

Vertical Toggle Clamps • with horizontal base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated
- Stainless steel

Rivet

- Stainless steel
- Steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization
- Stainless Steel

Clamping cap

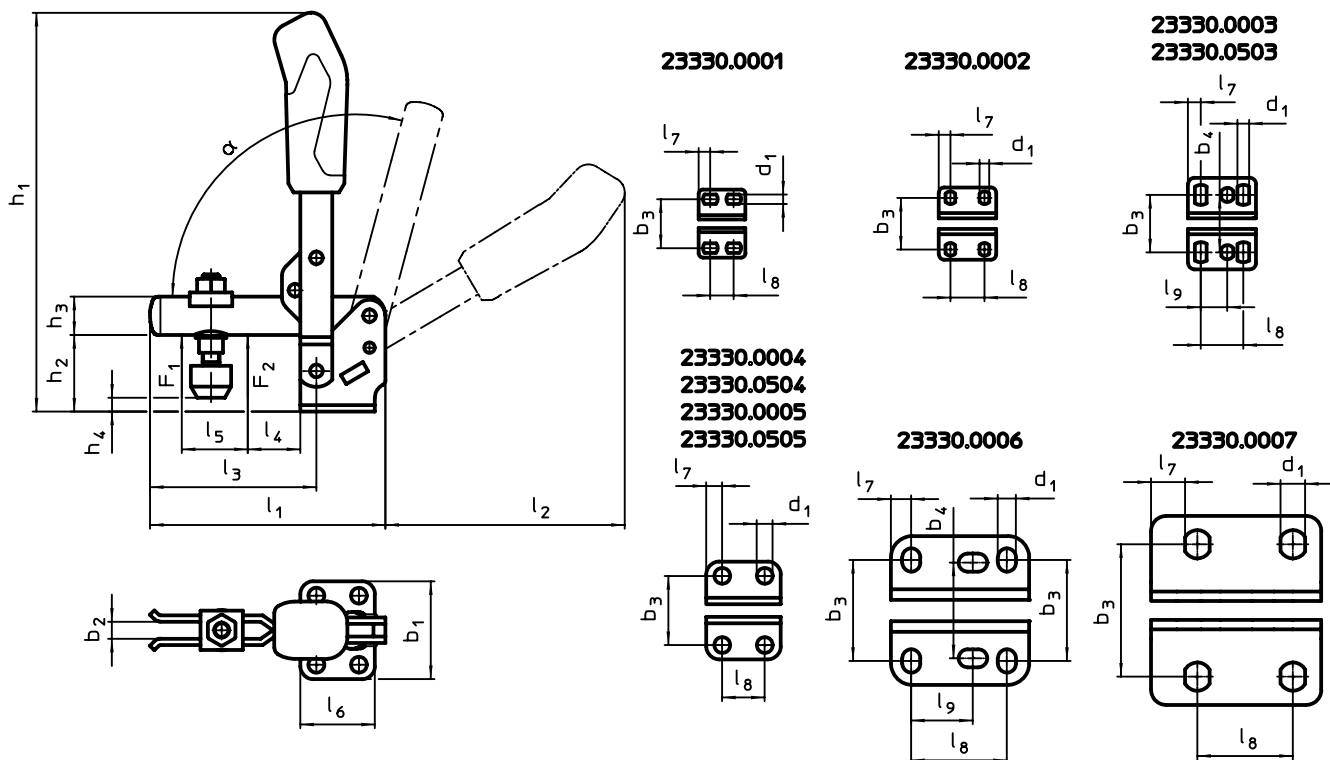
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



Vertical Toggle Clamps • with vertical base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

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Material

Clamp

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Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

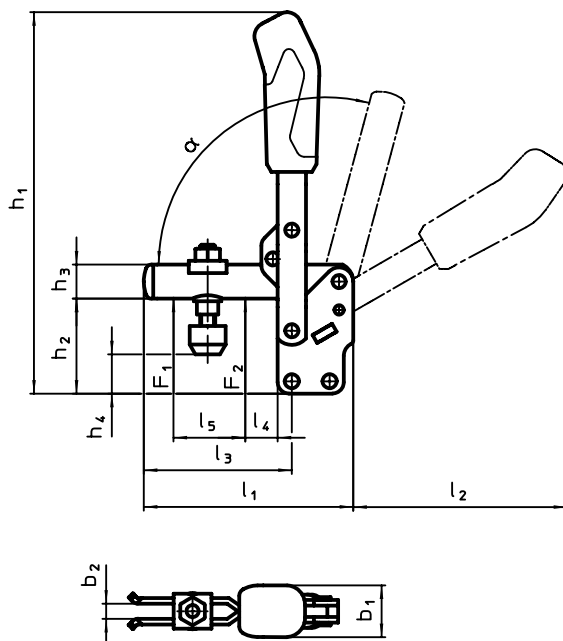
- Rubber, black

MORE INFORMATION

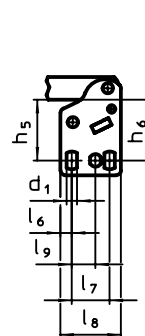
References

Replacement clamping screws are available as accessories in the online shop.

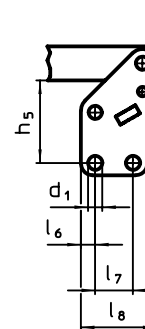
DRAWING



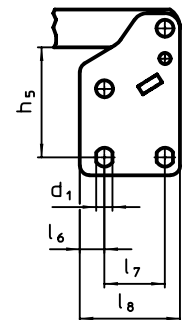
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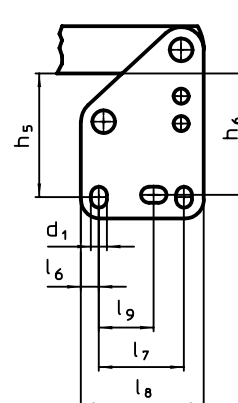
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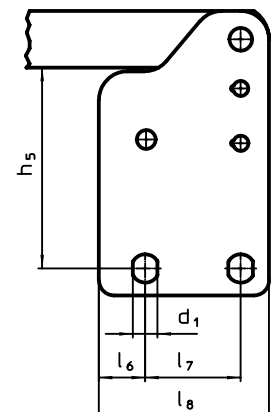
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23330.0016

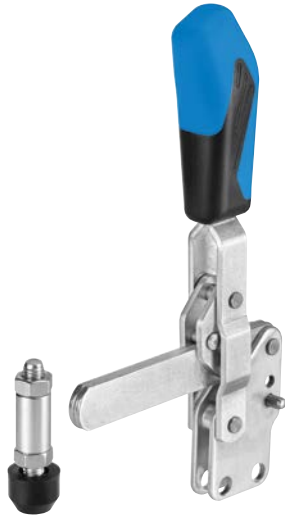


23330.0017



Vertical Toggle Clamps • with vertical base and solid support arm

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

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The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

