

Clamps • with nose, closed
EH 23170.



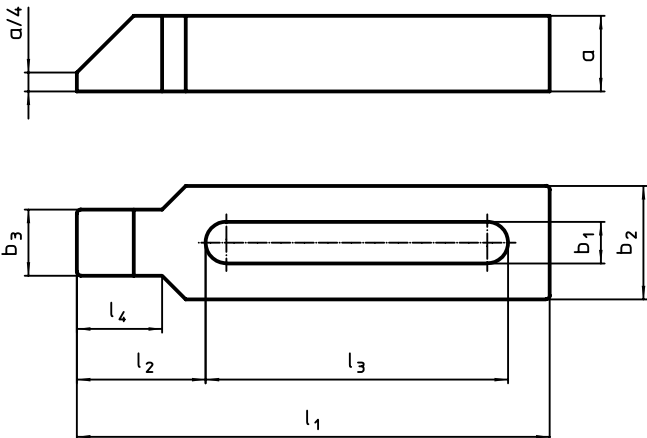
PRODUCT DESCRIPTION

This clamp (clamping claw) according to DIN 6317 with nose is mainly used in mechanical clamping technology for clamping workpieces. Due to the closed design of the clamp, it is suitable for use with rotating workpieces. Thanks to the closed slot, the clamp is suitable for an application with rotating workpieces.

Material

- Heat-treated steel, varnished

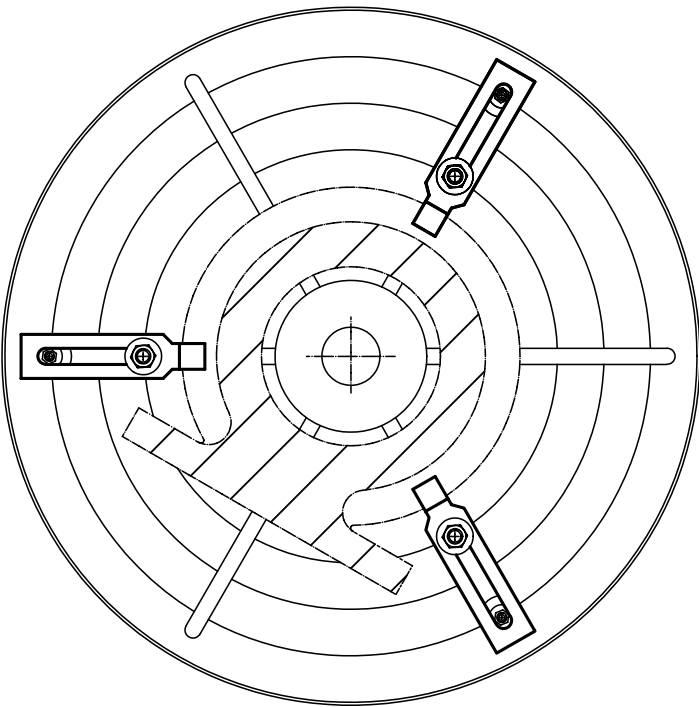
DRAWING



ORDER INFORMATION

Nominal dimension b ₁ [mm]	l ₁	a	Dimensions					For screws			Art. No.
			b ₂	b ₃	l ₂	l ₃	l ₄	[mm]	[in]		
22	250	40	60	35	68	160	45	M20, M22	3/4	3025	23170.0022
	315	40	60	35	68	220	45	M20, M22	3/4	3810	23170.0023
26	250	40	70	43	83	140	56	M24	1	3639	23170.0026
	315	40	70	43	83	200	56	M24	1	4560	23170.0027
	500	50	70	43	83	370	56	M24	1	9483	23170.0029
33	315	50	80	50	88	200	56	M30	1 1/4	6242	23170.0030
	400	50	80	50	88	283	56	M30	1 1/4	7798	23170.0031

APPLICATION EXAMPLE



Clamps • with soft face, similar to DIN 6314

EH 23190.



PRODUCT DESCRIPTION

This clamp (clamping claw) according to DIN 6314 with soft face is mainly used in mechanical clamping technology for clamping workpieces.

The soft face protects the workpiece from damage. With the combination of nut DIN 6330 B (EH 23070.) / conical seat DIN 6319 G (EH 23050.) on the clamping bolt and thrust pad DIN 6311 (EH 22560. removable) on the adjusting screw compensates for the lack of parallelity. The clamp can be used either way (soft or hard clamping surface).

