

CASE STUDY / SITE SERVICES

POLYPROPYLENE & PVC GANTRY

Fusion designed and fabricated a fully non-metallic gantry from Polypropylene and PVC for DPIRD's agricultural research project.

FOR
DEPARTMENT OF PRIMARY INDUSTRIES AND
REGIONAL DEVELOPMENT (DPIRD)
WA

PROJECT OVERVIEW

Polypropylene & PVC Gantry

CLIENT

Department of Primary Industries and Regional Development (DPIRD)

PROJECT NUMBER

31963

LOCATION

WA

THE PROJECT

DPIRD required a non-metallic gantry for an experimental agricultural project. Metal frameworks were unsuitable as they risked interfering with sensitive sensors.

Fusion designed and fabricated a custom gantry primarily from Polypropylene (PP) and PVC, avoiding any metal components. Thermoplastics provided the necessary strength while ensuring complete compatibility with sensor technology. Key design features included:

- All-plastic construction: no metal parts to affect sensors
- Corrosion-free and weather-resistant materials for outdoor use

PROJECT DELIVERY

Polypropylene expertise applied to a practical project outcome

PROJECT REQUIREMENTS

DPIRD required a non-metallic gantry for an experimental agricultural project. Thermoplastics provided the necessary strength while ensuring complete compatibility with sensor technology.

FABRICATION & INSTALLATION

Metal frameworks were unsuitable as they risked interfering with sensitive sensors. Key design features included:

- All-plastic construction: no metal parts to affect sensors
- Corrosion-free and weather-resistant materials for outdoor use
- Lightweight, durable frame for ease of handling

DELIVERY & OUTCOME

Fusion designed and fabricated a custom gantry primarily from Polypropylene (PP) and PVC, avoiding any metal components. The project highlights Fusion's ability to engineer innovative, non-metallic solutions for specialised research applications.



PROJECT PHOTOGRAPHY

Built around the requirements of the project



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