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Customer Success Story

CUSTOMER
Australian Tyre Processors (ATP)

MATERIAL
Car and passenger tyres

SHREDDER
UNTHA XR3000C mobil-e

THROUGHPUT
7 t/h



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„Tyres are a significant waste problem – but also an opportunity – on both a national and international level. The UNTHA XR3000C mobil-e enables us to shred tyres professionally and recycle the valuable raw materials sensibly. This benefits the environment and the economy.“

- Mick Carroll (Director ATP)

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CUSTOMER

Australian Tyre Processors (ATP) is part of Pearl Global Limited. The company converts end-of-life waste tyres into high-value fuel, carbon, steel and gas for electricity production. What sets Pearl Global apart is the research-led and evidence-based processing methods, which recover almost 100 percent of the raw material. The clean conversion technology produces no hazardous by-products and requires no chemical intervention. The products resulting from the processing are proven to contribute to environmentally sustainable outcomes, as well as the decarbonisation of infrastructure.

CHALLENGE

Every year 1.5 billion tyres reach their end of life globally. It is also feared that more than 60 percent are landfilled, stockpiled, illegally dumped or “lost” from the resource chain. This is not just damaging to the environment, but also lets the economic potential go to waste that is harboured in these tyres. Australia accounts for 51 million of that vast figure, but only 5 percent of the country’s end-of-life tyres are recycled

locally. To change this ATP received a grant from the Queensland government’s Resource Recovery Industry Development Program. ATP’s goal was to process around xxx tons of tyres per year. So, the company was looking for a fast and efficient shredder which is able to mill these amounts without difficulty. The desired size of the output-material was 50 mm.

SHREDDING SOLUTION

Tyres are not only bulky but they vary in weight, design and construction so the technology should be able to handle the compositions of different tyres. The XR3000C mobil-e is a single-shaft shredder with high resistance to foreign objects, high throughput performance and low noise emissions. It is very energy efficient thanks to the two 132 kW motors – UNTHA Eco Power Drive – and a slow speed yet high torque gearbox. Therefore, the shredder uses up to 75 percent less energy than diesel-powered devices. With the mobile undercarriage the machine can easily be moved to any spot. The tyre processing plant at the ATP location in also includes a magnetic separator and a funnel which can

be comfortably fed with a front-end loader. The end product is suitable for thermal desorption process to create fuel oils, gas for electricity generation, steel and carbon, with no harmful emissions. The shredder is also able to comminute truck tyres and pre-cut off-the-road tyres. These are subsequently made into products that can be used for road base, tip cover, landscaping, and playground safety surfaces.

PURCHASING DECISION

ATP has procured the UNTHA XR3000C mobil-e from waste management equipment specialist FOCUS Enviro – UNTHA’s exclusive Australian distribution partner. This machine meets all the desired requirements. “Tyres are a significant waste problem but also an opportunity – on a national and an international level. The UNTHA XR3000C mobil-e enables us to shred tyres professionally and recycle the valuable raw materials sensibly. This benefits the environment and the economy”, says Mick Carroll, Director ATP.