Material

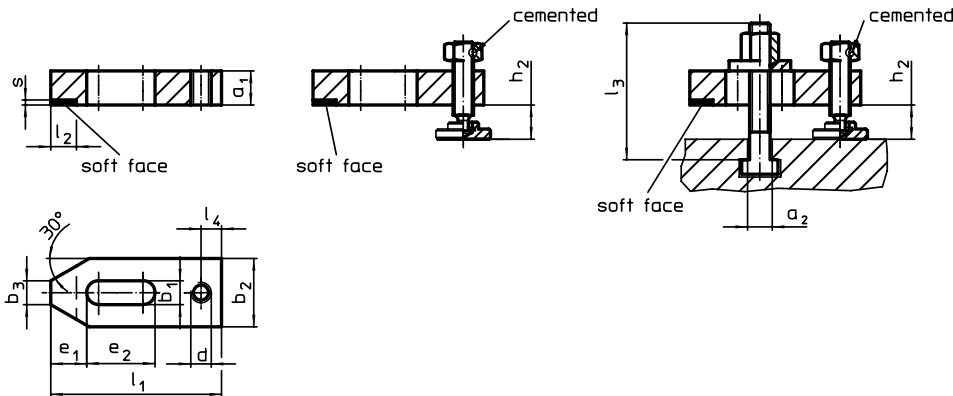
Soft face

- Brass, brazed

Clamp

- Heat-treated steel, blackened

DRAWING



picture 1

picture 2

picture 3

ORDER INFORMATION

Nominal dimension b ₁ [mm]	Dimensions												T-slot size [mm]	Clamping height		 [g]	Art. No.
	a ₁	l ₃	a ₂	b ₂	b ₃	d	e ₁	e ₂	l ₁	l ₂ ±1	l ₄	s		h ₂ min.	h ₂ max.		
	[mm]													[mm]			
without accessories – picture 1																	
9	12	–	–	25	10	M 8	13	22	60	10	8	2	–	–	–	111	23190.0010
11	15	–	–	30	12	M10	15	30	80	12	10	2	–	–	–	221	23190.0020
14	20	–	–	40	14	M12	21	40	100	15	12	3-0.5	–	–	–	478	23190.0030
18	25	–	–	50	18	M16	26	45	125	20	16	3-0.5	–	–	–	949	23190.0040
only with adjusting screw – picture 2																	
9	12	–	–	25	10	M 8	13	22	60	10	8	2	–	8	23	150	23190.0011
															43	160	23190.0012
11	15	–	–	30	12	M10	15	30	80	12	10	2	–	10	38	295	23190.0021
															58	310	23190.0022
14	20	–	–	40	14	M12	21	40	100	15	12	3-0.5	–	10	31	590	23190.0031
															71	620	23190.0032
18	25	–	–	50	18	M16	26	45	125	20	16	3-0.5	–	12	42	1150	23190.0041
															87	1220	23190.0042
with adjusting screw and clamping bolt – picture 3																	
9	12	50	7.6	25	10	M 8	13	22	60	10	8	2	8	8	16	200	23190.0015
		80	7.6	25	10	M 8	13	22	60	10	8	2	8	8	43	220	23190.0016
11	15	65	9.6	30	12	M10	15	30	80	12	10	2	10	10	22	385	23190.0025
		100	9.6	30	12	M10	15	30	80	12	10	2	10	10	58	420	23190.0026
14	20	80	11.6	40	14	M12	21	40	100	15	12	3-0.5	12	10	28	740	23190.0035
		125	11.6	40	14	M12	21	40	100	15	12	3-0.5	12	10	71	805	23190.0036
		80	13.6	40	14	M12	21	40	100	15	12	3-0.5	14	10	26	755	23190.0037
		125	13.6	40	14	M12	21	40	100	15	12	3-0.5	14	10	71	820	23190.0038
18	25	100	15.6	50	18	M16	26	45	125	20	16	3-0.5	16	12	31	1470	23190.0045
		160	15.6	50	18	M16	26	45	125	20	16	3-0.5	16	12	87	1630	23190.0046
		100	17.6	50	18	M16	26	45	125	20	16	3-0.5	18	12	32	1490	23190.0047
		160	17.6	50	18	M16	26	45	125	20	16	3-0.5	18	12	87	1650	23190.0048

Clamps • with exchangeable soft jaw

EH 23190.



PRODUCT DESCRIPTION

This clamp (clamping claw) with exchangeable soft jaw is mainly used in mechanical clamping technology for clamping workpieces.

The soft jaw made from brass or plastic protects the workpiece from damage.

