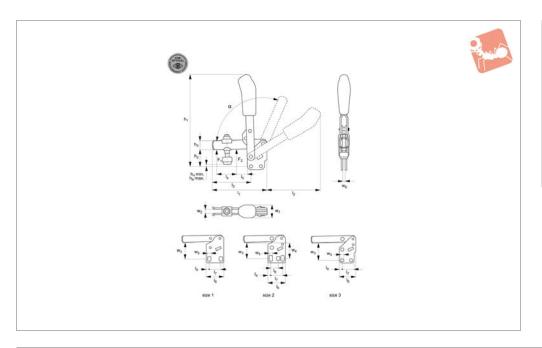


Vertical Acting Toggle Clamps open arm - vertical base - black

Optical Measuring Toggle





40050.2

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

For fastening to mounting plates, etc. Opening angle (symbola/symbol/symbola/ symbol*) can be changed by pressing in a stop pin on the clamp body.

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 kN	F ₂ kN	Clamping	screw	h_1	h ₂	h ₃	h ₄ min.	h ₄ max.	h ₅	h ₆	I_1	Weight g
40050.W0101	1	0.6	1.1	M 5x38		110.5	29	10	6.8	12	23,5-25,0	-	61	105
40050.W0102	2	8.0	1.2	M 6x46		114.5	38	12	10.5	19	28,5-32,0	30	78	175
40050.W0103	3	1.2	2.5	M 8x63		201.0	48	18	11.4	21	41.0	-	112	410
Order No.	l ₂	l ₃	I ₄	I ₅	I ₆	l ₇	I ₈	l ₉	\mathbf{w}_1	W_2	w_3	d_1	α	α*
40050.W0101	58	39	18	6	27	16	5.5	-	5	19	5	4.5	95°	-
40050.W0102	80	52	25	11	32	20	6.0	12.5	6	21	5	5.5	105°	60°
40050.W0103	113	79	36	19	40	20	7.5	-	8	27	6	7.5	105°	60°



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



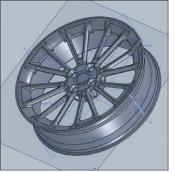
Optical Measurement Process

2



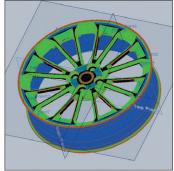
Marking and measuring

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.