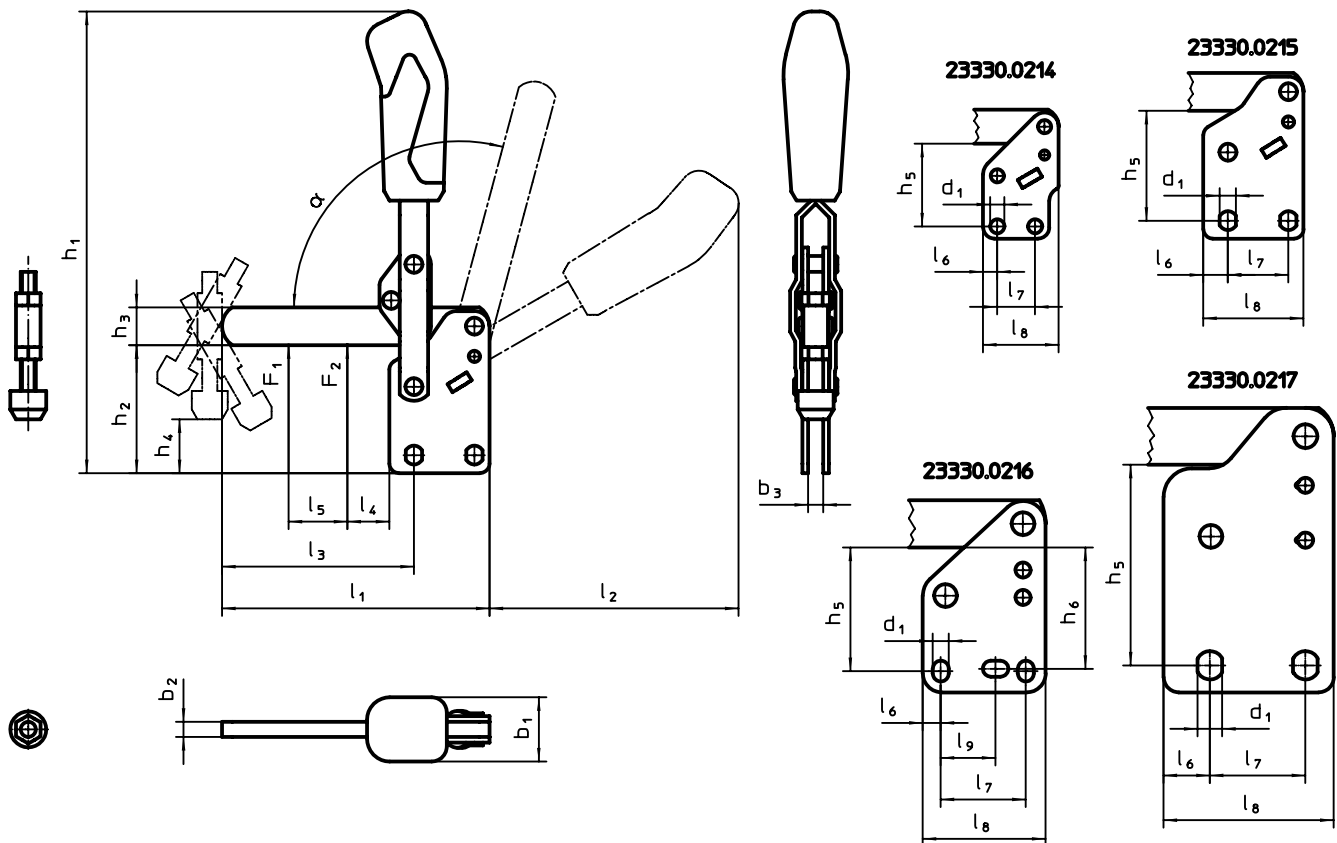
Clamping cap

- Rubber, black

Assembly

The clamping screw must be welded to the support arm in the desired position.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																			Holding force		α			Art. No.		
		d ₁	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	h ₅	h ₆	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	F ₁	F ₂		min.		max.	
	[mm]																			[kN]			[°C]		[g]			
4	M 8 x 45	7.5	27	6	6	200	48	18	14.5	26.0	41.0	–	108.5	116.0	81.0	19.5	43	7.5	20.0	40	–	1.4	2.5	105°	-10	80	426	23330.0214
5	M 8 x 65	8.6	34	8	8	244	65	20	13.0	44.0	55.5	–	141.5	129.5	101.0	17.0	61	13.0	32.0	53	–	2.0	3.0	105°	-10	80	679	23330.0215
6	M12 x 80	8.5	36	10	10	302	77	25	15.0	47.0	66.0	64	196.5	184.0	141.0	30.5	88	9.5	45.0	65	26.5 – 31.5	3.0	5.0	115°	-10	80	1506	23330.0216
7	M12 x 110	13.0	39	10	10	369	117	30	28.5	86.5	102.0	–	232.0	206.0	165.5	20.5	90	24.5	50.5	90	–	3.5	5.5	140°	-10	80	2000	23330.0217

Vertical Toggle Clamps • with vertical base and safety lock

EH 23330.



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The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

Plastic cap

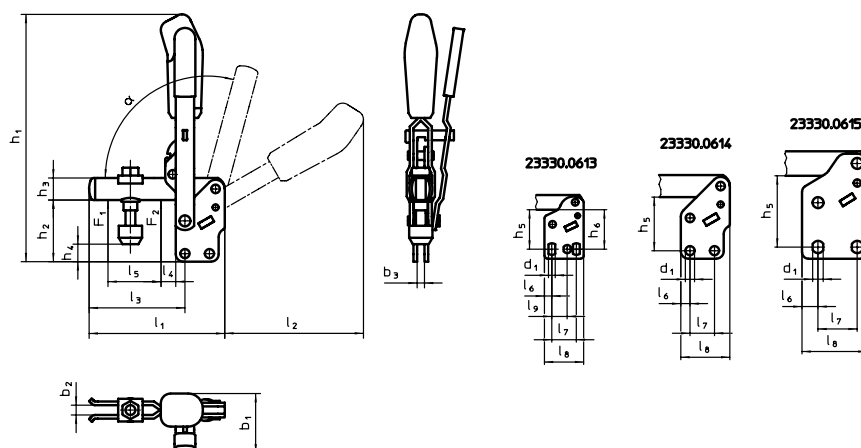
- PVC, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

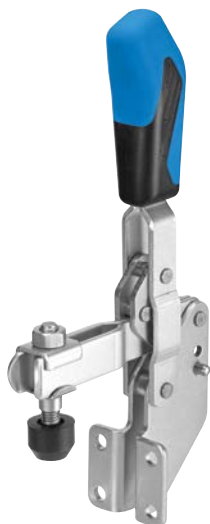
No- minal size	Clamp- ing screw	Dimensions																			Holding force		α			Art. No.			
		d ₁	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄	h ₄ min.	h ₄ max.	h ₅	h ₆	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉		F ₁	F ₂		min.	max.	
	[mm]	[mm]																			[kN]		[°C]		[g]				
3	M6 x 35	5.5	38	6	5	154	38	12	11.5	19.5	28.5 – 32		30	78	89	52	11	25	6.0	20	32	12.5	1.0	1.2	95°	-10	80	237	23330.0613
4	M8 x 45	7.5	48	8	6	200	48	18	10.0	18.5	41.0	–	111	114	79	19	37	7.5	20	40	–	1.4	2.5	105°	-10	80	484	23330.0614	
5	M8 x 65	8.6	53	10	8	244	65	20	16.5	45.5	55.5	–	141	130	101	16	54	13.0	32	53	–	2.0	3.0	105°	-10	80	776	23330.0615	

ACCESSORIES

	d_2	Art. No.
	[mm]	
clamping screw		
	M6 x 35	23330.9003
	M8 x 45	23330.9005
	M8 x 65	23330.9006

Vertical Toggle Clamps • with angle base

EH 23330.



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The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

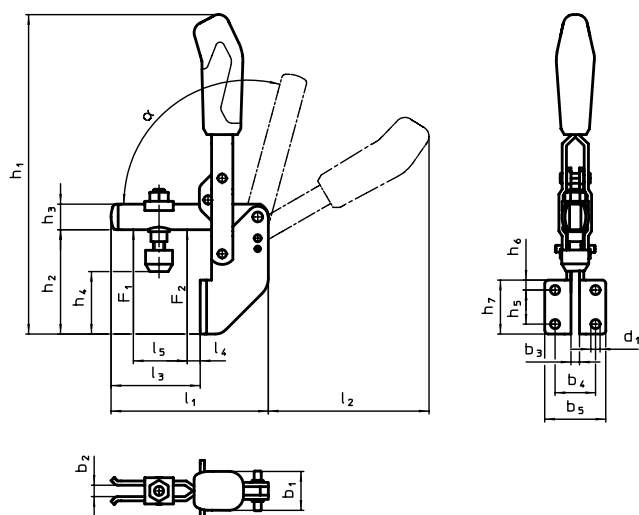
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																			Holding force		α			Art. No.	
		d ₁	b ₁	b ₂	b ₃	b ₄	b ₅	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	h ₅	h ₆	h ₇	l ₁	l ₂	l ₃	l ₄	l ₅	F ₁	F ₂		min.	max.		
	[mm]	[mm]																			[kN]		[°C]		[g]		
3	M6 x 35	5.5	21	6	5	25.5	37.0	176.5	60	12	34	41.5	20	6	32	77	81	41	6	25	1.0	1.2	60°	-10	80	231	23330.0023
4	M8 x 45	6.5	27	8	6	28.5	42.5	223.0	71	18	40	48.5	24	7	38	111	112	63	11	37	1.4	2.5	60°	-10	80	483	23330.0024
5	M8 x 65	8.5	35	10	8	32.0	52.0	280.0	102	20	53	81.5	32	54	96	141	129	84	11	54	2.0	3.0	60°	-10	80	802	23330.0025

ACCESSORIES

	d_2		Art. No.
	[mm]	[g]	
clamping screw			
	M6 x 35	16	23330.9003
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Vertical Toggle Clamps • with angle base and safety lock

EH 23330.



