



SHARPE BROS®

CIVIL CONTRACTORS • ASPHALT SPECIALISTS™

CASE STUDY

MENINDEE TOWN STREETS TRANSFORMED IN RECORD TIME WITH NEW TECHNOLOGY



PROJECT OVERVIEW

LOCATION	Menindee, NSW
DATE	August 2012
SCOPE	3km ² of Reconstruction and Heavy Patching
MATERIAL	Road Stabilised with 2% lime at 150mm depth

BENEFITS

- **Environmentally friendly** – Sharpe Bros processes that re-use and rehabilitate in-situ materials, eliminate the cost, energy use, air pollution and disruption caused by importing and exporting materials to and from worksites
- **Faster and more efficient** – the use of the all in one Rotamixer unit allowed roads to be rebuilt in just four days, a time far shorter than Central Darling Shire Council anticipated
- **Cost effective** – Sharpe Bros strategies to reclaim gravels and road base and recycle in-place reduce the need for expensive virgin materials
- **Longer lasting roads** – Sharpe Bros in-place road recycling process eliminates reflective cracking common with over-lays and increases base thickness for the new asphalt or bitumen wearing surface
- **Minimal traffic disruption** – Menindee residents were impressed by the minimal disruption to traffic during the project, thanks to the Rotamixer's ability to recycle and stabilise roads in a single process.
- **Improved safety** – The use of less machines due to Sharpe Bros Rotamixer greatly increased safety operations at the worksite
- **Joint partnerships** – Central Darling Shire Council staff worked closely with Sharpe Bros' highly trained specialists to ensure a seamless understanding of the environment, the product and the desired outcome.

SOLUTION

When Central Darling Shire Council needed urgent repair and reconstruction of Menindee town streets they called on the expertise of the Sharpe Bros Team and their innovative Rotamixer.

The reconstruction and stabilisation project was completed in record time, taking the team just four days to patch and reconstruct three square kilometres of road.

With minimal disruption to residents the team quickly and efficiently repaired damaged sections through heavy patching and stabilisation using 2% lime at 150mm depth.

TECHNOLOGY

The patent-pending Rotamixer technology, developed by the Sharpe Bros family company, is an all in one unit that incorporates new developments for mixing lime, cement or blended materials to stabilise road pavements.

The Rotamixer can spread lime, inject water and mix, all in one high powered machine, allowing for greater control of spread rates, moisture content and mixing consistency.

The Rotamixer has the unique ability to mix at various widths and depths from one metre wide patching to full widths, allowing for vast increases in traditional production rates.

TESTIMONIAL

"They did the work in a timely fashion and the overall result was excellent. They accomplished more square metres per day than originally anticipated and I would definitely consider using them again in pavement rehabilitation or reconstruction and also heavy patching works."

Mr Reece Wilson, Manager Technical and Engineering Services, Central Darling Shire Council



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New machine sets the path ahead

The Central Darling Shire Council was one of the first councils in NSW to try out an innovative new road repair machine that enabled them to fix damaged streets in Menindee in record time.

The reconstruction and stabilisation project was completed last month. It took just four days to patch and reconstruct three square kilometres of road.

Council used the new Rotamixer machine developed by a Gosford company, Sharpe Bros.

The Rotamixer is an all in

one unit that incorporates new ways of mixing lime, cement and other materials to stabilise and repair road pavements.

Reece Wilson, the Manager of Technical and Engineering Services at Central Darling Shire Council, said Council staff worked closely with Sharpe Bros. to get the job done.

"They repaired more square metres per day than was originally anticipated and the overall result was excellent. The Menindee community is very happy - they now have a new street." Mr Wilson said.

Joint Managing Director of Sharpe Bros., Michael Sharpe, said the family company had spent millions of dollars to develop technologies to repair and widen roads.

The Rotamixer was developed and built in their workshop in Gosford.

Mr Sharpe said the company had identified a need for an environmentally friendly machine that can re-use road base materials so as to reduce costs and cuts energy use and air pollution.



A Rotamixer was recently used to fix streets in Menindee.

Newspaper: Barrier Daily Truth (Broken Hill)

Rotamixer™

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