

## Capability Statement

2026



Rail interiors designed, engineered and manufactured in Australia — seating, fire-retardant foams, GRP, trim and fleet refurbishment.

EST. 1994

MORTDALE, NSW • 3,000M<sup>2</sup>

EN 45545-2 • AS 1530 • BS 6853

## Trimming shop to transport engineering.

Jim Kolesnyk founded Classic Coachworks in **1994** as an automotive upholsterer and convertible top manufacturer. Those trimming skills transferred to rolling stock, and the business grew into a transport engineering company refurbishing passenger rail interiors for **Sydney Trains, NSW TrainLink and Queensland Rail**.

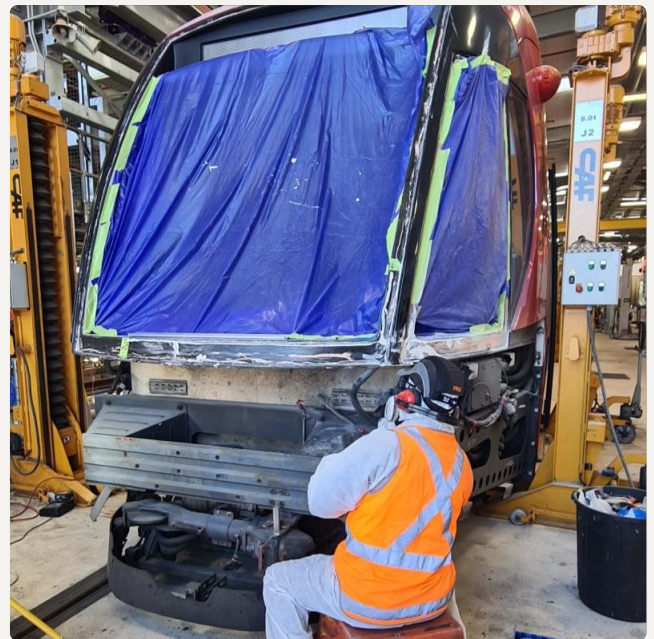
Today we design and manufacture fire-retardant seat foams, safety-critical components and industrial trimming solutions for the rail, defence, marine and aerospace sectors across Australia, New Zealand and South-East Asia — from more than **3,000m<sup>2</sup>** of manufacturing facility in Mortdale, Sydney.

Design and engineering happen in Mortdale, and so does the bulk of our manufacturing. An established international supply network means we can also produce offshore where a project's scale or timeline demands it.

**Proudly Australian-owned.**

### AT A GLANCE

- Founded 1994 · Australian owned and operated
- 3,000m<sup>2</sup>+ manufacturing facility, Mortdale NSW
- 15+ passenger fleets supported across NSW, QLD and VIC
- OEM supplier of fire-retardant seating foam
- In-house 3D scanning, mould design and tooling
- Proprietary polyurethane, silicone and elastomer formulations
- CCW R201 GRP resin approved by Queensland Rail and Sydney Trains
- Rail · Defence · Marine · Aerospace



GRP COLLISION REPAIR — SYDNEY LIGHT RAIL

# 446

Tangara double-deck carriages refurbished

# 53 sets

OSCAR four-car sets — interior seat refurbishment

# 15+

Passenger fleets supported nationally

# 60+

Engineering interns hosted over ten years

## Design it. Make it. Keep it in service.

One site in Sydney covers the full life of a rail interior component — from 3D scan and mould design through foam moulding, cut-and-sew and GRP, to fleet-wide refurbishment and weekly depot maintenance programs.

### DESIGN & REVERSE ENGINEERING

#### Obsolete part? We rebuild the drawing.

Design services for cushions, backrests, headrests, mattresses, armrests, pads and handles — extending to mould design and manufacture, including reverse engineering of obsolete designs whose original tooling no longer exists.

### ADVANCED 3D TECHNOLOGY

#### Scan, model, reproduce.

3D scanning and model creation captures and reproduces complex shapes and forms accurately — essential for precise replicas of legacy components, and used for carriage acceptance scanning on new fleet programs.

### CUSTOM FOAM FORMULATIONS

#### Formulated to the requirement.

Foam formulations developed to specific customer requirements, addressing fire retardancy, comfort, hardness and fatigue resistance so each product meets both the industry standard and the operator's expectation.



