

Flat Element Flange Chucks KFFF

as Complete Clamping Fixture



32-1

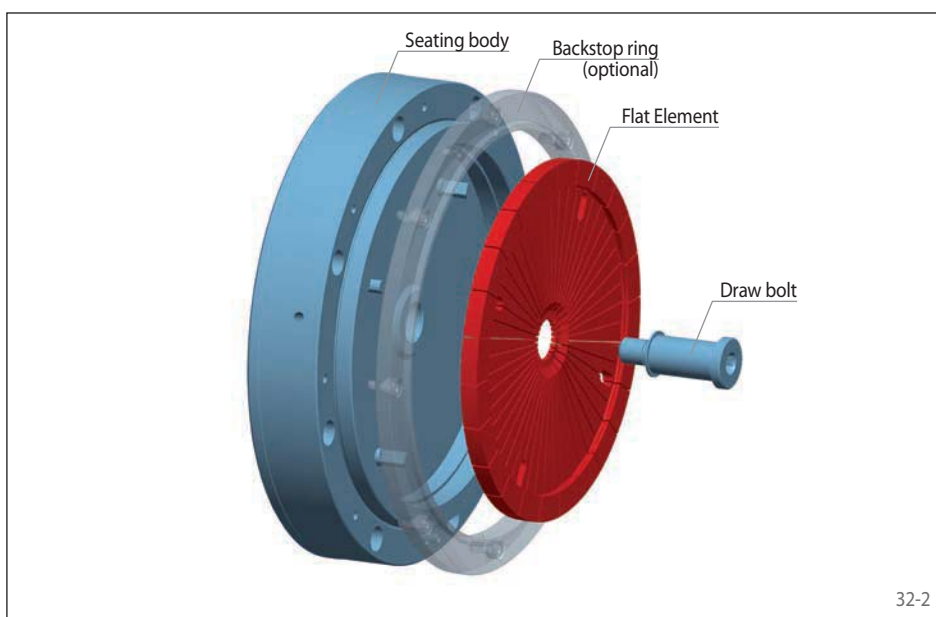
Features

- For clamping diameters from 90 mm to 260 mm
- High true running accuracy $\leq 0,01$ mm
- Permissible component tolerance up to IT11
- Very short clamping fixture length
- Short clamping length
- Pull-back against internal backstop pins, external backstop surface or optional, individually designed external backstop ring
- Hand clamping optional possible
- Rubberized slots in the Flat Element

Configuration

The Flat Element Flange Chuck consists of a seating body with backstop pins, a Flat Element and a draw bolt. A backstop ring and an assembly for manual clamping are also available as options. The Flat Element Flange Chuck is attached to the machine with the seating body. The Clamping Fixture is actuated by the draw bolt, which is connected to the machine power actuating unit.

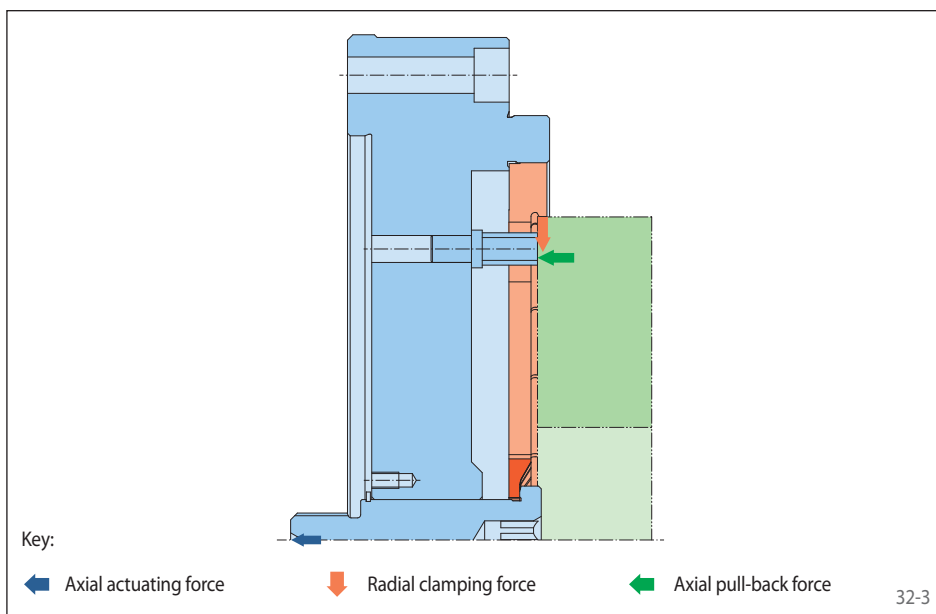
Intermediate Flanges and Spring Force Actuators are shown starting on page 86.



