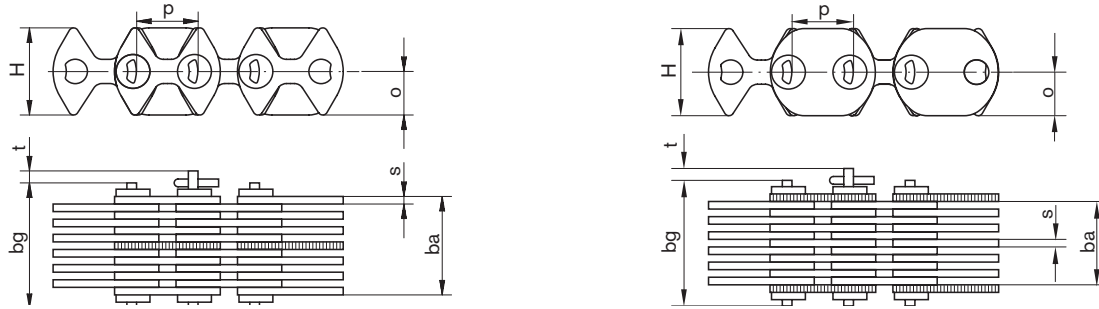


Biflex inverted tooth chains

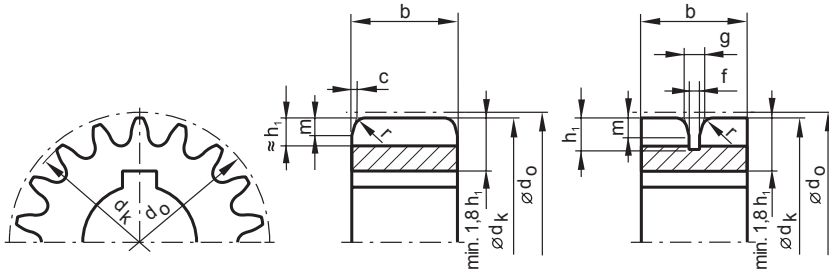


Pitch p	Designation no.	RZ	Nominal width b_n	Working width b_a	Total-width b_g	Design breaking load	Weight [kg/m]	Sprocket width b	H	o	s	t
3/8" = 9.525 mm	BIZ 015 A	10	15	12.5	19.9	16.4	0.9	11.5	14.0	7.0	1.5	2.0
	BIZ 020 A	13	20	17.2	24.5	20.1	1.2	16.0				
	BIZ 025	17	25	26.6	30.8	31.0	1.4	30.0				
	BIZ 030	21	30	32.9	37.1	38.3	1.8	35.0				
	BIZ 040	25	40	39.1	43.3	45.6	2.1	45.0				
	BIZ 050	33	50	51.6	55.8	60.3	2.8	55.0				
	BIZ 065	41	65	64.2	68.4	74.9	3.5	70.0				
1/2" = 12.7 mm	BIZ 315 A	10	15	12.5	21.3	27.9	1.2	11.5	18.0	9.0	1.5	2.5
	BIZ 320 A	13	20	17.2	25.9	34.1	1.6	16.0				
	BIZ 325	17	25	26.6	32.2	52.7	1.9	30.0				
	BIZ 330	21	30	32.9	38.5	65.1	2.4	35.0				
	BIZ 340	25	40	39.1	44.7	77.5	2.8	45.0				
	BIZ 350	33	50	51.6	57.2	102.3	3.7	55.0				
	BIZ 365	41	65	64.2	69.8	127.2	4.6	70.0				
	BIZ 375	49	75	76.7	82.3	152.0	5.5	80.0				
	BIZ 380	53	80	82.9	88.5	164.4	5.9	85.0				
	BIZ 3100	65	100	101.7	107.3	201.6	7.3	105.0				
	BIZ 3125	81	125	126.8	132.4	251.3	9.1	130.0				
	BIZ 3150	97	150	151.8	157.4	300.9	10.9	155.0				
3/4" = 19.05 mm	BIZ 530 A	15	30	27.0	38.2	77.3	3.5	26.0	27.0	13.5	2.0	3.5
	BIZ 535	17	35	35.4	42.4	101.1	3.8	40.0				
	BIZ 550	25	50	52.0	59.0	148.7	5.6	55.0				
	BIZ 565	33	65	68.6	75.6	196.3	7.4	75.0				
	BIZ 585	41	85	85.3	92.3	243.9	9.2	90.0				
	BIZ 590	45	90	93.6	100.6	267.7	10.1	100.0				
	BIZ 5100	49	100	101.9	108.9	291.5	11.0	105.0				
	BIZ 5125	61	125	126.9	133.9	362.9	13.7	130.0				
	BIZ 5135	65	135	135.2	142.2	386.7	14.6	140.0				
	BIZ 5150	73	150	151.8	158.8	434.3	16.4	155.0				
BIZ 5200	97	200	201.8	208.8	577.1	21.8	205.0					
1" = 25.4 mm	BIZ 640	13	40	40.2	48.2	151.9	5.8	45.0	36.0	18.0	3.0	
	BIZ 650	17	50	52.6	60.6	198.6	7.6	55.0				
	BIZ 665	21	65	65.0	73.0	245.4	9.4	70.0				
	BIZ 675	25	75	77.4	85.4	292.1	11.2	80.0				
	BIZ 6100	33	100	102.1	110.1	385.6	14.8	105.0				
	BIZ 6125	41	125	126.9	134.9	479.1	18.4	130.0				
	BIZ 6150	49	150	151.7	159.7	572.6	22.0	155.0				
	BIZ 6200	65	200	201.2	209.2	759.6	29.2	205.0				

