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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 rang 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

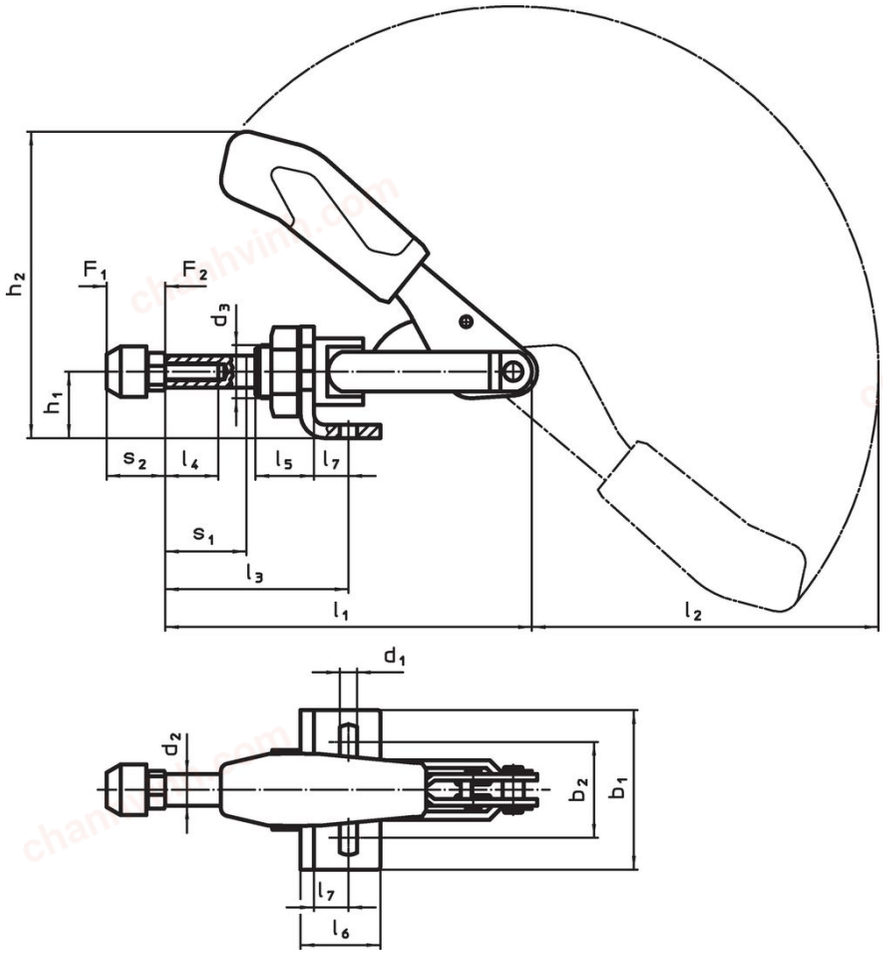
More information

References

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

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Drawing



Order information

Nominal size	Clamping screw	Dimensions																	Stroke s_1	Holding force					Art. No.
		d_1	d_2	d_3	b_1	b_2	h_1	h_2	l_1	l_2	l_3 min.	l_3 max.	l_4	l_5	l_6	l_7	s_2 min.	s_2 max.		F_1	F_2	min.	max.		
	[mm]	[mm]																	[mm]	[kN]		[°C]		[g]	
1	M 4 x 20	4.5	6.5	M10 x 1	25	16.0	12	49.3	66.5	54.0	17.0	33.0	13	10	16	6.5	12	20	16	0.8	0.8	-10	80	73	23330.2001
2	M 4 x 20	4.5	8.0	M12 x 1,5	30	16.0 – 19.5	15	60.5	91.0	74.0	24.5	44.5	20	16	20	7.0	12	20	20	1.0	1.0	-10	80	124	23330.2002
3	M 6 x 25	5.6	10.0	M16 x 1,5	50	31.8 – 36.0	20	85.5	114.0	105.0	32.5	58.5	20	19	34	12.5	17	25	26	2.0	2.0	-10	80	328	23330.2003
4	M 8 x 35	6.5	12.0	M20 x 1,5	60	29.5 – 42.5	25	108.0	140.0	127.5	37.0	69.0	30	22	30	13.0	22	35	32	2.5	2.5	-10	80	505	23330.2004
6	M12 x 50	8.5	16.0	M24 x 1,5	65	29.0 – 46.0	30	129.5	171.5	158.0	41.5	81.5	50	25	35	15.5	30	50	40	4.5	4.5	-10	80	927	23330.2006

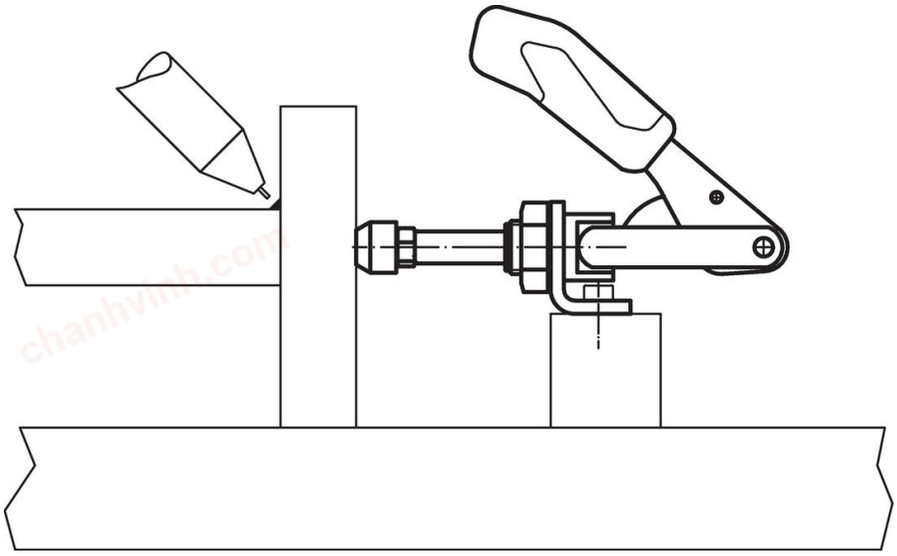
Accessories

	d_2 [mm]	[g]	Art. No.
Clamping screw (spare part of toggle clamps push-pull type)			
No Photo available	**M 4 x 20**	3.6	23330.9011
	M 6 x 25	11.0	23330.9013
	M 8 x 35	25.0	23330.9014
	M12 x 50	73.0	23330.9016

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Application example





Compliance

For detailed compliance information please select the desired article number.