



Optical Measuring Toggle



OPTICAL MEASURING TOGGLE CLAMPS



Designed specifically for clamping of parts during photometric measurement. Uniform

Order No.	l_4	l_5	l_6	l_7	l_8	l_9	w_1	w_2	w_3	w_4	d_1	α	α^*
40000.W0100	14	5.5	22	8,5-13,5	5.5	-	4	32	23.0	-	4.5	95°	-
40000.W0101	18	6.0	27	16.0	5.5	-	5	34	22,5-26,0	-	4.5	95°	-
40000.W0102	25	11.0	32	20.0	6.0	12.5	6	43	23,0-31,0	27	5.5	105°	60°
40000.W0103	36	19.0	35	20.0	7.5	-	8	46	32.5	-	7.5	105°	60°



Meeting the Needs of Component Clamping During Optical Measurements

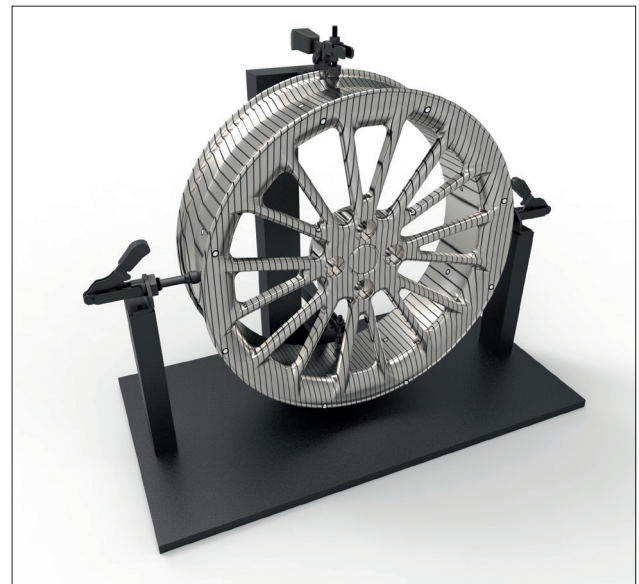


The black toggle clamps are especially suited for optical workpiece measurements.

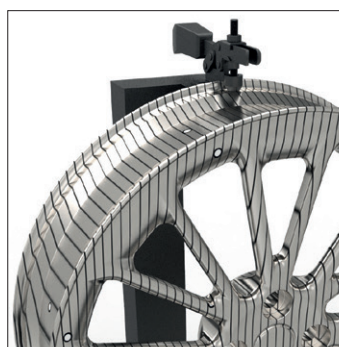
The complete matt-black surface of the clamps prevents reflections. As a result, in the later evaluation of the measurement results on the PC, all un-needed clamp parts can be "knocked out" and only the actual workpiece is visible.

These toggle clamps are blackened using the Vario-Spektrox® process. This offers effective protection against corrosion and film rust formation. In addition, this process is less environmentally damaging.

Component Clamping

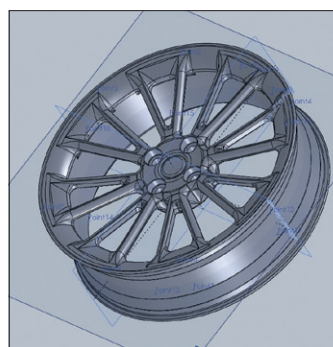


Optical Measurement Process



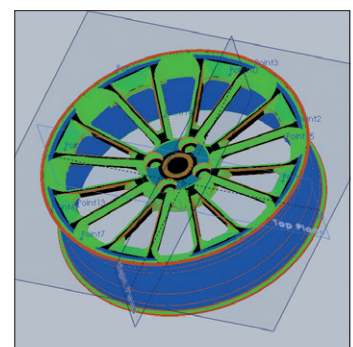
Marking and measuring

For overlaying of several pictures, circular markings are attached to the object. A stripe pattern is projected onto the object surface by a white-light projector and photographed by two cameras from different angles of view.



Evaluation

Within seconds, highly precise 3D coordinates of up to 4 million object points per measurement are calculated. For this, the black parts such as the toggle clamps are "suppressed".



Visualisation

Variances for the CAD are calculated. The 3D coordinates of the measurement points can be measured exactly and visualised in colour.

The complete 3D data set and the comparison results can be exported into common formats for further processing.