Metso

Nordwheeler™ NW8HRC portable crusher

Turning waste to sellable products

The Metso HRC 8™ HPGR (high pressure grinding roll) is ideal for manufacturing sand, with low energy and wear parts consumption.

Benefits

- Re-locating to re-crush waste piles on different sites
- High quality sand with low energy consumption
- Safe and easy to operate and maintain

High quality sand with low energy consumption
In crushed aggregates production, up to 30% (rock dependent) of materials acquired from the bedrock are reduced to sizes smaller than 4 mm, meaning they end up as waste. These stockpiles are a perfect feed for the production of manufactured sand.

A part of Metso's Planet Positive offering
Metso HRC 8 delivers a perfectly cubical shape for concrete and asphalt sands. It also produces more fines with fewer unwanted microfines in the final product compared to other technologies in manufactured sand. It is also more efficient consuming up to 50% less power than any other technology in the same application, while obtain the same net product volume.

Nordwheeler portable plants are powered by electricity
NW portable plants can be set up whitout heavy concrete foundations. In many countries, the ability to relocate the entire plant means that it is easier to get crushing permits. This makes the plants a desirable choice for 1-2 years periodical crushing projects, for example in the construction of dams, airports and roads.

Read more at
metso.com/nordwheeler

Case: Hawaiian Cement, Hawaii

Transforming waste into sand with HRC8

Challenge

- Costly outsourced concrete sand, unusable byproducts

Solution

- HRC™ 8 high pressure grinding roll to re-crush the wet byproducts to ASTM C-33 concrete sand

Results

- After many trials with other technology, HRC is viable and cost-effective solution to add value to process waste fractions
- Lower maintenance costs
- Improved operational efficiency
- Minimal vibration and dust emissions
- Change product fractions without stopping the machine
- Amount of imported sand decreased from 50% to 25%