Supplied as a sustainably sourced bagasse tray with a universal detergent concentrate sachet and a non-linting sponge; just add water. The two-tier tray design supports correct clinical pre-clean technique, and is available in neutral or enzymatic detergent.

All-in-one kit

Plant-based bagasse tray

Neutral or enzymatic

Lightweight & stackable

ORDER **INOV8-009** Neutral · 100/box **INOV8-009E** Enzymatic · 100/box



Scope ProTech™

TIP PROTECTION · TRANSPORT & STORAGE

A sterile, single-use distal-tip protector that guards the delicate optics of any endoscope during transport and storage. A breathable design lets the tip aerate to reduce moisture and bio-burden, while the smart-lock clean/dirty tab prevents re-use on a subsequent scope. Suitable for use in drying cabinets.

Sterile, single-use

Breathable · drying-cabinet safe

Smart-lock clean / dirty tab

Three sizes

Sizes · S 2.7–8.0 mm · L 8.7–14.7 mm · XL 10.7–17.9 mm

ORDER **INOV8-017S** Small · 100/box **INOV8-017L** Large · 100/box

INOV8-044 XL · 50/box

TERRAGENE HYGIENE MONITORING

In-situ proof of cleaning

Disinfection only works on a surface that is already clean. Residual blood, tissue and protein left inside an instrument lumen or flexible endoscope channel can shield microorganisms from high-level disinfection and seed biofilm, yet it is invisible to the eye. AS 5369 requires that cleaning is verified, not assumed.

Protein is the marker

Because organic soil is largely protein, measuring residual protein after cleaning is a direct, validated check that the cleaning step has done its job. Read in a MiniPro incubator, the Chemdye tests don't simply pass or fail; they quantify the protein in micrograms, so each result can be graded against the pass, alert and failure levels set by the standard. A unit can see a rising trend and act before a flexible endoscope ever reaches the failure threshold.

Tested in situ, inside the channel

A flexible endoscope's narrow biopsy, suction and air/water channels are the hardest part of any device to clean and cannot be inspected visually. The SWE and SW250 swabs are designed to pass right through the lumen in situ, sampling the internal channel surface, not just the parts you can see, so verification reflects the true condition of the scope.

HOW IN-SITU CHANNEL TESTING WORKS

01

Swab the channel

Pass the SWE / SW250 swab through the lumen/channel in situ.

02

Immerse in reagent

React the swab tip in the colorimetric vial.

03

Incubate & read

MiniPro reads protein in ~10 min at 60°C.

04

Grade & record

Compare the µg result to alert and failure levels and log it for audit.

THE RANGE



PRO2 ENDO · TER0060

Vial-based protein detection built specifically for flexible endoscopes: a fast visual colour read for routine in-situ channel checks.



PRO1 ENDO · TER0012

Protein pen for cannulated instruments. Quantifies residue from about 1–50 µg (detection to ~0.5 µg) when read in a Bionova auto-reader.



Chemdye SWE swabs

High-absorption channel swabs in sizes 1.7, 2.0 and 2.7 to match different internal channel diameters.



MiniPro Auto-Reader · TER0001

Bench incubator and reader; three positions quantify protein together (~10 min at 60°C), grading each result against the standard's alert and failure levels, with a built-in printer and USB for traceability.

Every result supports your AS/NZS 5369:2023 cleaning-verification records.

Visual or quantified · graded to alert & failure levels

PRECISION MEDICAL · MAQS

Endoscopy Tracking

Record patient usage, processing and storage of every endoscope.

