

Ролики направляющие и кулачковые

Технические характеристики

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General Information

CAM FOLLOWERS

PRODUCT DESCRIPTION

INA Yoke Type Track Rollers

- Available in designs to meet ISO, popular metric and inch series cross sections.
- Metric product with crowned OD standard and available with cylindrical OD.
- Inch product with cylindrical OD standard and available with crowned OD.
- Designed with outer races to act as tires independent of rigid housings, effective load ratings include reverse bending stress allowances.
- Available with needle roller complement, cylindrical roller complements and ball complements to match machine needs.
- Available with sliding or rolling thrust contact or without axial guidance.
- Sealed versions include gap, labyrinth and contact types.
- Available with reduced runout.
- Relubrication groove in inner ring bore.

INA Stud Type Cam Followers

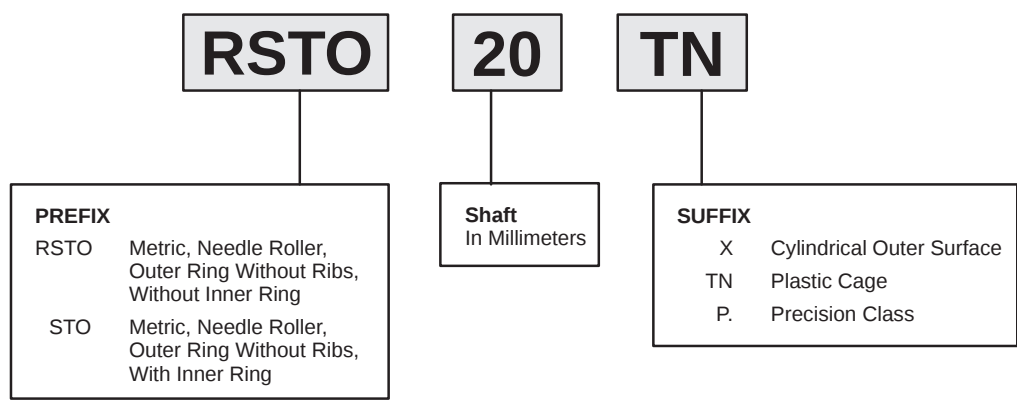
- Available in designs to meet ISO, popular metric and inch series cross sections.
- Metric product with crowned OD standard and available with cylindrical OD.
- Inch product with cylindrical OD standard and available with crowned OD.
- Designed with outer races to act as tires independent of rigid housings, effective load ratings include reverse bending stress allowances.
- Available with needle roller or cylindrical roller complements.
- Available with sliding or rolling thrust contact or without axial guidance.
- Sealed versions include gap, labyrinth and contact types.
- Available with reduced runout.
- Available with eccentric sleeves for adjusting the center of action.

Part Number Identification

CAM FOLLOWERS

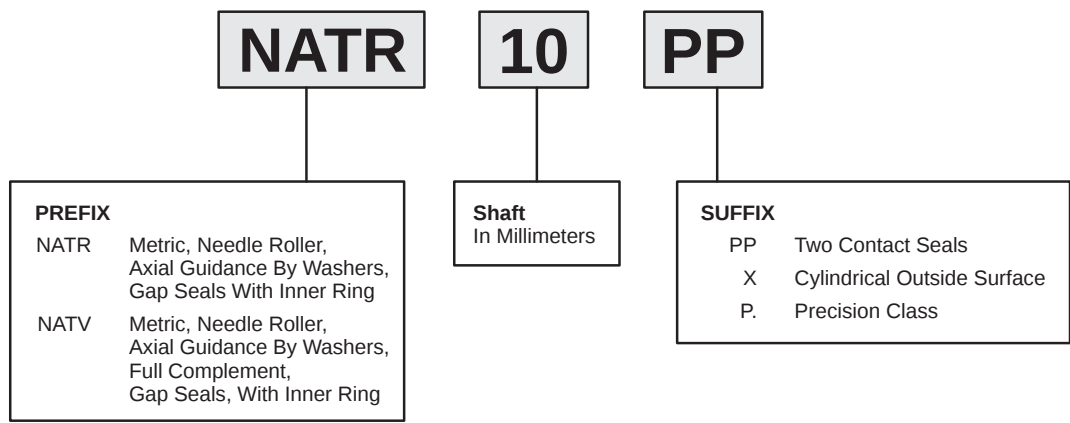
YOKE TYPE TRACK ROLLERS WITHOUT AXIAL GUIDANCE

RSTO, STO



YOKE TYPE TRACK ROLLERS WITH AXIAL GUIDANCE

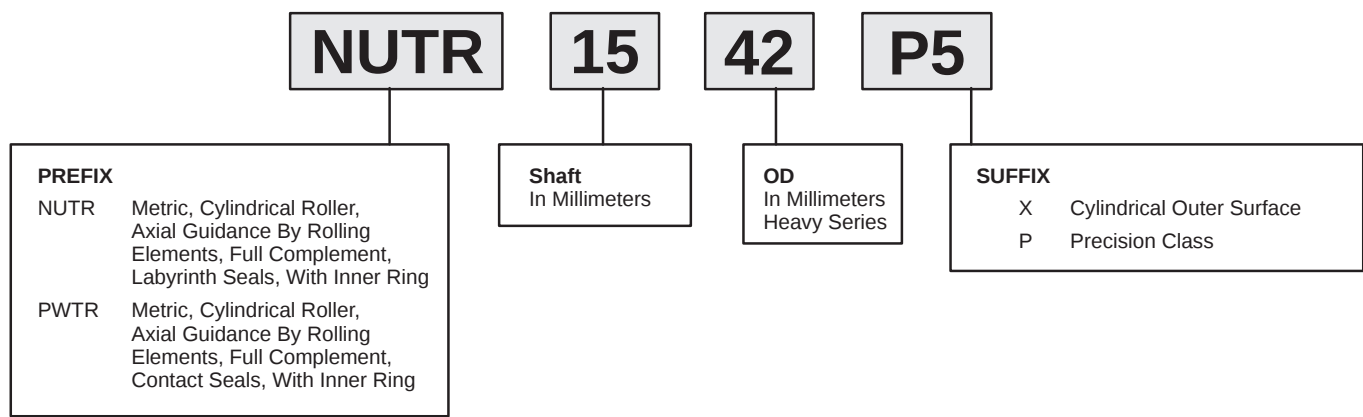
NATR, NATV



Part Number Identification

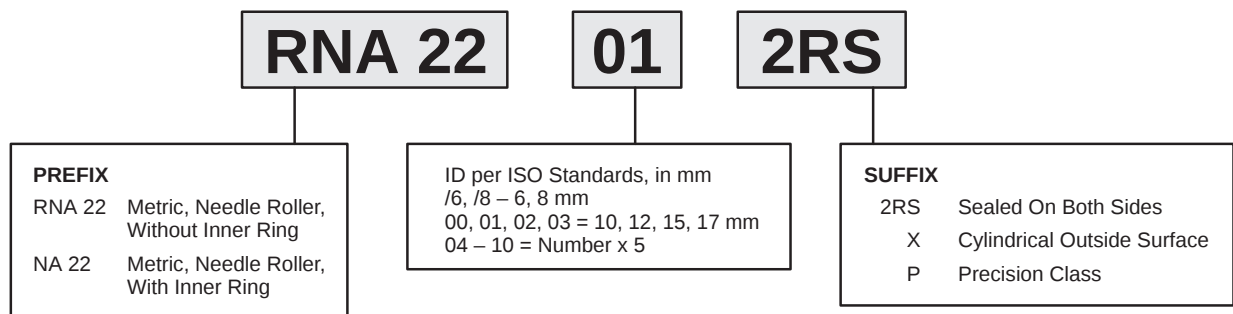
CAM FOLLOWERS

YOKE TYPE TRACK ROLLERS WITH AXIAL GUIDANCE



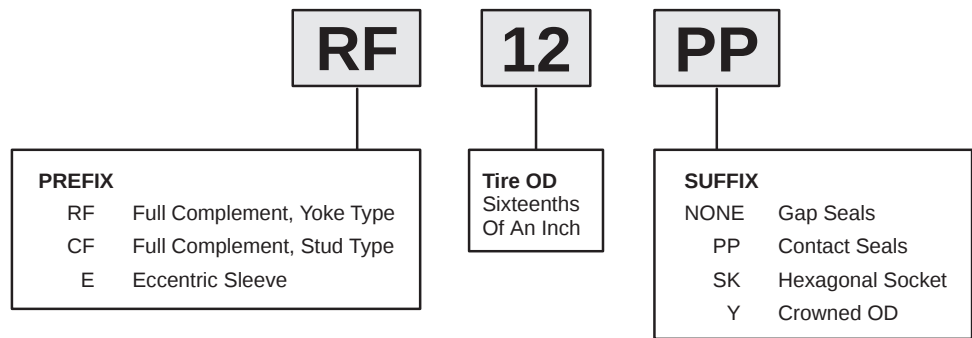
YOKE TYPE TRACK ROLLERS WITHOUT AXIAL GUIDANCE / SEALED

RNA 22, NA 22



YOKE / STUD TYPE CAM FOLLOWERS INCH SERIES

RF, CF

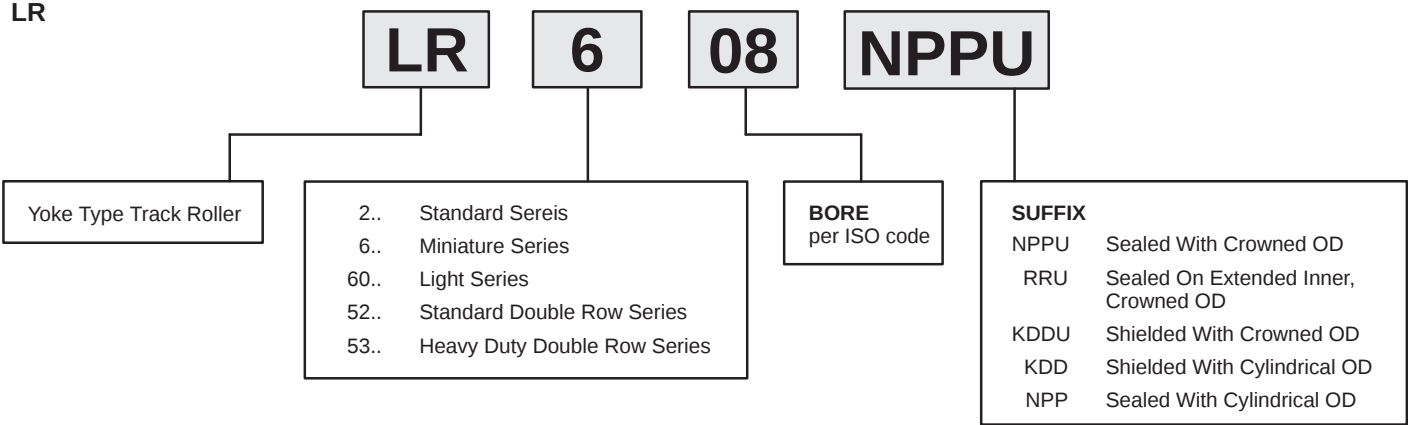


Part Number Identification

CAM FOLLOWERS

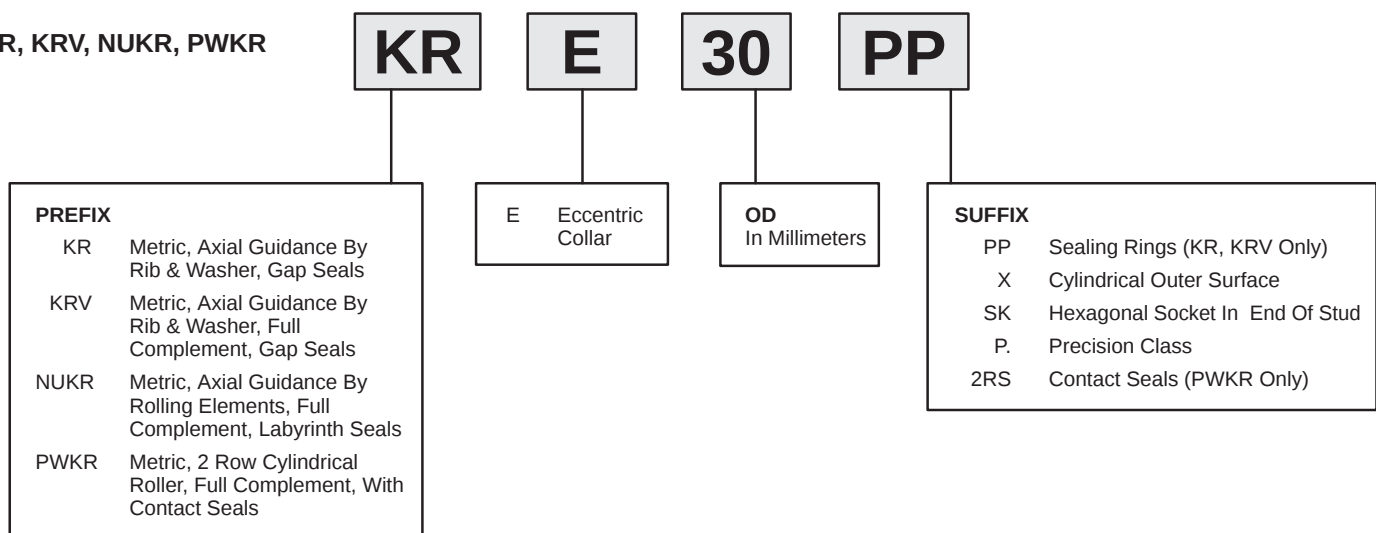
YOKE TYPE TRACK ROLLER BALL BEARING TYPE ELEMENT

LR



STUD TYPE CAM FOLLOWERS NEEDLE & CYLINDRICAL ROLLER TYPE ELEMENT

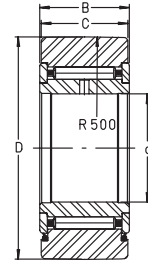
KR, KRV, NUKR, PWKR



Yoke Type Cam Follower Selector

INCH AND METRIC SERIES

- Sorted by roller OD
- Series specific details can be found on subsequent pages.
Please refer to Section Contents or Index for the correct page numbers.



NATR SHOWN FOR DIMENSION REFERENCE ONLY

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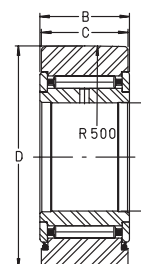
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	SPEED LIMIT rpm
LR604NPPU	0.158	4	0.512	13	0.158	4	0.158	4	40,000
LR605KDDU	0.197	5	0.630	16	0.197	5	0.197	5	38,000
LR605NPPU	0.197	5	0.630	16	0.197	5	0.197	5	38,000
NATR 5	0.197	5	0.630	16	0.472	12	0.433	11	22,000
NATV 5	0.197	5	0.630	16	0.472	12	0.433	11	8,500
LR50/5NPPU	0.197	5	0.669	17	0.276	7	0.276	7	23,500
LR50/6NPPU	0.236	6	0.748	19	0.354	9	0.354	9	22,500
LR606KDDU	0.236	6	0.748	19	0.236	6	0.236	6	36,000
LR606NPPU	0.236	6	0.748	19	0.236	6	0.236	6	36,000
NATR 6	0.236	6	0.748	19	0.472	12	0.433	11	20,000
NATV 6	0.236	6	0.748	19	0.472	12	0.433	11	7,000
STO 6 TN	0.236	6	0.748	19	0.394	10	0.386	9.8	26,000
RF12	0.250	6.350	0.750	19.050	0.563	14.288	0.500	12.7	6,000
LR50/7NPPU	0.276	7	0.866	22	0.394	10	0.394	10	21,000
LR607KDDU	0.276	7	0.866	22	0.236	6	0.236	6	34,000
LR607NPPU	0.276	7	0.866	22	0.236	6	0.236	6	34,000
RF14	0.250	6.350	0.875	22.225	0.563	14.288	0.500	12.7	6,000
LR50/8NPPU	0.315	8	0.945	24	0.433	11	0.433	11	20,000
LR608KDDU	0.315	8	0.945	24	0.276	7	0.276	7	32,000
LR608NPPU	0.315	8	0.945	24	0.276	7	0.276	7	32,000
NATR 8	0.315	8	0.945	24	0.591	15	0.551	14	15,000
NATV 8	0.315	8	0.945	24	0.591	15	0.551	14	5,500
STO 8 TN	0.315	8	0.945	24	0.394	10	0.386	9.8	20,800
RF16	0.313	7.938	1.000	25.400	0.688	17.463	0.625	15.875	5,000
LR5000NPPU	0.394	10	1.102	28	0.472	12	0.472	12	18,500
LR6000 NPPU	0.394	10	1.102	28	0.315	8	0.315	8	28,000
RF18	0.313	7.937	1.125	28.575	0.687	17.460	0.625	15.875	5,000
NATR 10	0.394	10	1.181	30	0.591	15	0.551	14	11,000
NATV 10	0.394	10	1.181	30	0.591	15	0.551	14	4,500
STO 10	0.394	10	1.181	30	0.472	12	0.465	11.8	14,300
LR5001NPPU	0.472	12	1.181	30	0.472	12	0.472	12	17,500
LR6001 NPPU	0.472	12	1.181	30	0.315	8	0.315	8	26,000
RF20	0.375	9.525	1.250	31.750	0.813	20.638	0.750	19.05	4,400
LR200KDD	0.394	10	1.260	32	0.354	9	0.354	9	16,000
LR200NPP	0.394	10	1.260	32	0.354	9	0.354	9	16,000
LR200NPPU	0.394	10	1.260	32	0.354	9	0.354	9	16,000
LR5200KDD	0.394	10	1.260	32	0.551	14	0.551	14	16,000
LR5200KDDU	0.394	10	1.260	32	0.551	14	0.551	14	16,000
LR5200NPPU	0.394	10	1.260	32	0.551	14	0.551	14	16,000
NATR 12	0.472	12	1.260	32	0.591	15	0.551	14	9,000
NATV 12	0.472	12	1.260	32	0.591	15	0.551	14	3,900
STO 12	0.472	12	1.260	32	0.472	12	0.465	11.8	11,700
RF22	0.375	9.525	1.375	34.925	0.813	20.638	0.750	19.05	4,400
LR201NPP	0.472	12	1.378	35	0.394	10	0.394	10	15,000
LR201NPPU	0.472	12	1.378	35	0.394	10	0.394	10	15,000
LR201RR	0.472	12	1.378	35	0.591	15	0.394	10	15,000



