

Creating a Resource Recycling Society

Komatsu contributes to the creation of a resource recycling society by promoting on-site recycling through mobile crushers/recyclers/tub grinders, recovering and remanufacturing used components (parts), and effectively utilizing waste derived from manufacturing operations.

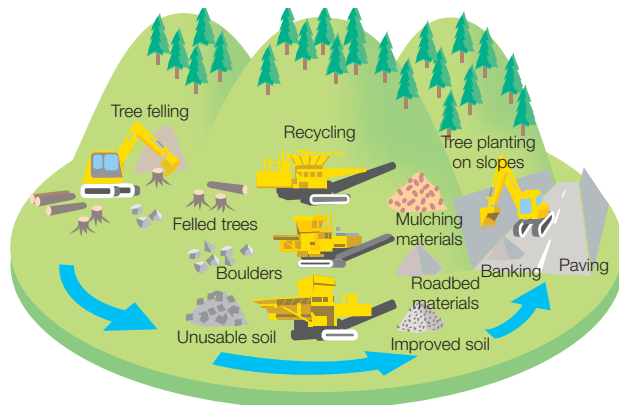
Providing Solutions for Customers

Promoting On-site Recycling

Komatsu offers high-quality, efficient solutions that harmonize with the environment to address environmental concerns facing society.

Promoting On-site Recycling through Mobile Crushers/ Recyclers/Tub Grinders

Komatsu's mobile crushers/recyclers/tub grinders process lumps of concrete, exhumed earth, discarded wood, and other residuals generated at construction sites there onsite. Reusing these processed



residuals within the construction site has multiple merits. The volume of waste generated can be reduced, cutting costs for transport and disposal; fewer new materials need to be purchased, saving costs in resources and materials; and wastes are crushed and reduced in volume, curbing CO₂ emission and costs during transport.

Komatsu's mobile crushers/recyclers/tub grinders are now in operation at a large number of construction sites, helping solve the environmental and cost challenges facing customers at one stroke.



Mobile crusher

Effective Utilization of Resources in the Development of Products

Advancing the Recycling of Canned Counterweights in Hydraulic Excavators

Since 1999, Komatsu has been working towards targets for three environmental indicators of (1) the rate of CO₂ emission reductions, (2) the recyclability rate, and (3) the rate of reduction in the amount of hazardous substances. Yet, canned counterweights in hydraulic excavators had negatively impacted the degree of attainment of overall recyclability rate for excavators (less than 80%, compared to the FY2010 target of 99.5%).

The company has considered various ways to address this issue, such as proposals to use only iron-based recyclable materials for packing contents or to establish a route for collecting used counterweights. However, none of these ideas had been implemented.

The Japan Construction Equipment Manufacturers Association (CEMA), of which Komatsu is a member, recently prepared a manual that specified means for indicating packing contents of canned counterweights, dismantling the counterweights, and separating out and reusing the packing contents, with a view to promoting the recycling of canned counterweights. The canned counterweights

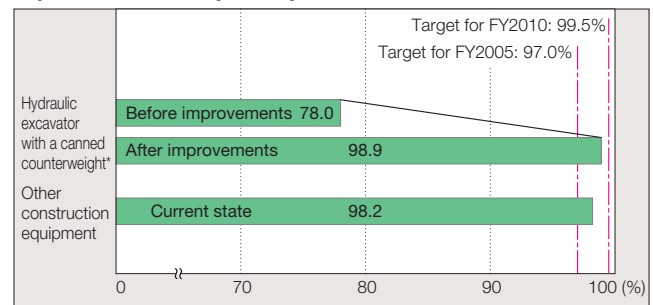


Demonstration test of counterweight dismantling
Left: Dismantling using a LaBounty shear; right: dismantling using a guillotine shear

about which the company had been concerned are now able to be classified as "recyclable" through these newly established means. The CEMA is currently certifying treatment companies capable of processing these items in accordance with the manual. Extending the number of certified companies will improve the actual rate of recycling of canned counterweights.

While this process currently remains limited to Japanese operations, Komatsu intends to manage packing materials rigorously, giving consideration to the EU REACH and other regulations.

Improvements in Recyclability Rate



*In the case of the PC200-8 hydraulic excavator