

Blast Furnace: Replacement/Fitting of Ductwork

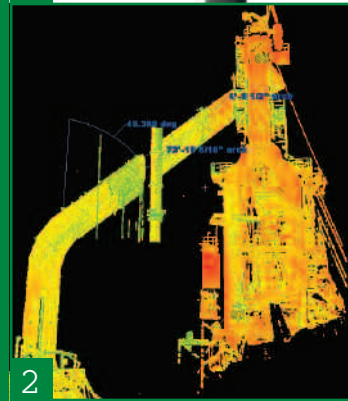
Laser scanning is some of the newest surveying technology available. It allows measurements to be taken on objects that would be unsafe to get to or would need scaffolding built to have access to survey. On the blast furnace pictured, Falk-PLI utilized a laser scanner to assist in replacement of nine-foot diameter ductwork.

Falk-PLI gathered 3-dimensional information of the ductwork before and after sections were removed.

Falk-PLI then gathered information on the new pieces to be installed. Creating 3D models of the pieces allowed Falk-PLI to assist our client in making necessary adjustments to allow a fit on the first lift. This workflow expedited the normal process of lift/check/adjust until the fit is correct. By adjusting the pieces on the ground, we gave our client a quality construction that had never been done before.



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- 1 **Image of the uptakes and downcomer (downcomer before replacement).**
- 2 **Modeled information of the existing downcomer.**
- 3 **Modeled information of the new downcomer to be installed. This information was used to aid installation of the piping.**

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