Yoke Type Cam Follower Selector

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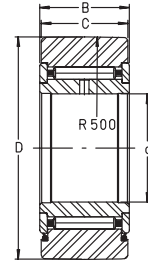
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	SPEED LIMIT rpm
LR201RRU	0.472	12	1.378	35	0.591	15	0.394	10	15,000
LR5201KDD	0.472	12	1.378	35	0.626	15.9	0.626	15.9	15,000
LR5201KDDU	0.472	12	1.378	35	0.626	15.9	0.626	15.9	15,000
LR5201NPPU	0.472	12	1.378	35	0.626	15.9	0.626	15.9	15,000
LR5002NPPU	0.591	15	1.378	35	0.512	13	0.512	13	14,500
LR6002 NPPU	0.591	15	1.378	35	0.354	9	0.354	9	22,000
NATR 15	0.591	15	1.378	35	0.748	19	0.709	18	7,000
NATV 15	0.591	15	1.378	35	0.748	19	0.709	18	3,400
NUTR 15	0.591	15	1.378	35	0.748	19	0.709	18	6,500
PWTR 15 2RS	0.591	15	1.378	35	0.748	19	0.709	18	6,000
STO 15	0.591	15	1.378	35	0.472	12	0.465	11.8	8,450
RF24	0.438	11.113	1.500	38.100	0.937	23.810	0.875	22.225	3,400
LR202NPP	0.591	15	1.575	40	0.433	11	0.433	11	14,000
LR202NPPU	0.591	15	1.575	40	0.433	11	0.433	11	14,000
LR202RR	0.591	15	1.575	40	0.567	14.4	0.433	11	14,000
LR202RRU	0.591	15	1.575	40	0.567	14.4	0.433	11	14,000
LR5202KDD	0.591	15	1.575	40	0.626	15.9	0.626	15.9	14,000
LR5202KDDU	0.591	15	1.575	40	0.626	15.9	0.626	15.9	14,000
LR5202NPPU	0.591	15	1.575	40	0.626	15.9	0.626	15.9	14,000
LR5003NPPU	0.669	17	1.575	40	0.551	14	0.551	14	12,500
LR6003 NPPU	0.669	17	1.575	40	0.394	10	0.394	10	19,000
NATR 17	0.669	17	1.575	40	0.827	21	0.787	20	6,000
NATV 17	0.669	17	1.575	40	0.827	21	0.787	20	2,900
NUTR 17	0.669	17	1.575	40	0.827	21	0.787	20	5,500
PWTR 17 2RS	0.669	17	1.575	40	0.827	21	0.787	20	5,000
STO 17	0.669	17	1.575	40	0.630	16	0.622	15.8	7,150
RF26	0.438	11.113	1.625	41.275	0.937	23.810	0.875	22.225	3,400
LR5301NPPU	0.472	12	1.654	42	0.748	19	0.748	19	10,500
NUTR 15 42	0.591	15	1.654	42	0.748	19	0.709	18	6,500
PWTR 15 42 2RS	0.591	15	1.654	42	0.748	19	0.709	18	6,000
RF28	0.500	12.700	1.750	44.450	1.063	26.990	1.000	25.4	2,700
LR5302NPPU	0.591	15	1.850	47	0.748	19	0.748	19	10,000
LR203NPP	0.669	17	1.850	47	0.472	12	0.472	12	11,000
LR203NPPU	0.669	17	1.850	47	0.472	12	0.472	12	11,000
LR203RR	0.669	17	1.850	47	0.721	18.3	0.472	12	11,000
LR203RRU	0.669	17	1.850	47	0.721	18.3	0.472	12	11,000
LR5203KDD	0.669	17	1.850	47	0.689	17.5	0.689	17.5	11,000
LR5203KDDU	0.669	17	1.850	47	0.689	17.5	0.689	17.5	11,000
LR5203NPPU	0.669	17	1.850	47	0.689	17.5	0.689	17.5	11,000
NUTR 17 47	0.669	17	1.850	47	0.827	21	0.787	20	5,500
PWTR 17 47 2RS	0.669	17	1.850	47	0.827	21	0.787	20	5,000
LR5004NPPU	0.787	20	1.850	47	0.630	16	0.630	16	11,000
LR6004 NPPU	0.787	20	1.850	47	0.472	12	0.472	12	17,000
NATR 20	0.787	20	1.850	47	0.984	25	0.945	24	4,900
NATV 20	0.787	20	1.850	47	0.984	25	0.945	24	2,600
NUTR 20	0.787	20	1.850	47	0.984	25	0.945	24	4,200



Yoke Type Cam Follower Selector

INCH AND METRIC SERIES

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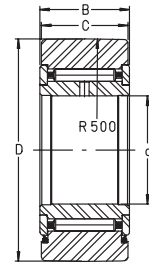
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	SPEED LIMIT rpm
PWTR 20 2RS	0.787	20	1.850	47	0.984	25	0.945	24	3,800
STO 20	0.787	20	1.850	47	0.630	16	0.622	15.8	6,110
RF30	0.500	12.700	1.875	47.625	1.063	26.990	1.000	25.4	2,700
RF32	0.625	15.875	2.000	50.800	1.313	33.340	1.250	31.75	2,300
LR5203NPPU	0.669	17	2.047	52	0.874	22.2	0.874	22.2	9,500
LR204NPP	0.787	20	2.047	52	0.551	14	0.551	14	10,000
LR204NPPU	0.787	20	2.047	52	0.551	14	0.551	14	10,000
LR204RR	0.787	20	2.047	52	0.697	17.7	0.551	14	10,000
LR204RRU	0.787	20	2.047	52	0.697	17.7	0.551	14	10,000
LR5204KDD	0.787	20	2.047	52	0.811	20.6	0.811	20.6	10,000
LR5204KDDU	0.787	20	2.047	52	0.811	20.6	0.811	20.6	10,000
LR5204NPPU	0.787	20	2.047	52	0.811	20.6	0.811	20.6	10,000
NUTR 20 52	0.787	20	2.047	52	0.984	25	0.945	24	4,200
PWTR 20 52 2RS	0.787	20	2.047	52	0.984	25	0.945	24	3,800
LR5005NPPU	0.984	25	2.047	52	0.630	16	0.630	16	9,500
NATR 25	0.984	25	2.047	52	0.984	25	0.945	24	3,600
NATV 25	0.984	25	2.047	52	0.984	25	0.945	24	2,100
NUTR 25	0.984	25	2.047	52	0.984	25	0.945	24	3,400
PWTR 25 2RS	0.984	25	2.047	52	0.984	25	0.945	24	3,800
STO 25	0.984	25	2.047	52	0.630	16	0.622	15.8	4,680
RF36	0.625	15.875	2.250	57.150	1.313	33.340	1.250	31.75	2,300
LR5304KDD	0.787	20	2.441	62	0.874	22.2	0.874	22.2	9,000
LR5304KDDU	0.787	20	2.441	62	0.874	22.2	0.874	22.2	9,000
LR5304NPPU	0.787	20	2.441	62	0.874	22.2	0.874	22.2	9,000
LR205NPP	0.984	25	2.441	62	0.591	15	0.591	15	9,000
LR205NPPU	0.984	25	2.441	62	0.591	15	0.591	15	9,000
LR205RR	0.984	25	2.441	62	0.827	21	0.591	15	9,000
LR205RRU	0.984	25	2.441	62	0.827	21	0.591	15	9,000
LR5205KDD	0.984	25	2.441	62	0.811	20.6	0.811	20.6	9,000
LR5205KDDU	0.984	25	2.441	62	0.811	20.6	0.811	20.6	9,000
LR5205NPPU	0.984	25	2.441	62	0.811	20.6	0.811	20.6	9,000
NUTR 25 62	0.984	25	2.441	62	0.984	25	0.945	24	3,400
PWTR 25 62 2RS	0.984	25	2.441	62	0.984	25	0.945	24	3,800
LR5006NPPU	1.181	30	2.441	62	0.748	19	0.748	19	8,000
NATR 30	1.181	30	2.441	62	1.142	29	1.102	28	2,600
NATV 30	1.181	30	2.441	62	1.142	29	1.102	28	1,700
NUTR 30	1.181	30	2.441	62	1.142	29	1.102	28	2,600
PWTR 30 2RS	1.181	30	2.441	62	1.142	29	1.102	28	2,200
STO 30	1.181	30	2.441	62	0.787	20	0.780	19.8	3,250
RF40	0.750	19.050	2.500	63.500	1.563	39.690	1.500	38.1	2,000
LR5007NPPU	1.378	35	2.677	68	0.787	20	0.787	20	6,600
RF44	0.750	19.050	2.750	69.850	1.563	39.690	1.500	38.1	2,000
LR5305KDD	0.984	25	2.835	72	1.000	25.4	1.000	25.4	7,900
LR5305KDDU	0.984	25	2.835	72	1.000	25.4	1.000	25.4	7,900
LR5305NPPU	0.984	25	2.835	72	1.000	25.4	1.000	25.4	7,900
LR206NPP	1.181	30	2.835	72	0.630	16	0.630	16	7,100



Yoke Type Cam Follower Selector

INCH AND METRIC SERIES

- Sorted by roller OD
- Series specific details can be found on subsequent pages.
Please refer to Section Contents or Index for the correct page numbers.



NATR SHOWN FOR DIMENSION REFERENCE ONLY

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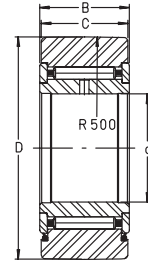
PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	SPEED LIMIT rpm
LR206NPPU	1.181	30	2.835	72	0.630	16	0.630	16	7,100
LR206RR	1.181	30	2.835	72	0.945	24	0.630	16	7,100
LR206RRU	1.181	30	2.835	72	0.945	24	0.630	16	7,100
LR5206KDD	1.181	30	2.835	72	0.937	23.8	0.937	23.8	7,100
LR5206KDDU	1.181	30	2.835	72	0.937	23.8	0.937	23.8	7,100
LR5206NPPU	1.181	30	2.835	72	0.937	23.8	0.937	23.8	7,100
NUTR 30 72	1.181	30	2.835	72	1.142	29	1.102	28	2,600
PWTR 30 72 2RS	1.181	30	2.835	72	1.142	29	1.102	28	2,200
NATR 35	1.378	35	2.835	72	1.142	29	1.102	28	2,000
NATV 35	1.378	35	2.835	72	1.142	29	1.102	28	1,400
NUTR 35	1.378	35	2.835	72	1.142	29	1.102	28	2,100
PWTR 35 2RS	1.378	35	2.835	72	1.142	29	1.102	28	1,800
STO 35	1.378	35	2.835	72	0.787	20	0.780	19.8	2,860
RF48	1.000	25.400	3.000	76.200	1.813	46.040	1.750	44.45	1,600
LR5306NPPU	1.181	30	3.150	80	1.189	30.2	1.189	30.2	6,200
LR207NPP	1.378	35	3.150	80	0.669	17	0.669	17	5,600
LR207NPPU	1.378	35	3.150	80	0.669	17	0.669	17	5,600
LR207RR	1.378	35	3.150	80	0.984	25	0.669	17	5,600
LR207RRU	1.378	35	3.150	80	0.984	25	0.669	17	5,600
LR5207KDD	1.378	35	3.150	80	1.063	27	1.063	27	5,600
LR5207KDDU	1.378	35	3.150	80	1.063	27	1.063	27	5,600
LR5207NPPU	1.378	35	3.150	80	1.063	27	1.063	27	5,600
NUTR 35 80	1.378	35	3.150	80	1.142	29	1.102	28	2,100
PWTR 35 80 2RS	1.378	35	3.150	80	1.142	29	1.102	28	1,800
NATR 40	1.575	40	3.150	80	1.260	32	1.181	30	1,700
NATV 40	1.575	40	3.150	80	1.260	32	1.181	30	1,300
NUTR 40	1.575	40	3.150	80	1.260	32	1.181	30	1,600
PWTR 40 2RS	1.575	40	3.150	80	1.260	32	1.181	30	1,500
STO 40	1.575	40	3.150	80	0.787	20	0.780	19.8	2,210
RF52	1.000	25.400	3.250	82.550	1.813	46.040	1.750	44.45	1,600
LR208NPP	1.575	40	3.347	85	0.709	18	0.709	18	5,000
LR208NPPU	1.575	40	3.347	85	0.709	18	0.709	18	5,000
LR208RR	1.575	40	3.347	85	1.063	27	0.709	18	5,000
LR208RRU	1.575	40	3.347	85	1.063	27	0.709	18	5,000
LR5208KDD	1.575	40	3.347	85	1.189	30.2	1.189	30.2	5,000
LR5208KDDU	1.575	40	3.347	85	1.189	30.2	1.189	30.2	5,000
LR5208NPPU	1.575	40	3.347	85	1.189	30.2	1.189	30.2	5,000
NATR 45	1.772	45	3.347	85	1.260	32	1.181	30	1,500
NUTR 45	1.772	45	3.347	85	1.260	32	1.181	30	1,400
PWTR 45 2RS	1.772	45	3.347	85	1.260	32	1.181	30	1,300
STO 45	1.772	45	3.347	85	0.787	20	0.780	19.8	1,950
RF56	1.125	28.575	3.500	88.900	2.063	52.390	2.000	50.8	1,400
LR5307KDD	1.378	35	3.543	90	1.374	34.9	1.374	34.9	5,100
LR5307KDDU	1.378	35	3.543	90	1.374	34.9	1.374	34.9	5,100
LR5307NPPU	1.378	35	3.543	90	1.374	34.9	1.374	34.9	5,100
NUTR 40 90	1.575	40	3.543	90	1.260	32	1.181	30	1,600



Yoke Type Cam Follower Selector

INCH AND METRIC SERIES

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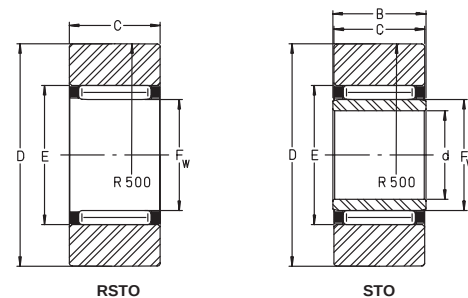
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	SPEED LIMIT rpm
PWTR 40 90 2RS	1.575	40	3.543	90	1.260	32	1.181	30	1,500
LR209NPP	1.772	45	3.543	90	0.748	19	0.748	19	4,500
LR209NPPU	1.772	45	3.543	90	0.748	19	0.748	19	4,500
NATR 50	1.969	50	3.543	90	1.260	32	1.181	30	1,300
NATV 50	1.969	50	3.543	90	1.260	32	1.181	30	1,000
NUTR 50	1.969	50	3.543	90	1.260	32	1.181	30	1,300
PWTR 50 2RS	1.969	50	3.543	90	1.260	32	1.181	30	1,100
STO 50	1.969	50	3.543	90	0.787	20	0.780	19.8	1,690
LR5308KDD	1.575	40	3.937	100	1.437	36.5	1.437	36.5	4,700
LR5308KDDU	1.575	40	3.937	100	1.437	36.5	1.437	36.5	4,700
LR5308NPPU	1.575	40	3.937	100	1.437	36.5	1.437	36.5	4,700
NUTR 45 100	1.772	45	3.937	100	1.260	32	1.181	30	1,400
PWTR 45 100 2RS	1.772	45	3.937	100	1.260	32	1.181	30	1,300
RF64	1.250	31.750	4.000	101.600	2.313	58.740	2.250	57.15	1,300
NUTR 50 110	1.969	50	4.331	110	1.260	32	1.181	30	1,300
PWTR 50 110 2RS	1.969	50	4.331	110	1.260	32	1.181	30	1,100
NNTR 50X130X65 2Z	1.969	50	5.118	130	2.559	65	2.480	63	1,100
NNTR 50X130X65 2ZL	1.969	50	5.118	130	2.559	65	2.480	63	1,100
NNTR 55X140X70 2Z	2.165	55	5.512	140	2.756	70	2.677	68	850
NNTR 55X140X70 2ZL	2.165	55	5.512	140	2.756	70	2.677	68	850
NNTR 60X150X75 2Z	2.362	60	5.906	150	2.953	75	2.874	73	800
NNTR 60X150X75 2ZL	2.362	60	5.906	150	2.953	75	2.874	73	800
NNTR 65X160X75 2Z	2.559	65	6.299	160	2.953	75	2.874	73	700
NNTR 65X160X75 2ZL	2.559	65	6.299	160	2.953	75	2.874	73	700
NNTR 70X180X85 2Z	2.756	70	7.087	180	3.347	85	3.268	83	600
NNTR 70X180X85 2ZL	2.756	70	7.087	180	3.347	85	3.268	83	600
NNTR 80X200X90 2Z	3.150	80	7.874	200	3.543	90	3.465	88	500
NNTR 80X200X90 2ZL	3.150	80	7.874	200	3.543	90	3.465	88	500
NNTR 90X220X100 2Z	3.543	90	8.661	220	3.937	100	3.858	98	400
NNTR 90X220X100 2ZL	3.543	90	8.661	220	3.937	100	3.858	98	400
NNTR 100X240X105 2Z	3.937	100	9.449	240	4.134	105	4.055	103	340
NNTR 100X240X105 2ZL	3.937	100	9.449	240	4.134	105	4.055	103	340
NNTR 110X260X115 2Z	4.331	110	10.236	260	4.528	115	4.449	113	300
NNTR 110X260X115 2ZL	4.331	110	10.236	260	4.528	115	4.449	113	300
NNTR 120X290X135 2Z	4.724	120	11.417	290	5.315	135	5.236	133	260
NNTR 120X290X135 2ZL	4.724	120	11.417	290	5.315	135	5.236	133	260
NNTR 130X310X146 2Z	5.118	130	12.205	310	5.748	146	5.669	144	240
NNTR 130X310X146 2ZL	5.118	130	12.205	310	5.748	146	5.669	144	240
NNTR 140X340X162 2Z	5.512	140	13.385	340	6.378	162	6.299	160	200
NNTR 140X340X162 2ZL	5.512	140	13.385	340	6.378	162	6.299	160	200
NNTR 150X360X173 2Z	5.906	150	14.173	360	6.811	173	6.732	171	180
NNTR 150X360X173 2ZL	5.906	150	14.173	360	6.811	173	6.732	171	180

