

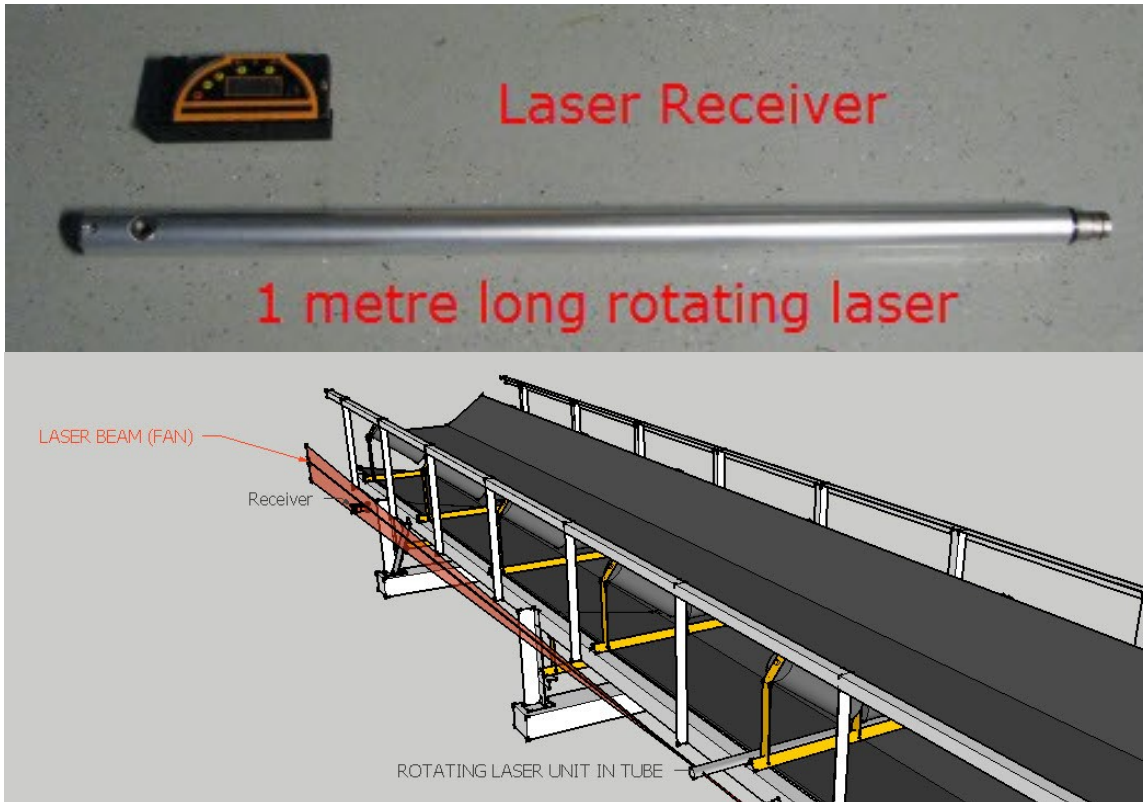
Applied Resolution Technologies

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

PRECISION IDLER HANGER LASER ALIGNMENT

CLX-635T +/- 300m range

Conveyor system laser alignment has never been simpler, as precise, or as affordable!!



Specifications :

- Visible laser 635nm (red)
- 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 generate a line perpendicular to the conveyor hanger frame.
- Idler angular setting to within 1 part in 25,000 when measured over 50 metres.

The CLX-635T is a Class 2 rotating alignment laser system mounted in 1 metre long, 42mm diameter steel tube. The system generates a rotating laser plane perpendicular to the laser tube, with apertures facing along the conveyor in two directions producing a +/- 6 degree laser fan. The laser is aligned perpendicular to the steel tube with correction optics guaranteeing that the laser is true in both directions.

Sensing is achieved using a handheld laser sensor, providing a measurement of the centre of the beam axis to within a few mm across the entire range. Even out to 300 metres!!! The receiver provides mm measurement. Indication and has resolution settings to meet your alignment specification.

Conveyor systems carry large loads. Not having them straight means that the conveyor bearings are under tremendous loads and will cause belt wander as well as prematurely wear the bearings. The CLX-635T system allows perfect alignment of idler hanger systems so they are perfectly perpendicular to the conveyor travel direction. The laser also allows the conveyor to be aligned to reduce belt wander.

The CLX-635T includes a 5 x C-cell alkaline regulated battery system providing constant operation of the laser down to the very last of the available battery capacity.

APPLICATION FOR IDLER ALIGNMENT

By attaching the laser tube to an idler hanger frame, the laser projects the alignment of the idler frame along the conveyor system for hundreds of metres, allowing extremely precise setting of idlers. The handheld sensor is either used downfield using a set displacement fixture mounted on the conveyor frame, or used at the laser itself by employing a retro-reflective prism target downfield.

APPLICATIONS :

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

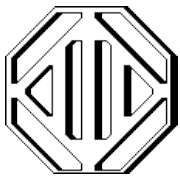
Manufactured, maintained and serviced in Australia.

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RED, GREEN, ROTATING (1-D) AND SPOT (2-D), STANDARD SYSTEMS AND INTRINSICALLY SAFE (IECEX CERTIFIED) SYSTEMS

Conveyor System Alignment Lasers

Applied Resolution Technologies sets the benchmarks with modular industrial alignment systems for conveyor alignment applications. Aligning conveyors precisely minimizes wear on belts and bearings, and reduces running costs by minimizing drag on the conveyor.

The ART laser systems project the alignment along the conveyor axis using visible lasers whose displacement is measured using handheld laser receivers with measurement capability.

The new CLX-635T laser system is THE SOLUTION for idler alignment, with simple set-up and operation. The laser systems are manufactured using the same rugged designs that have been used in ART mining-application lasers for over 20 years.

ART CONVEYOR ALIGNMENT SOLUTIONS

KIT PRODUCT	DESCRIPTION	Ex
CLX-635 KIT	Rotating red laser aligner, with laser receiver, alignment +/- 500 metres in 1-D	No
CLX-515 KIT	Rotating GREEN laser aligner, with laser receiver, alignment +/- 500 metres in 1-D	No
SLM-635 (M/X) KIT	Fixed spot RED Class 2 laser alignment system for < 100 metre application, in magnetic adjustment mount, with laser receiver. STANDARD and Intrinsically Safe versions.	Yes
SLM-515 (M/X) KIT	Fixed spot GREEN Class 2 laser alignment system for < 100 metre application, magnetic adjustment mount, laser receiver, optional adjustable iris go/no-go alignment fixture. Standard and Intrinsically Safe versions	Yes
BLX-635 (M/X) KIT	Fixed spot RED Class 2M laser alignment system for up to 1000 metre application, in magnetic adjustment mount, with laser receiver, adjustable laser iris option, optional adjustable iris go/no-go alignment fixture. Standard and Intrinsically Safe versions	Yes
BLX-515 (M/X) KIT	Fixed spot GREEN Class 2M laser alignment system for up to 1000 metre application, magnetic adjustment mount, laser receiver, optional adjustable iris go/no-go alignment fixture. Standard and Intrinsically Safe versions.	Yes
NEW CLX-635T	1.0 metre long laser with integrated battery module and rotating laser, mounted in rugged 42mm diameter tube. Rotating laser outputs in two directions perpendicular to the laser body.	NO

APPLICATIONS :

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

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