

## Notes on clamp connectors / clamp plate system

The BRECO® fix clamping elements are used in linear systems. Clamp connectors and clamp plates optimally adapted to our timing belts are available for diverse areas of application. Both elements are used to fasten the belt ends on the machine frame or on the moving unit.

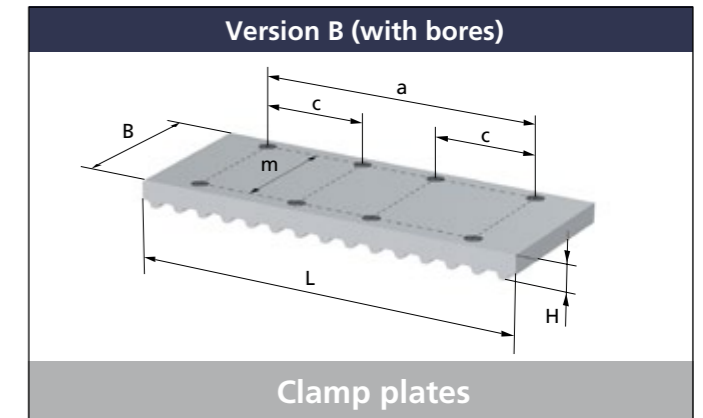
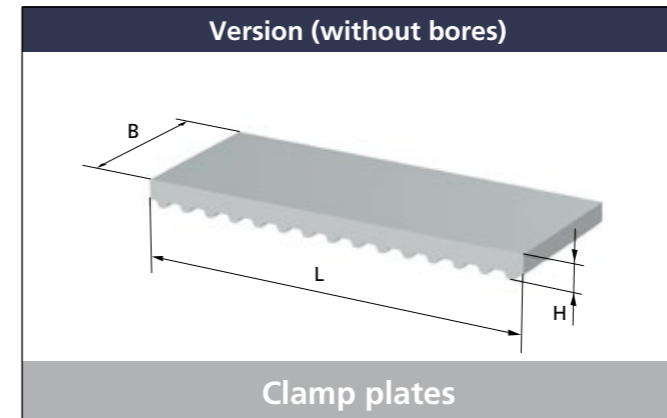
While the clamp connectors only enable simple fastening of the belt ends, the clamp plate can also be used for setting the pretensioning force via a clamping unit.

The different variants A, B and C specially optimised to the load are available to the user within a complete clamp plate system for the individual belt types and belt widths. The corresponding assignment is shown in table in the clamp plates section.

The different variants and subcategories ensure absolute clamping reliability together with optimum handling and assembly thanks to their design. Providing a complete system comprising base plate, if necessary toothed insert, upper plate, clamping unit and standard part accessories spares the user awkward assembly and coordination of the individual parts. In addition, using the toothed inserts made from high-strength polyamide in the clamp plates of variant B allows production costs to be optimised. This results in a system with a very good price-performance ratio overall.

Variant A is divided into types 1,2 and 3. Type 1 is supplied without bores and clamping unit, which means it provides freedom of constructional design, while allowing the belt end to be fastened without additional movements of the „fixed“ clamping position. Type 2, on the other hand, offers the clamping unit and long holes for clamping the timing belt drive. It is then necessary to fasten the clamp plate of type 2 on the machine frame. Type 3 is typically provided for „free suspension“ of the belt tensioning on the clamping unit. A protection that might be necessary against turning and movement must be provided either by fixing the clamping unit itself or corresponding limiting or guide elements in the clamp plate environment.

Variants B and C are generally suitable for both connections to the machine frame, „fixed“ and „freely suspended“, and are available in the version „without clamping unit“.



Clamp plates are often used in linear technology, when one or both belt ends need to be affixed to the housing. An adjustment of the pretension is not possible with clamp plates.

