Applied Resolution Technologies

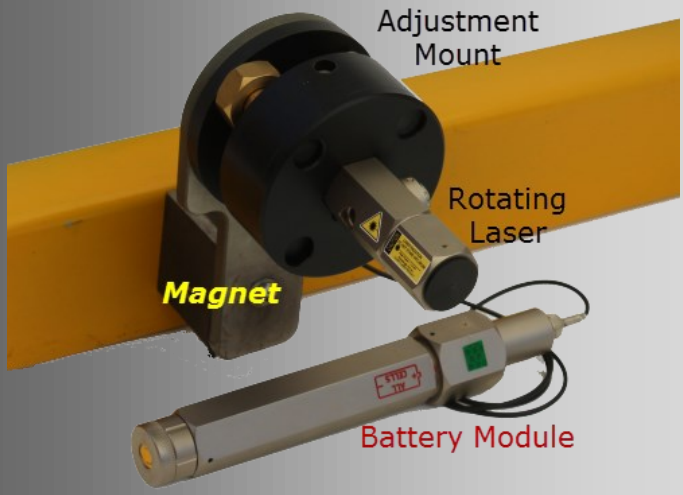
Laser application technologies : Mining, Oil & Gas, Agriculture, Industrial

CLX-635

SINGLE OPERATOR LASER ALIGNMENT SYSTEM

+/- 500m range

Conveyor System laser aligner



The CLX-635 is a Class 2 rotating alignment laser system mounted in an adjustment system that can be bolted or magnetically attached to conveyor facilities. The laser provides a rotating vertical plane, with apertures facing along the conveyor producing a +/- 6 degree laser fan. The laser is aligned square to the laser body with correction optics guaranteeing that the laser is true in both directions.

Sensing is achieved using a handheld laser sensor, that provides the centre of the beam axis (and theodolite axis) to within a few mm across the entire range.

Conveyor systems carry large loads. Not having them straight means that the conveyor bearings are under tremendous loads, and can become costly in downtime. Get that conveyor straight, save time, save money.

The CLX-635 includes an adjustment mounting system that allows the laser to be precisely adjusted to the conveyor axis.

Specifications :

- Visible laser 635nm (red)
- Also available with 515nm (green) laser CLX-515
- Remote battery modules can also be attached directly to the laser module from rear, or connected via cable.
- Laser power < 5.0mW , rotating with safety cut out. Class 2 specification based on exposure with laser cut out should the rotating mechanism fail..
- Working range > 700 m
- Beam aligned to laser body using proprietary means, with compensation on both directions of laser output to match the theodolite optical axis.
- Micro laser control circuit with Auto Power Control.
- Integral design to provide a unique product for alignment applications.
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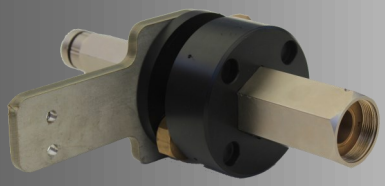
SEE ALSO : TLX-635 system for alignment and slope setting.

**** Also available in IECEx Certified version for coal conveyors**



APPLICATIONS :

- Conveyor system alignment
- Facility set-up
- Overhead Crane alignment
- Configurable with idler jigs for checking squareness of idlers and roller assemblies.

Manufactured, maintained and serviced in Australia.

Sensor type may be selected from several options including potential for machine control sensors. Generally, the hand-held sensor will provide approximately 5mm measurement precision over the entire laser range.

Shown here is Apache Storm which has measurements of the laser centre from the alignment reference mark.

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Phone: 0407 54 2440
E-mail: geoff@appliedresolution.com.au
http://www.appliedresolution.com.au