

CUSTOMISED FLEET VEHICLE BODY

THE DRAIN MAN

The Drain Man specialises in drain clearing and re-lining operations; servicing residential, commercial and industrial properties in Melbourne. The Drain Man (TDM) contracted Kennovations to design and develop a custom fleet vehicle body with integrated high pressure water jetting capability for its Toyota Hilux vehicles.

Design For Operational Efficiency

The compartments were organised into 4 distinct groups to maximise access and storage capacity. The forward compartment housed the bulky and heavy High Pressure Water Jetting unit between the vehicle axles, the middle compartment housed the expensive and sensitive Camera equipment to isolate it from the 'dirty' items, and the rear compartment housed the Drain Clearing or Re-lining equipment as required by the specific job. A heavy duty rear drawer was designed to store long items and side boxes for smaller items. The custom compartments design enabled an organised and dedicated place for each piece of equipment vastly improving operational efficiency, saving time on jobs and minimising equipment damage and loss.

High Pressure Water Jetting Unit

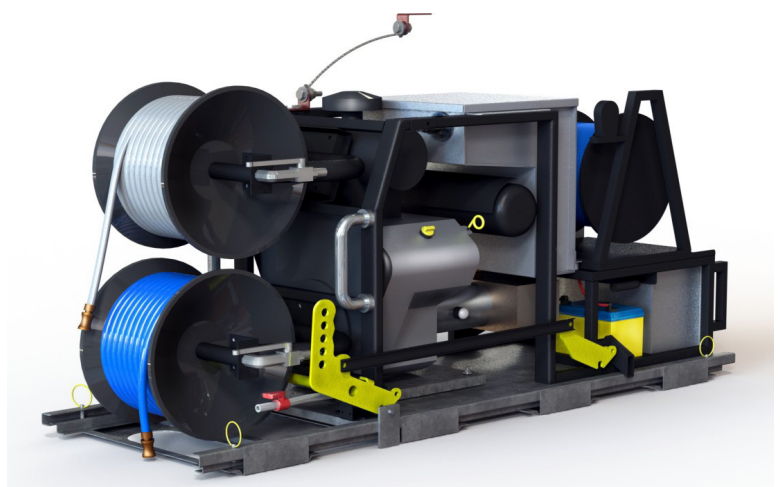
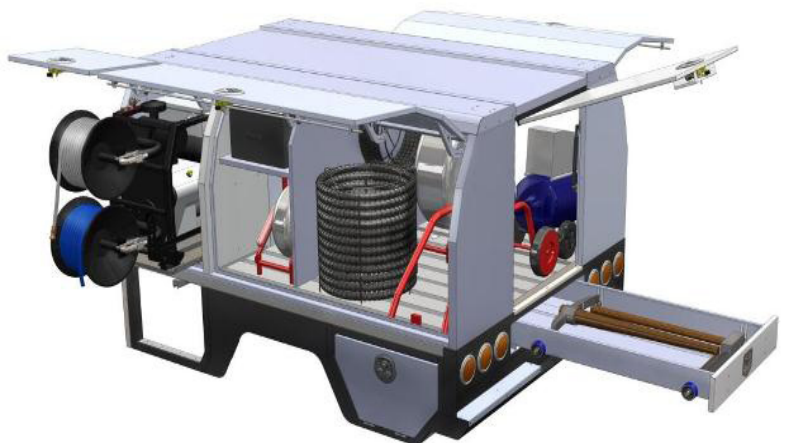
The High Pressure Water Jetting unit comprises a 25HP petrol engine, gearbox and pump assembly and is capable of delivering water to blocked drains at 5000psi up to 100m from the vehicle via a high pressure hose reel. Kennovations redesigned the unit to be more lightweight and compact. By integrating a custom water and fuel tank and jetting accessories storage space, the equipment and associated exhaust and heat is completely independent from the other compartments. To assist with cooling and accessibility a side sliding drawer enables the unit to be positioned outside the vehicle during operation, it can also be removed from the vehicle for servicing or replacement.

Safety & Operational Guidelines

In addition, Kennovations worked closely with TDM to identify potential OH&S issues using Risk Assessment processes and to develop and implement a formal operator training procedure and establish routine safety and servicing inspections for the vehicles.

Outcome

The new vehicle body design has increased TDM operational efficiency by up to 25% per vehicle.



SYDNEY 15 Waltham Street, Artarmon NSW 2064 Australia
P 02 9966 8867 F 02 9439 9815 E sydney@kennovations.com.au

MELBOURNE 17 Redwood Drive, Notting Hill VIC 3168 Australia
P 03 9540 0844 F 03 9543 2286 E melbourne@kennovations.com.au

www.kennovations.com.au



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