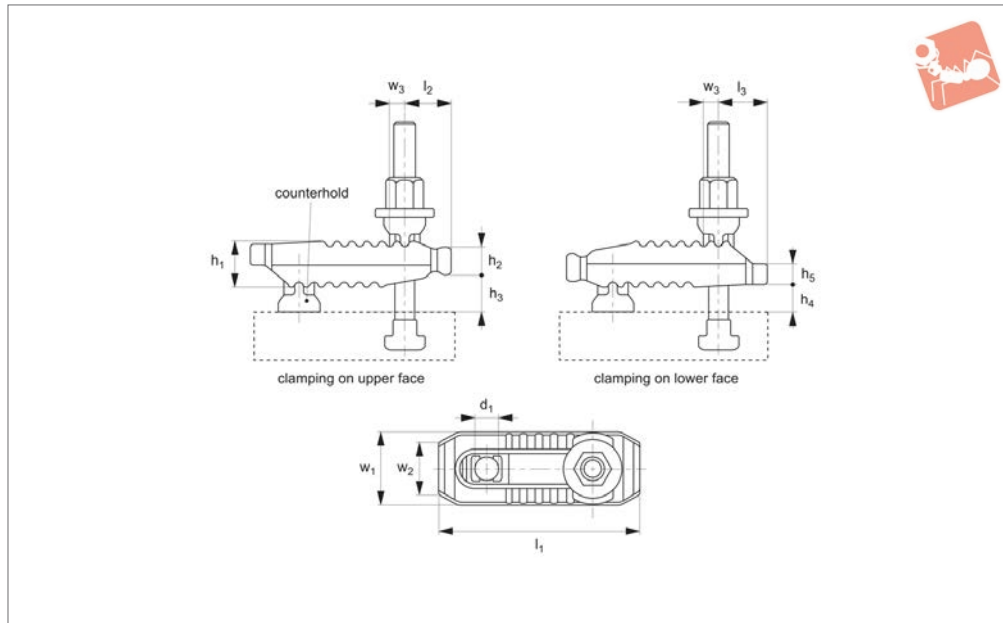




Crocodile Adjustable Clamp with support heel

Adjustable Vertical Clamps



10603

ADJUSTABLE VERTICAL CLAMPS

Material

Clamp: steel, tempered and galvanised.
T-bolt: steel, forged (strength class 8.8).
See part 21000 for details.
Washer: steel, hardened. See part 25000
for details.
Nut: steel, heat-treated to strength class
10. See part 24300 for details.

Technical Notes

Ideal for clamping components of varying

heights - requires no additional support or
packing pieces.
Continuously adjustable clamp over range
of heights (see dimension h_1 in table),
with high clamping force.
Support heel and stud counterhold are
non-detachable, making for a single piece
clamp which is quick and easy to use.
Supplied complete with T-bolt, washer and
T-nut (see data table).

Ideal for use on press tools and injection
mould tools. Height can be increased by
using Support Extensions 10604.

Tips

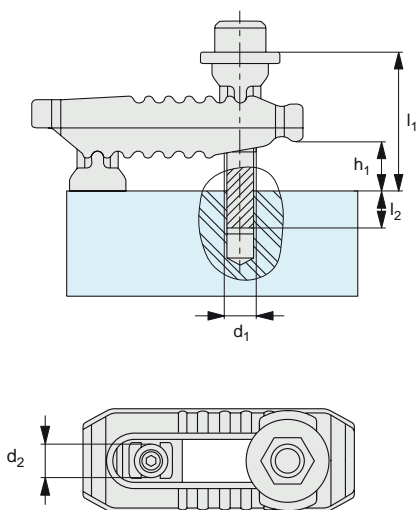
*Clamping forces based on using stud and
nut of strength class 8.8 or better, optimal
positioning of the clamp and good condi-
tion of the thread.

