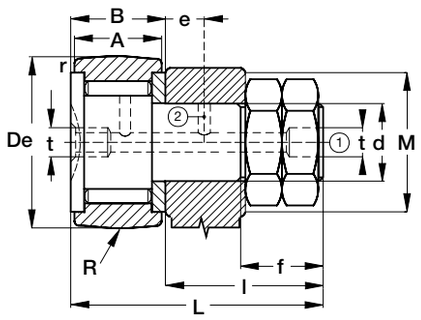
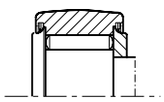
Cam followers with threaded stud GC

concentric

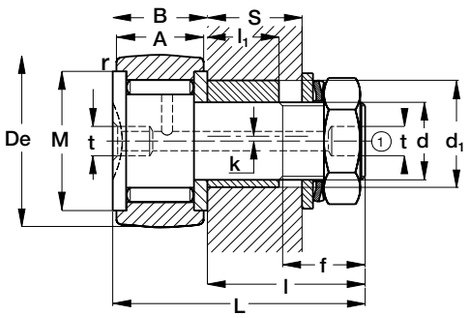
GC... series: without seals
GC...EE series: with plastic seals
GC...EEM series: with metal seals

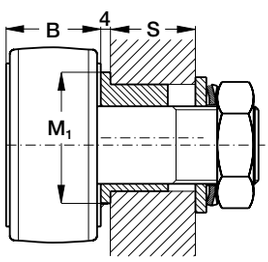




eccentric

GCR... series: without seals
GCR...EE series: with plastic seals
GCR...EEM series: with metal seals





Holes ① and ② from De = 30 mm

from **GCR 16** to **GCR 52**

from **GCR 62** to **GCR 90**

Type (1)		Dimensions (mm)																
(▶) concentric	eccentric	De	A	B max	d	d_1 (8)	k	L max	l max	f	step	r min	t	e	M (7)	M_1	P (2)	l_1
GC 10	**–**	10	8	8.5	4	-	-	19.5	11	6	0.7	0.2	-	-	8.4	-	-	-
GC 11	**–**	11	8	8.5	4	-	-	19.5	11	6	0.7	0.2	-	-	8.4	-	-	-
GC 12	**–**	12	9	9.5	5	-	-	22.5	13	7	0.8	0.2	-	-	10.3	-	-	-
GC 13	**–**	13	9	9.5	5	-	-	22.5	13	7	0.8	0.2	-	-	10.3	-	-	-
GC 14	**–**	14	9	10	6	-	-	26	16	8	1	0.3	-	-	11.8	-	-	-
GC 15	**–**	15	9	10	6	-	-	26	16	8	1	0.3	-	-	11.8	-	-	-
GC 16	**GCR 16**	16	11	12.2	6	9	0.5	28.7	16.5	8	1	0.3	4	-	13.3	-	-	8
GC 19	**GCR 19**	19	11	12.2	8	11	0.5	32.7	20.5	10	1.25	0.3	4	-	15.3	-	-	10
GC 22	**GCR 22**	22	12	13.2	10	14	1	36.7	23.5	12	1.25*	0.3	4	-	18.2	-	-	11
GC 24	**GCR 24**	24	12	13.2	10	14	1	36.7	23.5	12	1.25*	0.3	4	-	18.2	-	-	11
GC 26	**GCR 26**	26	12	13.2	10	14	1	36.7	23.5	12	1.25*	0.3	4	-	20.8	-	-	11
GC 28	**GCR 28**	28	12	13.2	10	14	1	36.7	23.5	12	1.25*	0.3	4	-	20.8	-	-	11
GC 30	**GCR 30**	30	14	15.2	12	16	1	40.7	25.5	13	1.5	0.6	**	6	24.8	-	8	11
GC 32	**GCR 32**	32	14	15.2	12	16	1	40.7	25.5	13	1.5	0.6	**	6	24.8	-	8	11
GC 35	**GCR 35**	35	18	19.6	16	21	1.5	52.6	33	17	1.5	0.6	6	8	28.8	-	10	14
GC 40	**GCR 40**	40	20	21.6	18	24	1.5	58.6	37	19	1.5	1	6	8	33.8	-	12	16
GC 47	**GCR 47**	47	24	25.6	20	27	2	66.6	41	21	1.5	1	6	9	38.7	-	14	17.5
GC 52	**GCR 52**	52	24	25.6	20	27	2	66.6	41	21	1.5	1	6	9	38.7	-	14	17.5
GC 62	**GCR 62**	62	29	30.6	24	36	3	80.6	50	25	1.5	1	6	11	52	44	12	18
GC 72	**GCR 72**	72	29	30.6	24	36	3	80.6	50	25	1.5	1	6	11	52	44	12	18
GC 80	**GCR 80**	80	35	37	30	42	3	100.5	63.5	32	1.5	1	8	15	68	50	14	27
GC 85	**GCR 85**	85	35	37	30	42	3	100.5	63.5	32	1.5	1	8	15	68	50	14	27
GC 90	**GCR 90**	90	35	37	30	42	3	100.5	63.5	32	1.5	1	8	15	68	50	14	27

* These threads may be supplied with the old pitch of 1 mm (clamping torque 13 Nm).