Material

Soft jaw

- Brass
- Plastic

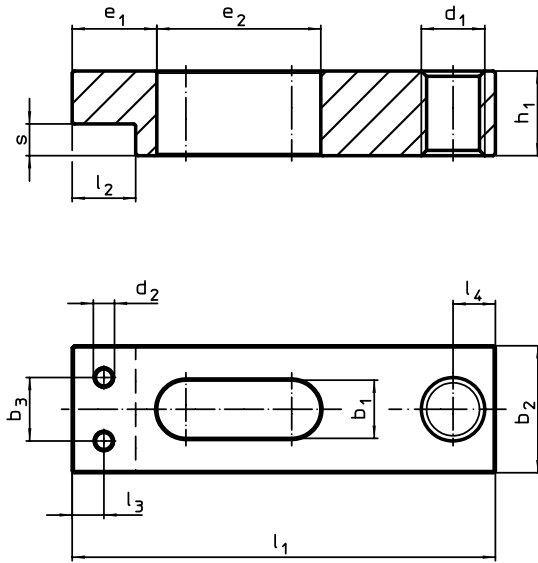
Clamp

- Heat-treated steel, blackened

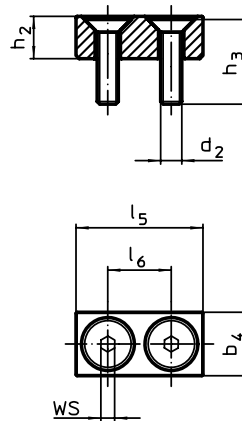
Assembly

The soft jaws are mounted or disassembled with two screws. These are included in the scope of delivery.

DRAWING



picture 1



picture 2

ORDER INFORMATION

Nominal dimension b ₁ +0.5 [mm]	Dimensions																	WS [mm]	 min. max.		 [g]	Art. No.
	l ₁	b ₂	b ₃	b ₄	d ₁	d ₂	e ₁	e ₂	h ₁	h ₂	h ₃	l ₂	l ₃	l ₄	l ₅	l ₆	s					
	[mm]																		[°C]			
plain clamp without soft jaw – picture 1																						
5.5	40	12	6	–	M 6	M 2	8	15.5	8	–	–	6	3.0	4	–	–	3	–	–	–	21.0	23190.0050
7.0	50	16	9	–	M 6	M2,5	10	22.0	10	–	–	8	4.0	5	–	–	4	–	–	–	46.0	23190.0051
9.0	63	20	11	–	M 8	M 3	12	29.0	12	–	–	10	5.0	6	–	–	4	–	–	–	86.0	23190.0052
11.0	80	25	14	–	M10	M 4	15	36.0	16	–	–	13	6.5	8	–	–	6	–	–	–	183.0	23190.0053
14.0	100	32	16	–	M12	M 5	18	44.0	20	–	–	16	8.0	10	–	–	8	–	–	–	366.0	23190.0054
18.0	160	50	30	–	M16	M 8	30	63.0	30	–	–	28	14.0	16	–	–	12	–	–	–	1440.0	23190.0055
soft jaw from brass – picture 2																						
5.5	–	–	–	6	–	M 2	–	–	–	4	8	–	–	–	12	6	–	1.3	–	250	3.9	23190.0060
7.0	–	–	–	8	–	M2,5	–	–	–	6	10	–	–	–	16	9	–	1.5	–	250	7.8	23190.0061
9.0	–	–	–	10	–	M 3	–	–	–	6	12	–	–	–	20	11	–	2.0	–	250	11.0	23190.0062
11.0	–	–	–	13	–	M 4	–	–	–	9	16	–	–	–	25	14	–	2.5	–	250	26.0	23190.0063
14.0	–	–	–	16	–	M 5	–	–	–	12	20	–	–	–	32	16	–	3.0	–	250	53.0	23190.0064
18.0	–	–	–	28	–	M 8	–	–	–	16	30	–	–	–	50	30	–	5.0	–	250	187.0	23190.0065
soft jaw from plastic – picture 2																						
5.5	–	–	–	6	–	M 2	–	–	–	4	8	–	–	–	12	6	–	1.3	0	50	2.2	23190.0070
7.0	–	–	–	8	–	M2,5	–	–	–	6	10	–	–	–	16	9	–	1.5	0	50	3.4	23190.0071
9.0	–	–	–	10	–	M 3	–	–	–	6	12	–	–	–	20	11	–	2.0	0	50	4.0	23190.0072
11.0	–	–	–	13	–	M 4	–	–	–	9	16	–	–	–	25	14	–	2.5	0	50	7.7	23190.0073
14.0	–	–	–	16	–	M 5	–	–	–	12	20	–	–	–	32	16	–	3.0	0	50	14.0	23190.0074
18.0	–	–	–	28	–	M 8	–	–	–	16	30	–	–	–	50	30	–	5.0	0	50	49.0	23190.0075