Yoke Type Track Rollers

RSTO, STO SERIES

- Metric series
- Caged needle roller
- Available with cylindrical OD – suffix X
- Accepts no thrust



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER WITHOUT INNER RING	PART NUMBER WITH INNER RING	SHAFT d	SHAFT d	OD D	OD D	WIDTH INNER B	WIDTH INNER B	WIDTH OUTER C	WIDTH OUTER C	TRACK DYN. CAP. C _w	TRACK DYN. CAP. C _w	TRACK STAT. CAP. C _{0w}	TRACK STAT. CAP. C _{0w}
		inch	mm	inch	mm	inch	mm	inch	mm	lbf	N	lbf	N
RSTO 5 TN	—	—	—	0.630	16	—	—	0.307	7.8	570	2550	570	2550
RSTO 6 TN	STO 6 TN	0.236	6	0.748	19	0.394	10	0.386	9.8	840	3750	1,010	4500
RSTO 8 TN	STO 8 TN	0.315	8	0.945	24	0.394	10	0.386	9.8	940	4200	1,240	5500
RSTO 10	STO 10	0.394	10	1.181	30	0.472	12	0.465	11.8	1,890	8400	2,070	9200
RSTO 12	STO 12	0.472	12	1.260	32	0.472	12	0.465	11.8	2,000	8900	2,270	10100
RSTO 15	STO 15	0.591	15	1.378	35	0.472	12	0.465	11.8	2,050	9100	2,410	10700
RSTO 17	STO 17	0.669	17	1.575	40	0.630	16	0.622	15.8	3,200	14300	4,000	17700
RSTO 20	STO 20	0.787	20	1.850	47	0.630	16	0.622	15.8	3,650	16200	4,850	21500
RSTO 25	STO 25	0.984	25	2.047	52	0.630	16	0.622	15.8	3,700	16500	5,100	22900
RSTO 30	STO 30	1.181	30	2.441	62	0.787	20	0.780	19.8	5,200	23300	7,900	35000
RSTO 35	STO 35	1.378	35	2.835	72	0.787	20	0.780	19.8	5,800	26000	9,200	41000
RSTO 40	STO 40	1.575	40	3.150	80	0.787	20	0.780	19.8	5,400	24000	8,800	39000
RSTO 45	STO 45	1.772	45	3.347	85	0.787	20	0.780	19.8	5,700	25500	9,700	43000
RSTO 50	STO 50	1.969	50	3.543	90	0.787	20	0.780	19.8	5,800	26000	10,500	46500

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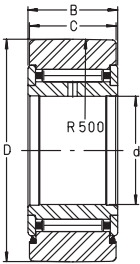
PART NUMBER WITHOUT INNER RING	PART NUMBER WITH INNER RING	WGT.	WGT.	F _w	F _w	E	E	DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀	SPEED LIMIT OIL
		lbs	g	inch	mm	inch	mm	lbf	N	lbf	N	rpm
RSTO 5 TN	—	0.019	8.5	0.276	7	0.394	10	640	2850	600	2650	29,900
RSTO 6 TN	STO 6 TN	0.037	17	0.394	10	0.512	13	1,070	4750	1,240	5500	26,000
RSTO 8 TN	STO 8 TN	0.057	26	0.472	12	0.591	15	1,100	4900	1,370	6100	20,800
RSTO 10	STO 10	0.108	49	0.551	14	0.787	20	2,320	10300	2,380	10600	14,300
RSTO 12	STO 12	0.126	57	0.630	16	0.866	22	2,600	11500	2,800	12500	11,700
RSTO 15	STO 15	0.139	63	0.787	20	1.024	26	3,000	13400	3,650	16200	8,450
RSTO 17	STO 17	0.236	107	0.866	22	1.142	29	4,500	20000	5,700	25500	7,150
RSTO 20	STO 20	0.335	152	0.984	25	1.260	32	4,700	21000	6,300	28000	6,110
RSTO 25	STO 25	0.39	177	1.181	30	1.457	37	5,200	23100	7,500	33500	4,680
RSTO 30	STO 30	0.679	308	1.496	38	1.811	46	8,000	35500	12,800	57000	3,250
RSTO 35	STO 35	0.972	441	1.654	42	1.969	50	8,100	36000	13,300	59000	2,860
RSTO 40	STO 40	1.169	530	1.969	50	2.284	58	8,000	35500	13,900	62000	2,210
RSTO 45	STO 45	1.27	576	2.165	55	2.480	63	9,000	40000	16,600	74000	1,950
RSTO 50	STO 50	1.36	617	2.362	60	2.677	68	9,800	43500	19,100	85000	1,690



Yoke Type Track Rollers

NATR SERIES

- Metric series
- Cage guided needle roller design
- Accepts thrust through flange
- Available sealed – suffix PP
- Available with cylindrical OD – suffix X



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WEIGHT lbs	WEIGHT g	SPEED LIMIT rpm
NATR 5	0.197	5	0.630	16	0.472	12	0.433	11	0.031	14	22000
NATR 6	0.236	6	0.748	19	0.472	12	0.433	11	0.044	20	20000
NATR 8	0.315	8	0.945	24	0.591	15	0.551	14	0.09	41	15000
NATR 10	0.394	10	1.181	30	0.591	15	0.551	14	0.141	64	11000
NATR 12	0.472	12	1.260	32	0.591	15	0.551	14	0.157	71	9000
NATR 15	0.591	15	1.378	35	0.748	19	0.709	18	0.227	103	7000
NATR 17	0.669	17	1.575	40	0.827	21	0.787	20	0.318	144	6000
NATR 20	0.787	20	1.850	47	0.984	25	0.945	24	0.542	246	4900
NATR 25	0.984	25	2.047	52	0.984	25	0.945	24	0.606	275	3600
NATR 30	1.181	30	2.441	62	1.142	29	1.102	28	1.036	470	2600
NATR 35	1.378	35	2.835	72	1.142	29	1.102	28	1.4	635	2000
NATR 40	1.575	40	3.150	80	1.260	32	1.181	30	1.775	805	1700
NATR 45	1.772	45	3.347	85	1.260	32	1.181	30	2.007	910	1500
NATR 50	1.969	50	3.543	90	1.260	32	1.181	30	2.117	960	1300

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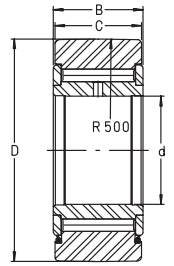
PART NUMBER	EFFECT. DYN. CAP. C _w lbf	EFFECT. DYN. CAP. C _w N	EFFECT. STAT. CAP. C _{0w} lbf	EFFECT. STAT. CAP. C _{0w} N	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ N
NATR 5	710	3150	740	3300	850	3800	840	3750
NATR 6	790	3500	880	3900	960	4250	1,030	4600
NATR 8	1,240	5500	1,440	6400	1,530	6800	1,730	7700
NATR 10	1,530	6800	1,890	8400	1,820	8100	2,180	9700
NATR 12	1,550	6900	1,980	8800	1,960	8700	2,470	11000
NATR 15	2,180	9700	3,150	14100	2,900	12900	4,250	19000
NATR 17	2,450	10900	3,500	15500	3,200	14200	4,600	20400
NATR 20	3,500	15500	5,700	25500	4,400	19500	7,200	32000
NATR 25	3,450	15400	6,000	26500	4,750	21200	8,500	38000
NATR 30	5,300	23600	8,700	38500	7,600	34000	13,300	59000
NATR 35	5,700	25500	10,000	44500	8,300	37000	15,500	69000
NATR 40	7,400	33000	13,300	59000	11,000	49000	21,100	94000
NATR 45	7,300	32500	13,300	59000	11,500	51000	22,700	101000
NATR 50	7,200	32000	13,300	59000	11,700	52000	24,300	108000



Yoke Type Track Rollers

NATV SERIES

- Metric series
- Full complement needle roller design
- Accepts thrust through flange
- Available sealed – suffix PP
- Available with cylindrical OD – suffix X



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WEIGHT lbs	WEIGHT g	SPEED LIMIT rpm
NATV 5	0.197	5	0.630	16	0.472	12	0.433	11	0.033	15	8500
NATV 6	0.236	6	0.748	19	0.472	12	0.433	11	0.046	21	7000
NATV 8	0.315	8	0.945	24	0.591	15	0.551	14	0.093	42	5500
NATV 10	0.394	10	1.181	30	0.591	15	0.551	14	0.143	65	4500
NATV 12	0.472	12	1.260	32	0.591	15	0.551	14	0.159	72	3900
NATV 15	0.591	15	1.378	35	0.748	19	0.709	18	0.232	105	3400
NATV 17	0.669	17	1.575	40	0.827	21	0.787	20	0.335	152	2900
NATV 20	0.787	20	1.850	47	0.984	25	0.945	24	0.56	254	2600
NATV 25	0.984	25	2.047	52	0.984	25	0.945	24	0.628	285	2100
NATV 30	1.181	30	2.441	62	1.142	29	1.102	28	1.061	481	1700
NATV 35	1.378	35	2.835	72	1.142	29	1.102	28	1.427	647	1400
NATV 40	1.575	40	3.150	80	1.260	32	1.181	30	1.962	890	1300
NATV 50	1.969	50	3.543	90	1.260	32	1.181	30	2.183	990	1000

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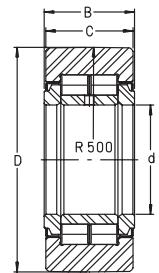
PART NUMBER	EFFECT. DYN. CAP. C _w lbf	EFFECT. DYN. CAP. C _w N	EFFECT. STAT. CAP. C _{0w} lbf	EFFECT. STAT. CAP. C _{0w} N	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ N
NATV 5	1,090	4850	1,460	6500	1,440	6400	1,910	8500
NATV 6	1,240	5500	1,780	7900	1,640	7300	2,430	10800
NATV 8	1,750	7800	2,550	11400	2,340	10400	3,500	15600
NATV 10	2,140	9500	3,300	14600	2,750	12200	4,250	19000
NATV 12	2,180	9700	3,450	15400	2,950	13200	4,900	21700
NATV 15	2,900	12800	5,200	23000	4,100	18300	7,900	35000
NATV 17	3,350	14800	6,000	26500	4,700	21000	8,900	39500
NATV 20	4,650	20600	9,400	42000	6,300	28000	13,300	59000
NATV 25	4,600	20500	9,900	44000	7,000	31000	16,200	72000
NATV 30	6,900	30500	14,200	63000	10,900	48500	24,300	108000
NATV 35	7,400	33000	16,400	73000	11,900	53000	28,500	127000
NATV 40	9,200	41000	20,200	90000	14,800	66000	35,500	159000
NATV 50	9,100	40500	20,900	93000	16,200	72000	43,000	191000



Yoke Type Track Rollers

NUTR SERIES

- Metric series
- 2 row cylindrical roller design
- Accepts thrust through rollers
- Includes labyrinth seals for higher temperatures
- Available with cylindrical OD – suffix X



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WEIGHT lbs	WEIGHT g	SPEED LIMIT rpm
NUTR 15	0.591	15	1.378	35	0.748	19	0.709	18	0.218	99	6,500
NUTR 17	0.669	17	1.575	40	0.827	21	0.787	20	0.324	147	5,500
NUTR 15 42	0.591	15	1.654	42	0.748	19	0.709	18	0.348	158	6,500
NUTR 17 47	0.669	17	1.850	47	0.827	21	0.787	20	0.485	220	5,500
NUTR 20	0.787	20	1.850	47	0.984	25	0.945	24	0.54	245	4,200
NUTR 20 52	0.787	20	2.047	52	0.984	25	0.945	24	0.708	321	4,200
NUTR 25	0.984	25	2.047	52	0.984	25	0.945	24	0.62	281	3,400
NUTR 25 62	0.984	25	2.441	62	0.984	25	0.945	24	0.992	450	3,400
NUTR 30	1.181	30	2.441	62	1.142	29	1.102	28	1.025	465	2,600
NUTR 30 72	1.181	30	2.835	72	1.142	29	1.102	28	1.537	697	2,600
NUTR 35	1.378	35	2.835	72	1.142	29	1.102	28	1.389	630	2,100
NUTR 35 80	1.378	35	3.150	80	1.142	29	1.102	28	1.843	836	2,100
NUTR 40	1.575	40	3.150	80	1.260	32	1.181	30	1.799	816	1,600
NUTR 45	1.772	45	3.347	85	1.260	32	1.181	30	1.947	883	1,400
NUTR 40 90	1.575	40	3.543	90	1.260	32	1.181	30	2.489	1129	1,600
NUTR 50	1.969	50	3.543	90	1.260	32	1.181	30	2.095	950	1,300
NUTR 45 100	1.772	45	3.937	100	1.260	32	1.181	30	3.078	1396	1,400
NUTR 50 110	1.969	50	4.331	110	1.260	32	1.181	30	3.726	1690	1,300

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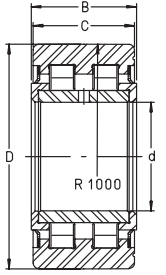
PART NUMBER	EFFECT DYN. CAP. C _w lbf	EFFECT DYN. CAP. C _w N	EFFECT STAT. CAP. C _{0w} lbf	EFFECT STAT. CAP. C _{0w} N	F _{r perm} lbf	F _{r perm} N	F _{or perm} lbf	F _{or perm} N	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ N
NUTR 15	3,600	16,000	4,100	18,300	1,870	8,300	3,700	16,400	5,200	23,000	6,100	27,000
NUTR 17	4,150	18,500	5,100	22,800	2,950	13,200	5,100	22,800	5,600	24,800	7,000	31,000
NUTR 15 42	4,350	19,400	5,400	23,800	5,400	23,900	5,400	23,900	5,200	23,000	6,100	27,000
NUTR 17 47	4,800	21,300	6,300	28,000	6,300	28,000	6,300	28,000	5,600	24,800	7,000	31,000
NUTR 20	6,300	28,000	7,900	35,000	3,700	16,500	7,400	33,000	8,800	39,000	11,200	50,000
NUTR 20 52	7,100	31,500	9,200	41,000	8,700	38,500	9,200	41,000	8,800	39,000	11,200	50,000
NUTR 25	6,500	29,000	8,400	37,500	3,900	17,300	7,800	34,500	9,800	43,500	13,500	60,000
NUTR 25 62	8,000	35,500	11,200	50,000	11,200	50,000	11,200	50,000	9,800	43,500	13,500	60,000
NUTR 30	9,000	40,000	11,500	51,000	5,300	23,600	10,600	47,000	13,300	59,000	17,800	79,000
NUTR 30 72	10,800	48,000	14,600	65,000	14,600	65,000	14,600	65,000	13,300	59,000	17,800	79,000
NUTR 35	10,100	45,000	13,700	61,000	7,200	32,000	13,700	61,000	14,600	65,000	20,900	93,000
NUTR 35 80	11,500	51,000	16,200	72,000	16,200	72,000	16,200	72,000	14,600	65,000	20,900	93,000
NUTR 40	12,600	56,000	17,100	76,000	6,900	30,500	13,500	60,000	20,200	90,000	30,000	134,000
NUTR 45	12,600	56,000	17,800	79,000	7,100	31,500	13,700	61,000	21,400	95,000	33,000	147,000
NUTR 40 90	14,800	66,000	21,600	96,000	18,900	84,000	21,600	96,000	20,200	90,000	30,000	134,000
NUTR 50	12,800	57,000	18,200	81,000	7,200	32,000	14,200	63,000	22,500	100,000	36,000	161,000
NUTR 45 100	16,200	72,000	24,300	108,000	23,800	106,000	24,300	108,000	21,400	95,000	33,000	147,000
NUTR 50 110	17,100	76,000	27,000	121,000	27,000	121,000	27,000	121,000	22,500	100,000	36,000	161,000



