

Clamping Elements Disc Elements KBD

for customer assembled Disc Element Clamping Mandrels
for setup to different clamping diameters within a given size



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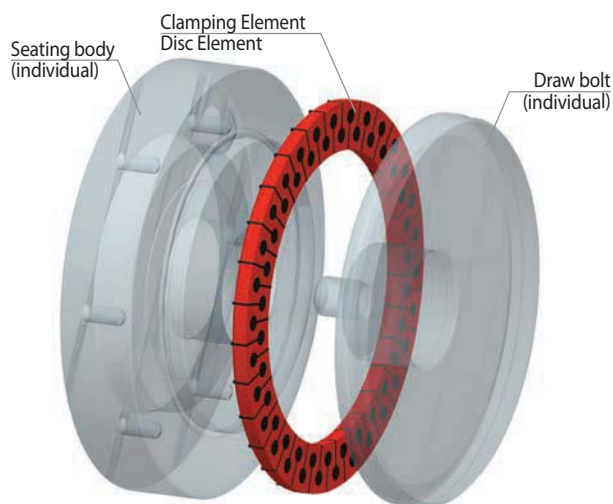
Features

- For clamping diameters from 200 mm to 450 mm
- True running accuracy $\leq 0,02$ mm
- Permissible component tolerance up to IT11
- Short clamping length
- Extended insertion depth
- Pull-back possible
- Hand clamping optional possible
- Rubberized slots in the Disc Element

Configuration

The Clamping Element Disc Element is an adaptation of the Clamping Element Bonded Disc Pack designed for large clamping diameters.

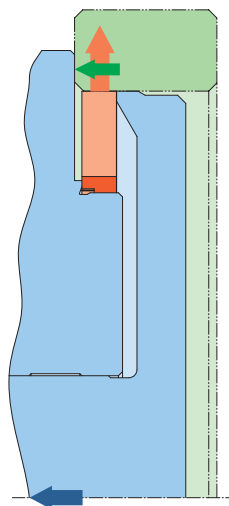
Disc Element Clamping Mandrels are produced individually according to customer specifications. To order these fixtures, please complete the questionnaire on page 119 and send it to us.



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Clamping principle

The Disc Element sits pre-loaded on the seating diameter of the seating body. For clamping, the Disc Element is elastically deformed by an axial actuating force. The component is centred, pressed against the backstop and aligned flush.



Key:

← Axial actuating force

↑ Radial clamping force

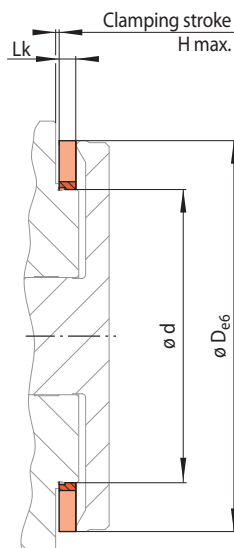
→ Axial pull-back force

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Edmayr Antriebstechnik GmbH
Thalham 20, 4880 St. Georgen im Attergau
Tel.: +43 7667 6840 Fax: +43 7667 20070
office@edmayr.at www.edmayr.at

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Size KBD ... d mm	Achievable clamping diameter D* mm	Maximum diameter change** ΔD mm	Max. transmissible torque*** M Nm	Max. Actuating force with pull-back action Fm N	Max. Actuating force without pull-back action Fo N	H max. *** mm	Lk mm	Art.-No. 1195-
150	200 - 212	0,36	1400	53500	34500	1,8	8,5	150191
160	212 - 224	0,38	1600	57500	37000	1,9	8,5	160191
170	224 - 236	0,40	1850	62500	40500	2,0	8,5	170191
180	236 - 250	0,40	2050	64000	41000	2,1	10,0	180191
190	250 - 265	0,42	2300	68000	43500	2,2	10,0	190191
200	265 - 280	0,46	2600	72500	46000	2,4	10,0	200191
212	280 - 300	0,50	2800	75500	48500	2,6	10,0	212191
224	300 - 315	0,57	3400	85000	54500	2,8	12,5	224191
236	315 - 335	0,60	3700	88000	57000	3,0	12,5	236191
250	335 - 355	0,63	4200	93500	59500	3,2	12,5	250191
265	355 - 375	0,66	4800	99500	63500	3,4	12,5	265191
280	375 - 400	0,70	5200	103000	65500	3,7	16,0	280191
300	400 - 425	0,72	6100	111000	70000	3,9	16,0	300191
315	425 - 450	0,80	6800	117500	74000	4,3	16,0	315191

* Clamping diameter adjustable to two places after the decimal point • ** of the clamping diameter of the Clamping Element.

*** Clamping stroke H max. describes the load limit of the Clamping Element while activation without component.

Example for ordering

Please indicate the size of the Clamping Element and the clamping diameter of your component, including component tolerance, in your order:

Size: KBD 160
Clamping diameter: 220,47 mm
Component tolerance: H7

➔ KBD 160-220,47H7

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