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A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

Plastic cap

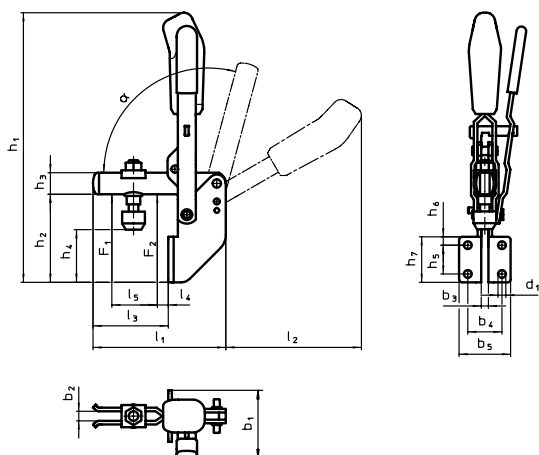
- PVC, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																			Holding force		α			Art. No.	
		d ₁	b ₁	b ₂	b ₃	b ₄	b ₅	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	h ₅	h ₆	h ₇	l ₁	l ₂	l ₃	l ₄	l ₅	F ₁	F ₂					
	[mm]	[mm]																			[kN]		min. max.		[°C]	[g]	
3	M6 x 35	6.1	45	6	5	25.5	37	176.5	61	12	34	41.5	20	6	32	77	63	40	9	25	1.0	1.2	105°	-10	80	272	23330.0623
4	M8 x 45	6.5	55	8	6	28.5	43	223.0	71	18	40	48.5	24	7	38	112	111	65	11	43	1.4	2.5	105°	-10	80	551	23330.0624
5	M8 x 65	8.5	63	10	8	32.0	52	280.0	102	20	53	81.5	32	54	96	140	129	84	17	50	2.0	3.0	105°	-10	80	885	23330.0625

ACCESSORIES

	d_2	Weight	Art. No.
	[mm]	[g]	
clamping screw			
	M6 x 35	16	23330.9003
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Vertical Toggle Clamps • with horizontal base and solid support arm

EH 23330.



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An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

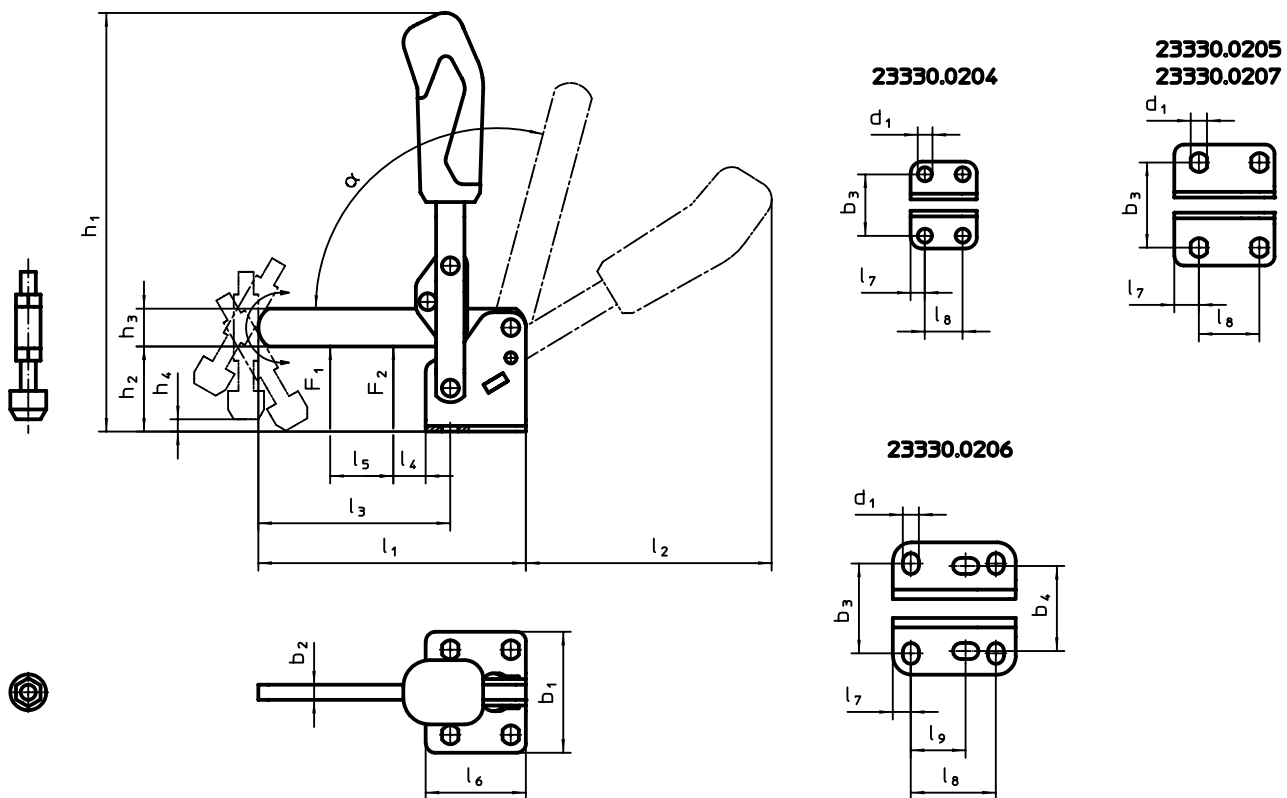
Clamping cap

- Rubber, black

Assembly

The clamping screw must be welded to the support arm in the desired position.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																		Holding force		α				Art. No.
		d ₁	b ₁	b ₂	b ₄	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	F ₁	F ₂		min.	max.		
	[mm]	[mm]																		[kN]		[°C]		[g]		
4	M 8 x 45	7.5	46	6	–	186	33.5	18	0	12.0	108.5	116.5	81.0	19.5	43	35	7.5	20.0	–	1.4	2.5	105°	-10	80	426	23330.0204
5	M 8 x 65	8.6	64	8	–	221	42.5	20	-8	21.0	141.5	129.5	101.0	17.0	61	53	13.0	32.0	–	2.0	3.0	105°	-10	80	686	23330.0205
6	M12 x 80	8.5	70	10	45	281	55.5	25	-6	25.5	196.5	184.0	141.0	30.5	88	65	9.5	45.0	26.5 – 31.5	3.0	5.0	105°	-10	80	1503	23330.0206
7	M12 x 110	13.0	100	10	–	331	81.0	30	-5	51.0	232.0	206.0	166.5	20.5	90	90	24.5	50.5	–	3.5	5.5	105°	-10	80	2000	23330.0207

Vertical Toggle Clamps • with horizontal base and safety lock

EH 23330.



PRODUCT DESCRIPTION

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A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

Plastic cap

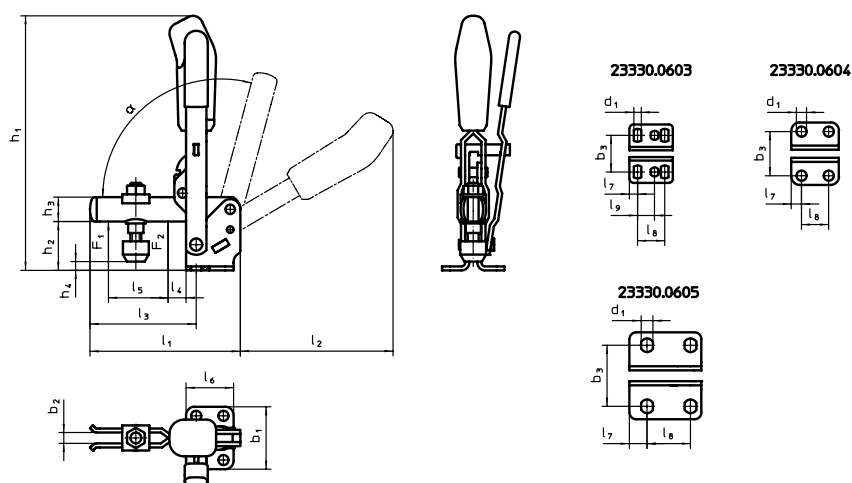
- PVC, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

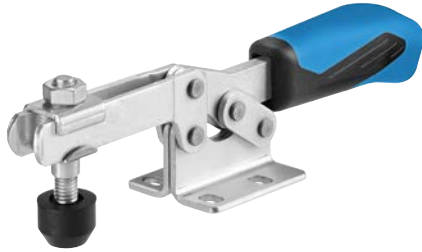
Nominal size	Clamping screw	Dimensions																		Holding force		α			Art. No.	
		d ₁	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄ min.	h ₄ max.	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈	l ₉	F ₁	F ₂		min.	max.		
	[mm]	[mm]																		[kN]		[°C]		[g]		
3	M6 x 35	5.5	43	6	23.0 – 31	139.5	23.0	12	-3	4.5	78	89	52	11	25	32	6.0	20	12.5	1.0	1.2	105°	-10	80	238	23330.0603
4	M8 x 45	7.5	46	8	32.5	186.0	33.0	18	2	11.0	112	112	79	19	36	35	7.5	20	–	1.4	2.5	105°	-10	80	484	23330.0604
5	M8 x 65	8.6	64	10	45.0	221.0	42.5	20	-6	22.5	141	130	101	16	54	53	13.0	32	–	2.0	3.0	105°	-10	80	775	23330.0605

ACCESSORIES

	d_2		Art. No.
	[mm]	[g]	
clamping screw			
	M6 x 35	16	23330.9003
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Horizontal Toggle Clamps • with horizontal base

EH 23330.



