



*vibration - thermography - oil analysis - laser alignment - in-situ balancing*

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# **Roll Parallelism Report**

**customer**

**Address,**

**date**

## **Introduction**

A request was made by Mr Joe Bloggs of A Customer to carry out a roll parallelism measurement, due to an issue with creasing when the polymer film was run through the 2<sup>nd</sup> of two Dielectric Silicone Machines.

## **Equipment**

The following equipment was used to carry out this measurement:

Fixturlaser Alignment System.  
Laser Transmitter and Angular Prism.  
Documenter Software.









## **Technicians:**

Mr T McManus.  
Mr B l'Anson

**Report**









The first of two sets of measurements were taken using the penultimate down path roll as the reference.

**First Set Of Measurements Using Penultimate Roll As Reference.**

|  | Penultimate<br>Down Path Roll   | Dielectric<br>Silicone Mach 1   | Dielectric<br>Silicone Mach 2   | Final Roll   |
|--|---|---|---|--|
| <br>/1000 | 0.00  | 0.44  | 0.28  | 0.45   |
|           |  |  |  |  |
| /1000  |   |   |   |  |
|           |   |   |   |  |
| A  |   |   |   |  |
| B  | 2700  | 2600  | 2600  | 2500   |
| <br>0.000 |   |   |   |  |

A second set of measurements were taken using the 2<sup>nd</sup> Dielectric Silicone Machine (*machine with issue*) as the reference. This was done due to the issues specified during the site visit and also to check the repeatability of the first set of measurements.

**Second Set of Measurements Using Dielectric Silicone Machine 2 As Reference.**

|  | Dielectric<br>Silicone Mach 2   | Dielectric<br>Silicone Mach 1   | Final Roll  | Penultimate<br>Down Path Roll  |
|--|---|---|---|--|
| <br>/1000 | 0.00  | 0.38  | 0.76  | 0.03   |
|           |  |  |  |  |
| /1000  |   |   |   |  |
|           |   |   |   |  |
| A  |   |   |   |  |
| B  | 2600  | 2600  | 2500  | 2700   |
| <br>0.000 |   |   |   |  |

**Conclusion**

Both sets of measurements indicate the same discrepancy between the final roll and the Dielectric Silicone Machines.

In the first set of measurements, using the penultimate down path roll as the reference, the 1st Dielectric Silicone Machine and the Final Roll are indicating the same direction and measurements. However the 2<sup>nd</sup> Dielectric Silicone Machine and the Final Roll are not parallel and are out of align by a joint sum of 0.73mm/1000mm (1.9mm over the 2500mm roll length).

In the second set of measurements, using the 2<sup>nd</sup> Dielectric Silicone Machine as the reference, the same discrepancy 0.76mm/1000mm (1.9mm over the 2500mm roll length) can be seen between this machine and the Final Roll.