Dimensions in mm – Design breaking load in kN – RZ (Number of rows) = number of all link plates per joint – Other pitches and widths on request.

- Biflex inverted tooth chains are delivered open and with a split pin lock if not specified otherwise.
- Revolving chains require an even number of links. Chains with an uneven number of links could not be closed.
- Uneven numbers of links are permitted only if the ends of the chain are connected to external parts.

Biflex inverted tooth sprockets



Minimum number of teeth:
 3/8", 1/2", 3/4" = 18 teeth
 1" = 19 teeth
 Z ≥ 23 is preferred.

Use smaller numbers of teeth only on sprockets which transfer torque at velocities up to v = 1 m/s.

Tip diameter d _k				
Number of teeth z	3/8"	1/2"	3/4"	1"
18	49.0	65.3	98.3	-
19	52.1	69.5	104.5	139.4
20	55.2	73.6	110.7	147.6
21	58.3	77.7	116.9	155.8
22	61.4	81.8	123.0	164.0
23	64.5	85.9	129.2	172.2
24	67.5	90.0	135.3	180.4
25	70.6	94.1	141.5	188.6
26	73.7	98.2	147.6	196.8
27	76.7	102.3	153.7	204.9
28	79.8	106.4	159.8	213.1
29	82.9	110.5	166.0	221.3
30	85.9	114.6	172.1	229.4
31	89.0	118.7	178.2	237.6
33	95.1	126.8	190.4	253.6
35	101.2	134.9	202.6	270.1
37	107.3	143.1	214.8	286.4
39	113.4	151.2	227.0	302.6
41	119.5	159.3	239.2	318.9
43	125.6	167.5	251.3	335.1
45	131.7	175.6	263.5	351.3
47	137.8	183.7	275.7	367.6
49	143.9	191.8	287.8	383.8
51	149.9	199.9	300.0	400.0
55	162.1	216.1	324.3	432.4
60	177.3	236.4	354.7	472.9
70	207.7	276.9	415.4	553.9
80	238.0	317.4	476.2	634.9
90	268.4	357.9	536.9	715.8
100	298.7	398.3	597.5	796.7
110	329.1	438.8	658.2	877.6
120	359.4	479.2	718.9	958.5
130	389.8	519.7	779.6	1039.4
140	420.1	560.1	840.2	1120.3
150	450.4	600.6	900.9	1201.2

Guideway and profile				
Pitch p	3/8"	1/2"	3/4"	1"
g	4.0	4.0	5.0	8.0
f	3.0	3.0	4.0	6.0
h ₁	5.5	7.0	11.0	14.0
m	4.0	5.0	8.0	9.0
r	2.0	2.0	3.0	3.0
c	0.5	0.5	0.5	1.0

The pitch circle diameter helps determine the correct external diameter of the sprocket with an attached chain in new condition.

Pitch circle diameter:

$$d_0 = \frac{p}{\sin(180^\circ/z)}$$

Max. diameter incl. chain:

$$D_{max} = d_0 + 2 \cdot (H - o)$$

Dimensions in mm – Interpolate intermediate values