

## DIMETIX APPLICATION EXAMPLE

AE-0509

### LASER CONTROLLED CUT OFF SOLUTION

**Industry :** Wood and metal machines  
**Application type :** Position measurement

#### Brief description



Pic 1: Behringer Saw

Traditional contact measurement methods are vulnerable to mechanical failure of parts, strings, and cables that wear, break, or stretch, and they also have the potential to damage the surface being measured. Increasing operational demands, maintenance requirements, and the growing importance of efficiency, however, are factors in metals production. Range, accuracy and durability are the factors setting laser sensors apart from other measurement technologies. Laser distance sensors can provide an economical approach to improving quality, as well as an affordable technological advantage for increasing efficiency, reducing waste, and eliminating production outages related to mechanical failure.

One of our partners recently played a leading role on a team of integration partners to design and implement a laser-controlled cut-off system as part of an expansion project for a new steel production facility. The new facility is open ended and subject to the harsh operating conditions typical in steel production. In addition to the massive Behringer saw at the heart of the steel bar cut-off solution. The system includes the following components: 1 Dimetix FLS-C laser distance sensor, a variable linear motor drive and a monitor interface with integrated PLC control. All these findings and your lines and connections have been linked in various housings together. The project also included the design and manufacture of an adjustable, heavy steel mounting bracket to withstand the harsh operating conditions

#### Customers advantages

- Easy alignment thanks to the visible laser beam
- Rugged aluminum housing suitable for harsh industry environment
- Maintenance free
- Accuracy +/- 1mm



Pic 2: Built-in Dimetix Laser Sensor

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