

Item description/product images



Description

Material:

Inner ring, outer ring and rolling elements, bearing steel.

Note:

The steel cross-roller bearings consist of a one-piece inner and outer ring. The one-piece ring design ensures high rigidity, accuracy and smooth running. The cross-roller bearing is suitable for both inner and outer ring rotation.

There are two options for the radial bearing play: Bearings with normal clearance C1 (order number: 23831-0XXXXX) and pre-tensioned bearings S1 (order number: 23831-1XXXXX).

The cross-roller bearings have tolerance class P0. This tolerance class describes the radial and axial deviation of the inner and outer ring.

The cross-roller bearings are sealed on both sides.

Other bearing clearances and tolerance classes are available on request.

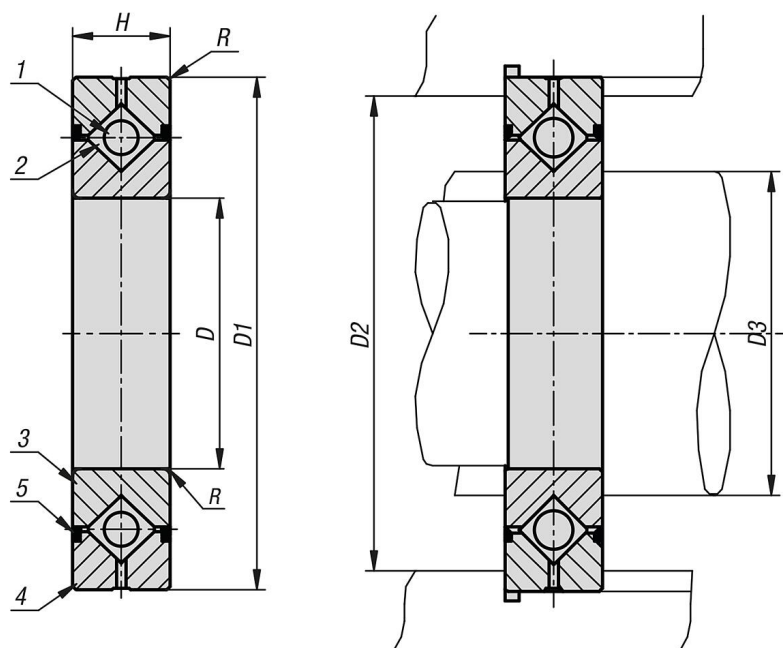
Technical data:

See Downloads, Technical Information.

Drawing reference:

- 1) Rollers
- 2) Spacer
- 3) Inner ring
- 4) Outer ring
- 5) Seal

Drawings



Overview of items

Order No.	Version 2	D	D1	H	R	D2	D3	Dynamic base loads kN	Static base loads kN
23831-002008	with stepper motor on the top	20	36	8	0,8	31	24	3,1	3,23
23831-002508	with stepper motor on the top	25	41	8	0,8	36	29	3,63	3,83
23831-003010	with stepper motor on the top	30	55	10	0,8	48,5	36,5	7,35	8,36
23831-003510	with stepper motor on the top	35	60	10	0,8	53,5	41,5	7,64	9,12
23831-004010	with stepper motor on the top	40	65	10	0,8	58,5	46,5	8,33	10,6
23831-004510	with stepper motor on the top	45	70	10	0,8	63,5	51,5	8,62	11,3
23831-005013	with stepper motor on the top	50	80	13	0,8	74	56	16,7	20,9
23831-006013	with stepper motor on the top	60	90	13	0,8	84	66	18	24,3
23831-007013	with stepper motor on the top	70	100	13	0,8	94	76	19,4	27,7
23831-008016	with stepper motor on the top	80	120	16	0,8	112	88	30,1	42,1
23831-009016	with stepper motor on the top	90	130	16	0,8	122	98	31,4	45,3
23831-102008	with stop	20	36	8	0,8	31	24	3,1	3,23
23831-102508	with stop	25	41	8	0,8	36	29	3,63	3,83
23831-103010	with stop	30	55	10	0,8	48,5	36,5	7,35	8,36
23831-103510	with stop	35	60	10	0,8	53,5	41,5	7,64	9,12
23831-104010	with stop	40	65	10	0,8	58,5	46,5	8,33	10,6
23831-104510	with stop	45	70	10	0,8	63,5	51,5	8,62	11,3
23831-105013	with stop	50	80	13	0,8	74	56	16,7	20,9
23831-106013	with stop	60	90	13	0,8	84	66	18	24,3
23831-107013	with stop	70	100	13	0,8	94	76	19,4	27,7
23831-108016	with stop	80	120	16	0,8	112	88	30,1	42,1
23831-109016	with stop	90	130	16	0,8	122	98	31,4	45,3