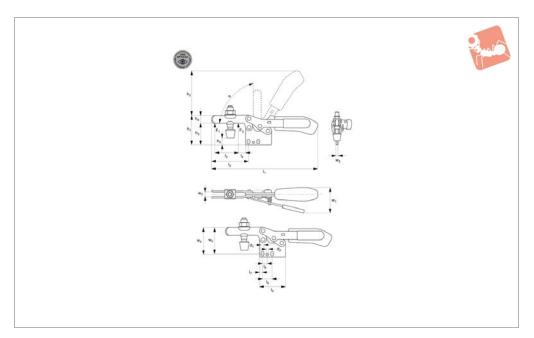


Horizontal Acting Toggle Clamps

black - open arm - vertical base - safety

Optical Measuring Toggle





41060.2

Material

Body: steel, matt black. Bushes: case hardened and pre-lubricated. Ergonomic soft feel, oil-resistant handle with large grip area.

Supplied complete with clamping screw (with rubber pad).

Technical Notes

The safety lever holds the clamp in both

the open and the closed position. This prevents opening under vibration or inadvertent movement of the clamping arm when loading or unloading a fixture.

For optical analysis applications.

Tips

Designed specifically for clamping of parts during photometric measurement. Uniform matt black surface prevents reflection, enabling easy "knocking-out" of the clamp during optical analysis of a component.

Order No.	Size	F ₁	F ₂ kN	Clamping screv	v h ₁	h ₂	h ₃	h ₄	h ₅ min.	h ₅ max.	I_1	I_2	l ₃	Weight
41060.W0100	3	1.8		M 8x63	65	86	49	15			206	73	37	390
Order No.	I ₄	I ₅	I ₆	I ₇	l ₈	w_1	W_2	w_3	w_4	W	/ ₅	d_1	d_2	α
41060.W0100	14	50	25.7	7 7	13	8	47	6	42	38-	-42	6.5	5.1	90°



Wixroyd Toggle Clamps

for optical measurement system



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 MEASURING TOGGLE CLAMPS



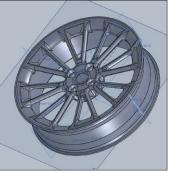
Optical Measurement Process

2



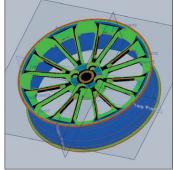
Marking and measuring

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.