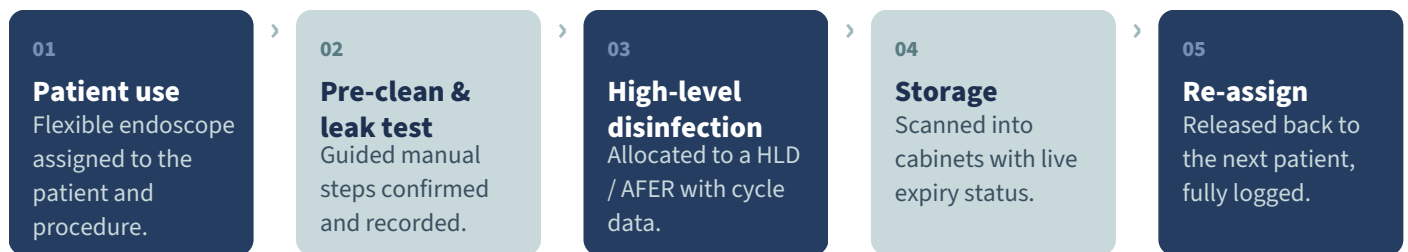
Equipment
interfacing

Complete traceability

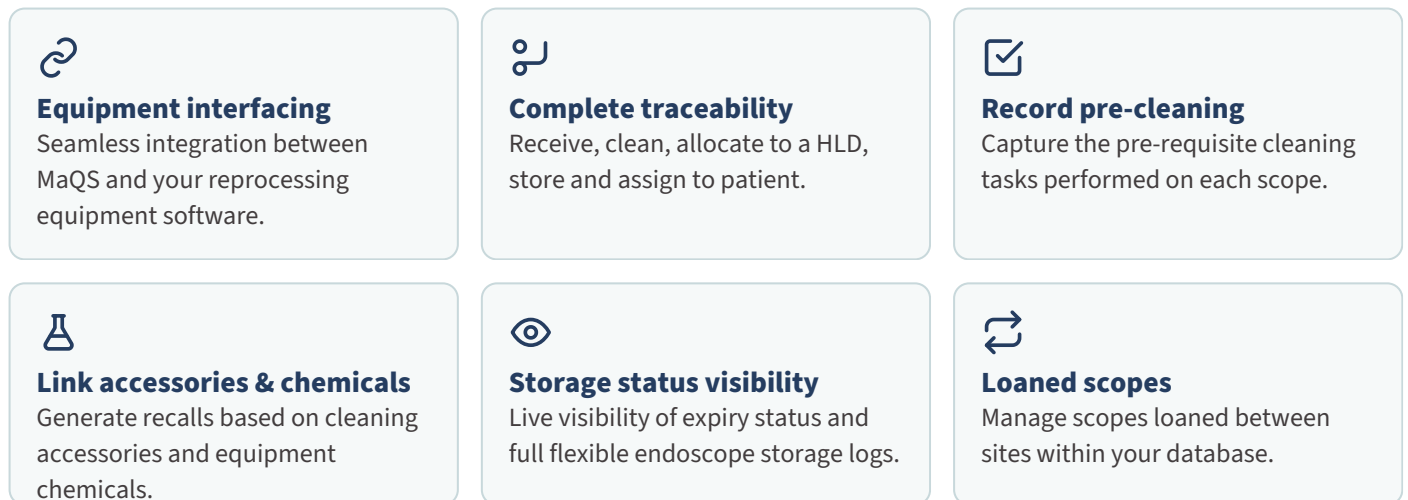
AS/NZS 5369:2023
records

MaQS Endoscopy Electronci Tracking System follows each flexible endoscope through every stage of the reprocessing cycle, from patient use to pre-clean, leak test, high-level disinfection and storage, confirming and recording every capture point so your traceability and audit records are complete by default.

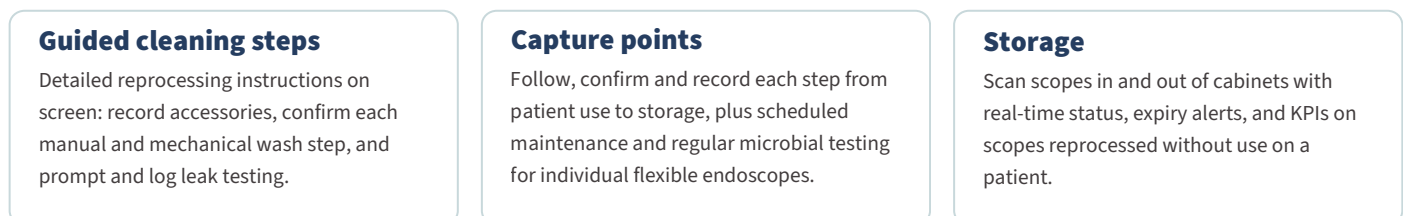
THE TRACEABILITY CHAIN



KEY FEATURES



IN PRACTICE



AUDIT-READY BY DEFAULT

Every scope, every cycle, recorded

Supports: AS/NZS 5369:2023 · endoscope manufacturer IFU
Interfaces with reprocessing equipment software
Multi-site database · loaned-scope management

MAQS · THE CASE FOR ENDOSCOPY TRACKING

Tracking that sits over the workflow you already run

AS/NZS 5369:2023

RECORDS BUILT FOR
THE STANDARD

Implementation and on-site training included.

