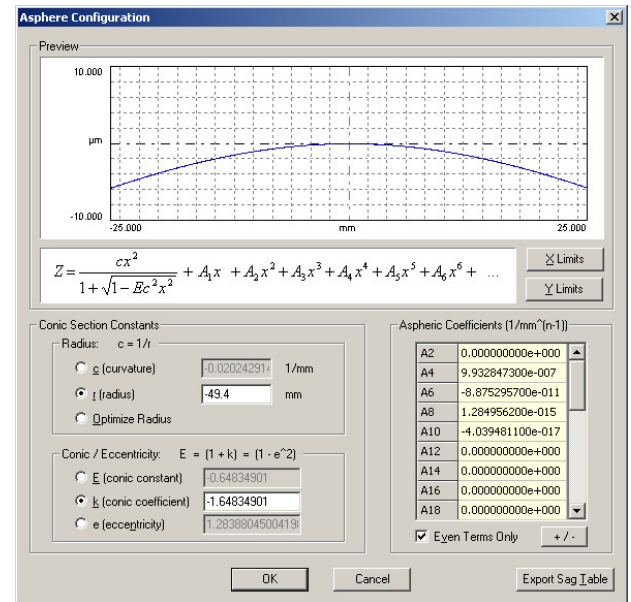


OmniSurf

...simplifies aspheres!

Powerful.
Easy to use.
Affordable.

Compatible with most profiling instruments!



Digital Metrology Solutions has developed the OmniSurf software package with two goals in mind:

- Incorporate every useful analysis methodology.
- Accommodate data from every available profiling instrument.

Keeping in line with those objectives, OmniSurf's aspheric analysis capabilities can be applied to data from more than 20 different instrument types* and the analytical tools are designed with both *power* and *user-friendliness* in mind.

*Additional data file formats can be incorporated upon request.

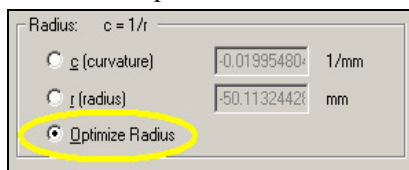
With just one click of the mouse...

Typically, the analysis of aspheres involves measuring a profile; analyzing it compared to the nominal form; observing excessive curvature in the residuals;

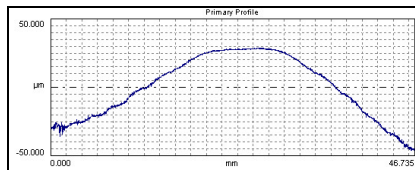
- changing the base radius; re-analyzing;
- ...changing the base radius, re-analyzing,
- ...changing the base radius; re-analyzing...

OmniSurf takes the iteration out of aspheres.

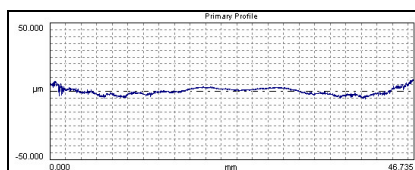
With just one click of the "Optimize Radius" button:



OmniSurf turns this:



into this!



Beyond the asphere...

OmniSurf incorporates aspheric form as one of its basic reference geometries.

- Datum Reference
- Least Squares Line
- Least Squares Arc
- Fixed Radius (user-specified)
- Polynomial (user-specified order)
- Asphere (user-defined)
- including: spheres, conics, ellipses

Accompanying these geometries is a full suite of filters:

- Gaussian
- Spline Gaussian (adjustable tension)
- Valley Suppression (ISO 13565)
- Robust (Regression-based Spline Gaussian)

And over 80 parameters for the description of the residual profiles:

- Statistical (averaging)
- Peak-to-valley (extreme)
- Material Ratio (material distribution)
- Slope/Spacing (hybrid)
- Tribological (spectral moments)

For more information visit:

www.digitalmetrology.com

$$Z = \frac{cx^2}{1 + \sqrt{1 - Ec^2x^2}} + A_1x + A_2x^2 + A_3x^3 + A_4x^4 + A_5x^5 + A_6x^6 + A_7x^7 + A_8x^8 + A_9x^9 + A_{10}x^{10} + A_{11}x^{11} + A_{12}x^{12} + A_{13}x^{13} + A_{14}x^{14} + A_{15}x^{15} + A_{16}x^{16} + \dots$$