



## Red Rhinos: a crushing solution

On-site crushing offers a number of advantages and the Red Rhino range of mini crushers has been designed and built to provide recycling solutions for a broad range of applications.

"On-site crushing offers benefits for all parties," explains Andrew Morris, local representative for Red Rhino machines. "Crushing and reusing construction and demolition waste (CDW) as it becomes available on site negates the need for expensive haulage and tipping fees or the purchase of new materials. Not only does reuse of material considerably reduce



costs, there is also a growing trend to allocate environmental points, such as carbon credits, for effective site waste management."

Morris continues: "Recycling has huge potential to reduce demand for natural resources as well as lower pressure on landfill operations. International research suggests that recycling of CDW is becoming economically and environmentally the preferred alternative.

"Local authorities can extend the life of existing landfill sites and, by installing machines at these sites, may also provide improved blanketing. In addition, they are able to sell surplus material. Construction companies can save on transportation, tipping fees and materials purchasing with a payback on the machinery in as little as six months.

"It is generally recognised that natural resources are diminishing and extraction costs are rising. Research is demonstrating that recycled CDW is a cost-effective material for low-value components of construction projects – driveways, drainage, landscaping, pavements and roadways. If you take all the costs into account, the use of recycled aggregates is becoming an increasingly attractive alternative."

Figures suggest 25 to 35% of landfills comprise CDW – representing both a valuable resource and an unnecessary pressure on landfill sites. The standard reaction to the landfill problem is to raise tipping, or gate, fees but this becomes a major contributor to increased illegal dumping and a lack of quality control on the processed material.

"One of the biggest challenges is to overcome the misconceptions and misunderstandings contributing to the resistance to change," says Morris. "As costs increase and pressures to identify and minimise environmental impact rise, so recycling will become essential. The total cost of ownership of mobile crushing machines can significantly reduce overall costs and may even provide new business opportunities such as third-party recycling and material sales."

Red Rhino mini crushers come in three sizes and different power options. The smaller machine is only 770 mm wide and is specifically designed for use in restricted areas. The medium-sized 5000 series machines weigh in at just under 3 tons with operational capacity of up to 15 tons per hour, while the larger, 7000 series machines process over 250 tons per day.

"Recycling is not free, but savings on the end to end process are very attractive and this can only improve as methods improve", concludes Morris. ■

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