

CASE STUDY · NEERABUP, WESTERN AUSTRALIA

Turning Demolition Waste into Road Base with the Powerscreen Trakpactor 320SR

170 t/h	28 L/h	25 mm	500 mm
AVG THROUGHPUT	AVG FUEL USE	MINUS FINISHED PRODUCT	MAX FEED SIZE

THE CHALLENGE

A Mixed and Inconsistent Feed

In Neerabup, Western Australia, the Powerscreen Trakpactor 320SR was put to work processing a challenging mix of concrete and demolition waste destined for reuse as road base on a restoration project.

With concrete pieces measuring up to 500 mm, a considerable amount of fines and pockets of damp material throughout the stockpile, the feed was far from consistent. These variations can affect how material moves through a crusher, making it harder to maintain production and achieve the required finished product.

The objective was to turn this mixed demolition waste into a 25 mm minus product suitable for use on a hardstand area. The challenge was achieving that result efficiently, despite the irregular condition of the incoming material.

THE SOLUTION

A Crushing Solution Built for the Job

The Powerscreen Trakpactor 320SR is a tracked horizontal shaft impact crusher that combines crushing, screening and recirculation within a single mobile plant.

For this application, its integrated recirculating system played an important role. Rather than allowing material outside the required size to move into the finished stockpile, the system returns it to the crusher for further reduction.

To achieve the customer's required 25 mm minus product, the machine was configured with a 35 mm top screen deck and a 25 mm bottom deck. Both the intermediate and oversized fractions were recirculated through the transfer conveyor, keeping the operation focused on producing a single usable material.

HOW IT WAS SET UP

One Integrated Operation

The crusher was operating with a two-high blow bar arrangement, with the primary apron set at 90 mm and the secondary apron at 30 mm. These aprons help control the crushing process by influencing how material is broken down as it passes through the machine.

This configuration allowed the customer to process the material through one integrated crushing and screening operation, reducing the need for additional equipment to handle material requiring further reduction.

MACHINE CONFIGURATION	
TOP SCREEN DECK	35 mm
BOTTOM DECK	25 mm
BLOW BARS	Two-high
PRIMARY APRON	90 mm
SECONDARY APRON	30 mm





THE RESULTS

Performance That Speaks for Itself

Despite the challenging feed conditions, the machine achieved an average throughput of 170 tonnes per hour, with an average fuel consumption of 28 litres per hour.

Fuel consumption was recorded over an eight-hour shift using Powerscreen Pulse telematics, providing a useful picture of how the machine performed under actual working conditions.

170
TONNES PER HOUR (AVG)

28
LITRES PER HOUR (AVG)

OUR COMMITMENT

Support That Goes Further

With an established presence in Western Australia, our team provides local support to help customers maintain their equipment, address operational challenges and minimise unnecessary downtime.

From routine servicing and wear-part replacement to troubleshooting and technical advice, we understand that every hour of lost production can affect project schedules and operating costs.

In applications such as concrete recycling, where abrasive materials place ongoing demands on crusher components, timely maintenance is particularly important.

Our practical equipment training helps operators better understand their machines, from day-to-day operation to maintenance and performance optimisation.