Yoke Type Track Rollers

PWTR SERIES

- Metric series
- 2 row cylindrical roller design
- Accepts thrust through rollers
- Sealed



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT d inch	SHAFT d mm	OD D inch	OD D mm	WIDTH INNER B inch	WIDTH INNER B mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WEIGHT lbs	WEIGHT g	SPEED LIMIT rpm
PWTR 15 2RS	0.591	15	1.378	35	0.748	19	0.709	18	0.218	99	6000
PWTR 17 2RS	0.669	17	1.575	40	0.827	21	0.787	20	0.324	147	5000
PWTR 15 42 2RS	0.591	15	1.654	42	0.748	19	0.709	18	0.348	158	6000
PWTR 17 47 2RS	0.669	17	1.850	47	0.827	21	0.787	20	0.485	220	5000
PWTR 20 2RS	0.787	20	1.850	47	0.984	25	0.950	24	0.54	245	3800
PWTR 20 52 2RS	0.787	20	2.047	52	0.984	25	0.950	24	0.708	321	3800
PWTR 25 2RS	0.984	25	2.047	52	0.984	25	0.950	24	0.62	281	3800
PWTR 25 62 2RS	0.984	25	2.441	62	0.984	25	0.950	24	0.992	450	3800
PWTR 30 2RS	1.181	30	2.441	62	1.142	29	1.102	28	1.025	465	2200
PWTR 30 72 2RS	1.181	30	2.835	72	1.142	29	1.102	28	1.537	697	2200
PWTR 35 2RS	1.378	35	2.835	72	1.142	29	1.102	28	1.389	630	1800
PWTR 35 80 2RS	1.378	35	3.150	80	1.142	29	1.102	28	1.843	836	1800
PWTR 40 2RS	1.575	40	3.150	80	1.260	32	1.181	30	1.799	816	1500
PWTR 45 2RS	1.772	45	3.347	85	1.260	32	1.181	30	1.947	883	1300
PWTR 40 90 2RS	1.575	40	3.543	90	1.260	32	1.181	30	2.489	1129	1500
PWTR 50 2RS	1.969	50	3.543	90	1.260	32	1.181	30	2.095	950	1100
PWTR 45 100 2RS	1.772	45	3.937	100	1.260	32	1.181	30	3.078	1396	1300
PWTR 50 110 2RS	1.969	50	4.331	110	1.260	32	1.181	30	3.726	1690	1100

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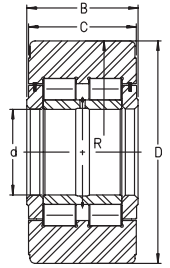
PART NUMBER	EFFECT DYN. CAP. C _w lbf	EFFECT DYN. CAP. C _w N	EFFECT STAT. CAP. C _{0w} lbf	EFFECT STAT. CAP. C _{0w} N	F _{r perm} lbf	F _{r perm} N	F _{or perm} lbf	F _{or perm} N	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ N
PWTR 15 2RS	2,750	11,400	2,750	11,000	2,110	7,600	2,750	11,000	3,600	15,900	3,550	15,700
PWTR 17 2RS	3,100	13,500	3,300	14,100	3,200	10,800	3,300	14,100	3,850	17,200	4,000	17,800
PWTR 15 42 2RS	3,200	12,900	3,400	13,800	3,400	14,100	3,400	13,800	3,600	15,900	3,550	15,700
PWTR 17 47 2RS	3,500	14,900	3,900	16,400	3,900	16,000	3,900	16,400	3,850	17,200	4,000	17,800
PWTR 20 2RS	7,900	23,200	3,700	25,500	7,400	18,300	7,400	25,500	6,900	30,500	7,500	33,500
PWTR 20 52 2RS	5,700	25,500	6,600	29,500	6,600	29,500	6,600	29,500	6,900	30,500	7,500	33,500
PWTR 25 2RS	5,400	23,800	6,200	25,500	4,200	16,100	6,200	25,500	7,500	33,500	9,000	40,000
PWTR 25 62 2RS	6,400	24,200	8,000	32,500	8,000	32,500	8,000	32,500	7,500	33,500	9,000	40,000
PWTR 30 2RS	7,800	29,000	8,400	39,500	4,950	25,500	8,400	39,500	11,200	50,000	12,800	57,000
PWTR 30 72 2RS	9,300	35,000	10,800	49,500	10,800	49,000	10,800	49,500	11,200	50,000	12,800	57,000
PWTR 35 2RS	8,700	41,000	10,000	46,500	6,500	34,500	10,000	46,500	12,600	56,000	15,100	67,000
PWTR 35 80 2RS	9,900	38,500	12,100	49,500	12,100	49,500	12,100	49,500	12,600	56,000	15,100	67,000
PWTR 40 2RS	10,100	41,500	12,100	53,000	7,900	32,000	12,100	53,000	14,800	66,000	18,700	83,000
PWTR 45 2RS	10,300	41,500	12,600	55,000	8,200	36,500	12,600	55,000	15,700	70,000	20,500	91,000
PWTR 40 90 2RS	11,700	41,500	14,800	58,000	14,800	66,000	14,800	58,000	14,800	66,000	18,700	83,000
PWTR 50 2RS	10,300	41,500	13,000	57,000	8,300	32,500	13,000	57,000	16,400	73,000	22,300	99,000
PWTR 45 100 2RS	12,600	41,000	16,900	74,000	16,900	65,000	16,900	74,000	15,700	70,000	20,500	91,000
PWTR 50 110 2RS	13,500	54,000	18,400	82,000	18,400	73,000	18,400	82,000	16,400	73,000	22,300	99,000



Yoke Type Track Rollers

NNTR SERIES

- Metric series
- Double row cylindrical roller
- Accepts thrust through rollers
- Available with cylindrical OD – suffix X
- Sealed version greased
- Shielded version for use with oil mist



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER LOW GAP SHIELDS	PART NUMBER CONTACT SEALS	SHAFT d	SHAFT d	OD D	OD D	WIDTH INNER B	WIDTH INNER B	WIDTH OUTER C	WIDTH OUTER C	WEIGHT	WEIGHT
		inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
NNTR 50X130X65 2Z	NNTR 50X130X65 2ZL	1.969	50	5.118	130	2.559	65	2.480	63	11.5	5.2
NNTR 55X140X70 2Z	NNTR 55X140X70 2ZL	2.165	55	5.512	140	2.756	70	2.677	68	14.1	6.4
NNTR 60X150X75 2Z	NNTR 60X150X75 2ZL	2.362	60	5.906	150	2.953	75	2.874	73	17.2	7.8
NNTR 65X160X75 2Z	NNTR 65X160X75 2ZL	2.559	65	6.299	160	2.953	75	2.874	73	19.4	8.8
NNTR 70X180X85 2Z	NNTR 70X180X85 2ZL	2.756	70	7.087	180	3.347	85	3.268	83	28.7	13
NNTR 80X200X90 2Z	NNTR 80X200X90 2ZL	3.150	80	7.874	200	3.543	90	3.465	88	37.0	16.8
NNTR 90X220X100 2Z	NNTR 90X220X100 2ZL	3.543	90	8.661	220	3.937	100	3.858	98	49.6	22.5
NNTR 100X240X105 2Z	NNTR 100X240X105 2ZL	3.937	100	9.449	240	4.134	105	4.055	103	61.7	28
NNTR 110X260X115 2Z	NNTR 110X260X115 2ZL	4.331	110	10.236	260	4.528	115	4.449	113	78.5	35.6
NNTR 120X290X135 2Z	NNTR 120X290X135 2ZL	4.724	120	11.417	290	5.315	135	5.236	133	116.4	52.8
NNTR 130X310X146 2Z	NNTR 130X310X146 2ZL	5.118	130	12.205	310	5.748	146	5.669	144	143.8	65.2
NNTR 140X340X162 2Z	NNTR 140X340X162 2ZL	5.512	140	13.386	340	6.378	162	6.299	160	192.3	87.2
NNTR 150X360X173 2Z	NNTR 150X360X173 2ZL	5.906	150	14.173	360	6.811	173	6.732	171	229.3	104

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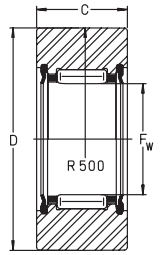
PART NUMBER LOW GAP SHIELDS	PART NUMBER CONTACT SEALS	EFF. DYN. CAP. C _w	EFF. DYN. CAP. C _w	EFF. STAT. CAP. C _{0w}	EFF. STAT. CAP. C _{0w}	DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀	SPEED LIMIT	CROWN RADIUS	CROWN RADIUS
		lbf x 1000	kN	lbf x 1000	kN	lbf x 1000	kN	lbf x 1000	kN	rpm	inch	mm
NNTR 50X130X65 2Z	NNTR 50X130X65 2ZL	43	192	56	250	51	229	65	290	1100	393.7	10,000
NNTR 55X140X70 2Z	NNTR 55X140X70 2ZL	50	223	67	300	63	280	83	370	850	393.7	10,000
NNTR 60X150X75 2Z	NNTR 60X150X75 2ZL	57	255	79	350	72	320	96	425	800	393.7	10,000
NNTR 65X160X75 2Z	NNTR 65X160X75 2ZL	62	275	83	370	76	340	102	455	700	393.7	10,000
NNTR 70X180X85 2Z	NNTR 70X180X85 2ZL	79	350	110	490	98	435	135	600	600	393.7	10,000
NNTR 80X200X90 2Z	NNTR 80X200X90 2ZL	92	410	130	580	115	510	160	710	500	393.7	10,000
NNTR 90X220X100 2Z	NNTR 90X220X100 2ZL	111	495	162	720	146	650	214	950	400	393.7	10,000
NNTR 100X240X105 2Z	NNTR 100X240X105 2ZL	126	560	187	830	166	740	255	1130	340	393.7	10,000
NNTR 110X260X115 2Z	NNTR 110X260X115 2ZL	151	670	229	1020	198	880	310	1370	300	393.7	10,000
NNTR 120X290X135 2Z	NNTR 120X290X135 2ZL	200	890	310	1370	260	1150	400	1790	260	590.6	15,000
NNTR 130X310X146 2Z	NNTR 130X310X146 2ZL	229	1020	360	1600	295	1320	470	2080	240	590.6	15,000
NNTR 140X340X162 2Z	NNTR 140X340X162 2ZL	275	1220	425	1900	365	1620	580	2600	200	590.6	15,000
NNTR 150X360X173 2Z	NNTR 150X360X173 2ZL	310	1370	490	2170	405	1810	660	2950	180	590.6	15,000



Yoke Type Track Rollers

RNA22..2RS SERIES

- Metric series
- Sealed
- Without inner ring
- Without axial guidance
- Available with cylindrical OD – suffix X



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

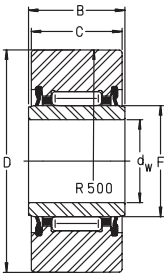
For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT F _w inch	SHAFT F _w mm	OD D inch	OD D mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WGT. lbs	WGT. g	DYN. CAP. TRACK lbf	DYN. CAP. TRACK N	STAT. CAP. TRACK lbf	STAT. CAP. TRACK N	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
RNA 22/6 2RS	0.394	10	0.748	19	0.465	11.8	0.04	18	880	3900	830	3700	1,190	5300	1,050	4650	18000
RNA 22/8 2RS	0.472	12	0.945	24	0.465	11.8	0.064	29	1,080	4800	1,080	4800	1,280	5700	1,210	5400	14000
RNA 2200 2RS	0.551	14	1.181	30	0.543	13.8	0.115	52	1,570	7000	1,800	8000	1,750	7800	1,870	8300	11000
RNA 2201 2RS	0.630	16	1.260	32	0.543	13.8	0.126	57	1,690	7500	2,020	9000	1,960	8700	2,230	9900	9500
RNA 2202 2RS	0.787	20	1.378	35	0.543	13.8	0.132	60	1,710	7600	2,160	9600	2,200	9800	2,750	12300	7000
RNA 2203 2RS	0.866	22	1.575	40	0.622	15.8	0.207	94	2,230	9900	3,100	13800	2,750	12200	3,750	16700	6000
RNA 2204 2RS	0.984	25	1.850	47	0.701	17.8	0.335	152	3,400	15200	4,100	18300	4,250	18900	5,000	22300	4600
RNA 2205 2RS	1.181	30	2.047	52	0.701	17.8	0.395	179	3,550	15700	4,500	20000	4,750	21100	6,100	27000	3500
RNA 2206 2RS	1.378	35	2.441	62	0.780	19.8	0.626	284	4,100	18300	5,700	25500	5,200	23300	7,200	32000	2800
RNA 2207 2RS	1.654	42	2.835	72	0.894	22.7	0.953	432	5,200	23000	8,000	35500	6,700	30000	10,500	46500	2200
RNA 2208 2RS	1.890	48	3.150	80	0.894	22.7	1.169	530	6,200	27500	9,100	40500	8,700	38500	13,000	58000	1700
RNA 2209 2RS	2.047	52	3.347	85	0.894	22.7	1.202	545	6,400	28500	9,700	43000	9,100	40500	14,400	64000	1600
RNA 2210 2RS	2.284	58	3.543	90	0.894	22.7	1.241	563	6,300	28000	9,600	42500	9,600	42500	15,700	70000	1300

Cam Followers

NA22..2RS SERIES

- Metric series
- Yoke type
- Sealed
- With inner ring
- Without axial guidance



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT d _w inch	SHAFT d _w mm	OD D inch	OD D mm	WIDTH OUTER C inch	WIDTH OUTER C mm	WIDTH INNER B inch	WIDTH INNER B mm	WEIGHT lbs	WEIGHT g
NA 22/6 2RS	0.236	6	0.748	19	0.465	11.8	0.472	12	0.049	22
NA 22/8 2RS	0.315	8	0.945	24	0.465	11.8	0.472	12	0.075	34
NA 2200 2RS	0.394	10	1.181	30	0.543	13.8	0.551	14	0.132	60
NA 2201 2RS	0.472	12	1.260	32	0.543	13.8	0.551	14	0.148	67
NA 2202 2RS	0.591	15	1.378	35	0.543	13.8	0.551	14	0.165	75
NA 2203 2RS	0.669	17	1.575	40	0.622	15.8	0.630	16	0.247	112
NA 2204 2RS	0.787	20	1.850	47	0.701	17.8	0.709	18	0.39	177
NA 2205 2RS	0.984	25	2.047	52	0.701	17.8	0.709	18	0.461	209
NA 2206 2RS	1.181	30	2.441	62	0.780	19.8	0.787	20	0.714	324
NA 2207 2RS	1.378	35	2.835	72	0.894	22.7	0.906	23	1.114	505
NA 2208 2RS	1.575	40	3.150	80	0.894	22.7	0.906	23	1.385	628
NA 2209 2RS	1.772	45	3.347	85	0.894	22.7	0.906	23	1.444	655
NA 2210 2RS	1.969	50	3.543	90	0.894	22.7	0.906	23	1.521	690

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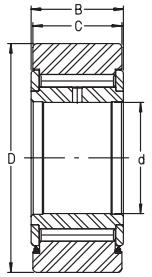
PART NUMBER	DYN. CAP. TRACK lbf	DYN. CAP. TRACK N	STAT. CAP. TRACK lbf	STAT. CAP. TRACK N	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	SPEED LIMIT rpm
NA 22/6 2RS	880	3900	830	3700	1,190	5300	1,050	4650	18000
NA 22/8 2RS	1,080	4800	1,080	4800	1,280	5700	1,210	5400	14000
NA 2200 2RS	1,570	7000	1,800	8000	1,750	7800	1,870	8300	11000
NA 2201 2RS	1,690	7500	2,020	9000	1,960	8700	2,230	9900	9500
NA 2202 2RS	1,710	7600	2,160	9600	2,200	9800	2,750	12300	7000
NA 2203 2RS	2,230	9900	3,100	13800	2,750	12200	3,750	16700	6000
NA 2204 2RS	3,400	15200	4,100	18300	4,250	18900	5,000	22300	4600
NA 2205 2RS	3,550	15700	4,500	20000	4,750	21100	6,100	27000	3500
NA 2206 2RS	4,100	18300	5,700	25500	5,200	23300	7,200	32000	2800
NA 2207 2RS	5,200	23000	8,000	35500	6,700	30000	10,500	46500	2200
NA 2208 2RS	6,200	27500	9,100	40500	8,700	38500	13,000	58000	1700
NA 2209 2RS	6,400	28500	9,700	43000	9,100	40500	14,400	64000	1600
NA 2210 2RS	6,300	28000	9,600	42500	9,600	42500	15,700	70000	1300



Cam Followers

RF SERIES

- Inch series
- Yoke type track roller
- Cylindrical tire OD
- Available with crowned OD – suffix Y
- Available sealed – suffix PP