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Clamping principle

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



32-3

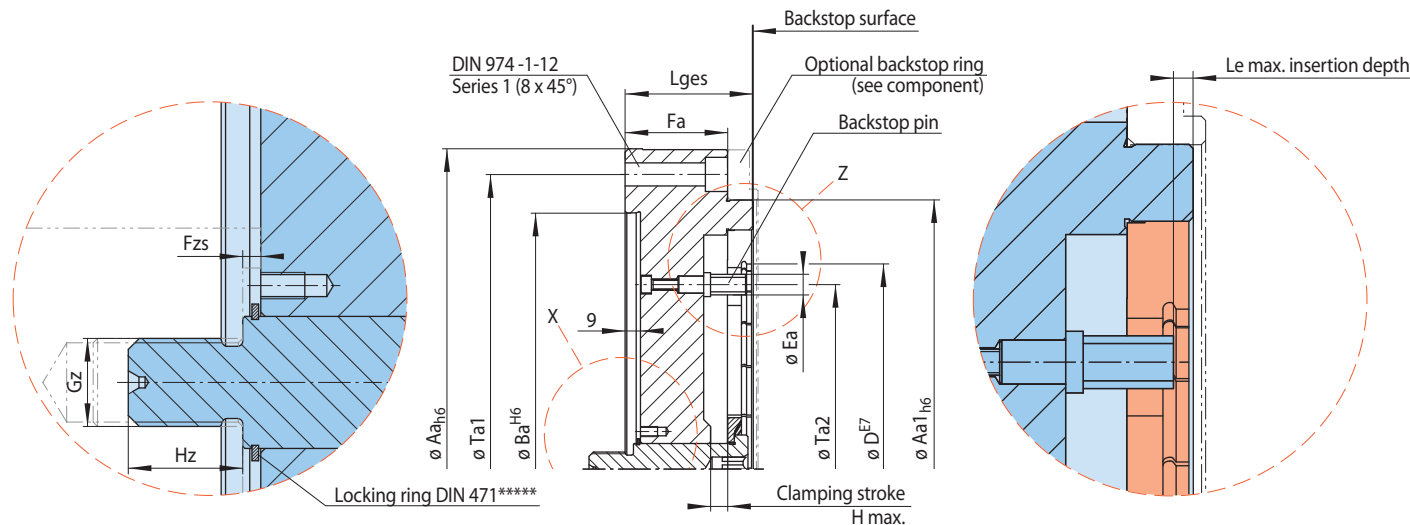
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Detail "X"

Detail "Z"



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Size	Achievable clamping diameter D* mm	Maximum diameter change** ΔD mm	Max. transmissible torque*** M ¹⁾ Nm	Max. Actuating force*** F N	Aa mm	Aa1 mm	Ba mm	Ea mm	Fa mm	Fsz mm	Gz mm	H max. mm	Hz mm	Le max. mm	Lges mm	Ta1 mm	Ta2 mm	Y ****
KFFF 110	90 - 100	0,27	550 - 610	14200	200	150	125	5,5	34,5	3,8	M 12	3,2	18	5	45,5	175	80,5	3
KFFF 120	100 - 110	0,27	680 - 740	14200	200	150	125	10	34,5	3,8	M 12	3,6	18	5	45,5	175	85,5	3
KFFF 130	110 - 120	0,30	730 - 780	13750	225	170	125	10	34,5	3,8	M 12	4,0	18	5	45,5	200	95,0	3
KFFF 140	120 - 130	0,33	780 - 840	13750	225	170	125	10	34,5	3,8	M 12	4,4	18	5	45,5	200	104	3
KFFF 155	130 - 140	0,36	1250 - 1300	19600	250	200	175	10	42,5	3,3	M 16	4,8	22	6	55,5	225	114	4
KFFF 170	140 - 155	0,40	1350 - 1500	19600	250	200	175	10	42,5	3,3	M 16	5,4	22	6	55,5	225	124	4
KFFF 185	155 - 170	0,46	1450 - 1600	19600	275	225	200	10	42,5	3,3	M 16	6,1	22	6	55,5	250	139	4
KFFF 200	170 - 185	0,50	1650 - 1750	19600	275	225	200	10	42,5	3,3	M 16	6,7	22	6	55,5	250	153	4
KFFF 220	185 - 200	0,56	1750 - 1850	18650	315	250	240	12	42,5	3,3	M 16	7,2	22	6	55,5	280	165	4
KFFF 240	200 - 220	0,50	2950 - 3350	29450	375	315	300	12	60,0	3,8	M 20	8,0	26	6	75,0	345	180	4
KFFF 260	220 - 240	0,66	3650 - 3900	33350	375	315	300	12	60,0	3,8	M 20	9,0	26	6	75,0	345	200	4
KFFF 280	240 - 260	0,73	4050 - 4350	34350	375	315	300	14	60,0	3,8	M 20	10,0	26	6	75,0	345	216	4

* Clamping diameter adjustable to two places after the decimal point. ** of the clamping diameter of the Clamping Element. *** for clamping with pull-back action. **** Y = Number of backstop pins on pitch circle diameter Ta2. ***** The locking ring prevents loss of the draw bolt during transport and storage of the Clamping Fixture. It must be removed prior to installation and commissioning.

¹⁾ The lower value refers to the smallest clamping diameter of the respective size, the higher value to the largest. For values between the two can be determined through interpolation.

Example for ordering

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

Size: KFFF 120
Clamping diameter: 105,47 mm
Component tolerance: h6
Insertion depth: 2,8 mm

➔ KFFF 120-105,47h6-2,8

Customer assembly

The Flat Elements and components shown on pages 34 to 36 are available for customer assembled Flat Element Flange Chucks..

