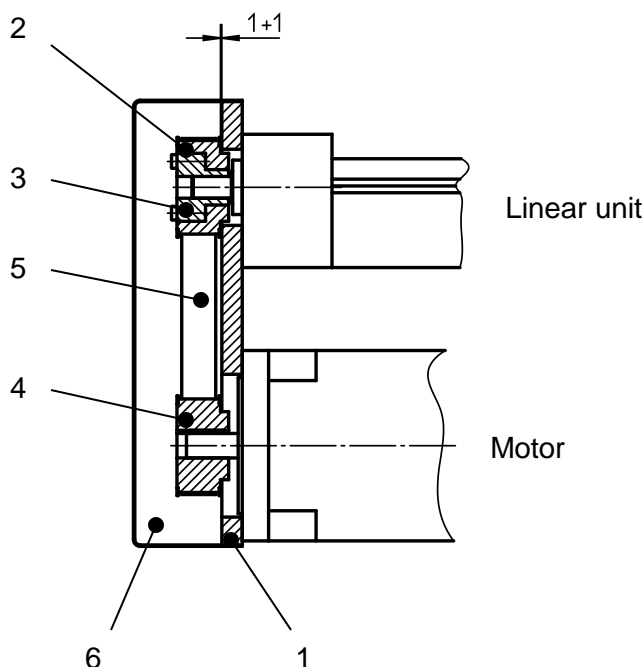


Installation instructions for belt drive (DBD)

1. Attach base plate (1) to linear unit.
2. Push driven synchronising disc (2) with clamping set (3) onto drive shaft of linear unit until the distance between the flanged disc and the base plate (1) is approx 1 mm, then tighten the clamping set.
3. Attach drive motor to base plate (1) and lightly secure the fastening screws such that the motor can still just be moved.
4. Loop the toothed belt (5) around the driven synchronising disc (2), suspend the driving synchronising disc (4) in the toothed belt (5) and push onto the motor shaft (with or without clamping set, depending on version) until the distance between the flanged disc and the base plate (1) is also approx. 1 mm in this case. Then secure the driving synchronising disc (4) (tighten clamping set or clamping screw, depending on version).
5. Correctly tension the toothed belt (5) by moving the motor and tighten the fastening screws. The belt tension depends on the following factors:
 - Toothed belt in use
 - Drive torque

In order to prevent damage to the motor mounting/linear unit mounting and the shafts, ensure that the toothed belt is not excessively tensioned.
6. Attach the enclosure lid (6) to the base plate (1) and secure with screws.



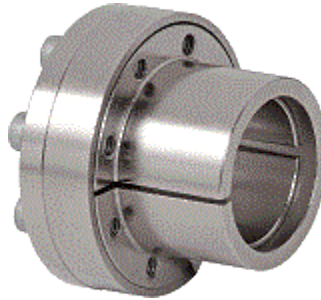


CLAMPEX® – KTR 105													
d x D [mm]	Dimensions [mm]		Clamping screws DIN EN ISO 4762 - 12.9 $\mu_{total}=0.14$				Transmittable torque or axial force			Surface pressure between clamping element		Weight [-kg]	Stock programme
	B	B1	M	Length	z = number	T _A [Nm] ¹⁾	T [Nm]	F _{ax} [kN]	Shaft P _W [N/mm ²]	Hub P _H [N/mm ²]			
5 x 16	13.5	11	M2.5	10	3	1.2	5	2	177	55	0.01		
6 x 16	13.5	11	M2.5	10	3	1.2	6	2	147	55	0.01	●	
6.35 x 16	13.5	11	M2.5	10	3	1.2	6	2	132	52	0.01	●	
7 x 17	13.5	11	M2.5	10	3	1.2	8	2	144	59	0.01	●	
8 x 18	13.5	11	M2.5	10	3	1.2	10	3	138	61	0.02	●	
9 x 20	15.5	13	M2.5	12	4	1.2	15	3	140	63	0.02	●	
9.53 x 20	15.5	13	M2.5	12	4	1.2	15	3	125	60	0.02		
10 x 20	15.5	13	M2.5	12	4	1.2	15	3	114	57	0.02	●	
11 x 22	15.5	13	M2.5	12	4	1.2	18	3	113	56	0.02	●	
12 x 22	15.5	13	M2.5	12	4	1.2	20	3	105	57	0.02	●	
14 x 26	20	17	M3	16	4	2.1	35	5	105	57	0.04	●	
15 x 28	20	17	M3	16	4	2.1	40	5	94	51	0.04	●	
16 x 32	21	17	M4	16	4	4.9	70	9	132	66	0.07	●	
17 x 35	25	21	M4	20	4	4.9	75	9	125	61	0.09	●	
18 x 35	25	21	M4	20	4	4.9	80	9	119	61	0.09	●	
19 x 35	25	21	M4	20	4	4.9	85	9	114	62	0.08	●	
20 x 38	26	21	M5	20	4	9.7	150	15	153	81	0.1	●	
22 x 40	26	21	M5	20	4	9.7	160	15	135	74	0.1	●	
24 x 47	32	26	M6	25	4	16.5	250	21	154	78	0.2	●	
25 x 47	32	26	M6	25	4	16.5	260	21	147	78	0.2	●	
28 x 50	32	26	M6	25	6	16.5	440	31	198	111	0.2	●	
30 x 55	32	26	M6	25	6	16.5	470	31	185	101	0.3	●	
32 x 55	32	26	M6	25	6	16.5	500	31	173	100	0.25	●	
35 x 60	37	31	M6	30	8	16.5	730	42	166	97	0.35	●	
38 x 65	37	31	M6	30	8	16.5	800	42	155	90	0.4	●	
40 x 65	37	31	M6	30	8	16.5	840	42	147	90	0.4	●	
42 x 75	44	36	M8	35	6	40	911	43	125	70	0.7	●	
45 x 75	44	36	M8	35	8	40	1300	58	155	93	0.6	●	
48 x 80	44	36	M8	35	8	40	1824	76	191	115	0.7		
50 x 80	44	36	M8	35	8	40	1900	76	183	115	0.7	●	

● Sizes of clamping elements available from stock.

