



CASE STUDIES

■ WASTE MANAGEMENT INDUSTRY

In 2009, we were approached by a major manufacturer in the waste management industry to help solve a problem application for them. The existing cylinders that they were using were failing prematurely... the failure rate exceeded 25%.

The inquiry coincided with the arrival of our first robot fed, twin spindle – 9 axis Okuma Mac-Turn 250-W. This allowed us to offer a hydraulic cylinder barrel assembly complete with integral rear mounts and porting machined from a single piece of steel. All this during a single operation, it also included the roller burnishing of the bore.

The engineering advantage of this design eliminates the distortion caused by welding and more importantly, ensures the correct alignment of the rear mount.

More than 3000 of these cylinders have now been supplied with a negligible amount of in-field issues.

We now have seven of the Okuma multi-axis units within our stable of machines.

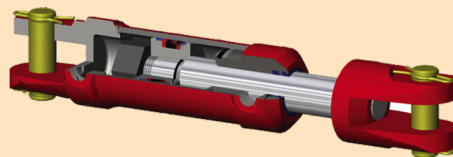
■ DEFENCE INDUSTRY

Working closely with Australian Defence Industries we were involved in the development of the hydraulic cylinders used within their HMEV – High-speed Self Deployment Vehicles which have proven to be successful within our own armed forces and in other defence bodies throughout the world.

PTE Hydraulics was involved in every process of the build from inception to final product

All cartridge valving had to be integrated within the envelope of the cylinder. The design also incorporated the use of internally mounted linear transducers.

The uniqueness of the build extended right through to the Mil Spec CARC paint finish commonly used on tactical military equipment.



PTE HYDRAULICS PTY. LTD.

ABN 16 109 530 467

17 Activity Street, Acacia Ridge, Brisbane, QLD, Australia 4110

POSTAL ADDRESS: PO Box 1701, Sunnybank Hills, Brisbane, QLD, Australia 4109

Ph: 07 3345 8400 (Int'l Ph: 61 7 3345 8400) Fax: 07 3344 1180 (Int'l Fax: 61 7 3344 1180)

Email: sales@ptehydraulics.com.au



1800-OILSOL
1800-645765

<https://oilsolutions.com.au/>

sales@oilsolutions.com.au