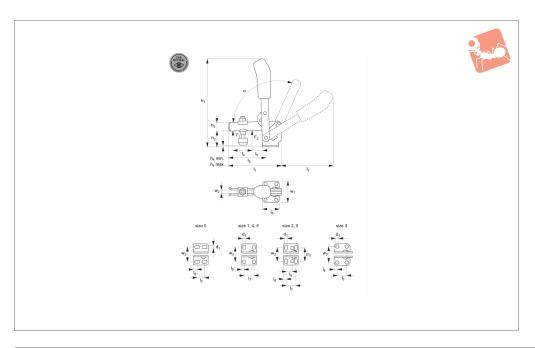


Vertical Acting Toggle Clamps black - open arm - horizontal base

Optical Measuring Toggle





40000.2

Material

Body: steel matt black.

Bushes: case hardened and pre-lubricated. Handle: plastic, black, oil resistant, ergonomic.

Supplied complete with matt black clamping screw (with rubber pad).

Technical Notes

For fastening to mounting plates, etc.

symbola/symbol* alternative angle through using the removable stop. 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 sc	rew	h_1	h ₂	h ₃	h ₄ min.	h ₄ max.	I_1	l ₂	l ₃	Weight g
40000.W0100	0	0.5	0.7	M 4x34,5		81	18	8	-4.0	6.5	49	50	32	60
40000.W0101	1	0.6	1.1	M 5x38,0)	98	19	10	-3.7	1.6	61	58	39	105
40000.W0102	2	8.0	1.2	M 6x46,0)	140	23	12	-4.4	4.4	78	89	52	175
40000.W0103	3	1.2	2.5	M 8x63,0)	188	33	18	-2.8	7.0	112	112	79	410
Order No.	I_4	I 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°



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

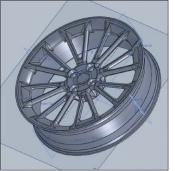


Optical Measurement Process



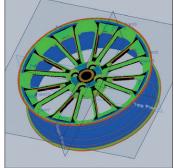
Marking and measuring

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.



2