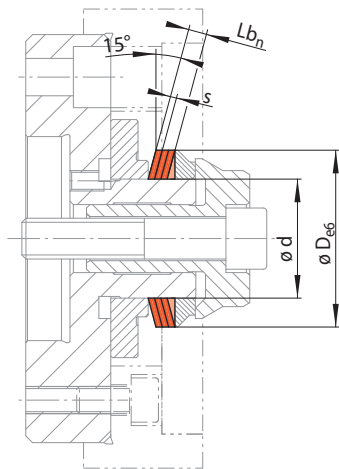


Clamping Elements Bonded Disc Packs LGD

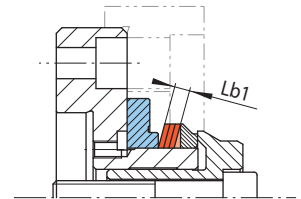
for customer assembled Bonded Disc Pack Flange Mandrels with large workpiece tolerances



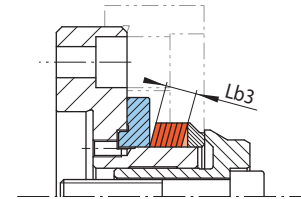
Key

- d = Seating diameter
- D = Achievable clamping diameter
- ΔD = Maximum diameter change of the clamping diameter of the Clamping Element
- s = Clamping disc thickness
- n = Number of Clamping Discs (max. 12)
- $Lb_n = s \cdot n$
= Bonded disc pack width
- $M_n = M_1 \cdot n$
= Max. transmissible torque
- $Fm_n = Fm_1 \cdot n$
= Required actuating force for workpiece clamping with pull-back action
- $Fo_n = Fo_1 \cdot n$
= Required actuating force for workpiece clamping without pull-back action

Installation situations



Bonded disc pack widths Lb1



Bonded disc pack width Lb3

48-1

48-2

Size LGD ...			Clamping Discs LGD					Bonded Disc Packs LGD									
			s	M ₁	Fm ₁	Fo ₁	Art.-No.	Bonded disc pack width Lb1					Bonded disc pack width Lb3				
								Lb1	M _n	Fm _n	Fo _n	Art.-No	Lb3	M _n	Fm _n	Fo _n	Art.-No.
d	D*	Δ D	mm	Nm	N	N	1003.	mm	Nm	N	N	3023.	mm	Nm	N	N	3023.
15	32,00 - 37,00	0,8	0,9	3,1	1300	1050	015.001	5,4	19	7800	6300	015.002	-	-	-	-	-
20	37,00 - 42,00	0,8	0,9	5,9	1850	1500	020.001	5,4	33	11100	9000	020.001	-	-	-	-	-
25	42,00 - 47,00	0,8	0,9	9,4	2400	1950	025.001	5,4	56	14400	11700	025.001	10,8	110	28800	23500	025.002
30	47,00 - 52,00	0,8	0,9	13	2700	2250	030.001	5,4	78	16200	13500	030.003	10,8	150	32400	27000	030.004
35	52,00 - 57,00	0,8	0,9	18	3200	2600	035.001	5,4	110	19200	15600	035.001	10,8	210	38400	31200	035.002
40	57,00 - 62,00	0,8	0,9	24	3700	3000	040.001	5,4	140	22200	18000	040.002	10,8	280	44400	36000	040.003
45	62,00 - 67,00	0,8	0,9	30	4300	3500	045.001	5,4	180	25800	21000	045.001	10,8	360	51600	42000	045.002
50	67,00 - 70,00	0,8	0,9	39	4800	3900	050.001	5,4	230	28800	23400	050.003	10,8	460	57600	46800	050.004
	70,00 - 75,00	1,0	1,15	48	6300	5200	050.002	6,9	290	37800	31200	050.005	13,8	570	75600	62400	050.006
	75,00 - 80,00	1,0	1,15	49	6100	4900	050.003	6,9	290	36600	29400	050.007	13,8	580	73200	58800	050.008
60	80,00 - 85,00	1,0	1,15	72	7700	6300	060.001	6,9	430	46200	37800	060.001	13,8	860	92400	75600	060.002
	85,00 - 90,00	1,0	1,15	72	7400	6000	060.002	6,9	430	44400	36000	060.003	13,8	860	88800	72000	060.004
70	90,00 - 95,00	1,0	1,15	99	9100	7500	070.001	6,9	590	54600	45000	070.001	13,8	1180	109200	90000	070.002
	95,00 - 100,00	1,0	1,15	99	8700	7100	070.002	6,9	590	52200	42600	070.003	13,8	1180	104400	85200	070.004
80	100,00 - 105,00	1,0	1,15	130	10500	8600	080.001	6,9	780	63000	51600	080.001	13,8	1550	126000	103200	080.002
	105,00 - 110,00	1,0	1,15	130	10000	8200	080.002	6,9	780	60000	49200	080.003	13,8	1550	120000	98400	080.004
90	110,00 - 115,00	1,0	1,15	170	11900	9800	090.001	6,9	1000	71400	58800	090.001	13,8	2040	142800	117600	090.002
	115,00 - 120,00	1,0	1,15	170	11500	9300	090.002	6,9	1000	69000	56000	090.003	13,8	2040	138000	111600	090.004
100	120,00 - 125,00	1,0	1,15	210	13500	11000	100.001	6,9	1250	81000	66000	100.001	13,8	2520	162000	132000	100.002
	125,00 - 130,00	1,0	1,15	210	13000	10500	100.002	6,9	1250	78000	63000	100.003	13,8	2520	156000	126000	100.004
	130,00 - 140,00	1,3	1,5	250	15500	12500	100.003	9	1500	93000	75000	100.005	18	3000	186000	150000	100.006
115	140,00 - 150,00	1,3	1,5	330	19000	15500	115.001	9	1980	114000	93000	115.001	18	3960	228000	186000	115.002
125	150,00 - 160,00	1,3	1,5	400	21000	17000	125.001	9	2400	126000	102000	125.001	18	4800	252000	204000	125.002
135	160,00 - 170,00	1,3	1,5	470	22500	18500	135.001	9	2820	135000	111000	135.001	18	5640	270000	222000	135.002
145	170,00 - 180,00	1,3	1,5	540	24500	20000	145.001	9	3240	147000	120000	145.001	18	6480	294000	240000	145.002
155	180,00 - 190,00	1,3	1,5	630	26500	22000	155.001	9	3780	159000	132000	155.001	18	7560	318000	264000	155.002
	190,00 - 200,00	1,3	1,5	620	24500	20000	155.002	9	3720	147000	120000	155.003	18	7440	294000	240000	155.004

* Clamping diameter adjustable to two places after the decimal point

The Bonded Disc Packs LGD have a larger taper angle than the Bonded Disc Packs LBD. This makes it possible to clamp larger workpiece tolerances up to IT14 securely. The achievable true running accuracy is $\leq 0,03$ mm. Bonded Disc Packs LGD can also be used in Bonded Disc Pack Flange Mandrels. We request that you contact us.

Example for ordering

Please indicate the size of your Clamping Element, the clamping diameter of your workpiece, including workpiece tolerance, and the desired bonded disc pack width in your order:

Size: LGD 15
Clamping diameter: 35,47 mm
Workpiece tolerance: H7
Bonded disc pack width: 5,4 mm

➔ LGD 15-35,47H7-5,4