

Yamazaki Mazak Optonics Corporation, Phoenix Laboratory Received Award from the Japanese Ministry of Land, Infrastructure and Transportation

Yamazaki Mazak Optonics Corporation, the Yamazaki Mazak Corporation group company that manufactures laser processing machines, established the Phoenix Laboratory, an underground factory, in Minokamo, Japan, in early 2008.

The factory received the highest award from the Ministry of Land, Infrastructure and Transportation Award, for “2008 Effective Land Utilization Grand Prize.” This award is administered by the Institute of Future Urban Development with the support of Ministry of Land, Infrastructure and Transportation. The award is given by evaluating the land utilization, blending in with natural surroundings, and the environmental impact of buildings.

Phoenix Laboratory (Underground Factory) Features

1. Clean room environment that is required for the manufacturing of high precision machines – makes it possible to considerably reduce the time required for the assembly of laser processing machines.
2. Considerable energy efficiency by using geothermal heat to control the factory temperature (Summer time: lower than 28°C (82.4 °F), Winter time: higher than 18°C (64.4 °F))
3. Minimized ground vibration for the manufacturing of high precision components, such as mirrors
4. Highly efficient land utilization by having the factory underground
5. Considerable reduction of electrical power consumption thanks to no HVAC system

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