¹⁾ These are the maximum screw tightening torques. They can be reduced by a maximum of 40 % of the above-mentioned figures with T, F_{ax}, P_W and P_H decreasing proportionately.

source: <https://www.ktr.com/catalog>



CLAMPEX® – KTR 250

d x D [mm]	Dimensions [mm]					Clamping screws DIN EN ISO 4762 - 12.9 $\mu_{total}=0.14$				Transmittable torque or axial force		Surface pressure between clamping element		Weight [~kg]	Stock programme
	B	B ₁	B ₂	B ₃	D ₁	M	Length	z = number	T _A [Nm] ¹⁾	T [Nm]	F _{ax} [kN]	Shaft P _{VV} [N/mm ²]	Hub P _N [N/mm ²]		
6 x 14	24.5	21.5	18.5	10	25	M3	10	4	2.6	11	4	162	69	0.05	●
8 x 15	29	25	21.5	11.5	27	M4	10	3	5.6	26	7	187	100	0.05	●
9 x 16	30	26	22.5	14	28	M4	10	4	5.6	37	8	173	97	0.06	●
10 x 16	30	26	22.5	14	29	M4	10	4	5.6	42	8	159	99	0.16	●
11 x 18	30	26	22.5	13.5	32	M4	10	4	5.6	50	9	162	99	0.18	●
12 x 18	30	26	22.5	13.5	32	M4	10	4	5.6	55	9	150	100	0.18	●
14 x 23	30	26	22.5	14	38	M4	10	6	5.6	100	14	193	118	0.20	●
15 x 24	42	36	28.5	16	44	M6	18	4	15	145	19	214	134	0.2	●
16 x 24	42	36	28.5	16	44	M6	18	4	15	155	19	201	134	0.3	●
17 x 25	42	36	28.5	16	45	M6	18	4	15	162	19	186	126	0.2	●
17 x 26	44	38	31	18	47	M6	18	4	17	180	21	184	120	0.2	●
18 x 26	44	38	31	18	47	M6	18	4	17	200	22	182	126	0.2	●
19 x 27	44	38	31	18	48	M6	18	4	17	210	22	171	121	0.3	●
20 x 28	44	38	31	18	49	M6	18	4	17	220	22	162	116	0.2	●
22 x 32	51	45	38	25	54	M6	18	4	17	250	23	110	75	0.3	●
24 x 34	51	45	38	25	56	M6	18	4	17	270	23	99	70	0.3	●
25 x 34	51	45	38	25	56	M6	18	4	17	280	22	95	70	0.3	●
28 x 39	51	45	38	25	61	M6	18	6	17	480	34	130	93	0.4	●
30 x 41	51	45	38	25	62	M6	18	6	17	510	34	120	88	0.4	●
32 x 43	51	45	38	25	65	M6	18	8	17	730	46	151	113	0.5	●
35 x 47	56	50	43	30	69	M6	18	8	17	800	46	115	86	0.5	●
38 x 50	56	50	43	30	72	M6	18	8	17	860	45	105	80	0.6	●
40 x 53	56	50	43	30	75	M6	18	8	17	900	45	99	75	0.6	●
42 x 55	65	57	49	32	78	M8	22	8	41	1800	86	169	129	0.9	●
45 x 59	73	65	57	40	85	M8	22	8	41	1900	84	124	95	1.0	●
48 x 62	78	70	62	45	87	M8	22	8	41	2000	83	102	79	1.0	●
50 x 65	78	70	62	45	92	M8	22	10	41	2600	104	123	94	1.3	●
55 x 71	83	75	67	50	98	M8	22	10	41	2900	105	102	79	1.5	●
60 x 77	83	75	67	50	104	M8	22	10	41	3100	103	91	71	1.7	●
65 x 84	83	75	67	50	111	M8	22	10	41	3400	105	85	66	1.9	●
70 x 90	101	91	80	60	119	M10	25	10	83	5800	166	105	81	2.9	●
75 x 95	101	91	80	60	126	M10	25	10	83	6200	165	97	77	2.3	●
80 x 100	106	96	85	65	131	M10	25	12	83	8000	200	102	82	3.3	●
85 x 106	106	96	85	65	137	M10	25	12	83	8500	200	96	77	3.6	●
90 x 112	106	96	85	65	143	M10	25	15	83	11200	249	113	91	3.9	●
95 x 120	106	96	85	65	153	M10	25	15	83	11800	248	107	84	4.5	●
100 x 125	114	102	89	65	162	M12	30	12	145	14600	292	119	95	5.5	●
110 x 140	140	128	114	90	180	M12	30	12	145	16000	291	78	61	8.0	●
120 x 155	140	128	114	90	198	M12	30	12	145	17400	290	71	55	10.5	●
130 x 165	140	128	114	90	208	M12	30	16	145	25000	385	87	69	11.9	●

● Sizes of clamping elements available from stock.

¹⁾ These are the maximum screw tightening torques. They can be reduced by a maximum of 40 % of the above-mentioned figures with T, F_{ax}, P_{VV} and P_N decreasing proportionately.

source: <https://www.ktr.com/catalog>