3D SCAN — SURFACE MODEL



3D SCAN — MESH CAPTURE



FIRE PERFORMANCE TESTING

### Services at a glance

- Seat design, manufacture and delivery
- Complete seat refurbishment and painting
- Seat covers — design, cut and sew
- Driver and crew seat refurbishment
- GRP components, tooling and collision repair
- Mould design and manufacture
- Powder coating and stair nosing
- Armrests, grab handles and inserts
- Fleet support and depot maintenance
- Interior maintenance programs
- Component supply and project management
- 3D scanning for carriage acceptance

# Fire performance you can put in a tender.

Every material we supply is tested against the standards your submission will be judged on. Our foam products are compliant with fire retardancy requirements including Australian Standard AS 1530, European Standard EN 45545 and British Standard BS 6853.

## EN 45545-2 compliant materials

| PRODUCT                                         | HAZARD LEVEL |
|-------------------------------------------------|--------------|
| Foam for passenger seats                        | HL2 · HL3    |
| Seating fabrics (moquette, jacquard, vinyl)     | HL2 · HL3    |
| Blinds — driver cabs and passenger compartments | HL3          |
| GRP systems (gelcoat + resin)                   | HL2 · HL3    |
| Carpet and underlay                             | HL2 · HL3    |
| Curtains                                        | HL3          |
| Driver and crew seats                           | HL3          |
| Fire barriers                                   | HL2 · HL3    |
| Powder coating                                  | HL2          |

AS 1530

EN 45545-2

BS 6853

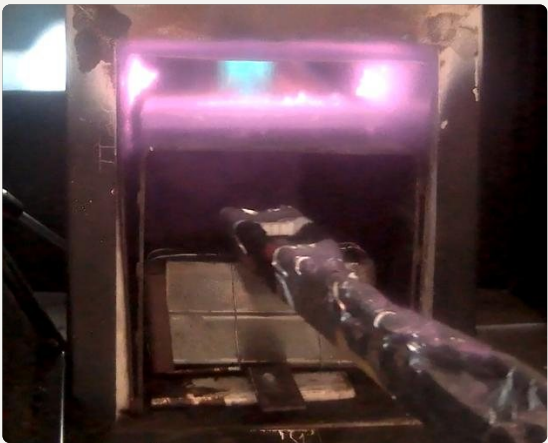
CCW R201 · QR & SYDNEY TRAINS APPROVED



VERTICAL BURN TEST AT 12 SECONDS – SAMPLES B1–B4

### CCW R201 GRP resin

Compliant to EN 45545-2 HL2 and approved for use by Queensland Rail and Sydney Trains for new parts and repairs.



CONE CALORIMETER – HEAT RELEASE TESTING

In-house vertical burn testing verifies fabrics and materials before they reach a carriage. Test certification and material datasheets are available on request to support tender submissions and operator approvals.

# Nearly every passenger fleet on the east coast.

Two decades of rolling stock interiors, from Sydney's suburban network to the Spirit of the Outback.

| FLEET                                 | OPERATOR              | SCOPE                                                                                      |
|---------------------------------------|-----------------------|--------------------------------------------------------------------------------------------|
| <b>TANGARA</b>                        | Sydney Trains         | <b>446 carriages</b> — interior overhaul, TTU Phase 2 seating & GRP, cab blinds            |
| <b>OSCAR</b>                          | Sydney Trains         | <b>53 four-car sets</b> — interior seat refurbishment, GRP panels, armrests                |
| <b>WARATAH /<br/>MILLENNIUM / SGT</b> | Sydney Trains         | Seat foams, covers, depot support, <b>weekly seat maintenance program</b>                  |
| <b>NIF · MARIYUNG</b>                 | TfNSW · Hyundai Rotem | Mock-up fit-out — seating, GRP nose cone, flooring, <b>3D carriage acceptance scanning</b> |
| <b>XPT</b>                            | NSW TrainLink         | <b>Full fleet refurbishment and overhaul</b> — seats, curtains, GRP nose cone              |
| <b>XPLORER</b>                        | NSW TrainLink         | Full interior refurbishment, fire-retardant foams, seat lighting                           |
| <b>ENDEAVOUR</b>                      | NSW TrainLink         | Complete seat refurbishment, armrest manufacture, depot maintenance                        |
| <b>HUNTER</b>                         | NSW TrainLink         | Seat maintenance, covers, crew blinds, depot support                                       |
| <b>V-SET</b>                          | NSW TrainLink         | <b>OEM armrest</b> — proprietary fire-retardant colour-coded elastomer                     |
| <b>NGR</b>                            | Queensland Rail       | <b>OEM</b> — fire-retardant seating foam, seat cover cut & sew                             |
| <b>IMU / SMU</b>                      | Queensland Rail       | Major seat refurbishment 100/200 & 120/220 — reverse-engineered foam and covers            |
| <b>L-SERIES</b>                       | Queensland Rail       | Spirit of the Outback — seat refurbishment, GRP design, tooling and production             |
| <b>SYDNEY LIGHT RAIL</b>              | Transport for NSW     | Window replacement, LED lighting, GRP collision repairs, driver seats                      |
| <b>XTRAPOLIS</b>                      | Transport Victoria    | Seat covers — design, cut, sew                                                             |
| <b>SPRINTER</b>                       | V/Line                | Complete seat refurbishment, fire-retardant foams, fleet support                           |
| <b>VLOCITY</b>                        | V/Line                | Seat covers — design, cut, sew; kitchen upgrades                                           |
| <b>MTPV</b>                           | Sydney Trains         | Driver and crew seat refurbishment <b>compliant to EN 45545-2</b>                          |

