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BALERS & SHREDDERS

Tyres shredded on the move

26 NOVEMBER, 2023 | BY MRW STAFF



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For recyclers shredding tyres, the loading and unloading of shredded materials from conventional scrap containers can be a bottleneck in their operations. Traditional portable shredders cannot reach the height of an open-top walking floor semi-trailer.

Another problem is an excessive amount of shredder downtime and associated costs for knife sharpening and maintenance due to the voluminous processing of bulky

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materials.

These obstacles are being resolved with portable, high-volume shredder trailer systems specifically designed to work with open-top walking floor semi-trailers. The portable shredders minimise downtime and maintenance costs by utilising off-the-shelf parts and quick-replace cutter heads, according to Wisconsin-based BCA Industries.

To increase tyre recycling productivity, BCA built the portable PD1000 IO X system (*pictured*), which comprises a PD1000 shredder and a PD1000 IO conveyor, a unique 'double-jointed' system that hydraulically unfolds to a height of 13ft.

The conveyor feeds tyres into the shredder's 36 x 28in cutting chamber where four-hook knives shred the material to the desired size. The larger unfolding section deposits the shredded material into the open top of the walking floor trailer.

Its dual-shaft, low-speed, high-torque shear can shred automotive and light-duty truck tyres at a volume of 3.6- 4.5 tonnes an hour. Operators can also shred semi-trailer truck treads after sidewall removal.

The PD1000 IO X system is transportable with a non-commercial vehicle such as a pick-up truck. The power unit is a completely self-contained diesel/hydraulic system so does not require additional electrical connections or a concrete slab for use.

The shredder does away with the typical complex gearbox and instead uses a double, heavy-duty chain drive.

Maintainers can quickly and inexpensively replace every part of the cutting head. To minimise downtime, they can remove the shredder's modular head from the system and swap it with a fresh head in less than one hour or maintain it safely at ground level.



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