

MINER "MORUPULE COLLIERY" – JOY GLOBAL – BOTSWANA

The **Morupule Colliery** is a coal mine located in Palapye, Botswana, and owned and operated by **DEBSWANA**, a partnership between the government of Botswana and De Beers. Founded in 1973 to supply the Bamangwato Concessions, Ltd copper and nickel mine, operations have expanded considerably since then to supply regional power plants and industries, especially the nearby Morupule Power Station.



Joy Global Inc. is an American company that manufactures, and services heavy machinery used in underground and surface mining.

Joy Mining Machinery is the world's largest producer of high productivity underground mining machinery for the extraction of coal and other bedded materials including trona and salt.

JOY GLOBAL operates major support facilities in Australia, South Africa, United Kingdom, China and the United States, with sales offices and service facilities in India, Poland and Russia – all near or within major underground mines.



In 2015, **ZINGA** was applied on a continuous miner (electric, self-propelled digging machines that cut material using carbide-tipped bits on a horizontal rotating drum).

The surface was manually prepared using a bristle blaster. A rotating tool using sharp needles, which creates adequate surface roughness.

In total 5 miners have been protected with **ZINGA**.



System:
Surface preparation:
Bristle Blaster

ZINGA

120 µm DFT