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT d inch	SHAFT d mm	TIRE OD D inch	TIRE OD D mm	TIRE WIDTH C inch	TIRE WIDTH C mm	LENGTH B inch	LENGTH B mm	WEIGHT lbs	WEIGHT g	SPEED LIMIT rpm
RF12	0.250	6.350	0.750	19.050	0.5	12.7	0.563	14.288	0.054	24.7	6000
RF14	0.250	6.350	0.875	22.225	0.5	12.7	0.563	14.288	0.075	33.8	6000
RF16	0.313	7.938	1.000	25.400	0.625	15.875	0.688	17.463	0.118	53.4	5000
RF18	0.313	7.937	1.125	28.575	0.625	15.875	0.687	17.460	0.156	70.7	5000
RF20	0.375	9.525	1.250	31.750	0.75	19.05	0.813	20.638	0.228	103.3	4400
RF22	0.375	9.525	1.375	34.925	0.75	19.05	0.813	20.638	0.283	128.4	4400
RF24	0.438	11.113	1.500	38.100	0.875	22.225	0.937	23.810	0.388	175.8	3400
RF26	0.438	11.113	1.625	41.275	0.875	22.225	0.937	23.810	0.588	266.8	3400
RF28	0.500	12.700	1.750	44.450	1	25.4	1.063	26.990	0.600	272	2700
RF30	0.500	12.700	1.875	47.625	1	25.4	1.063	26.990	0.694	314.8	2700
RF32	0.625	15.875	2.000	50.800	1.25	31.75	1.313	33.340	0.958	434.4	2300
RF36	0.625	15.875	2.250	57.150	1.25	31.75	1.313	33.340	1.245	564.6	2300
RF40	0.750	19.050	2.500	63.500	1.5	38.1	1.563	39.690	1.818	824.3	2000
RF44	0.750	19.050	2.750	69.850	1.5	38.1	1.563	39.690	2.249	1020	2000
RF48	1.000	25.400	3.000	76.200	1.75	44.45	1.813	46.040	2.972	1348	1600
RF52	1.000	25.400	3.250	82.550	1.75	44.45	1.813	46.040	3.572	1620	1600
RF56	1.125	28.575	3.500	88.900	2	50.8	2.063	52.390	4.686	2125	1400
RF64	1.250	31.750	4.000	101.600	2.25	57.15	2.313	58.740	6.968	3160	1300

CONTINUED FROM ABOVE

PART NUMBER	EFFECT. DYN. CAP. C _w lbf	EFFECT. DYN. CAP. C _w N	EFFECT. STAT. CAP. C _{0w} lbf	EFFECT. STAT. CAP. C _{0w} N	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C ₀ lbf	STAT. CAP. C ₀ N
RF12	1,210	5400	1,780	7900	1,910	8500	3,100	13700
RF14	1,480	6600	2,380	10600	1,910	8500	3,100	13700
RF16	1,730	7700	3,100	13700	2,500	11200	4,750	21200
RF18	1,980	8800	3,700	16500	2,500	11200	4,750	21200
RF20	3,300	14600	4,600	20500	4,500	20100	6,500	29000
RF22	3,650	16200	5,400	23800	4,500	20100	6,500	29000
RF24	4,200	18600	6,600	29500	5,400	24200	8,700	38500
RF26	4,500	20000	7,300	32500	5,400	24200	8,700	38500
RF28	5,500	24400	9,700	43000	7,000	31000	12,400	55000
RF30	5,700	25500	10,600	47000	7,000	31000	12,400	55000
RF32	7,400	33000	11,200	50000	10,300	46000	16,600	74000
RF36	8,300	37000	13,500	60000	10,300	46000	16,600	74000
RF40	11,500	51000	21,100	94000	13,900	62000	25,000	112000
RF44	12,100	54000	23,200	103000	13,900	62000	25,000	112000
RF48	13,500	60000	28,000	125000	18,200	81000	40,000	177000
RF52	14,600	65000	31,500	140000	18,200	81000	39,500	176000
RF56	19,000	85000	43,000	191000	23,200	103000	52,000	231000
RF64	21,400	95000	55,000	244000	27,500	122000	73,000	325000

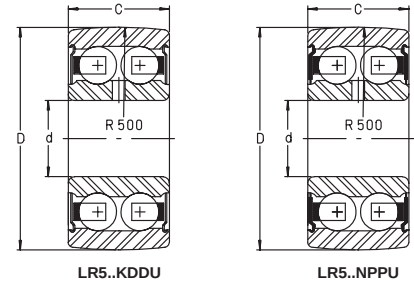


Yoke Type Track Rollers

LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads F_r and F_{or} must be used due to the elastic deformation of the outer ring. With track rollers where $F_{rperm} < C_w$, the dynamic loading may not be greater than F_r perm.



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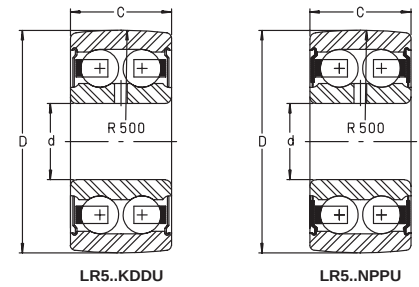
PART NUMBER	SHAFT d inch	SHAFT d mm	TIRE OD D inch	TIRE OD D mm	WIDTH C inch	WIDTH C mm	WEIGHT lbs	WEIGHT kg	SPEED LIMIT GREASE rpm
LR50/5NPPU	0.197	5	0.669	17	0.275	7	0.022	0.01	23500
LR50/6NPPU	0.236	6	0.748	19	0.354	9	0.044	0.02	22500
LR50/7NPPU	0.276	7	0.866	22	0.394	10	0.044	0.02	21000
LR50/8NPPU	0.315	8	0.945	24	0.433	11	0.066	0.03	20000
LR5000NPPU	0.394	10	1.102	28	0.472	12	0.066	0.03	18500
LR5001NPPU	0.474	12	1.181	30	0.472	12	0.066	0.03	17500
LR5200KDDU	0.394	10	1.260	32	0.551	14	0.154	0.07	16000
LR5200KDD	0.394	10	1.260	32	0.551	14	0.154	0.07	16000
LR5200NPPU	0.394	10	1.260	32	0.551	14	0.154	0.07	16000
LR5201KDDU	0.474	12	1.378	35	0.626	15.9	0.176	0.08	15000
LR5201KDD	0.474	12	1.378	35	0.626	15.9	0.176	0.08	15000
LR5201NPPU	0.474	12	1.378	35	0.626	15.9	0.176	0.08	15000
LR5002NPPU	0.591	15	1.378	35	0.512	13	0.11	0.05	14500
LR5202KDDU	0.591	15	1.575	40	0.626	15.9	0.243	0.11	14000
LR5202KDD	0.591	15	1.575	40	0.626	15.9	0.243	0.11	14000
LR5202NPPU	0.591	15	1.575	40	0.626	15.9	0.243	0.11	14000
LR5003NPPU	0.669	17	1.575	40	0.551	14	0.154	0.07	12500
LR5301NPPU	0.472	12	1.654	42	0.748	19	0.265	0.12	10500
LR5302NPPU	0.591	15	1.850	47	0.748	19	0.331	0.15	10000
LR5203KDDU	0.669	17	1.850	47	0.689	17.5	0.375	0.17	11000
LR5203KDD	0.669	17	1.850	47	0.689	17.5	0.375	0.17	11000
LR5203NPPU	0.669	17	1.850	47	0.689	17.5	0.375	0.17	11000
LR5004NPPU	0.787	20	1.850	47	0.63	16	0.265	0.12	11000
LR5303NPPU	0.669	17	2.047	52	0.874	22.2	0.463	0.21	9500
LR5204KDDU	0.787	20	2.047	52	0.811	20.6	0.507	0.23	10000
LR5204KDD	0.787	20	2.047	52	0.811	20.6	0.507	0.23	10000
LR5204NPPU	0.787	20	2.047	52	0.811	20.6	0.507	0.23	10000
LR5005NPPU	0.984	25	2.047	52	0.63	16	0.331	0.15	9500
LR5304KDDU	0.787	20	2.441	62	0.874	22.2	0.75	0.34	9000
LR5304KDD	0.787	20	2.441	62	0.874	22.2	0.75	0.34	9000
LR5304NPPU	0.787	20	2.441	62	0.874	22.2	0.75	0.34	9000
LR5205KDDU	0.984	25	2.441	62	0.811	20.6	0.75	0.34	9000
LR5205KDD	0.984	25	2.441	62	0.811	20.6	0.75	0.34	9000
LR5205NPPU	0.984	25	2.441	62	0.811	20.6	0.75	0.34	9000
LR5006NPPU	1.181	30	2.441	62	0.748	19	0.551	0.25	8000
LR5007NPPU	1.378	35	2.677	68	0.787	20	0.662	0.3	6600
LR5305KDD	0.984	25	2.835	72	1	25.4	1.103	0.5	7900
LR5305KDDU	0.984	25	2.835	72	1	25.4	1.103	0.5	7900
LR5305NPPU	0.984	25	2.835	72	1	25.4	1.103	0.5	7900
LR5206KDD	1.181	30	2.835	72	0.937	23.8	1.125	0.51	7100
LR5206KDDU	1.181	30	2.835	72	0.937	23.8	1.125	0.51	7100
LR5206NPPU	1.181	30	2.835	72	0.937	23.8	1.125	0.51	7100
LR5306NPPU	1.181	30	3.150	80	1.189	30.2	1.477	0.67	6200
LR5207KDD	1.378	35	3.150	80	1.063	27	1.455	0.66	5600
LR5207KDDU	1.378	35	3.150	80	1.063	27	1.455	0.66	5600
LR5207NPPU	1.378	35	3.150	80	1.063	27	1.455	0.66	5600

Yoke Type Track Rollers

LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads F_r and F_{rperm} must be used due to the elastic deformation of the outer ring. With track rollers where $F_{rperm} < C_w$, the dynamic loading may not be greater than F_{rperm} .



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C_0 lbf	STAT. CAP. C_0 N	EFFECTIVE DYN. CAP. C_w lbf	EFFECTIVE DYN. CAP. C_w N	EFFECTIVE DYN. CAP. C_{0w} lbf	EFFECTIVE DYN. CAP. C_{0w} N	LIMITING F_{rperm} lbf	LIMITING F_{rperm} N	PART NUMBER
410	1810	210	950	370	1660	210	950	430	1900	LR50/5NPPU
700	3100	320	1400	600	2650	300	1310	500	2200	LR50/6NPPU
820	3650	380	1700	740	3300	380	1690	760	3380	LR50/7NPPU
1170	5200	590	2610	950	4200	530	2360	790	3500	LR50/8NPPU
1290	5700	730	3250	1070	4750	640	2850	1190	5300	LR5000NPPU
1400	6200	850	3750	1120	4850	700	3100	1120	5400	LR5001NPPU
1810	8000	1030	4600	1530	6800	910	4050	1730	7700	LR5200KDDU
1810	8000	1030	4600	1530	6800	910	4050	1730	7700	LR5200KDD
1810	8000	1030	4600	1530	6800	910	4050	1730	7700	LR5200NPPU
2360	10600	1320	5900	1930	8600	1150	5100	1510	6700	LR5201KDDU
2360	10600	1320	5900	1930	8600	1150	5100	1510	6700	LR5201KDD
2360	10600	1320	5900	1930	8600	1150	5100	1510	6700	LR5201NPPU
1940	8600	1220	5400	1460	6500	920	4100	1190	5300	LR5002NPPU
2650	11800	1590	7100	2200	9800	1390	6200	2390	10600	LR5202KDDU
2650	11800	1590	7100	2200	9800	1390	6200	2390	10600	LR5202KDD
2650	11800	1590	7100	2200	9800	1390	6200	2390	10600	LR5202NPPU
2070	9200	1390	6200	1730	7700	1170	5200	2300	10200	LR5003NPPU
3300	14700	1890	8400	2540	11300	1590	7100	2360	10500	LR5301NPPU
3980	17700	2310	10300	3280	14600	2070	9200	2810	12500	LR5302NPPU
3300	14800	2040	9100	2850	12600	1840	8200	3580	15900	LR5203KDDU
3300	14800	2040	9100	2850	12600	1840	8200	3580	15900	LR5203KDD
3300	14800	2040	9100	2850	12600	1840	8200	3580	15900	LR5203NPPU
3250	14500	2150	9600	2600	11500	1730	7700	2480	11000	LR5004NPPU
4740	21100	2810	12500	3870	17200	2490	11100	3480	15500	LR5303NPPU
4450	19900	2850	12600	3550	15800	2360	10500	3290	14600	LR5204KDDU
4450	19900	2850	12600	3550	15800	2360	10500	3290	14600	LR5204KDD
4450	19900	2850	12600	3550	15800	2360	10500	3290	14600	LR5204NPPU
3500	15500	2490	11100	2600	11600	1820	8100	2450	10900	LR5005NPPU
5500	24500	3550	15800	4750	21100	3250	14500	6080	27000	LR5304KDDU
5500	24500	3550	15800	4750	21100	3250	14500	6080	27000	LR5304KDD
5500	24500	3550	15800	4750	21100	3250	14500	6080	27000	LR5304NPPU
4850	21600	3350	14900	4150	18500	2900	13000	5630	25000	LR5205KDDU
4850	21600	3350	14900	4150	18500	2900	13000	5630	25000	LR5205KDD
4850	21600	3350	14900	4150	18500	2900	13000	5630	25000	LR5205NPPU
4450	20300	3500	15600	3550	15800	2650	11800	4100	18200	LR5006NPPU
5800	24500	4800	21400	3900	17600	2950	13100	3170	14100	LR5007NPPU
7300	32500	4850	21600	6200	27500	4400	19500	7760	34500	LR5305KDD
7300	32500	4850	21600	6200	27500	4400	19500	7760	34500	LR5305KDDU
7300	32500	4850	21600	6200	27500	4400	19500	7760	34500	LR5305NPPU
6700	30000	4800	21300	5500	24600	4000	17700	6640	29500	LR5206KDD
6700	30000	4800	21300	5500	24600	4000	17700	6640	29500	LR5206KDDU
6700	30000	4800	21300	5500	24600	4000	17700	6640	29500	LR5206NPPU
10200	45500	7100	31500	8200	36500	6000	26500	9790	43500	LR5306NPPU
8900	39500	6500	29000	6900	30500	5000	22400	6410	28500	LR5207KDD
8900	39500	6500	29000	6900	30500	5000	22400	6410	28500	LR5207KDDU
8900	39500	6500	29000	6900	30500	5000	22400	6410	28500	LR5207NPPU



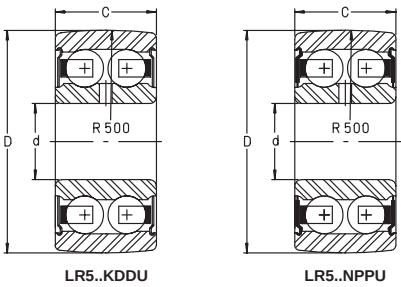
Yoke Type Track Rollers

LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where $Fr_{perm} < C_w$, the dynamic loading may not be greater than Fr_{perm} .

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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PART NUMBER	SHAFT d inch	SHAFT d mm	TIRE OD D inch	TIRE OD D mm	WIDTH C inch	WIDTH C mm	WEIGHT lbs	WEIGHT kg	SPEED LIMIT GREASE rpm
LR5208KDD	1.575	40	3.347	85	1.189	30.2	1.654	0.75	5000
LR5208KDDU	1.575	40	3.347	85	1.189	30.2	1.654	0.75	5000
LR5208NPPU	1.575	40	3.347	85	1.189	30.2	1.654	0.75	5000
LR5307KDD	1.378	35	3.543	90	1.374	34.9	2.139	0.97	5100
LR5307KDDU	1.378	35	3.543	90	1.374	34.9	2.139	0.97	5100
LR5307NPPU	1.378	35	3.543	90	1.374	34.9	2.139	0.97	5100
LR5308KDD	1.575	40	3.937	100	1.437	36.5	2.646	1.2	4700
LR5308KDDU	1.575	40	3.937	100	1.437	36.5	2.646	1.2	4700
LR5308NPPU	1.575	40	3.937	100	1.437	36.5	2.646	1.2	4700



Yoke Type Track Rollers

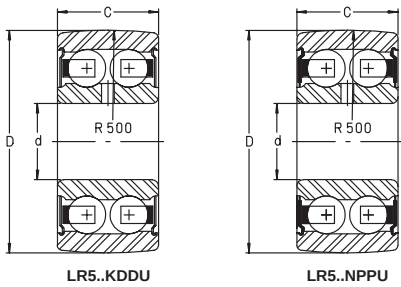
LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where $Fr_{perm} < C_w$, the dynamic loading may not be greater than Fr_{perm} .