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A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated
- Stainless steel

Rivet

- Stainless steel
- Steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization
- Stainless Steel

Clamping cap

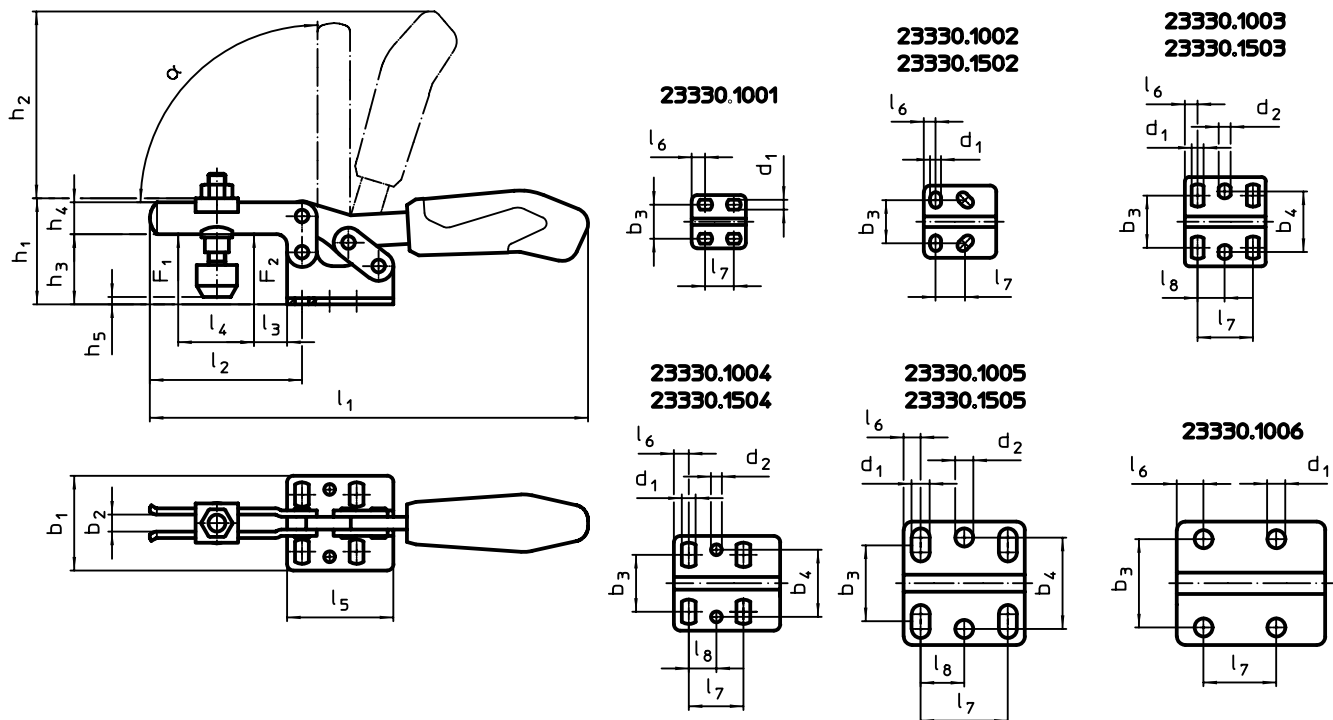
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



Horizontal Toggle Clamps • with horizontal base / increased holding force

EH 23330.



PRODUCT DESCRIPTION

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Handle

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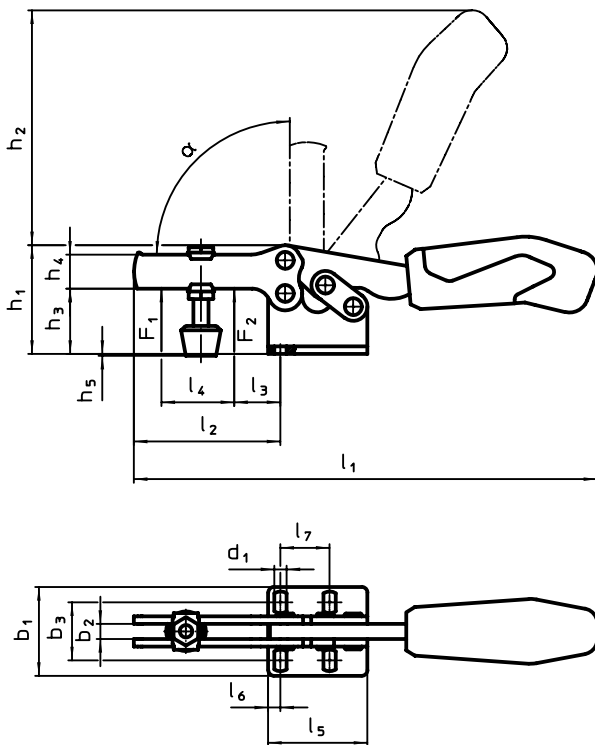
Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

DRAWING

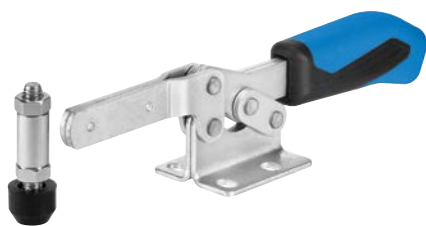


ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																Holding force		α				Art. No.
		d_1	b_1	b_2	h_1	h_2	h_3	h_4	h_5 min.	h_5 max.	l_1	l_2	l_3	l_4	l_5	l_6	l_7	F_1	F_2		min.	max.		
	[mm]	[mm]																[kN]	[°C]		[g]			
2	M 5 x 35	4.3	27.5	5	35	46	19.0	12	0	10.0	126	46	16.5	20	38.0	6.0	13.5	1.1	1.7	90°	-10	80	136	23330.1302
4	M 8 x 58	6.5	47.0	8	58	112	33.5	18	-1	13.0	242	78	22.0	43	52.5	6.5	26.0	2.5	4.0	90°	-10	80	557	23330.1304
5	M10 x 76	8.6	60.0	10	77	135	41.0	24	-2	16.5	329	120	23.0	69	76.0	10.5	41.5	3.5	8.0	90°	-10	80	1261	23330.1305

Horizontal Toggle Clamps • with horizontal base and solid support arm

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

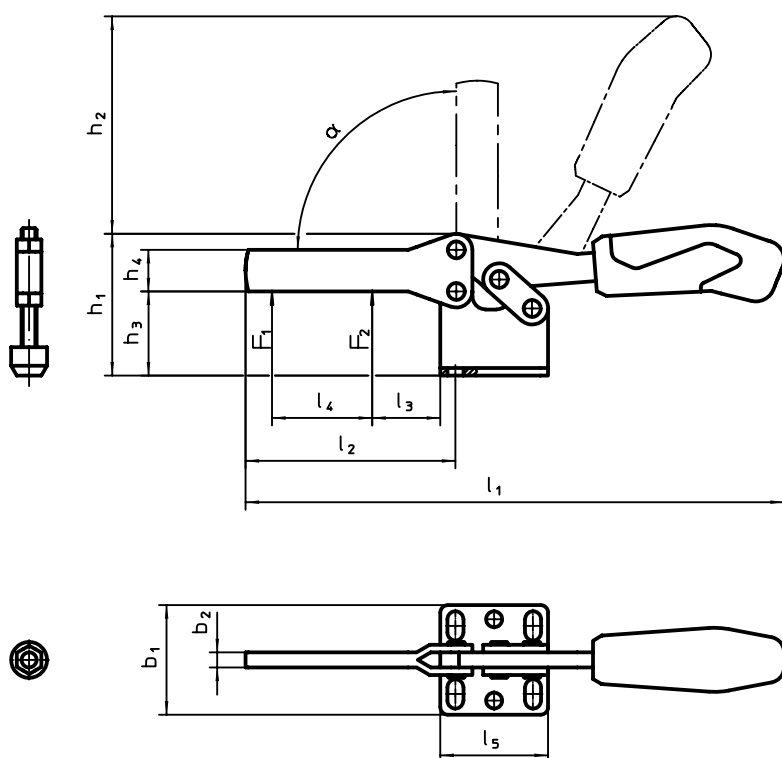
Clamping cap

- Rubber, black

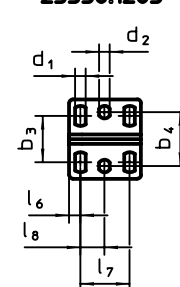
Assembly

The clamping screw must be welded to the support arm in the desired position.