Plus safety nets manufactured and supplied to rail depots Australia-wide, and integral skin foam components for defence platforms.

## Tangara interior overhaul



TANGARA DOUBLE-DECK SET — SYDNEY TRAINS

### 446 double-deck carriages

Interior overhaul and refurbishment across the fleet, delivered alongside Tangara Technology Upgrade Phase 2 — seat design, manufacture and delivery, plus collaborative GRP component manufacture and delivery.

- Flip-up seat design and manufacture
- Complete seat refurbishment and painting
- GRP interior parts and pantograph covers
- GRP fire extinguisher doors, side skirt repairs
- Crew cab and driver blinds · stair nosing · powder coating

## OSCAR fleet refurbishment



OSCAR FOUR-CAR DOUBLE-DECK SET

### 53 four-car sets

Full interior seat refurbishment across the OSCAR fleet, with ongoing seat maintenance and depot support.

- GRP replacement panels — exterior and interior
- Manufacture and supply of armrests and grab handles
- Driver seats · crew blinds
- Seat covers — design, cut and sew

## XPT full fleet refurbishment



XPT LONG-DISTANCE SERVICE – NSW, VICTORIA AND QUEENSLAND

Full fleet refurbishment and overhaul of the XPT long-distance fleet operating across NSW, Victoria and Queensland, supported by ongoing depot maintenance and diesel fleet support.

- Complete seat refurbishment · seat covers designed, cut and sewn
- Curtains and head rest covers
- Driver cab seats, dash mats and carpet
- Armrest manufacture · nose cone GRP

### REGIONAL AND INTERCITY FLEETS

## Xplorer, Endeavour and Hunter



NSW XPLORER

Full interior refurbishment, fire-retardant foams, seat lighting, curtains and depot maintenance.



NSW ENDEAVOUR

Complete seat refurbishment, armrest manufacture, driver cab seats and interior maintenance.



NSW HUNTER

Seat maintenance, seat covers designed, cut and sewn, crew blinds and depot support.

## New Intercity Fleet — Mariyung



NSW NEW INTERCITY FLEET (MARIYUNG)

Classic Coachworks took part in the fit-out of the New Intercity Fleet mock-up, part of the project undertaken by RailConnect NSW, Transport for NSW and the Hyundai Rotem Company for the new fleet of trains.

- Seating, GRP nose cone, flooring
- Project management and component supply
- Glass and paint
- Guard compartment modification
- 3D scanning for carriage acceptance

## Sydney Light Rail



SYDNEY LIGHT RAIL — CAF URBOS

- Window replacement and wiper parts
- Interior LED cabin lighting system
- LED door warning light and headlight integration
- GRP collision repairs
- Driver seat refurbishment and cab blinds
- Impact strips and undercarriage components
- Depot safety enhancements

## Queensland fleets



NEW GENERATION ROLLINGSTOCK

### NGR — OEM supply

Classic Coachworks is the OEM for fire-retardant seating foam on Queensland's New Generation Rollingstock fleet, with seat cover cut and sewn.



QUEENSLAND RAIL IMU / SMU

### IMU / SMU refurbishment

Major seat refurbishment and seat maintenance across the 100/200 and 120/220 fleets, with reverse-engineered seat foam and covers designed, cut and sewn.