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DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀	EFFECTIVE DYN. CAP. C _w	EFFECTIVE DYN. CAP. C _w	EFFECTIVE DYN. CAP. C _{0w}	EFFECTIVE DYN. CAP. C _{0w}	LIMITING Fr _{perm}	LIMITING Fr _{perm}	PART NUMBER
lbf	N	lbf	N	lbf	N	lbf	N	lbf	N	
11300	50000	8500	37500	7800	34500	5700	25500	4680	20800	LR5208KDD
11300	50000	8500	37500	7800	34500	5700	25500	4680	20800	LR5208KDDU
11300	50000	8500	37500	7800	34500	5700	25500	4680	20800	LR5208NPPU
12700	56000	8900	39500	10000	44500	7400	33000	8890	39500	LR5307KDD
12700	56000	8900	39500	10000	44500	7400	33000	8890	39500	LR5307KDDU
12700	56000	8900	39500	10000	44500	7400	33000	8890	39500	LR5307NPPU
15400	69000	11100	49500	12600	56000	9400	42000	15700	70000	LR5308KDD
15400	69000	11100	49500	12600	56000	9400	42000	15700	70000	LR5308KDDU
15400	69000	11100	49500	12600	56000	9400	42000	15700	70000	LR5308NPPU

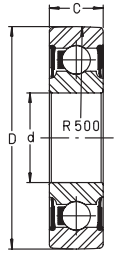


Yoke Type Track Rollers

LR6 & LR2 SERIES

- Ball bearing type
- Single row conrad type
- Shielded or sealed
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads F_r and F_{rperm} must be used due to the elastic deformation of the outer ring. With track rollers where $F_{rperm} < C_w$, the dynamic loading may not be greater than F_r perm.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	SHAFT d inch	SHAFT d mm	TIRE OD D inch	TIRE OD D mm	WIDTH C inch	WIDTH C mm	WEIGHT lbs	WEIGHT kg	SPEED LIMIT GREASE rpm
LR604NPPU	0.157	4	0.512	13	0.157	4	0.022	0.01	40000
LR605NPPU	0.197	5	0.630	16	0.197	5	0.022	0.01	38000
LR605KDDU	0.197	5	0.630	16	0.197	5	0.022	0.01	38000
LR606NPPU	0.236	6	0.748	19	0.236	6	0.022	0.01	36000
LR606KDDU	0.236	6	0.748	19	0.236	6	0.022	0.01	36000
LR607NPPU	0.276	7	0.866	22	0.236	6	0.022	0.01	34000
LR607KDDU	0.276	7	0.866	22	0.236	6	0.022	0.01	34000
LR608NPPU	0.315	8	0.945	24	0.276	7	0.044	0.02	32000
LR608KDDU	0.315	8	0.945	24	0.276	7	0.044	0.02	32000
LR6000 NPPU	0.394	10	1.102	28	0.315	8	0.044	0.02	28000
LR6001 NPPU	0.474	12	1.181	30	0.315	8	0.066	0.03	26000
LR200NPPU	0.394	10	1.260	32	0.354	9	0.11	0.05	16000
LR200KDD	0.394	10	1.260	32	0.354	9	0.11	0.05	16000
LR200NPP	0.394	10	1.260	32	0.354	9	0.11	0.05	16000
LR201NPPU	0.474	12	1.378	35	0.394	10	0.11	0.05	15000
LR201NPP	0.474	12	1.378	35	0.394	10	0.11	0.05	15000
LR6002 NPPU	0.591	15	1.378	35	0.354	9	0.11	0.05	22000
LR202NPPU	0.591	15	1.575	40	0.433	11	0.154	0.07	14000
LR202NPP	0.591	15	1.575	40	0.433	11	0.154	0.07	14000
LR6003 NPPU	0.669	17	1.575	40	0.394	10	0.154	0.07	19000
LR203NPPU	0.669	17	1.850	47	0.474	12	0.243	0.11	11000
LR203NPP	0.669	17	1.850	47	0.474	12	0.243	0.11	11000
LR6004 NPPU	0.787	20	1.850	47	0.474	12	0.243	0.11	17000
LR204NPPU	0.787	20	2.047	52	0.551	14	0.331	0.15	10000
LR204NPP	0.787	20	2.047	52	0.551	14	0.331	0.15	10000
LR205NPPU	0.984	25	2.441	62	0.591	15	0.507	0.23	9000
LR205NPP	0.984	25	2.441	62	0.591	15	0.507	0.23	9000
LR206NPPU	1.181	30	2.835	72	0.63	16	0.728	0.33	7100
LR206NPP	1.181	30	2.835	72	0.63	16	0.728	0.33	7100
LR207NPPU	1.378	35	3.150	80	0.669	17	0.882	0.4	5600
LR207NPP	1.378	35	3.150	80	0.669	17	0.882	0.4	5600
LR208NPPU	1.575	40	3.347	85	0.709	18	0.992	0.45	5000
LR208NPP	1.575	40	3.347	85	0.709	18	0.992	0.45	5000
LR209NPPU	1.772	45	3.543	90	0.748	19	1.103	0.5	4500
LR209NPP	1.772	45	3.543	90	0.748	19	1.103	0.5	4500

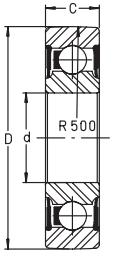


Yoke Type Track Rollers

LR6 & LR2 SERIES

- Ball bearing type
- Single row conrad type
- Shielded or sealed
- Thick walled outer ring

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads Fr and Fr_{perm} must be used due to the elastic deformation of the outer ring. With track rollers where $Fr_{perm} < C_w$, the dynamic loading may not be greater than Fr_{perm} .



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C_0 lbf	STAT. CAP. C_0 N	EFFECTIVE DYN. CAP. C_w lbf	EFFECTIVE DYN. CAP. C_w N	EFFECTIVE DYN. CAP. C_{0w} lbf	EFFECTIVE DYN. CAP. C_{0w} N	LIMITING Fr_{perm} lbf	LIMITING Fr_{perm} N	PART NUMBER
218	970	81	360	194	860	79	350	160	700	LR604NPPU
299	1330	113	500	268	1190	110	490	220	980	LR605NPPU
299	1330	113	500	268	1190	110	490	220	980	LR605KDDU
443	1970	167	740	392	1740	158	700	320	1400	LR606NPPU
443	1970	167	740	392	1740	158	700	320	1400	LR606KDDU
527	2340	200	890	479	2130	196	870	390	1740	LR607NPPU
527	2340	200	8970	479	2130	196	870	390	1740	LR607KDDU
743	3300	304	1350	619	2750	281	1250	560	2500	LR608NPPU
743	3300	304	1350	619	2750	281	1250	560	2500	LR608KDDU
1035	4600	441	1960	821	3650	383	1700	570	2550	LR6000 NPPU
1148	5100	529	2350	968	4300	473	2100	920	4100	LR6001 NPPU
1150	5100	530	2370	980	4350	480	2130	960	4260	LR200NPPU
1150	5100	530	2370	980	4350	480	2130	960	4260	LR200KDD
1150	5100	530	2370	980	4350	480	2130	960	4260	LR200NPP
1530	6800	686	3050	1260	5600	608	2700	1010	4500	LR201NPPU
1530	6800	686	3050	1260	5600	608	2700	1010	4500	LR201NPP
1260	5600	640	2850	1013	4500	518	2300	1040	4600	LR6002 NPPU
1710	7600	830	3700	1463	6500	740	3300	1490	6600	LR202NPPU
1710	7600	830	3700	1463	6500	740	3300	1490	6600	LR202NPP
1350	6000	725	3220	1215	5400	673	2990	1350	5980	LR6003 NPPU
2160	9600	1070	4750	1890	8400	990	4400	1980	8800	LR203NPPU
2160	9600	1070	4750	1890	8400	990	4400	1980	8800	LR203NPP
2115	9400	1125	5000	1508	6700	803	3570	1050	4650	LR6004 NPPU
2880	12800	1485	6600	2360	10500	1260	5600	2410	10700	LR204NPPU
2880	12800	1485	6600	2360	10500	1260	5600	2410	10700	LR204NPP
3150	14000	1755	7800	2810	12500	1600	7100	3200	14200	LR205NPPU
3150	14000	1755	7800	2810	12500	1600	7100	3200	14200	LR205NPP
4390	19500	2540	11300	3735	16600	2160	9600	4320	19200	LR206NPPU
4390	19500	2540	11300	3735	16600	2160	9600	4320	19200	LR206NPP
5740	25500	3440	15300	4545	20200	2680	11900	4390	19500	LR207NPPU
5740	25500	3440	15300	4545	20200	2680	11900	4390	19500	LR207NPP
7310	32500	4460	19800	5130	22800	3060	13600	3020	13400	LR208NPPU
7310	32500	4460	19800	5130	22800	3060	13600	3020	13400	LR208NPP
7310	32500	4590	20400	5060	22500	3080	13700	2990	13300	LR209NPPU
7310	32500	4590	20400	5060	22500	3080	13700	2990	13300	LR209NPP

Yoke Type Track Rollers

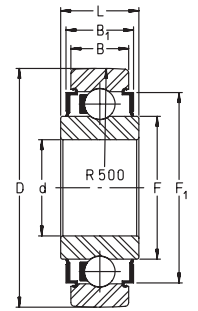
LR2.. SERIES

- Single row
- Conrad ball bearing type
- Extended inner ring
- R type lip seals with extra grease capacity
- U indicates crowned OD

When operating against a flat raceway or cam plate, the effective load ratings C_w and C_{0w} and the limiting radial loads F_r and F_{rperm} must be used due to the elastic deformation of the outer ring. With track rollers where $F_{rperm} < C_w$, the dynamic loading may not be greater than F_r perm.

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LR..RRU

PART NUMBER	d	d	D	D	B	B	B ₁	B ₁	F	F	F ₁	F ₁	L	L	WGT.	WGT.
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs	kg
LR201RRU	0.472	12	1.378	35	0.394	10	—	—	0.728	18.5	—	—	0.591	15	0.15	0.07
LR201RR	0.472	12	1.378	35	0.394	10	—	—	0.728	18.5	—	—	0.591	15	0.15	0.07
LR202RRU	0.591	15	1.5748	40	0.433	11	—	—	0.847	21.5	—	—	0.567	14.4	0.18	0.08
LR202RR	0.591	15	1.5748	40	0.433	11	—	—	0.847	21.5	—	—	0.567	14.4	0.18	0.08
LR203RRU	0.669	17	1.8504	47	0.472	12	—	—	0.965	24.5	—	—	0.721	18.3	0.24	0.11
LR203RR	0.669	17	1.8504	47	0.472	12	—	—	0.965	24.5	—	—	0.721	18.3	0.24	0.11
LR204RRU	0.787	20	2.0472	52	0.551	14	—	—	1.13	28.7	—	—	0.697	17.7	0.35	0.16
LR204RR	0.787	20	2.0472	52	0.551	14	—	—	1.13	28.7	—	—	0.697	17.7	0.35	0.16
LR205RRU	0.984	25	2.4409	62	0.591	15	0.658	16.7	1.331	33.8	1.677	42.6	0.827	21	0.57	0.26
LR205RR	0.984	25	2.4409	62	0.591	15	0.658	16.7	1.331	33.8	1.677	42.6	0.827	21	0.57	0.26
LR206RRU	1.181	30	2.8346	72	0.63	16	0.772	19.6	1.587	40.3	2.047	52	0.945	24	0.82	0.37
LR206RR	1.181	30	2.8346	72	0.63	16	0.772	19.6	1.587	40.3	2.047	52	0.945	24	0.82	0.37
LR207RRU	1.378	35	3.1496	80	0.669	17	0.776	19.7	1.843	46.8	2.374	60.3	0.984	25	1.06	0.48
LR207RR	1.378	35	3.1496	80	0.669	17	0.776	19.7	1.843	46.8	2.374	60.3	0.984	25	1.06	0.48
LR208RRU	1.575	40	3.3465	85	0.709	18	0.807	20.5	2.059	52.3	2.685	68.2	1.063	27	1.17	0.53
LR208RR	1.575	40	3.3465	85	0.709	18	0.807	20.5	2.059	52.3	2.685	68.2	1.063	27	1.17	0.53

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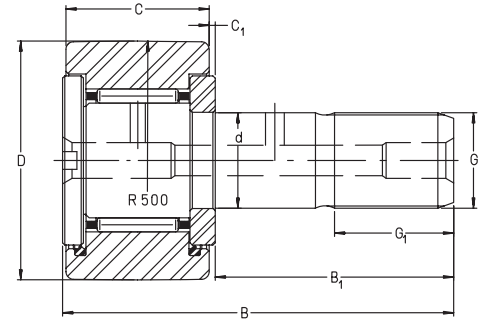
PART NUMBER	DYN. CAP. C	DYN. CAP. C	STAT. CAP. C ₀	STAT. CAP. C ₀	EFFECTIVE DYN. CAP. C _w	EFFECTIVE DYN. CAP. C _w	EFFECTIVE DYN. CAP. C _{0w}	EFFECTIVE DYN. CAP. C _{0w}	LIMITING F _{rperm}	LIMITING F _{rperm}	SPEED LIMIT GREASE
	lbf	N	lbf	N	lbf	N	lbf	N	lbf	N	rpm
LR201RRU	15000	1530	6800	686	3050	1260	5600	608	2700	1010	4500
LR201RR	15000	1530	6800	686	3050	1260	5600	608	2700	1010	4500
LR202RRU	14000	1710	7600	830	3700	1463	6500	740	3300	1490	6600
LR202RR	14000	1710	7600	830	3700	1463	6500	740	3300	1490	6600
LR203RRU	11000	2160	9600	1070	4750	1890	8400	990	4400	1980	8800
LR203RR	11000	2160	9600	1070	4750	1890	8400	990	4400	1980	8800
LR204RRU	10000	2880	12800	1485	6600	2360	10500	1260	5600	2410	10700
LR204RR	10000	2880	12800	1485	6600	2360	10500	1260	5600	2410	10700
LR205RRU	9000	3150	14000	1755	7800	2810	12500	1600	7100	3200	14200
LR205RR	9000	3150	14000	1755	7800	2810	12500	1600	7100	3200	14200
LR206RRU	7100	4390	19500	2540	11300	3735	16600	2160	9600	4320	19200
LR206RR	7100	4390	19500	2540	11300	3735	16600	2160	9600	4320	19200
LR207RRU	5600	5740	25500	3440	15300	4545	20200	2680	11900	4390	19500
LR207RR	5600	5740	25500	3440	15300	4545	20200	2680	11900	4390	19500
LR208RRU	5000	7310	22800	4460	19800	5130	22800	3060	13600	3020	13400
LR208RR	5000	7310	22800	4460	19800	5130	22800	3060	13600	3020	13400



Stud Type Cam Follower Selector

INCH AND METRIC SERIES

- Sorted by Tire OD
 - All metric versions available with a cylindrical tire OD – suffix X
 - All versions available with seals – suffix PP
 - All inch versions available with a crowned tire OD – suffix Y
 - All versions available with eccentric sleeve for adjustment by – prefix E
 - Series specific details can be found on subsequent pages.
- Please refer to Section Contents or Index for the correct page numbers.