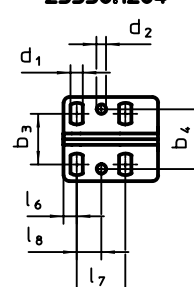
DRAWING



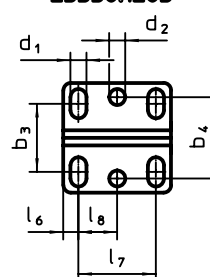
23330.1203



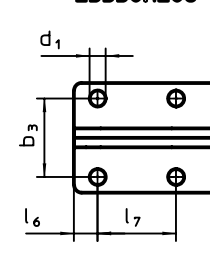
23330.1204



23330.1205



23330.1206

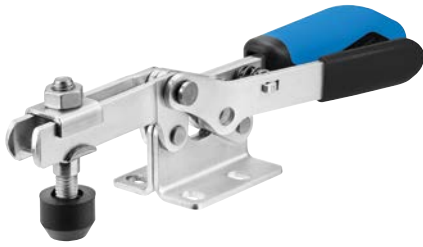


ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																		Holding force		α				Art. No.		
		d_1	d_2	b_1	b_2	b_3	b_4	h_1	h_2	h_3	h_4	h_5 min.	h_5 max.	l_1	l_2	l_3	l_4	l_5	l_6	l_7	l_8		F_1	F_2			min.	max.
		[mm]																		[kN]			[°C]				[g]	
3	M 6 x 35	5.6	5.6	42.0	5	19.5 – 29.5	28.5	45.0	66	24	13	-2.0	7.5	161	63	24	35	38	6.0	26.0	13	1.0	1.2	90°	-10	80	196	23330.1203
4	M 8 x 45	6.5	5.1	45.5	6	22.0 – 31.8	32.0	48.5	86	32	15	-3.5	11.0	205	72	32	44	50	7.0	26.0	13	1.8	2.5	90°	-10	80	400	23330.1204
5	M 8 x 65	8.5	8.5	58.0	8	29.0 – 43.0	43.0	75.0	114	45	20	-6.0	22.0	280	111	45	66	57	8.0	41.0	21	2.0	3.0	90°	-10	80	716	23330.1205
6	M12 x 80	8.5	–	58.0	10	41.5	–	73.0	128	46	25	-13.0	12.5	320	121	46	78	77	12.5	41.5	–	3.0	5.0	90°	-10	80	1222	23330.1206

Horizontal Toggle Clamps • with horizontal base and safety lock

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

Plastic cap

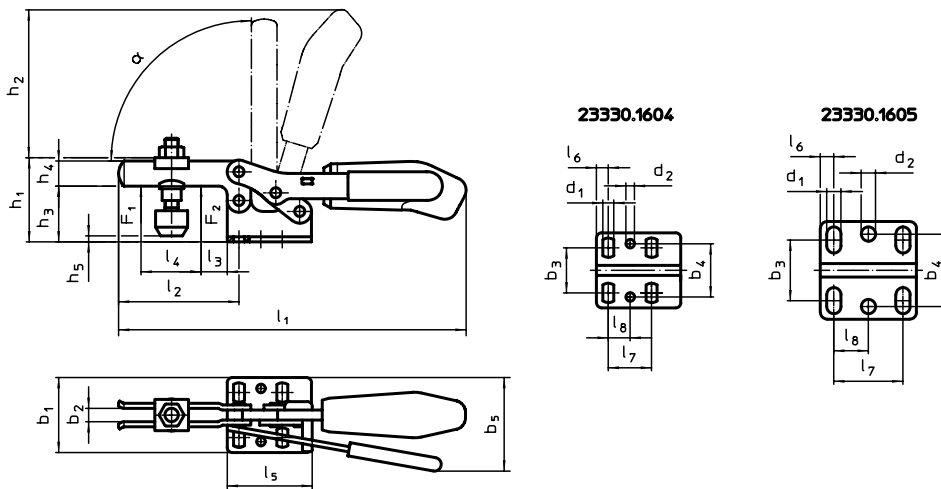
- PVC, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

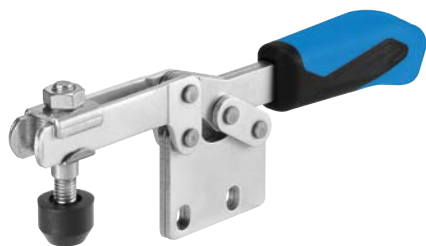
Nominal size	Clamping screw	Dimensions																		Holding force		α			Art. No.			
		d ₁	d ₂	b ₁	b ₂	b ₃		b ₄	b ₅	h ₁	h ₂	h ₃	h ₄	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇	l ₈					F ₁	F ₂	min.
	[mm]	[mm]																		[kN]		[°C]		[g]				
4	M8 x 45	6.5	5.1	45.5	8	22 – 31.8		31.6	56	48.5	86.0	32	15	206	73	14	38	50	7	25.7	13	1.8	2.5	90°	-10	80	401	23330.1604
5	M8 x 65	8.5	8.5	58.0	10	29 – 43.0		43.0	83	75.0	126.5	45	20	287	113	27	63	57	8	41.0	21	2.0	3.0	90°	-10	80	833	23330.1605

ACCESSORIES

	d ₂		Art. No.
	[mm]	[g]	
clamping screw			
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Horizontal Toggle Clamps • with vertical base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