L-SERIES — SPIRIT OF THE OUTBACK

### L-series

Major seat refurbishment with reverse-engineered seat foam, covers, fitting and component supply — plus GRP design, tooling and seat production.

## PROJECT · VICTORIA

### V/Line and Metro fleets

- Xtrapolis — seat covers designed, cut and sewn
- V/Line Sprinter — complete seat refurbishment, armrest manufacture, fire-retardant foams, fleet and depot support
- V/Line VLocity — seat covers designed, cut and sewn; kitchen upgrades



V/LINE VLOCITY

## Foam — formulated, moulded, finished.

### Cushion foam

Design and manufacture of seat and backrest cushion foam, moulded to the profile and specified for the operator's comfort and durability requirement.

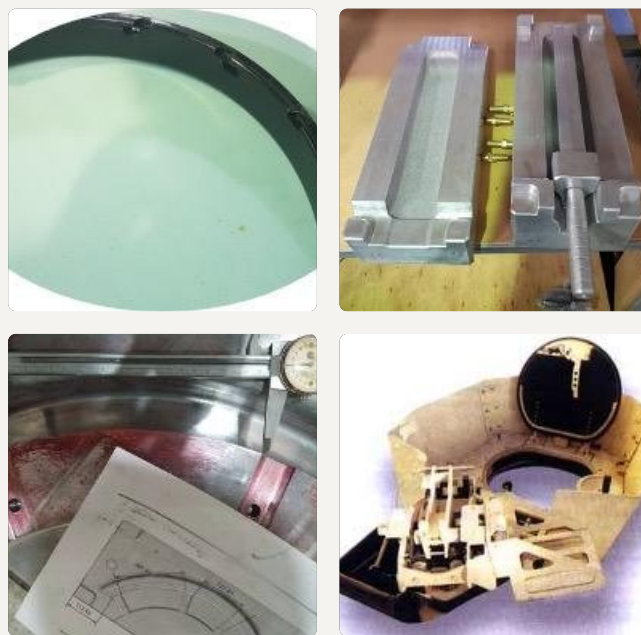
- Polyurethane foam to EN 45545-2 HL3
- Moulded silicone foam
- Design and manufacture from scan to finished cushion



3D MODEL → MOULDED FOAM → TRIMMED SEAT

### Integral skin foam

Self-skinning moulded foam components produced from in-house tooling — used for armrests, hatch pads, grab handles and protective padding where a durable moulded surface is required without a separate cover.



ALUMINIUM TOOLING, DIMENSIONAL INSPECTION AND MOULDED COMPONENTS

### Elastomers

Classic Coachworks moulds armrests using a proprietary fire-retardant, colour-coded formulation, inclusive of attachment inserts — supplied as an OEM component for the NSW TrainLink V-Set fleet.



MOULDED ARMREST WITH ATTACHMENT INSERTS



V-SET INTERIOR — ARMREST IN SERVICE



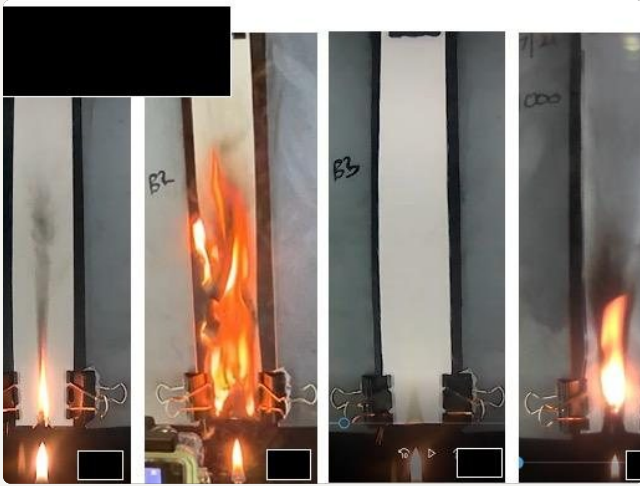
NSW TRAINLINK V-SET

## Textiles, blinds and GRP.

### Fabrics

Fire-tested textiles across the carriage interior, verified in-house by vertical burn testing before supply.

- Blinds and curtains
- Underlays and fire barriers
- Seat fabrics — moquette, jacquard, vinyl
- Driver seat covers



VERTICAL BURN TEST AT 12 SECONDS

### GRP systems

GRP design, tooling, component manufacture and collision repair for interior and exterior applications — including nose cones, pantograph covers, fire extinguisher doors and side skirts.

