



MACS Engineering owner Ross Fredrickson is pleased to welcome the new research and development centre where work is being done on the roll-over protection systems (ROPS).

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MACS Engineering has recently opened its new research and development centre, which will be at the forefront of strategic engineered solutions for the mining, infrastructure, energy, civil, construction, government and rural industries.

Headed by product development engineer Michael Cavanaugh, the research and development team are continuously developing new products to improve safety and productivity in businesses all over Australia.

Mr Cavanaugh explains: "To improve our ability to react to the changing needs of customers across these industries, we have opened a dedicated facility to focus on new product development and improving our current product offerings more quickly and efficiently."

MACS has already been instru-

mental in designing, manufacturing and fitting out purpose-built light vehicle and truck bodies, roll-over protection systems (ROPS), safety equipment and accessories.

MACS Engineering was established in 1965, and developed the first ROPS for light vehicles in 1974



We have opened a dedicated facility to focus on new product development and improving our current product offerings - Michael Cavanaugh

in conjunction with Utah Mining and the then Department of Mines.

A recent example of its new product development is the MACS 'next generation' over cab ROPS for dual cab vehicles fitted with side curtain airbags, which incorporates latest materials, technology and research and crash test findings.

ROPS are a specialist safety device to protect occupants within a vehicle in the event of a vehicle roll over.

The MACS 'next generation' over cab ROPS features a twin structural truss beam design that is completely independent of the tray,

which significantly improves occupant access, head clearance and comfort for drivers and passengers, and eliminates all of the potential hazards that accompany internal ROPS cages.

The ROPS are designed to meet mine site compliance requirements and tested to equal the current industry load standard perfor-

mance targets.

Another significant project for the research and development team was the creation of the MACS Designed Wheel Nut Retainer, developed in response to concerns relating to wheel loss on light vehicles.

This solution is currently being rolled out across BMA sites in Queensland.

MACS is dedicated to continuous improvement and innovation in the design, manufacture, supply and fit out of light vehicles and trucks, including safety equipment and accessories.

In addition MACS provides steel fabrication, heavy equipment repair and rebuild, access platforms and walkways and innovative general engineering services.

The team at MACS has grown to over 120 employees locally, with operations in Mackay and Townsville, and services companies throughout Australia and overseas.

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