** t = 6 mm for followers 30 and 32 with screw driver slot.
t = 4 mm for followers 30 and 32 with hexagonal socket.
Housing bore tolerance H7

▶ Seals EE and EEM type available from size GC 16.

Cam followers with threaded stud GC

1) Under the suffix ...AK, NADELLA can supply on request followers with cylindrical outer ring GCL, GCL...EE, GCL...EEM, possessing a screw driver slot at the threaded end of the stud.

2) Followers with outer diameter up to 28 mm possess a screw driver slot.
Followers with outer diameter 30 to 52 mm possess a screw driver slot or hexagonal socket at the discretion of NADELLA, except where one or other type has been specifically requested.
Followers with outer diameter above 52 mm possess an hexagonal socket.

3) These capacities are to be used for all types when the cylindrical or convex outer ring rotates directly on a cam. They take account of the repetitive loads on the follower and consequent elastic deformation of the outer ring.

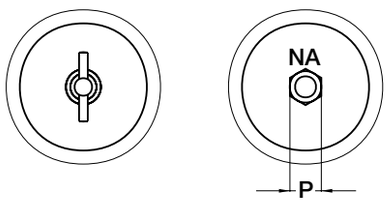
4) The load shown is limited by the stregths of the stud or outer ring.

5) With oil lubrication of followers without seals GC or GCL types, these speeds can be increased by 30% for continuous rotation or, up to 50% momentarily.

6) These torques are shown for dry threads. For lubricated threads, take 0.7 to 0.8 of these values.

7) Minimum recommended abutment diameter.

8) The eccentric collar is tightly fitted on the stud.



S		R	Basic capacities (3) Dyn. Cg NADELLA N	Limit loads (4) (N)				Speed limits grease lubricaiton (5) r.p.m.	Clamping torque (6) (Nm)	
				GC...		GCR...				
min	max			Dyn. F	Sta. Fo	Dyn. F	Sta. Fo		GC...	GCR...
-	-	130	2 130	520	960	-	-	13 800	0.9	-
-	-	130	2 480	520	960	-	-	13 800	0.9	-
-	-	130	2 980	900	1 680	-	-	11 400	1.8	-
-	-	130	3 350	900	1 680	-	-	11 400	1.8	-
-	-	130	3 500	1 480	2 750	-	-	10 100	3	-
-	-	130	3 750	1 480	2 750	-	-	10 100	3	-
8.5	10	160	5 050	1 180	2 200	1 180	2 000	9 300	3	2
10.5	13	160	5 750	2 830	5 200	2 830	4 500	7 600	8	5
11.5	14	200	6 300	4 900	8 100	4 900	5 600	6 300	20	16
11.5	14	200	6 900	5 200	9 200	5 200	5 600	6 300	20	16
11.5	14	200	8 900	5 200	9 600	5 200	6 100	5 500	20	16
11.5	14	200	9 600	5 200	9 600	5 200	6 100	5 500	20	16
11.5	14.5	250	12 900	7 700	14 300	7 700	10 400	4 800	26	22
11.5	14.5	250	13 800	7 700	14 300	7 700	10 400	4 800	26	22
14.5	19	320	19 200	11 400	24 000	11 000	11 000	3 850	64	55
16.5	22	400	20 000	14 200	27 000	12 300	12 300	3 150	90	75
18	25	500	28 300	21 400	40 000	21 400	23 700	2 700	120	100
18	25	500	34 000	21 400	40 000	21 400	23 700	2 700	120	100
18.5	25.5	640	42 000	31 000	57 500	28 800	28 800	2 330	220	180
18.5	25.5	640	44 000	31 000	57 500	28 800	28 800	2 330	220	180
27.5	36	800	60 000	50 000	93 000	50 000	54 000	1 700	450	370
27.5	36	800	64 000	50 000	93 000	50 000	54 000	1 700	450	370
27.5	36	800	65 000	50 000	93 000	50 000	54 000	1 700	450	370

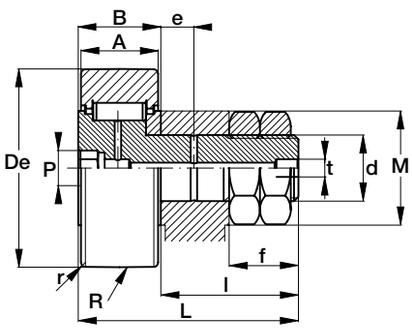
- On request cam follower can be supplied in stainless steel (suffix **NX**).

- Contact NADELLA technical department for basic capacities and limit load for stainless steel version (suffix **NX**).

