

L A S E R S C A N N I N G & T R A C K I N G S E R V I C E S

Steel Mill Caster Alignment

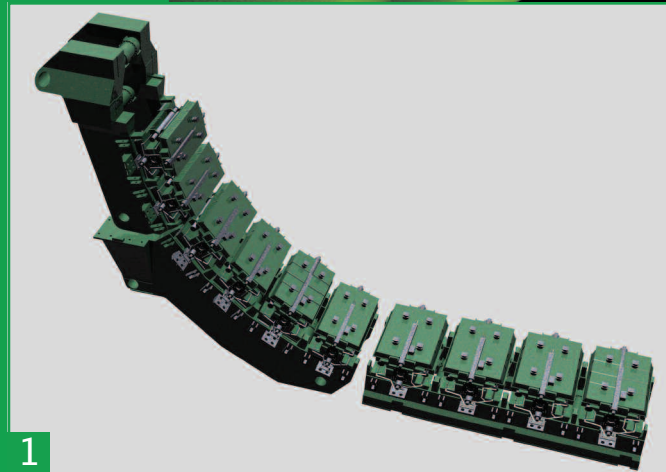
Through providing alignment services for over a decade on over 500 caster campaigns, Falk-PLI has become the industry leader in industrial metrology.

Falk-PLI utilizes Laser Tracking, one of the newest surveying technologies available, to help clients resolve alignment issues. The Laser Tracker allows 3D measurements to be taken on objects more quickly and accurately: each measurement having 3D (X,Y, Z) coordinates with an accuracy of .001". Measurements can be provided up to 10,000 observations per second, yielding excellent statistical redundancy and repeatability.

The process begins by completely removing the segments from the caster. This allows a survey of the segment carrier beam on the caster to be performed on all the segment pads, pins, and keepers. Once the segments are removed, the laser tracker will be put into survey position. During the survey of the segment carrier beam, all primary resting pads and pins are surveyed. With this information, Falk-PLI will develop the best-fit center for the caster. After the center of the caster is developed, Falk-PLI can assist our client's efforts in making any necessary adjustments, establishing shimming practices and providing custom software to ensure proper alignment. On this type of survey, Falk-PLI has found that the laser tracker is nearly 10 times faster than conventional surveying.

Experience shows that Falk-PLI alignment practices are faster and safer while improving product quality and extending equipment life.

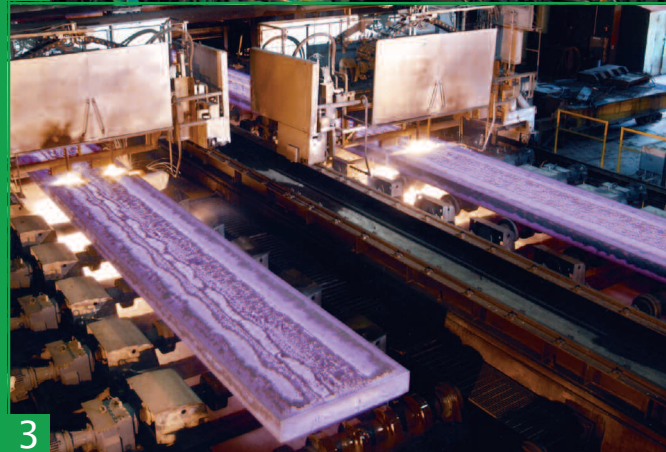
- 1 **3D Model of Caster Bow Frame**
- 2 **Laser Tracker Set Up on Caster Segment Carrier**
- 3 **Run Out Table of 2 Strand Slab Caster**



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