Order No.	T-bolt	For T-slot	h_1	h_2	h_3 min. max.	h_4	h_5	l_2	l_3	$w_1 \times l_1$	w_2	w_3	d_1	Clamping force kN max.	Weight g
10603.W0011	M10x10x100	10	27	17	0-40	18	12	25	30	44x115	30	11	13	25	613
10603.W0012	M12x12x125	12	27	17	0-55	18	12	25	30	44x115	30	11	13	30	686
10603.W0013	M12x12x160	12	36	21	0-70	20	17	35	36	55x150	41	12	17	35	1591
10603.W0014	M12x14x125	14	27	17	0-55	18	12	25	30	44x115	30	11	13	30	705
10603.W0015	M12x14x160	14	36	21	0-70	20	17	35	36	55x150	41	12	17	35	1610
10603.W0016	M16x16x160	16	36	21	0-70	20	17	35	36	55x150	41	12	17	40	1798
10603.W0017	M16x16x200	16	42	27	0-80	30	20	44	44	62x187	30	14	21	55	2715
10603.W0018	M16x18x160	18	36	21	0-70	20	17	35	36	55x150	41	12	17	40	1818
10603.W0020	M16x18x200	18	42	27	0-80	30	20	44	44	62x187	30	14	21	55	3018
10603.W0021	M20x20x200	20	42	27	0-80	30	20	44	44	62x187	30	14	21	60	3018
10603.W0022	M20x22x200	22	42	27	0-80	30	20	44	44	62x187	30	14	21	60	3060
10603.W0023	M20x20x250	20	51	34	0-100	31	24	60	47	70x235	30	17	25	70	4368
10603.W0024	M24x24x250	24	51	34	0-100	31	24	60	47	70x235	30	17	25	75	4895
10603.W0025	M20x22x250	22	51	34	0-100	31	24	60	47	70x235	30	17	25	70	4410
10603.W0028	M24x28x250	28	51	34	0-100	31	24	60	47	70x235	30	17	25	75	4966



Installation Recommendations

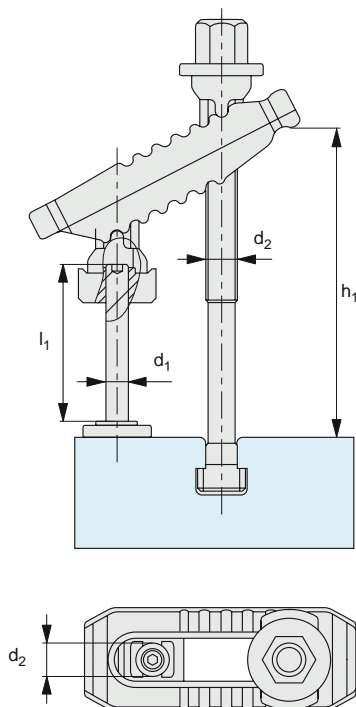
Installation dimensions for clamp 10603 (without support extension 10604) when using clamping stud 21100.



ADJUSTABLE VERTICAL CLAMPS

d_2	Stud 21100 size $d_1 \times l_1$	Thread depth l_2	Achievable clamping range height h_1
13	M10x80	15-31	4-25
	M10x90	15-31	17-40
	M10x100	15-31	4-25
	M12x80	18-33	0-20
	M12x90	18-33	10-34
17	M12x100	18-33	22-50
	M12x90	18-33	0-22
	M12x110	18-33	24-50
	M12x120	18-33	38-66
	M16x100	24-43	0-26
21	M16x110	24-44	12-40
	M16x120	24-44	26-55
	M16x120	24-44	2-29
	M16x130	24-44	15-43
	M16x150	24-44	43-72
25	M20x140	30-52	18-48
	M20x150	30-52	31-63
	M20x160	30-52	45-78
	M20x160	30-52	23-54
	M20x180	30-52	51-83
25	M20x195	34-52	72-100
	M24x160	36-48	0-15
	M24x180	36-60	10-42
	M24x195	36-60	37-71

Installation dimensions for clamp 10603 (with support extension 10604) when using T-slot bolt 21000.



d_2	10604 support extension $d_1 \times l_1$	T-Slot 21000 $d_2 \times T\text{-slot} \times l_1$	Achievable clamping range height h_1
13	M10x39	M10x10x100	18-31
	M10x39	M12x12x160	18-95
	M10x39	M12x14x160	18-95
	M12x49	M12x12x200	26-123
	M12x49	M12x14x200	26-123
17	M12x49	M16x16x200	26-123
	M12x49	M16x18x200	26-123
	M12x94	M12x12x200	26-120
	M12x94	M12x14x200	26-120
	M12x94	M16x16x250	26-166
21	M12x94	M16x18x250	26-166
	M16x55	M16x16x250	33-141
	M16x55	M16x18x250	33-141
	M16x55	M20x20x250	33-141
	M16x55	M20x22x250	33-141
25	M16x90	M16x16x250	33-150
	M16x90	M16x18x250	33-150
	M16x90	M20x20x315	33-173
	M16x90	M20x22x315	33-173
	M20x69	M20x20x315	41-177
25	M20x69	M20x22x315	41-177
	M20x69	M24x24x315	41-177
	M20x69	M24x28x315	41-177
	M20x109	M20x20x315	41-197
	M20x109	M20x22x315	41-193
	M20x109	M24x24x315	41-180
	M20x109	M24x28x315	41-180