Roller cam followers with threaded stud GCU

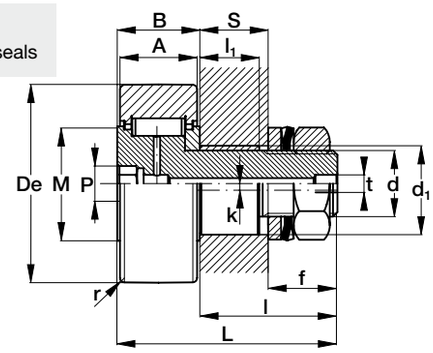
concentric

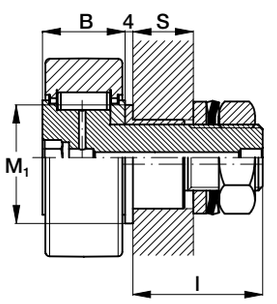
GCU
GCU…MM series: with metal seals



eccentric

GCUR
GCUR…MM series: with metal seals





from **GCUR 62** to **GCUR 130**

Type (1)		Dimensions (mm)																
concentric	eccentric	De	A	B max	d	d_1 (6)	k	L max	l max	f	step	r min	t	e	M (5)	M_1	P	l_1
GCU 35	**GCUR 35**	35	18	19.7	16	21	1.5	52.5	32.8	17	1.5	0.6	6	8	26	-	10	14
GCU 40	**GCUR 40**	40	20	21.7	18	24	1.5	58.5	36.8	19	1.5	1	6	8	28.6	-	12	16
GCU 47	**GCUR 47**	47	24	25.7	20	27	2	66.5	40.8	21	1.5	1	6	9	33.6	-	14	17.5
GCU 52	**GCUR 52**	52	24	25.7	20	27	2	66.5	40.8	21	1.5	1	6	9	33.6	-	14	17.5
GCU 62	**GCUR 62**	62	29	30.7	24	36	3	80.5	49.8	25	1.5	2	6	11	38.9	44	12	18
GCU 72	**GCUR 72**	72	29	30.7	24	36	3	80.5	49.8	25	1.5	1.1	6	11	38.9	44	12	18
GCU 80	**GCUR 80**	80	35	37.2	30	42	3	100.5	63.3	32	1.5	1.1	8	15	51.8	50	14	27
GCU 85	**GCUR 85**	85	35	37.2	30	42	3	100.5	63.3	32	1.5	1.1	8	15	51.8	50	14	27
GCU 90	**GCUR 90**	90	35	37.2	30	42	3	100.5	63.3	32	1.5	1.1	8	15	51.8	50	14	27
GCU 100	**GCUR 100**	100	40	42.2	36	48	3	117.5	75.3	38	3	2	8	20	61	56	17	32
GCU 110	**GCUR 110**	110	40	42.2	36	48	3	117.5	75.3	38	3	2	8	20	61	56	17	32
GCU 120	**GCUR 120**	120	46	48.2	42	54	3	136.5	88.3	44	3	2	8	24	71	62	19	39
GCU 130	**GCUR 130**	130	46	48.2	42	54	3	136.5	88.3	44	3	2	8	24	71	62	19	39

Housing bore tolerance H7.

Roller cam followers with threaded stud GCU

1) Under the suffix ...AK, NADELLA can supply on request followers with cylindrical outer ring GCUL...MM, possessing a screw driver slot at the threaded end of the stud.

2) These capacities are to be used for all types when the cylindrical or convex outer ring rotates directly on a cam. They take account of the repetitive loads on the follower and consequent elastic deformation of the outer ring.

3) The load shown is limited by the strengths of the stud or outer ring.

4) These torques are shown for dry thrads. For lubricated threads, take 0.7 to 0.8 of these values.

5) Minimum recommended abutment diameter.

6) The eccentric collar is tightly fitted on the stud.

S		R	Basic capacities (2) Dyn. Cg NADELLA N	Limit loads (3) (N)				Speed limits grease lubrication r.p.m	Clamping torque (4) (Nm)	
				GCU...		GCUR...				
min	max			Dyn. F	Sta. Fo	Dyn. F	Sta. Fo		GCU...	GCUR...
14.5	19	320	17 000	7 800	17 200	7 800	10 000	5 700	64	55
16.5	22	400	20 000	11 500	22 000	10 900	10 900	5 200	90	75
18	25	500	29 500	15 500	33 000	15 500	21 300	4 350	120	100
18	25	500	36 500	21 500	40 000	21 300	21 300	4 350	120	100
18.5	25.5	640	52 000	31 000	58 000	28 800	28 800	3 650	220	180
18.5	25.5	640	63 000	31 000	58 000	28 800	28 800	3 650	220	180
27.5	36	800	76 000	48 000	93 000	48 000	54 000	2 730	450	370
27.5	36	800	86 000	50 000	93 000	50 000	54 000	2 730	450	370
27.5	36	800	94 000	50 000	93 000	50 000	54 000	2 730	450	370
32.5	41	1 000	115 000	76 000	142 000	76 000	83 000	2 300	740	610
32.5	41	1 000	129 000	76 000	142 000	76 000	83 000	2 300	740	610
39.5	48	1 200	150 000	120 000	200 000	120 000	130 000	1 990	1 200	1 000
39.5	48	1 200	163 000	121 000	223 000	121 000	130 000	1 990	1 200	1 000