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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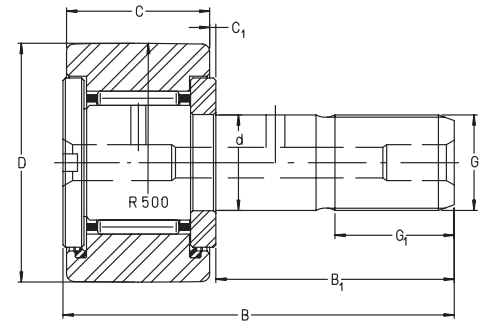
PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	TOTAL LENGTH B inch	TOTAL LENGTH B mm	WEIGHT lbs	WEIGHT g	THREADS G
CF8-1	0.5	12.7	0.19	4.826	0.375	9.525	1.032	26.2	0.024	11	10-32 UNF
CF10-1	0.625	15.875	0.25	6.35	0.438	11.113	1.221	31	0.044	20	1/4-28 UNF
KRV 16	0.630	16	0.236	6	0.433	11	1.102	28	0.044	20	M6
KR 16	0.630	16	0.236	6	0.433	11	1.102	28	0.044	20	M6
KRV 19	0.748	19	0.315	8	0.433	11	1.260	32	0.071	32	M8
KR 19	0.748	19	0.315	8	0.433	11	1.260	32	0.071	32	M8
CF12	0.75	19.05	0.375	9.525	0.500	12.7	1.406	35.7	0.075	34	3/8-24 UNF
KRV 22	0.866	22	0.394	10	0.472	12	1.417	36	0.099	45	M10x1
KR 22	0.866	22	0.394	10	0.472	12	1.417	36	0.099	45	M10x1
CF14	0.875	22.225	0.375	9.525	0.500	12.7	1.406	35.7	0.099	45	3/8-24 UNF
CF16	1	25.4	0.4375	11.112	0.625	15.875	1.654	42	0.159	72	7/16-20 UNF
KRV 26	1.024	26	0.394	10	0.472	12	1.417	36	0.135	61	M10x1
KR 26	1.024	26	0.394	10	0.472	12	1.417	36	0.135	61	M10x1
CF18	1.125	28.575	0.4375	11.112	0.625	15.875	1.654	42	0.194	88	7/16-20 UNF
KRV 30	1.181	30	0.472	12	0.551	14	1.575	40	0.196	89	M12x1.5
KR 30	1.181	30	0.472	12	0.551	14	1.575	40	0.196	89	M12x1.5
CF20	1.25	31.75	0.5	12.7	0.750	19.05	2.032	51.6	0.300	136	1/2-20 UNF
KRV 32	1.260	32	0.472	12	0.551	14	1.575	40	0.221	100	M12x1.5
KR 32	1.260	32	0.472	12	0.551	14	1.575	40	0.221	100	M12x1.5
CF22	1.375	34.925	0.5	12.7	0.750	19.05	2.032	51.6	0.348	158	1/2-20 UNF
KRV 35	1.378	35	0.630	16	0.709	18	2.047	52	0.377	171	M16x1.5
KR 35	1.378	35	0.630	16	0.709	18	2.047	52	0.377	171	M16x1.5
NUKR 35	1.378	35	0.630	16	0.709	18	2.047	52	0.362	164	M 16x1.5
PWKR 35 2RS	1.378	35	0.630	16	0.709	18	2.047	52	0.362	164	M 16x1.5
CF24	1.5	38.1	0.625	15.875	0.875	22.225	2.406	61.1	0.525	238	5/8-18 UNF
KRV 40	1.575	40	0.709	18	0.787	20	2.284	58	0.549	249	M18x1.5
KR 40	1.575	40	0.709	18	0.787	20	2.284	58	0.549	249	M18x1.5
NUKR 40	1.575	40	0.709	18	0.787	20	2.284	58	0.534	242	M 18x1.5
PWKR 40 2RS	1.575	40	0.709	18	0.787	20	2.284	58	0.534	242	M 18x1.5
CF26	1.625	41.275	0.625	15.875	0.875	22.225	2.406	61.1	0.598	271	5/8-18 UNF
CF28	1.75	44.45	0.75	19.05	1.000	25.4	2.780	70.6	0.827	375	3/4-16 UNF
KRV 47	1.850	47	0.787	20	0.945	24	2.598	66	0.86	390	M20x1.5
KR 47	1.850	47	0.787	20	0.945	24	2.598	66	0.86	390	M20x1.5
NUKR 47	1.850	47	0.787	20	0.945	24	2.598	66	0.838	380	M 20x1.5
PWKR 47 2RS	1.850	47	0.787	20	0.945	24	2.598	66	0.838	380	M 20x1.5
CF30	1.875	47.625	0.75	19.05	1.000	25.4	2.780	70.6	0.924	419	3/4-16 UNF
CF32	2	50.8	0.875	22.225	1.250	31.75	3.280	83.3	1.352	613	7/8-14 UNF
KRV 52	2.047	52	0.787	20	0.945	24	2.598	66	1.025	465	M20x1.5
KR 52	2.047	52	0.787	20	0.945	24	2.598	66	1.025	465	M20x1.5
NUKR 52	2.047	52	0.787	20	0.945	24	2.598	66	0.992	450	M 20x1.5
PWKR 52 2RS	2.047	52	0.787	20	0.945	24	2.598	66	0.992	450	M 20x1.5
CF36	2.25	57.15	0.875	22.225	1.250	31.75	3.280	83.3	1.636	742	7/8-14 UNF
KRV 62	2.441	62	0.945	24	1.142	29	3.150	80	1.768	802	M24x1.5
KR 62	2.441	62	0.945	24	1.142	29	3.150	80	1.768	802	M24x1.5
NUKR 62	2.441	62	0.945	24	1.142	29	3.150	80	1.753	795	M 24x1.5
PWKR 62 2RS	2.441	62	0.945	24	1.142	29	3.150	80	1.753	795	M 24x1.5



Stud Type Cam Follower Selector

INCH AND METRIC SERIES

- Sorted by Tire OD
 - All metric versions available with a cylindrical tire OD – suffix X
 - All versions available with seals – suffix PP
 - All inch versions available with a crowned tire OD – suffix Y
 - All versions available with eccentric sleeve for adjustment by – prefix E
 - Series specific details can be found on subsequent pages.
- Please refer to Section Contents or Index for the correct page numbers.

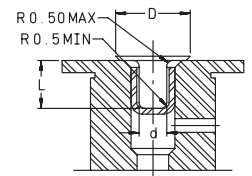


KR SHOWN FOR DIMENSION REFERENCE ONLY

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

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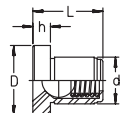
PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	TOTAL LENGTH B inch	TOTAL LENGTH B mm	WEIGHT lbs	WEIGHT g	THREADS G
CF40	2.5	63.5	1	25.4	1.500	38.1	3.780	96	2.421	1098	1–14 UNF
CF44	2.75	69.85	1	25.4	1.500	38.1	3.780	96	2.867	1300	1–14 UNF
KRV 72	2.835	72	0.945	24	1.142	29	3.150	80	2.304	1045	M24x1.5
KR 72	2.835	72	0.945	24	1.142	29	3.150	80	2.304	1045	M24x1.5
NUKR 72	2.835	72	0.945	24	1.142	29	3.150	80	2.249	1020	M 24x1.5
PWKR 72 2RS	2.835	72	0.945	24	1.142	29	3.150	80	2.249	1020	M 24x1.5
CF48	3	76.2	1.25	31.75	1.750	44.45	4.280	108.7	4.123	1870	1–1/4–12 UNF
KRV 80	3.150	80	1.181	30	1.378	35	3.937	100	3.442	1561	M30x1.5
KR 80	3.150	80	1.181	30	1.378	35	3.937	100	3.442	1561	M30x1.5
NUKR 80	3.150	80	1.181	30	1.378	35	3.937	100	3.528	1600	M 30x1.5
PWKR 80 2RS	3.150	80	1.181	30	1.378	35	3.937	100	3.528	1600	M 30x1.5
CF52	3.25	82.55	1.75	44.45	1.750	44.45	4.280	108.7	5.733	2600	1–1/4–12 UNF
KR 85	3.347	85	1.181	30	1.378	35	3.937	100	3.837	1740	M30x1.6
KRV 90	3.543	90	1.181	30	1.378	35	3.937	100	4.344	1970	M30x1.5
KR 90	3.543	90	1.181	30	1.378	35	3.937	100	4.344	1970	M30x1.5
NUKR 90	3.543	90	1.181	30	1.378	35	3.937	100	4.322	1960	M 30x1.5
PWKR 90 2RS	3.543	90	1.181	30	1.378	35	3.937	100	4.322	1960	M 30x1.5
CF64	4	101.6	1.5	38.1	2.250	57.15	5.780	146.8	9.316	4225	1–1/2–12UNF



Closing Plugs

VD SERIES

PART NUMBER	NOM. HOLE inch	NOM. HOLE mm	d inch	d mm	D inch	D mm	L inch	L mm	WEIGHT PER 1000 lbs	WEIGHT PER 1000 kg	MATING CAM FOLLOWERS
VD 1 A	0.157	4	0.106	2.7	0.394	10	0.205	5.2	0.221	0.1	METRIC SIZES 16 THRU 26
VD 2 A	0.236	6	0.185	4.7	0.472	12	0.287	7.3	0.221	0.1	METRIC SIZES 30 THRU 40
VD 3 A	0.315	8	0.264	6.7	0.591	15	0.394	10	0.441	0.2	METRIC SIZES 47 THRU 90
VD 7 A	0.126	3.2	0.094	2.4	0.335	8.5	0.169	4.3	0.221	0.1	CF 8–1 THRU CF 10–1
VD 5 A	0.189	4.8	0.138	3.5	0.433	11	0.217	5.5	0.221	0.1	CF 12 THRU CF 44
VD 6 A	0.252	6.4	0.201	5.1	0.512	13	0.295	7.5	1.103	0.5	CF 48 THRU CF64



Lubrication Nipples

NIP SERIES

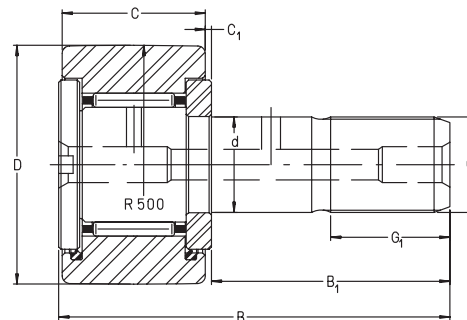
PART NUMBER	d inch	d mm	D inch	D mm	L inch	L mm	h inch	h mm	WEIGHT PER 1000 lbs	WEIGHT PER 1000 kg	MATING CAM FOLLOWERS
NIP A 1	0.157	4	0.236	6	0.236	6	0.059	1.5	0.441	0.2	METRIC SIZES 16 THRU 26
NIP A 2	0.236	6	0.315	8	0.354	9	0.079	2	0.441	0.2	METRIC SIZES 30 THRU 40
NIP A 3	0.315	8	0.394	10	0.472	12	0.118	3	0.441	0.3	METRIC SIZES 47 THRU 90



Stud Type Cam Followers

KR SERIES

- Cage guided needle rollers
- Metric
- Accepts thrust through flange
- All versions available with seals – suffix PP
- All versions available with a cylindrical tire OD – suffix X
- Available with hex socket – suffix SK
- Available with eccentric sleeve – prefix E



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	LENGTH B inch	LENGTH B mm	WEIGHT lbs	WEIGHT g	EFFECT. DYN. CAP. Cw lbf	EFFECT. DYN. CAP. Cw N	EFFECT. STAT. CAP. C0w lbf	EFFECT. STAT. CAP. C0w N
KR 16	0.630	16	0.236	6	0.433	11	1.102	28	0.044	20	710	3150	740	3300
KR 19	0.748	19	0.315	8	0.433	11	1.260	32	0.071	32	790	3500	880	3900
KR 22	0.866	22	0.394	10	0.472	12	1.417	36	0.099	45	1,000	4450	1,170	5200
KR 26	1.024	26	0.394	10	0.472	12	1.417	36	0.135	61	1,150	5100	1,390	6200
KR 30	1.181	30	0.472	12	0.551	14	1.575	40	0.196	89	1,530	6800	1,890	8400
KR 32	1.260	32	0.472	12	0.551	14	1.575	40	0.221	100	1,600	7100	2,020	9000
KR 35	1.378	35	0.630	16	0.709	18	2.047	52	0.377	171	2,180	9700	3,150	14100
KR 40	1.575	40	0.709	18	0.787	20	2.284	58	0.549	249	2,450	10900	3,500	15500
KR 47	1.850	47	0.787	20	0.945	24	2.598	66	0.86	390	3,500	15500	5,700	25500
KR 52	2.047	52	0.787	20	0.945	24	2.598	66	1.025	465	3,800	16800	6,400	28500
KR 62	2.441	62	0.945	24	1.142	29	3.150	80	1.768	802	6,000	26500	10,700	47500
KR 72	2.835	72	0.945	24	1.142	29	3.150	80	2.304	1045	6,300	28000	11,900	53000
KR 80	3.150	80	1.181	30	1.378	35	3.937	100	3.442	1561	8,900	39500	17,300	77000
KR 85	3.347	85	1.181	30	1.378	35	3.937	100	3.837	1740	9,100	40500	18,000	80000
KR 90	3.543	90	1.181	30	1.378	35	3.937	100	4.344	1970	9,300	41500	18,700	83000

CONTINUED FROM ABOVE

PART NUMBER	B1 inch	B1 mm	THREADS G	G1 inch	G1 mm	C1 inch	C1 mm	NUT TORQUE ft-lbf	NUT TORQUE Nm	SPEED LIMIT GREASE rpm	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C0 lbf	STAT. CAP. C0 N
KR 16	0.630	16	M6	0.315	8	0.024	0.6	2.21	3	22000	850	3800	840	3750
KR 19	0.787	20	M8	0.394	10	0.024	0.6	5.9	8	20000	960	4250	1,030	4600
KR 22	0.906	23	M10x1	0.472	12	0.024	0.6	11.06	15	16000	1,280	5700	1,460	6500
KR 26	0.906	23	M10x1	0.472	12	0.024	0.6	11.06	15	16000	1,280	5700	1,460	6500
KR 30	0.984	25	M12x1.5	0.512	13	0.024	0.6	16.23	22	11000	1,820	8100	2,180	9700
KR 32	0.984	25	M12x1.5	0.512	13	0.024	0.6	16.23	22	11000	1,820	8100	2,180	9700
KR 35	1.280	32.5	M16x1.5	0.669	17	0.032	0.8	43	58	7000	2,900	12900	4,250	19000
KR 40	1.437	36.5	M18x1.5	0.748	19	0.032	0.8	64	87	6000	3,200	14200	4,600	20400
KR 47	1.595	40.5	M20x1.5	0.827	21	0.032	0.8	89	120	4900	4,400	19500	7,200	32000
KR 52	1.595	40.5	M20x1.5	0.827	21	0.032	0.8	89	120	4900	4,400	19500	7,200	32000
KR 62	1.949	49.5	M24x1.5	0.984	25	0.032	0.8	162	220	3800	6,900	30500	11,900	53000
KR 72	1.949	49.5	M24x1.5	0.984	25	0.032	0.8	162	220	3800	6,900	30500	11,900	53000
KR 80	2.480	63	M30x1.5	1.260	32	0.039	1	332	450	2600	10,100	45000	19,100	85000
KR 85	2.480	63	M30x1.6	1.260	32	0.039	1	332	450	2600	10,100	45000	19,100	85000
KR 90	2.480	63	M30x1.5	1.260	32	0.039	1	332	450	2600	10,100	45000	19,100	85000

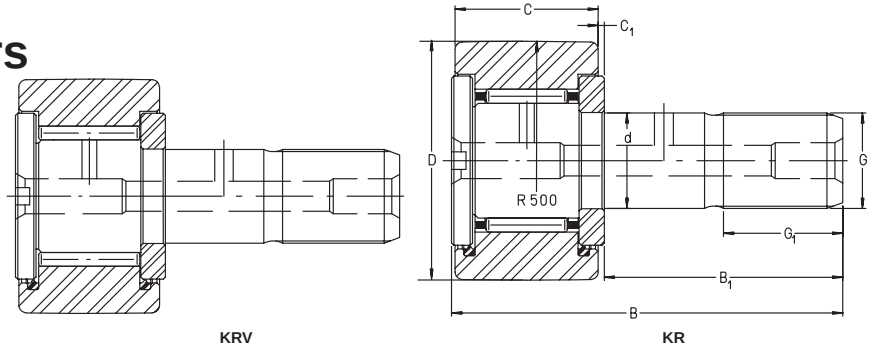
PLEASE NOTE THAT KR 16 & KR 19 HAVE LUBRICATION HOLES THROUGH THE HEAD ONLY ON THE SCREWDRIVER SLOT. NO RELUBRICATION IS POSSIBLE ON THE HEX BORE ON THOSE SIZES.



Stud Type Cam Followers

KRV SERIES

- Full complement needle rollers
- All versions available with seals – suffix PP
- Metric
- Accepts thrust through flange
- Available with hex socket – suffix SK
- Available with eccentric sleeve – prefix E
- Available with a cylindrical tire OD – suffix X



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	LENGTH B inch	LENGTH B mm	WEIGHT lbs	WEIGHT g	EFFECT. DYN. CAP. Cw lbf	EFFECT. DYN. CAP. Cw N	EFFECT. STAT. CAP. C0W lbf	EFFECT. STAT. CAP. C0W N
KRV 16	0.630	16	0.236	6	0.433	11	1.102	28	0.044	20	1,090	4850	1,460	6500
KRV 19	0.748	19	0.315	8	0.433	11	1.260	32	0.071	32	1,240	5500	1,780	7900
KRV 22	0.866	22	0.394	10	0.472	12	1.417	36	0.099	45	1,420	6300	2,050	9100
KRV 26	1.024	26	0.394	10	0.472	12	1.417	36	0.135	61	1,640	7300	2,550	11300
KRV 30	1.181	30	0.472	12	0.551	14	1.575	40	0.196	89	2,140	9500	3,300	14600
KRV 32	1.260	32	0.472	12	0.551	14	1.575	40	0.221	100	2,250	10000	3,550	15800
KRV 35	1.378	35	0.630	16	0.709	18	2.047	52	0.377	171	2,900	12800	5,200	23000
KRV 40	1.575	40	0.709	18	0.787	20	2.284	58	0.549	249	3,350	14800	6,000	26500
KRV 47	1.850	47	0.787	20	0.945	24	2.598	66	0.86	390	4,650	20600	9,400	42000
KRV 52	2.047	52	0.787	20	0.945	24	2.598	66	1.025	465	5,100	22500	10,800	48000
KRV 62	2.441	62	0.945	24	1.142	29	3.150	80	1.768	802	7,600	34000	17,100	76000
KRV 72	2.835	72	0.945	24	1.142	29	3.150	80	2.304	1045	8,300	37000	19,100	85000
KRV 80	3.150	80	1.181	30	1.378	35	3.937	100	3.442	1561	11,100	49500	27,000	120000
KRV 90	3.543	90	1.181	30	1.378	35	3.937	100	4.344	1970	11,900	53000	29,000	130000

CONTINUED FROM ABOVE

PART NUMBER	B1 inch	B1 mm	THREADS G	G1 inch	G1 mm	C1 inch	C1 mm	SPEED LIMIT GREASE rpm	NUT TORQUE ft-lbf	NUT TORQUE Nm	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C0 lbf	STAT. CAP. C0 N
KRV 16	0.630	16	M6	0.315	8	0.024	0.6	8500	2.21	3	1,440	6400	1,910	8500
KRV 19	0.787	20	M8	0.394	10	0.024	0.6	7000	5.9	8	1,640	7300	2,430	10800
KRV 22	0.906	23	M10x1	0.472	12	0.024	0.6	6000	11.06	15	1,930	8600	2,900	12900
KRV 26	0.906	23	M10x1	0.472	12	0.024	0.6	6000	11.06	15	1,930	8600	2,900	12900
KRV 30	0.984	25	M12x1.5	0.512	13	0.024	0.6	4500	16.23	22	2,750	12200	4,250	19000
KRV 32	0.984	25	M12x1.5	0.512	13	0.024	0.6	4500	16.23	22	2,750	12200	4,250	19000
KRV 35	1.280	32.5	M16x1.5	0.669	17	0.032	0.8	3400	43	58	4,100	18300	7,900	35000
KRV 40	1.437	36.5	M18x1.5	0.748	19	0.032	0.8	2900	64	87	4,700	21000	8,900	39500
KRV 47	1.595	40.5	M20x1.5	0.827	21	0.032	0.8	2600	89	120	6,300	28000	13,300	59000
KRV 52	1.595	40.5	M20x1.5	0.827	21	0.032	0.8	2600	89	120	6,300	28000	13,300	59000
KRV 62	1.949	49.5	M24x1.5	0.984	25	0.032	0.8	2200	162	220	9,300	41500	20,500	91000
KRV 72	1.949	49.5	M24x1.5	0.984	25	0.032	0.8	2200	162	220	9,300	41500	20,500	91000
KRV 80	2.480	63	M30x1.5	1.260	32	0.039	1	1700	332	450	13,500	60000	32,000	142000
KRV 90	2.480	63	M30x1.5	1.260	32	0.039	1	1700	332	450	13,500	60000	32,000	142000

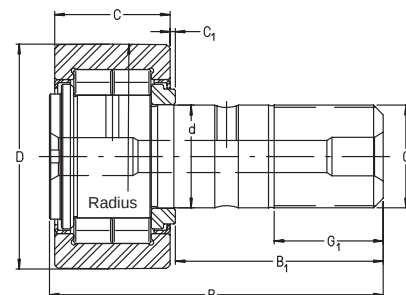
PLEASE NOTE THAT KRV 16 & KRV 19 HAVE LUBRICATION HOLES
THROUGH THE HEAD ONLY ON THE SCREWDRIVER SLOT.
NO RELUBRICATION IS POSSIBLE ON THE HEX BORE ON THOSE SIZES.



