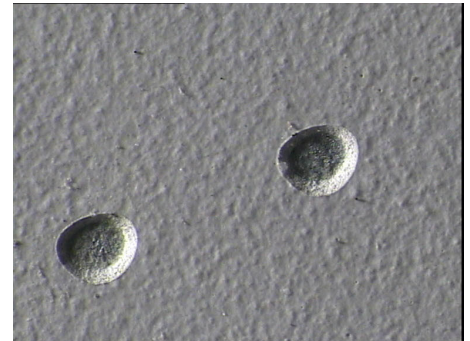
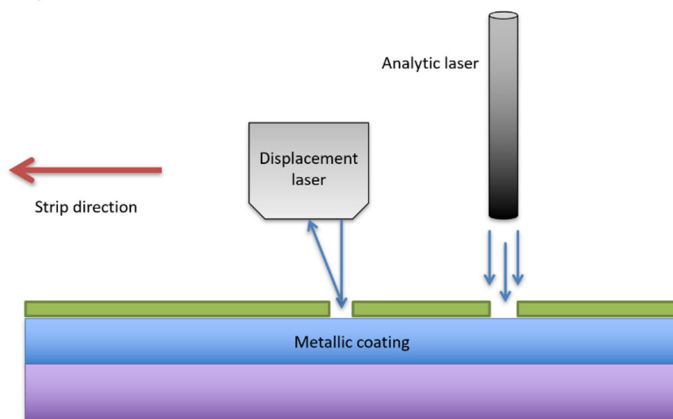


The Phaeton operates on the same principal as our DFM uses a CO2 laser to ablate a small 180 micron wide hole through the paint without removal of any of the underlying metallic substrate. This is achieved because the amount of laser energy required to affect/melt the metallic coating on the substrate required is considerably greater, on the order of several magnitudes of power greater than what is required to ablate the organic coating.



## Principle of Operation



These small pits are then scanned by a high frequency laser displacement sensor.

Programming of the measurement cycle is completely configurable. Fully automated operation mode is included; in this mode operator input is not required as the instrument obtains a signal from the production PLC corresponding with coater on-line or coater off line positions the line speed input allows timing of when the measurements should begin after a strip splice. If enabled the intense measurement features performs a higher intensity of measurements at the start of each coil on material that becomes the inner wrap of the new coil. Dual Top Finish installations have an automated X-Axis operating independently for each

side. The Strip width is detected and the top finish units will move to correct strip edge position automatically to take simultaneous edge readings. Single unit installations with X-Axis travel will scan the width of the strip to locate the edge positions and will then cycle from one side to the other to take readings on both edges of the strip.