MaQS is delivered with implementation and on-site training, so your unit is tracking from go-live, then runs on a simple ongoing subscription. Any capital equipment you need is quoted and purchased separately.

Software

Setup

Training



Works with everything you run. MaQS is fully compatible with all major reprocessing equipment brands, and integrates across the full Macemark endoscopy range, so tracking sits over the workflow you already have.



Subscription pricing

Software, setup and training carry no upfront cost; you move to a predictable ongoing subscription.



Evidence on demand

Export scope-level records for audit, incident review or recall without collating paper.



Australian-designed

Built for AS/NZS 5369 and supported locally, by a team that knows the standard.

HOSTING & DATA

Cloud-hosted, managed

Delivered as a managed cloud service; no server build or local database to maintain.

Data residency on request

Hosting location, data custody, backup and retention details are supplied in writing for your procurement and ICT review.

Single sign-on

Integrates with your existing identity provider, so access follows your own controls.

RECORDS THAT STAND UP TO AUDIT

From process to patient

Supports: AS/NZS 5369:2023 · RMD traceability · single sign-on
Pairs with the MaQS inventory and asset modules

SERVICE & SUPPORT

Equipment is only as good as the team behind it

Macemark backs every install with a national team of factory-trained service technicians, planned preventive maintenance and hands-on AS/NZS 5369:2023 compliance support, so your list runs on time, downtime is rare and your records stand up to audit.

20+

Factory-trained service technicians

National

Field-service coverage across Australia

40+ yrs

Servicing reprocessing equipment


Installation & commissioning

A dedicated, specialised team covering every step of project delivery, install and commissioning, across even the most complex projects.


Preventive maintenance

Scheduled servicing to keep equipment compliant and reduce downtime.


Breakdown & repair

National field service response.


Compliance & validation

Assistance meeting AS/NZS 5369:2023 requirements.


Operator training

Staff training on correct use of equipment and consumables.


Reprocessing room design

Layout and fitout planning for new builds and refurbishments.

One supplier, the whole reprocessing room.

From point-of-use to storage, Macemark supplies the equipment, the consumables and the service support, under one roof, with one accountable partner.

PERFORMANCE QUALIFICATION

Proof that your equipment performs to standard

Macemark qualifies your reprocessing equipment against the relevant standards and delivers the documentation to prove it, so every unit stays compliant between validations. We can test the water feeding that equipment on the same visit.

We can validate your AERs, endoscope drying and storage cabinets and bagging units, each PQ carried out in conformance with the relevant standard and delivered with a complete, audit-ready record.

EQUIPMENT QUALIFICATION



Automated Flexible Endoscope Reprocessors

ISO 15883

In conformance with ISO 15883, including cleaning-efficacy testing with residual-protein quantification.



Flexible Endoscope Storage Cabinets

EN 16442

Qualification of the storage environment, including microbiological quality, in accordance with EN 16442.



Flexible Endoscope Bagging Units

EN 16442

Full thermometric and microbiological PQ to EN 16442, with process and documentation development.

WATER QUALITY TESTING

Water sits behind every reprocessing result, and the unit carries responsibility for it without controlling the building's water system. We sample at the point of use, report against AS/NZS 5369:2023 and the equipment manufacturer's specification, then repeat it on the service visits we already make.

01

Baseline test

Incoming and final-rinse water sampled at the point of use and analysed by an accredited laboratory.

02

Graded report

Microbiological quality, conductivity, hardness, pH, chloride and endotoxins where specified.

03

Scheduled retesting

Added to your preventive-maintenance visits, so the record builds over time.

Where treatment or plumbing work is needed we scope it with you; the work is carried out by licensed plumbing and water-treatment partners.

VALIDATION TEAM

Equipment and water, one visit

Delivered to ISO 15883 · EN 16442
 Accredited laboratory water analysis



GET IN TOUCH

Clean, reliable, compliant reprocessing, supported nationally.

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