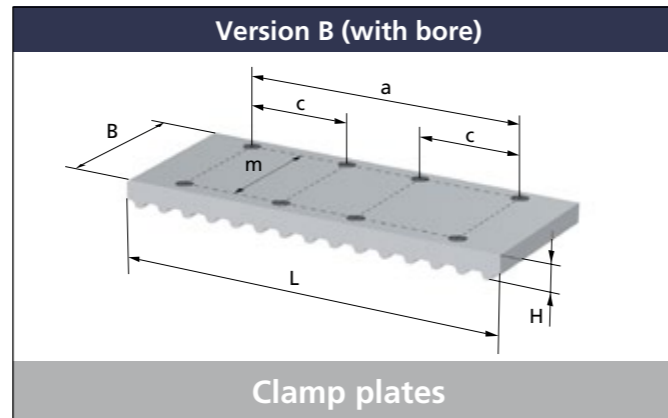
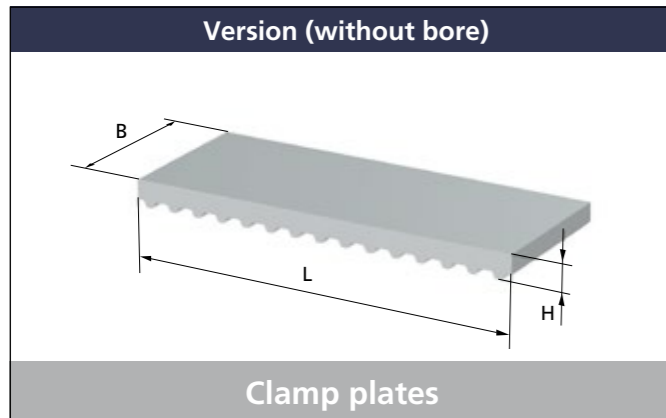
AT profile							
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	c [mm]	H [mm]
10	30x75	AT3	5,5	20	50	12,5	8
20	50x75	AT3	5,5	30	50	12,5	8
25	60x75	AT3	5,5	38	50	12,5	8
25	50x120	AT5	5,5	38	80	20	10
32	60x120	AT5	5,5	46	80	20	10
50	75x120	AT5	5,5	62	80	20	10
75	110x120	AT5	5,5	94	80	20	10
25	50x160	AT10 BAT10	6,5	38	110	30	10
32	60x160	AT10 BAT10 BATK10	6,5	46	110	30	10
50	75x160	AT10 BAT10 BATK10	6,5	62	110	30	10
75	110x160	AT10 BAT10 BATK10	6,5	94	110	30	10
25	50x180	AT15protect ATS15	9	38	140	50	20
32	60x180	AT15protect ATS15	9	46	140	50	20
50	75x180	AT15protect ATS15 BAT15 BATK15	9	62	140	50	20
75	110x180	AT15protect ATS15 BAT15 BATK15	9	94	140	50	20
25	50x200	AT20	9	38	160	60	20
32	60x200	AT20	9	46	160	60	20
50	75x200	AT20	9	62	160	60	20
75	110x200	AT20	9	94	160	60	20

T profile							
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	c [mm]	H [mm]
10	30x50	T2,5*	5,5	20	30	15	6
20	40x60	T2,5*	5,5	30	30	15	6
25	50x120	T5	5,5	38	80	20	10
32	60x120	T5	5,5	46	80	20	10
50	75x120	T5	5,5	62	80	20	10
75	110x120	T5	5,5	94	80	20	10
25	50x160	T10	6,5	38	110	30	10
32	60x160	T10	6,5	46	110	30	10
50	75x160	T10	6,5	62	110	30	10
75	110x160	T10	6,5	94	110	30	10
25	50x200	T20	6,5	38	160	60	20
32	60x200	T20	6,5	46	160	60	20
50	75x200	T20	6,5	62	160	60	20
75	110x200	T20	6,5	94	160	60	20

\* In the clamp plates of the type T2,5 there are only 6 instead of 8 bores.

BRECO order example

**Clamp plate**      75 x 180    ATs15    B  
 Width B  
 Length L  
 Type / Pitch  
 Version



Imperial pitch							
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	c [mm]	H [mm]
25,4	50x120	T1/5"	5,5	38	80	20	10
38,1	60x120	T1/5"	5,5	46	80	20	10
50,8	75x120	T1/5"	5,5	62	80	20	10
76,2	110x120	T1/5"	5,5	94	80	20	10
25,4	50x160	T3/8"	6,5	38	110	30	10
38,1	60x160	T3/8"	6,5	46	110	30	10
50,8	75x160	T3/8"	6,5	62	110	30	10
76,2	110x160	T3/8"	6,5	94	110	30	10
25,4	50x160	T1/2"	6,5	38	110	30	10
38,1	60x160	T1/2"	6,5	46	110	30	10
50,8	75x160	T1/2"	6,5	62	110	30	10
76,2	110x160	T1/2"	6,5	94	110	30	10
101,6	140x160	T1/2"	6,5	124	110	30	10
25,4	50x200	T7/8"	6,5	38	160	60	20
38,1	60x200	T7/8"	6,5	46	160	60	20
50,8	75x200	T7/8"	6,5	62	160	60	20
76,2	110x200	T7/8"	6,5	94	160	60	20