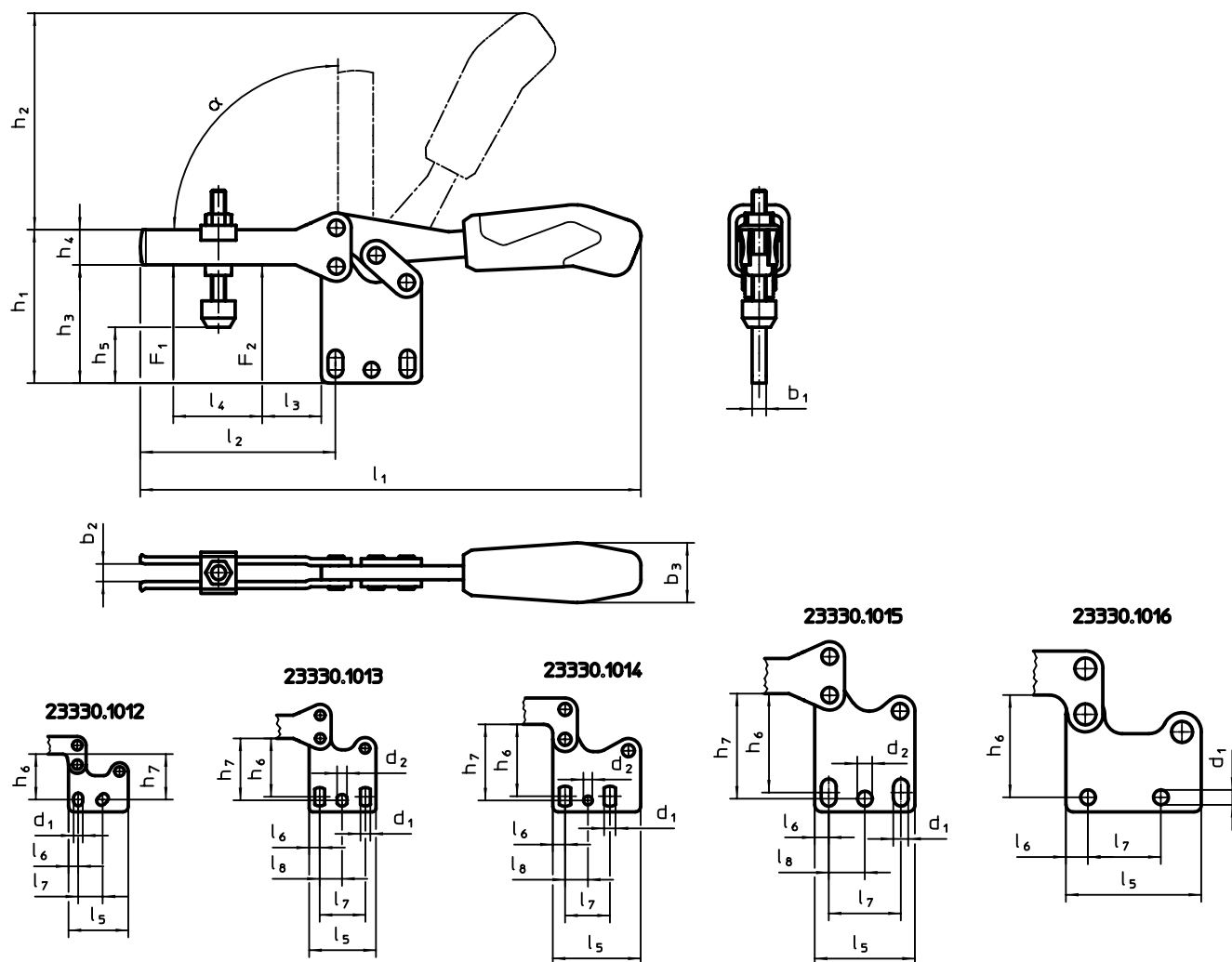
- Rubber, black

MORE INFORMATION

References

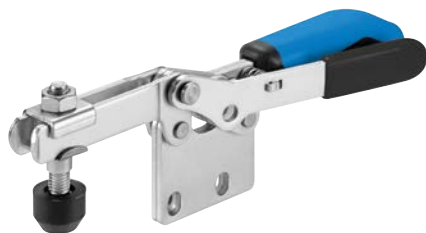
Replacement clamping screws are available as accessories in the online shop.

DRAWING



Horizontal Toggle Clamps • with vertical base and safety lock

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

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The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

- Rubber, black

Plastic cap

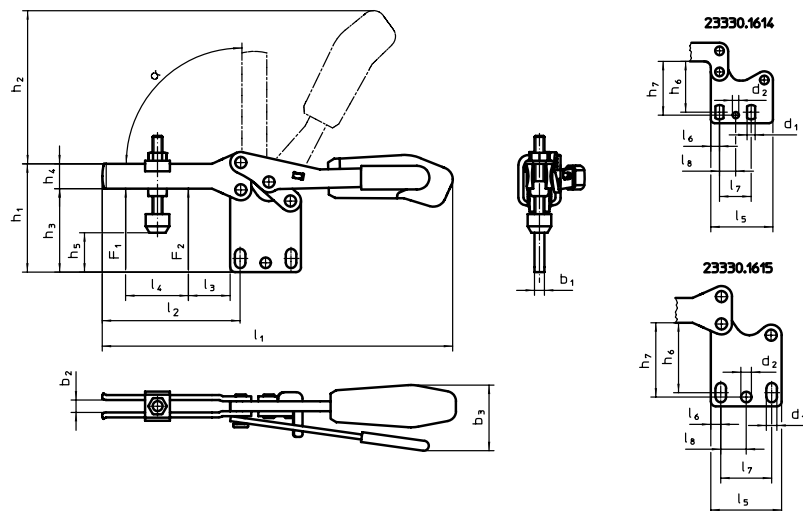
- PVC, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

Nominal size	Clamp- ing screw	Dimensions																		Holding force		α				Art. No.			
		d ₁	d ₂	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄	h ₅	h ₅	h ₆	h ₇	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆	l ₇		l ₈	F ₁			F ₂	min.	max.
		[mm]																		[kN]			[°C]				[g]		
4	M8 x 45	6.5	5.1	6	8	48	65	86	49.0	15	14.5	26	37.5 – 42.5	42	206	73	14	38	50	7	25.7	13.0	1.8	2.5	90°	-10	80	401	23330.1614
5	M8 x 65	8.5	8.5	8	10	51	97	115	66.5	20	17.5	46	52.0 – 59.0	59	287	113	27	63	57	8	41.0	20.5	2.0	3.0	90°	-10	80	834	23330.1615

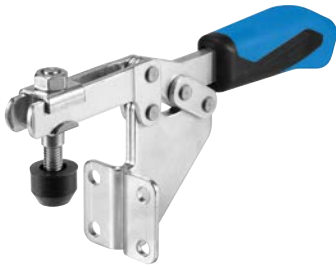
ACCESSORIES

	d ₂		Art. No.
	[mm]	[g]	
clamping screw			
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Horizontal Toggle Clamps • with angle base

EH 23330.

3



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for continuous use.

A oil resistant ergonomic 2-component handle, with increased grip area with soft surface for high ease of use.

The quickly adjustable clamping screws are provided by a retainer.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

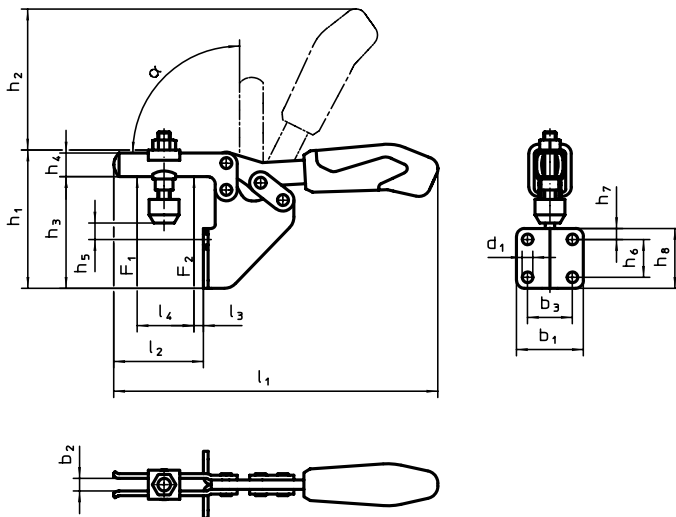
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions																Holding force		α				Art. No.	
		d ₁	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄	h ₅ min.	h ₅ max.	h ₆	h ₇	h ₈	l ₁	l ₂	l ₃	l ₄	F ₁		F ₂	min.			max.
		[mm]	[mm]																[kN]		[°C]		[g]		
2	M5 x 30	5.2	31.0	5.0	19.0	68.0	49	57	10.0	14	20.0	13.5	8	28	120	32	4.0	18.5	0.8	1.1	90°	-10	80	154	23330.1022
3	M6 x 35	5.6	37.0	6.2	25.5	94.0	68	73	13.2	22	29.5	20.0	6	32	162	52	10.5	32.0	1.0	1.2	90°	-10	80	247	23330.1023
4	M8 x 45	6.8	42.5	8.0	28.5	86.5	86	70	15.0	5	16.0	24.0	7	38	206	59	6.5	37.0	1.8	2.5	90°	-10	80	400	23330.1024
5	M8 x 65	8.5	52.0	10.0	32.0	133.0	120	102	20.0	11	40.0	32.0	40	82	282	93	15.0	63.0	2.0	3.0	90°	-10	80	901	23330.1025

ACCESSORIES

	d_2		Art. No.
	[mm]	[g]	
clamping screw			
	M5 x 30	11	23330.9002
	M6 x 35	16	23330.9003
	M8 x 45	38	23330.9005
	M8 x 65	57	23330.9006

Toggle Clamps Push-Pull Type • with angle base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel
- Steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