- CCW R201 resin — EN 45545-2 HL2
- Approved by Queensland Rail and Sydney Trains for new parts and repairs
- Gelcoat and resin systems to HL2 / HL3



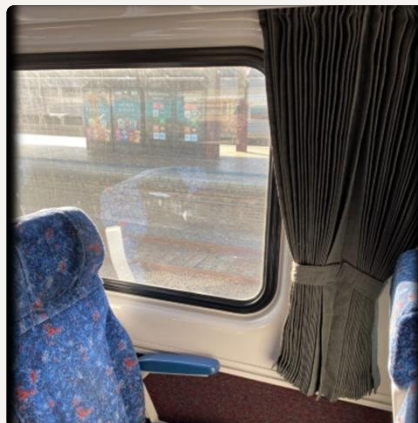
GRP COLLISION REPAIR IN PROGRESS

### Blinds and curtains

Tangara driver cab blind — fireproof, low glare, opaque, water and graffiti proof. Fire-retardant pleated curtains supplied on the Queensland Rail and NSW XPT fleets.



SLEEPER CABIN — PLEATED CURTAINS



PASSENGER COMPARTMENT



DRIVER CAB BLINDS

## Defence, depot safety and specialist components.



PLATT MOUNT – INTEGRAL SKIN FOAM COMPONENTS

### Defence

Integral skin foams, hatch pads and backrests for Platt Mounts — applying the same moulding and formulation capability developed for rail seating to protected mobility platforms.



DEPOT SAFETY NET INSTALLED IN A CARRIAGE DOORWAY

### Depot safety nets

Classic Coachworks manufactures and supplies safety nets to rail depots Australia-wide — a small product line with a direct effect on the safety of maintenance crews working at height in and around carriages.

### Mechanised Track Patrol Vehicle

Full driver and crew seat refurbishment for the Sydney Trains MTPV, compliant to EN 45545-2, with crew seat comfort and fire protection upgrades.



SYDNEY TRAINS MTPV

### Sectors served

RAIL

DEFENCE

MARINE

AEROSPACE

Australia • New Zealand • South-East Asia



REFURBISHED CREW SEAT – EN 45545-2

## Manufacturing only continues if someone teaches it.

### University partnerships

Over **60 mechanical engineering interns** hosted over ten years in partnership with UNSW, the University of Sydney, UTS and Western Sydney University. Many have gone on to be employed by Classic Coachworks.

UNSW SYDNEY

UNIVERSITY OF SYDNEY

UTS

WESTERN SYDNEY UNIVERSITY

### Trades and capability

Foam moulding, industrial machining, GRP lamination and upholstery are skills learned on a factory floor. Keeping those trades alive at Mortdale is how the capability stays in Australia — and how obsolete components remain manufacturable decades after their original tooling is gone.

## WHAT WE HOLD OURSELVES TO

## Four commitments, each with something behind it.

### Repair before replace.

A refurbished carriage keeps a working asset out of the scrap stream and returns it to passengers at a fraction of the cost and carbon of a new build. **446 Tangara carriages refurbished rather than retired.**

### If the drawing is gone, we make a new one.

Legacy fleets lose their supply chains long before they lose their usefulness. We reverse engineer obsolete components from the part itself — scan, model, tool, mould — so a carriage is never retired because a bracket is unobtainable.

### Compliance is the product, not the paperwork.

Everything inside a carriage is a fire-safety decision. We formulate, test and document to EN 45545-2, AS 1530 and BS 6853 so what we supply survives both the burn test and the tender assessment.

### Make it here.

Design, foam moulding, GRP, cut-and-sew and assembly happen at one site in southern Sydney — shorter lead times, real accountability, and Australian content an operator can point to in a procurement submission.



SCAN TO FINISHED CUSHION



IN-HOUSE BURN TESTING



WEEKLY SEAT MAINTENANCE PROGRAM

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## Tell us the part, the fleet, or the problem.

From a single obsolete armrest to a fleet-wide interior overhaul — if it's inside a carriage, we've probably made it, fixed it, or can reverse engineer it.

### CONTACT

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### CAPABILITIES

- Design and reverse engineering
- 3D scanning and mould manufacture
- Custom foam formulation
- Seating manufacture and refurbishment
- GRP components and repair
- Trimming, cut and sew
- Fleet and depot support programs