Stud Type Cam Followers

NUKR SERIES

- Available with cylindrical tire OD – suffix X
- 2 row full complement cylindrical rollers
- Metric
- Labyrinth seals included for higher temperatures
- Accepts thrust through rollers
- Available with eccentric sleeve – prefix E



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	TOTAL LENGTH B inch	TOTAL LENGTH B mm	WEIGHT lbs	WEIGHT g	EFFECTIVE DYN. CAP. Cw lbf	EFFECTIVE DYN. CAP. Cw N	EFFECTIVE STAT. CAP. C0w lbf	EFFECTIVE STAT. CAP. C0w N	F _{r perm} lbf	F _{r perm} N
NUKR 35	1.378	35	0.630	16	0.709	18	2.047	52	0.362	164	3,600	15,000	4,100	16,800	1,870	8,600
NUKR 40	1.575	40	0.787	18	0.787	20	2.284	58	0.534	242	4,150	18,400	5,100	22,600	2,950	13,100
NUKR 47	1.850	47	0.787	20	0.945	24	2.598	66	0.838	380	6,300	28,000	7,800	35,000	3,700	16,400
NUKR 52	2.047	52	0.787	20	0.945	24	2.598	66	0.992	450	6,500	29,000	8,400	37,500	3,900	17,300
NUKR 62	2.441	62	0.945	24	1.102	28	3.150	80	1.753	795	9,100	40,000	11,500	50,000	5,600	23,500
NUKR 72	2.835	72	0.945	24	1.102	28	3.150	80	2.249	1020	10,100	44,500	13,700	50,000	7,500	32,000
NUKR 80	3.150	80	1.181	30	1.378	35	3.937	100	3.528	1600	15,100	69,000	20,900	98,000	10,000	47,500
NUKR 90	3.543	90	1.181	30	1.378	35	3.937	100	4.322	1960	17,300	79,000	24,700	117,000	16,200	77,000

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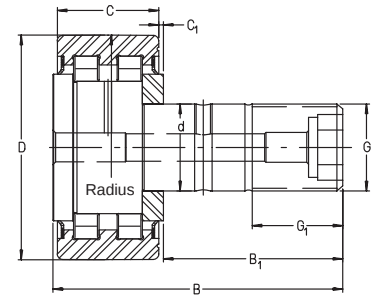
PART NUMBER	F _{r perm} lbf	F _{r perm} N	B ₁ inch	B ₁ mm	G inch	G ₁ mm	G ₁ inch	C ₁ inch	C ₁ mm	M _a nut torque ft-lbf	M _a nut torque Nm	SPEED LIMIT GREASE rpm	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N	GREASE NIPPLE
NUKR 35	3,700	16,800	1.280	32.5	M 16x1.5	0.669	17	0.032	0.800	43	58	6500	5,200	21,200	6,100	24,600	NIP A 2x7,5 AP 8
NUKR 40	5,100	22,600	1.437	36.5	M 18x1.5	0.748	19	0.032	0.800	64	87	5500	5,600	24,800	7,000	31,000	NIP A 2x7,5 AP 8
NUKR 47	7,400	35,000	1.595	40.5	M 20x1.5	0.827	21	0.032	0.800	89	120	4200	8,800	39,000	11,200	50,000	NIP A 2x7,5 AP 8
NUKR 52	7,800	37,500	1.595	40.5	M 20x1.5	0.827	25	0.032	0.800	89	120	4200	9,800	43,000	13,500	60,000	NIP A2x7,5 AP 8
NUKR 62	11,100	50,000	1.949	49.5	M 24x1.5	0.984	25	0.032	1,300	162	220	2600	13,300	59,000	17,800	78,000	NIP A 3x9,5 AP 8
NUKR 72	13,700	50,000	1.949	49.5	M 24x1.5	0.984	25	0.032	1,300	162	220	2600	14,600	65,000	20,900	92,000	NIP A 3x9,5 AP 8
NUKR 80	20,000	98,000	2.480	63	M 30x1.5	1.260	32	0.039	1,000	332	450	1800	21,400	79,000	30,000	143,000	NIP A 3x9,5 AP 8
NUKR 90	24,700	117,000	2.480	63	M 30x1.5	1.260	32	0.039	1,000	332	450	1800	21,400	97,000	30,000	143,000	NIP A 3x9,5 AP 8



Stud Type Cam Followers

PWKR SERIES

- 2 row full complement cylindrical rollers
- Metric
- Contact seals included
- Accepts thrust through rollers
- Available with eccentric sleeve – prefix E



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	TOTAL LENGTH B inch	TOTAL LENGTH B mm	WEIGHT lbs	WEIGHT g	EFFECTIVE DYN. CAP. Cw lbf	EFFECTIVE DYN. CAP. Cw N	EFFECTIVE STAT. CAP. C0w lbf	EFFECTIVE STAT. CAP. C0w N	F _{r perm} lbf	F _{r perm} N
PWKR 35 2RS	1.378	35	0.630	16	0.709	18	2.047	52	0.362	164	2,750	11,600	2,700	11,300	2,110	9,400
PWKR 40 2RS	1.575	40	0.709	18	0.787	20	2.284	58	0.534	242	4,150	12,900	3,300	13,400	3,200	14,200
PWKR 47 2RS	1.850	47	0.787	20	0.945	24	2.598	66	0.838	380	6,300	23,200	5,700	25,500	5,700	25,500
PWKR 52 2RS	2.047	52	0.787	20	0.945	24	2.598	66	0.992	450	6,500	24,200	6,200	28,000	4,200	18,600
PWKR 62 2RS	2.441	62	0.945	24	1.102	28	3.150	80	1.753	795	9,100	35,000	8,400	39,500	4,950	22,100
PWKR 72 2RS	2.835	72	0.945	24	1.102	28	3.150	80	2.249	1020	10,100	38,000	10,800	46,500	10,800	48,000
PWKR 80 2RS	3.150	80	1.181	30	1.378	35	3.937	100	3.528	1600	15,100	56,000	17,800	70,000	12,800	57,000
PWKR 90 2RS	3.540	90	1.181	30	1.378	35	3.937	100	4.322	1960	17,300	63,000	20,500	82,000	19,600	87,000

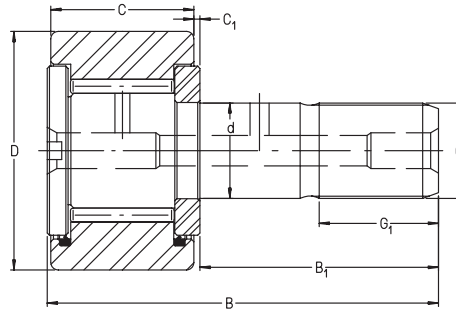
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PART NUMBER	F _{or perm} lbf	F _{or perm} N	B ₁ inch	B ₁ mm	G	G ₁ inch	G ₁ mm	C ₁ inch	C ₁ mm	M _a nut torque ft-lbf	M _a nut torque Nm	SPEED LIMIT GREASE rpm	DYN. CAP. lbf	DYN. CAP. N	STAT. CAP. lbf	STAT. CAP. N
PWKR 35 2RS	2,700	11,300	1.280	32.500	M 16x1.5	0.669	17	0.032	0.800	43	58	6500	5,200	23,000	6,100	27
PWKR 40 2RS	3,300	13,400	1.437	36.500	M 18x1.5	0.748	19	0.032	0.800	64	87	5500	5,600	24,800	7,000	31
PWKR 47 2RS	5,700	25,500	1.595	40.500	M 20x1.5	0.827	21	0.032	0.800	89	120	4200	8,800	39,000	11,200	50
PWKR 52 2RS	6,200	28,000	1.595	40.500	M 20x1.5	0.827	21	0.032	0.800	89	120	3400	9,800	43,500	13,500	60
PWKR 62 2RS	8,400	39,500	1.949	49.500	M 24x1.5	0.984	25	0.032	0.800	162	220	2600	13,300	59,000	17,800	79
PWKR 72 2RS	10,800	46,500	1.949	49.500	M 24x1.5	0.984	25	0.032	0.800	162	220	2100	14,600	65,000	20,900	93
PWKR 80 2RS	17,800	70,000	2.480	63.000	M 30x1.5	1.260	32	0.039	1.000	332	450	1800	21,400	95,000	30,000	133
PWKR 90 2RS	20,500	82,000	2.480	63.000	M 30x1.5	1.260	32	0.039	1.000	332	450	1800	21,400	95,000	30,000	133

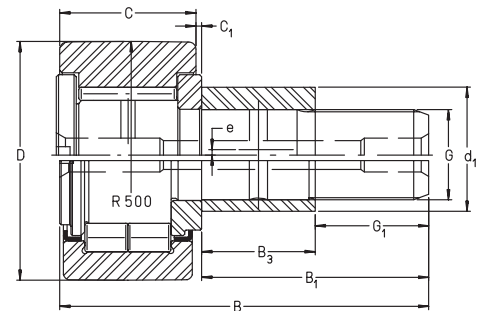
Cam Followers

CF SERIES

- Inch series
- Stud type cam follower
- Cylindrical tire OD
- Available with crowned OD – suffix Y
- Available sealed – suffix PP
- Available with eccentric sleeve – prefix E



CF



CFE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales

PART NUMBER	TIRE OD D inch	TIRE OD D mm	STUD DIA. d inch	STUD DIA. d mm	TIRE WIDTH C inch	TIRE WIDTH C mm	LENGTH B inch	LENGTH B mm	WEIGHT lbs	WEIGHT g	EFFECT. DYN. CAP. Cw lbf	EFFECT. DYN. CAP. Cw N	EFFECT. STAT. CAP. C0w lbf	EFFECT. STAT. CAP. C0w N
CF8-1	0.5	12.700	0.19	4.826	0.375	9.525	1.032	26.200	0.024	11	640	2850	830	3700
CF10-1	0.625	15.875	0.25	6.350	0.438	11.113	1.221	31.000	0.044	20	355	1580	435	1930
CF12	0.75	19.050	0.375	9.525	0.500	12.700	1.406	35.700	0.075	34	1,210	5400	1,780	7900
CF14	0.875	22.225	0.375	9.525	0.500	12.700	1.406	35.700	0.099	45	1,480	6600	2,380	10600
CF16	1	25.400	0.4375	11.112	0.625	15.875	1.654	42.000	0.159	72	1,730	7700	3,100	13700
CF18	1.125	28.575	0.4375	11.112	0.625	15.875	1.654	42.000	0.194	88	1,980	8800	3,700	16500
CF20	1.25	31.750	0.5	12.700	0.750	19.050	2.032	51.600	0.300	136	3,300	14600	4,600	20500
CF22	1.375	34.925	0.5	12.700	0.750	19.050	2.032	51.600	0.348	158	3,650	16200	5,400	23800
CF24	1.5	38.100	0.625	15.875	0.875	22.225	2.406	61.100	0.525	238	4,200	18600	6,600	29500
CF26	1.625	41.275	0.625	15.875	0.875	22.225	2.406	61.100	0.598	271	4,500	20000	7,300	32500
CF28	1.75	44.450	0.75	19.050	1.000	25.400	2.780	70.600	0.827	375	5,500	24400	9,700	43000
CF30	1.875	47.625	0.75	19.050	1.000	25.400	2.780	70.600	0.924	419	5,700	25500	10,600	47000
CF32	2	50.800	0.875	22.225	1.250	31.750	3.280	83.300	1.352	613	7,400	33000	11,200	50000
CF36	2.25	57.150	0.875	22.225	1.250	31.750	3.280	83.300	1.636	742	8,300	37000	13,500	60000
CF40	2.5	63.500	1	25.400	1.500	38.100	3.780	96.000	2.421	1098	11,500	51000	21,100	94000
CF44	2.75	69.850	1	25.400	1.500	38.100	3.780	96.000	2.867	1300	12,100	54000	23,200	103000
CF48	3	76.200	1.25	31.750	1.750	44.450	4.280	108.700	4.123	1870	13,500	60000	28,000	125000
CF52	3.25	82.550	1.75	44.450	1.750	44.450	4.280	108.700	5.733	2600	14,600	65000	31,500	140000
CF64	4	101.600	1.5	38.100	2.250	57.150	5.780	146.800	9.316	4225	21,400	95000	55,000	244000

CONTINUED FROM ABOVE

PART NUMBER	B1 inch	B1 mm	THREADS G	G1 inch	G1 mm	C1 inch	C1 mm	NUT TORQUE ft-lbf	NUT TORQUE Nm	SPEED LIMIT rpm	DYN. CAP. C lbf	DYN. CAP. C N	STAT. CAP. C0 lbf	STAT. CAP. C0 N
CF8-1	0.625	15.875	10-32 UNF	0.25	6.350	0.031	0.79	0.67	0.9	10000	830	3700	1,080	4800
CF10-1	0.75	19.050	1/4-28 UNF	0.3125	7.938	0.031	0.79	1.58	2.1	9000	940	4200	1,350	6000
CF12	0.875	22.225	3/8-24 UNF	0.375	9.525	0.031	0.79	5.42	7.3	6000	1,910	8500	3,100	13700
CF14	0.875	22.225	3/8-24 UNF	0.375	9.525	0.031	0.79	5.42	7.3	6000	1,910	8500	3,100	13700
CF16	1	25.400	7/16-20 UNF	0.5	12.700	0.031	0.79	8.75	11.9	5000	2,500	11200	4,750	21200
CF18	1	25.400	7/16-20 UNF	0.5	12.700	0.031	0.79	8.75	11.9	5000	2,500	11200	4,750	21200
CF20	1.25	31.750	1/2-20 UNF	0.625	15.875	0.031	0.79	13.75	18.6	4400	4,500	20100	6,500	29000
CF22	1.25	31.750	1/2-20 UNF	0.625	15.875	0.031	0.79	13.75	18.6	4400	4,500	20100	6,500	29000
CF24	1.5	38.100	5/8-18 UNF	0.75	19.050	0.031	0.79	27.92	37.8	3400	5,400	24200	8,700	38500
CF26	1.5	38.100	5/8-18 UNF	0.75	19.050	0.031	0.79	27.92	37.8	3400	5,400	24200	8,700	38500
CF28	1.75	44.450	3/4-16 UNF	0.875	22.225	0.031	0.79	50.00	67.8	2700	7,000	31000	12,400	55000
CF30	1.75	44.450	3/4-16 UNF	0.875	22.225	0.031	0.79	50.00	67.8	2700	7,000	31000	12,400	55000
CF32	2	50.800	7/8-14 UNF	1	25.400	0.031	0.79	79.17	107	2300	10,300	46000	16,600	74000
CF36	2	50.800	7/8-14 UNF	1	25.400	0.031	0.79	79.17	107	2300	10,300	46000	16,600	74000
CF40	2.25	57.150	1-14 UNF	1.125	28.575	0.031	0.79	120.83	164	2000	13,900	62000	25,000	112000
CF44	2.25	57.150	1-14 UNF	1.125	28.575	0.031	0.79	120.83	164	2000	13,900	62000	25,000	112000
CF48	2.5	63.500	1-1/4-12 UNF	1.25	31.750	0.031	0.79	187.50	254	1600	18,200	81000	40,000	177000
CF52	2.5	63.500	1-1/4-12 UNF	1.25	31.750	0.031	0.79	187.50	254	1600	18,200	81000	39,500	176000
CF64	3.5	88.900	1-1/2-12UNF	1.5	38.100	0.031	0.79	254.17	345	1300	27,500	122000	73,000	325000





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