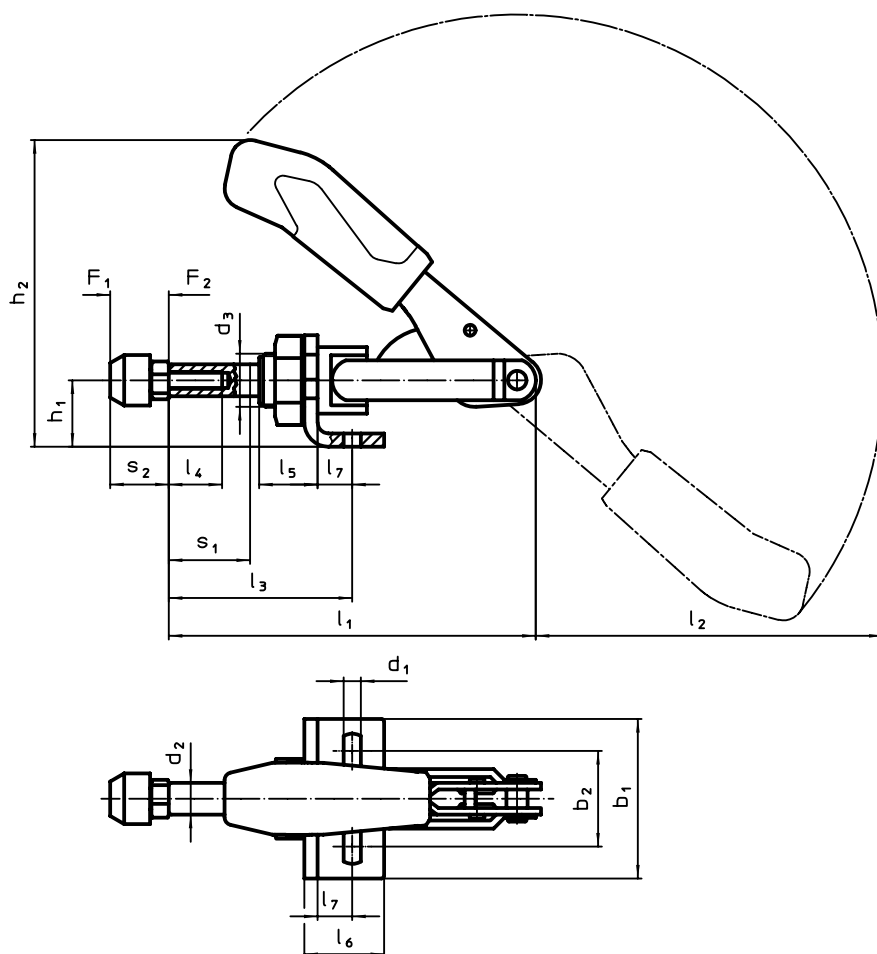
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



Toggle Clamps Push-Pull Type • with fastening thread

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

These toggle clamps can be used in the metal working industry when drilling, welding, bending, grinding, testing and fitting as well as in the wood and plastic industry in glueing, drilling, cutting and milling jigs.

The "toggle" principle of the toggle clamp allows a large and quick opening of the clamp. If unclamped the workpieces are completely cleared for unimpeded removal. The large power transmission results maximum clamping force by low hand force. The clamps are self-arresting they remain locked, resisting the force produced when machining components.

The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

Clamping cap

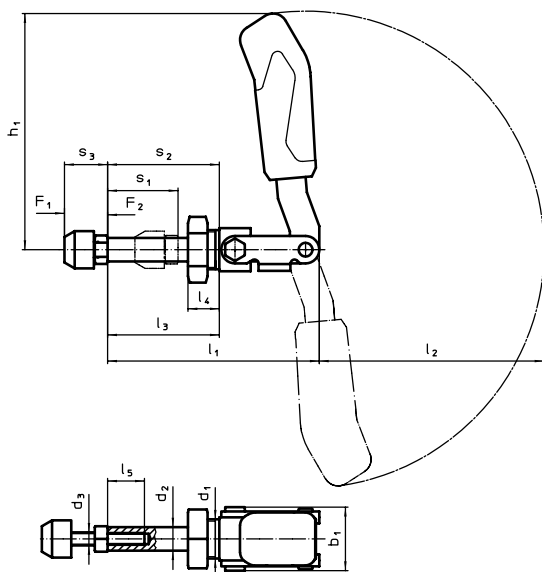
- Rubber, black

MORE INFORMATION

References

Replacement clamping screws are available as accessories in the online shop.

DRAWING



ORDER INFORMATION

Nominal size	Clamping screw	Dimensions													Stroke s_1	Holding force		Temperature range		Weight	Art. No.
		d_1	d_2	d_3	b_1	h_1	l_1	l_2	l_3	l_4	l_5	s_2	s_3 min.	s_3 max.		F_1	F_2	min.	max.		
	[mm]						[mm]							[mm]		[kN]		[°C]		[g]	
3	M 6 x 25	M16 x 1,5	10	M 6	30.5	73	68.5	68	36	13	15	36	17	25	21.5	1.0	1.0	-10	80	152	23330.2103
4	M 8 x 35	M20 x 1,5	12	M 8	33.0	123	108.0	115	57	16	25	57	22	35	40.0	2.5	2.5	-10	80	327	23330.2104
6	M12 x 50	M24 x 1,5	16	M12	49.0	149	175.0	139	92	24	45	92	30	50	67.0	4.0	4.0	-10	80	927	23330.2106

ACCESSORIES

d_2		Art. No.
[mm]	[g]	
clamping screw		
M 6 x 25	11	23330.9013
M 8 x 35	25	23330.9014
M12 x 50	73	23330.9016

Toggle Clamps Hook Type • with horizontal base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated
- Stainless steel

Rivet

- Stainless steel

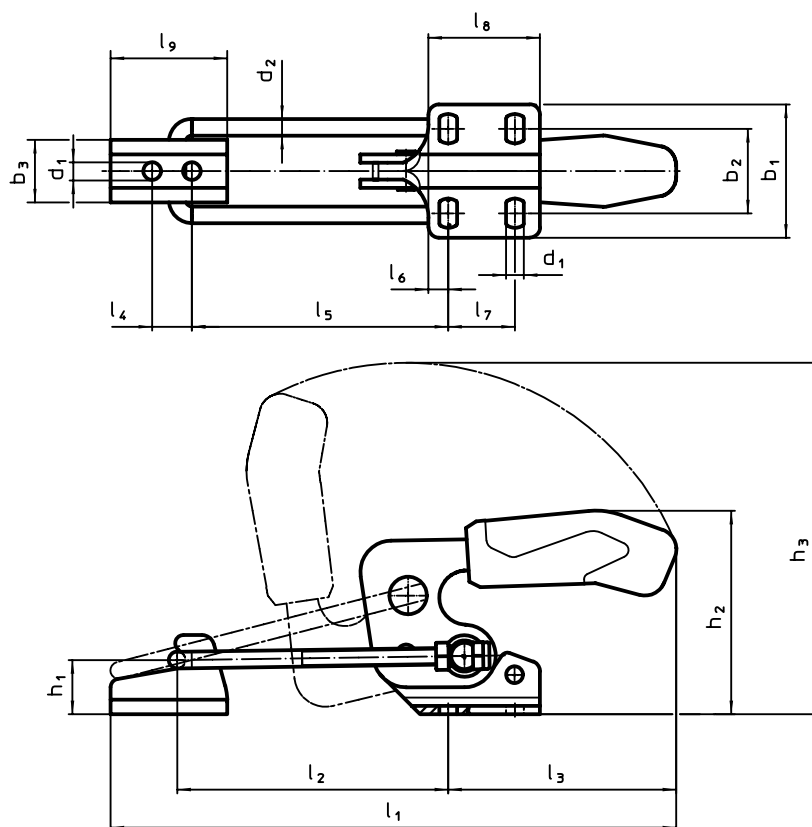
Handle

- Plastic

Counter catch

- Steel, zinc-plated by galvanization, passivated
- Stainless steel

DRAWING



ORDER INFORMATION

Nominal size	Dimensions																				Holding force				Art. No.
	d ₁	d ₂	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	l ₁ min.	l ₁ max.	l ₂ min.	l ₂ max.	l ₃	l ₄	l ₅ min.	l ₅ max.	l ₆	l ₇	l ₈	l ₉					
	[mm]																				F ₁	min.	max.		
																					[kN]	[°C]	[g]		
steel																									
3	5.2	4	38.0	19.5 – 23.5	18	12	47.0	99.0	125	159	42.0	76	69	11	38.0	72	6.4	13	26.0	26	1.6	-10	80	143	23330.3003
4	6.5	6	48.0	24.5 – 32.0	23	19	70.0	135.5	169	216	53.5	101	93	14	48.6	96	8.0	19	35.0	39	3.2	-10	80	365	23330.3004
5	8.5	8	64.3	35.0 – 46.0	30	26	94.5	171.5	209	273	66.0	130	111	19	59.0	123	9.5	32	53.5	56	7.0	-10	80	821	23330.3005
stainless steel																									
3	5.2	4	38.0	19.5 – 23.5	18	12	47.0	99.0	125	159	42.0	76	69	11	38.0	72	6.4	13	26.0	26	1.6	-10	80	144	23330.3103
4	6.5	6	48.0	24.5 – 32.0	23	19	70.0	135.5	169	216	53.5	101	93	14	48.6	96	8.0	19	35.0	39	3.2	-10	80	365	23330.3104
5	8.5	8	64.3	35.0 – 46.0	30	26	94.5	171.5	209	273	66.0	130	111	19	59.0	123	9.5	32	53.5	56	7.0	-10	80	821	23330.3105

Toggle Clamps Hook Type • vertical, with horizontal base

EH 23330.



