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Newmont Gold - successful start-up

During 2012, Newmont Mining commissioned a 4.3 m-wide (14 ft) by 7.3 m (23 ft) long double-deck banana screen at its Phoenix operation at Battle Mountain, Nevada. One of two purchased from **JOEST**, the screen was designed and built by the company's U.S. subsidiary in Chicago, Illinois.

At 4.3 m (14 ft), and weighing 35 mt, this is the widest gold-ore screen in the world, according to **JOEST**, being used as a secondary crusher scalping screen to remove minus 25 mm (1 inch) material. The top deck serves as a relief deck, removing plus 75 mm (3 inch) material to reduce the loading on the bottom deck, and allowing maximum capacity and efficiency.

Crushed gold ore up to 300 mm (12 inch) in size is fed to the screen at a rate of 2,800 ton/h. A number of special design parameters were used to accommodate this heavy loading and high capacity. Especially the screen deck cross members are a special **JOEST** design, developed and proven especially for large screens over the last decades.

Three maximum-duty **JOEST** JR 818 exciters drive the screen on more than 12 mm (0,5 inch) stroke.

The screen includes a fixed cover with an inlet connection, dust-collection ports and multiple inspection doors, while an isolation frame minimises transmitted vibration from the screen.

Since commissioning, Newmont is very pleased with the screen's performance, noting that it had been chosen as the supplier because of **JOEST** extensive experience around the world in building large screens and strong track record for efficiency and reliability.

With more than 90 years experience is **JOEST** one of the worldwide leading companies in the field of vibration technology and bulk handling with subsidiaries and agencies all over the world.

JÖST GmbH + Co. KG is a medium-sized, owner-managed company and an international leader in the field of vibration technology. Our core competences are the design and manufacture of vibratingscreens, vibrating drives as well as setting up complete process engineering solutions for processing bulk materials.

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