**BRECO order example**

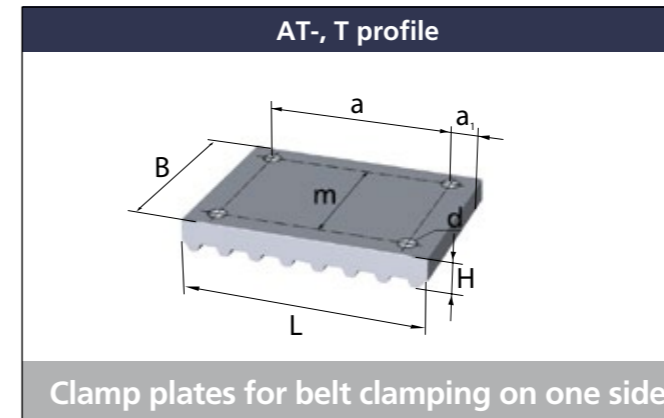
**Clamp plate** **60 x 160 T3/8" B**

Width B

Length L

Type / Pitch

Version



AT profile							
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	a <sub>1</sub> [mm]	H [mm]
25	50x58	AT5	5,5	35	30	15	10
32	60x58	AT5	5,5	42	30	15	10
50	75x58	AT5	5,5	60	30	15	10
75	110x58	AT5	5,5	90	30	15	10
25	50x78	AT10 BAT10	6,5	35	40	20	10
32	60x78	AT10 BAT10 BATK10	6,5	42	40	20	10
50	75x78	AT10 BAT10 BATK10	6,5	60	40	20	10
75	110x78	AT10 BAT10 BATK10	6,5	90	40	20	10
25	50x88	AT15protect ATS15	9	35	50	20	20
32	60x88	AT15protect ATS15	9	42	50	20	20
50	75x88	AT15protect ATS15 BAT15 BATK15	9	60	50	20	20
75	110x88	AT15protect ATS15 BAT15 BATK15	9	90	50	20	20
25	50x98	AT20	9	35	60	20	20
32	60x98	AT20	9	42	60	20	20
50	75x98	AT20	9	60	60	20	20
75	110x98	AT20	9	90	60	20	20

**BRECO order example**

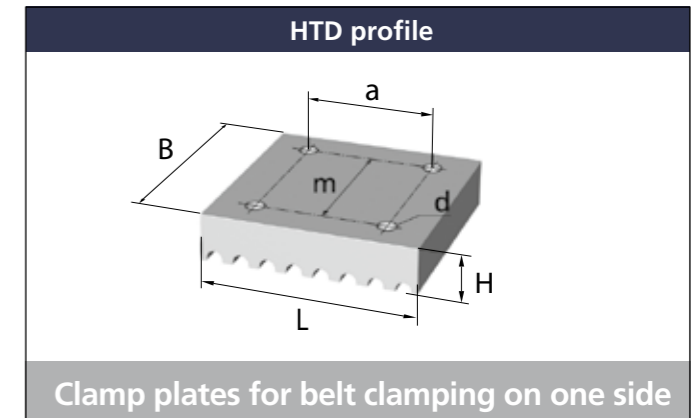
**Clamp plate** **75 x 58 AT10 B**

Width B

Length L

Type / Pitch

Version



HTD profile						
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	H [mm]
10	28x41,8	5M	5,5	16	25	8
15	34x41,8	5M	5,5	22	25	8
25	44x41,8	5M	5,5	32	25	8
20	45x66	8M	9	29	40	15
30	55x66	8M	9	39	40	15
50	75x66	8M	9	59	40	15
85	110x66	8M	9	94	40	15
40	71x116	14M	11	51	70	22
55	86x116	14M	11	66	70	22
85	116x116	14M	11	96	70	22

T profile							
Belt width [mm]	BxL	Type / Pitch	Bore diameter d [mm]	m [mm]	a [mm]	a <sub>1</sub> [mm]	H [mm]
25	50x58	T5	5,5	35	30	15	10
32	60x58	T5	5,5	42	30	15	10
50	75x58	T5	5,5	60	30	15	10
75	110x58	T5	5,5	90	30	15	10
25	50x78	T10	6,5	35	40	20	10
32	60x78	T10	6,5	42	40	20	10
50	75x78	T10	6,5	60	40	20	10
75	110x78	T10	6,5	90	40	20	10
25	50x98	T20	9	35	60	20	20
32	60x98	T20	9	42	60	20	20
50	75x98	T20	9	60	60	20	20
75	110x98	T20	9	90	60	20	20

Clamp plates are also available without bores.