PRODUCT DESCRIPTION

Due to their favourable power to movement ratio and their easy action the toggle clamps are versatile applicable for a wide range of uses.

The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

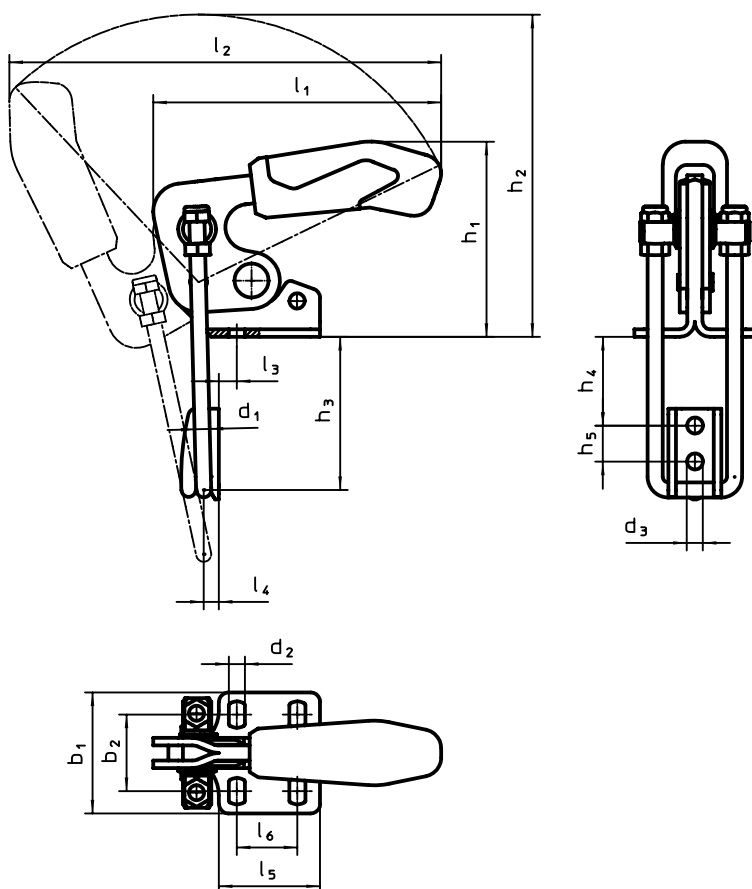
Handle

- Plastic

Counter catch

- Steel, zinc-plated by galvanization, passivated

DRAWING

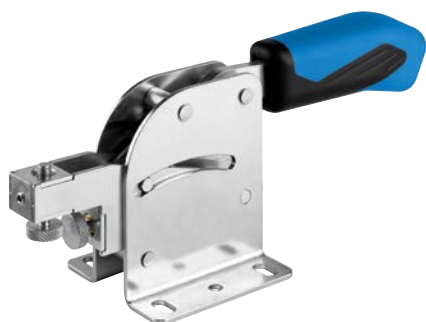


ORDER INFORMATION

Nominal size	Dimensions																		Holding force				Art. No.
	d ₁	d ₂	d ₃	b ₁	b ₂	h ₁	h ₂	h ₃ min.	h ₃ max.	h ₄ min.	h ₄ max.	h ₅	l ₁	l ₂	l ₃	l ₄	l ₅	l ₆					
	[mm]																		F ₁	min.	max.		
																			[kN]	[°C]	[g]		
3	4	5.2	5.2	38	19.5 – 23.5	47.0	99	24.0	49	5	30	11	91	158	6.4	5	26	13	1.6	-10	80	150	23330.5003
4	6	6.5	6.5	48	24.5 – 32.0	70.0	136	34.5	64	7	36	14	125	190	8.0	6	35	19	3.2	-10	80	358	23330.5004
5	8	8.5	8.5	65	35.0 – 46.0	94.5	168	43.0	81	9	47	19	151	239	9.5	8	54	32	7.0	-10	80	791	23330.5005

Combination Clamps • with horizontal base

EH 23330.



PRODUCT DESCRIPTION

The combination clamp combines a toggle clamp push-pull type and a vertical toggle clamp in one clamp. Thus the use of different toggle clamps is not necessary. The horizontal and vertical clamping movement is achieved by simple operation using an ergonomic handle. Simultaneous exact positioning and secure clamping of the component is guaranteed. The toggle clamps are manufactured from high quality components and are designed for maintenance-free continuous use.

An oil resistant ergonomic 2-component handle, with slip-proof, soft surface and large grip area for high ease of use.

Material

Clamp

- Steel, zinc-plated by galvanization, passivated

Rivet

- Stainless steel

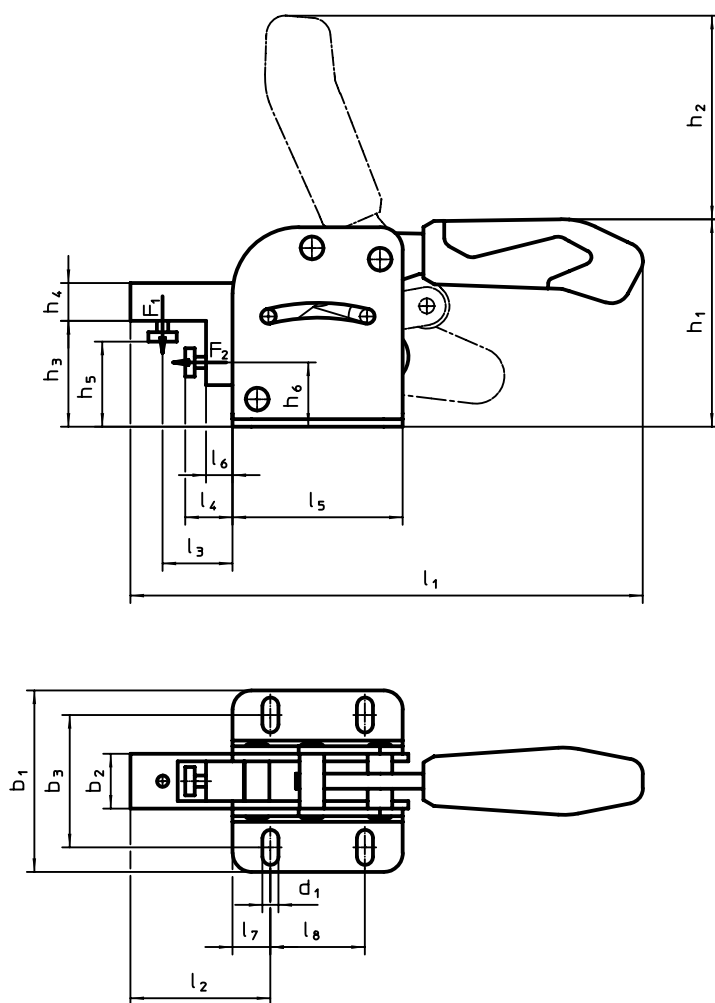
Handle

- Plastic

Clamping screw

- Steel, tempered, zinc-plated by galvanization

DRAWING



ORDER INFORMATION

Nominal size	Dimensions																				Holding force		Temperature range		Weight [g]	Art. No.
	d ₁	b ₁	b ₂	b ₃	h ₁	h ₂	h ₃	h ₄	h ₅ min.	h ₅ max.	h ₆	l ₁	l ₂	l ₃	l ₄ min.	l ₄ max.	l ₅	l ₆	l ₇	l ₈	F ₁	F ₂	min.	max.		
	[mm]																				[kN]		[°C]			
2	5.5	53	17.0	34.5 – 39.5	74	62	36.0	12	25	32	22	150	33	15	5	10	55	0.5	7.5	40	1	1	-10	80	330	23330.4002
3	6.5	75	19.5	48.5 – 61.5	94	87	46.0	16	30	40	28	219	56	32	14	24	75	9.0	12.5	50	2	2	-10	80	714	23330.4003
4	8.5	96	29.0	60.0 – 80.0	110	106	55.5	20	40	50	34	270	74	37	20	30	90	14.0	20.0	50	3	3	-10	80	1618	23330.4004