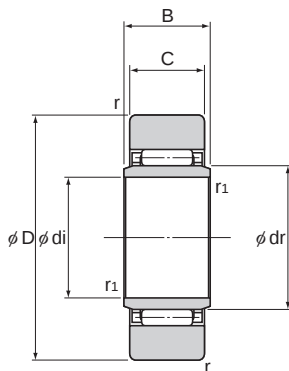
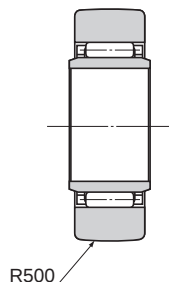


Model NAST (Separable Type)

Optional specifications		Symbol
Material	Carbon steel	No Symbol
	Stainless steel	M
Roller guide	With cage	No Symbol
Seal	Without seal	No Symbol
Outer ring shape	Cylindrical outer ring	No Symbol
	Spherical outer ring	R



Model NAST



Model NAST-R

Unit: mm

Model No.	Main dimensions								Basic load rating		Track load capacity		Rotational speed limit*	Mass
	Inner diameter di	Inscribed bore diameter dr	Outer diameter D	B	C	r _{min}	r _{1min}	r _{2min}	C	C ₀	Cylindrical outer ring kN	Spherical outer ring kN		
NAST 6	6	10	19	10	9.8	0.3	0.3	0.3	4.12	4.55	3.53	1.37	20000	17.8
NAST 8	8	12	24	10	9.8	0.6	0.3	0.3	5.68	5.89	4.02	1.86	17000	28
NAST 10	10	14	30	12	11.8	1	0.3	0.3	9.7	9.67	5.59	2.45	15000	50
NAST 12	12	16	32	12	11.8	1	0.3	0.3	10.4	10.9	5.98	2.74	13000	58
NAST 15	15	20	35	12	11.8	1	0.3	0.3	12.3	14.3	6.57	3.14	10000	62
NAST 17	17	22	40	16	15.8	1	0.3	0.3	17.4	20.9	10.9	3.72	9500	110
NAST 20	20	25	47	16	15.8	1	0.3	0.3	19.2	24.5	12.7	4.61	8500	155
NAST 25	25	30	52	16	15.8	1	0.3	0.3	20.7	28.4	14.1	5.29	7000	180
NAST 30	30	38	62	20	19.8	1	0.6	0.6	30.3	45.4	22.1	6.66	5500	320
NAST 35	35	42	72	20	19.8	1	0.6	0.6	32.2	50.6	25.7	8.13	5000	440
NAST 40	40	50	80	20	19.8	1.5	1	1	35.7	61.6	26.9	9.31	4000	530
○ NAST 45	45	55	85	20	19.8	1.5	1	1	37.1	66.4	28.5	10.1	4000	580
NAST 50	50	60	90	20	19.8	1.5	1	1	38.7	71.8	30.2	11	3500	635

Note1) ○: Model NAST45 is available only in carbon steel.

Note2) The rotation speed limit value in the table (*) applies to models using grease lubrication. With those models using oil lubrication, up to 130% of this value is permitted.

For information on accuracy standards, please refer to A20-9.

Model number coding

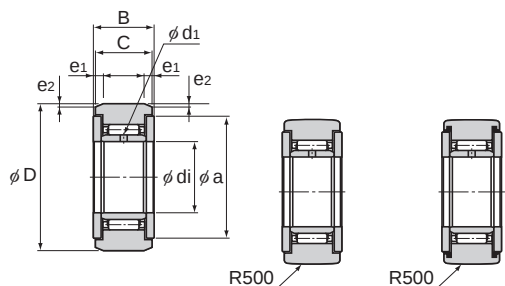
NAST 25 M R

No Symbol : Cylindrical outer ring
R : Spherical outer ring

No symbol: Carbon steel
M : Stainless steel

Model NAST-ZZ (Separable Type, with Side Plates)

Optional specifications		Symbol
Material	Carbon steel	No Symbol
	Stainless steel	M
Roller guide	With cage	No Symbol
Seal	Without seal	No Symbol
	With seal	UU
Outer ring shape	Cylindrical outer ring	No Symbol
	Spherical outer ring	R



Model NAST-ZZ

Model NAST-ZZR

Model NAST-ZZUUR

Unit: mm

Model No.	Main dimensions								Basic load rating		Track load capacity		Rotational speed limit*	Mass
	Inner diameter di	Outer diameter D	B	C	a	e ₁	e ₂	Oil hole d ₁	C	C ₀	Cylindrical outer ring kN	Spherical outer ring kN		
NAST 6ZZ	6	19	14	13.8	14	2.5	0.8	1.5	4.12	4.55	3.53	1.37	20000	24.5
NAST 8ZZ	8	24	14	13.8	17.5	2.5	0.8	1.5	5.68	5.89	4.51	1.86	17000	39
NAST 10ZZ	10	30	16	15.8	23.5	2.5	0.8	2.0	9.7	9.67	6.86	2.45	15000	65
NAST 12ZZ	12	32	16	15.8	25.5	2.5	0.8	2.0	10.4	10.9	7.35	2.74	13000	75
NAST 15ZZ	15	35	16	15.8	29	2.5	0.8	2.0	12.3	14.3	8.04	3.14	10000	83
NAST 17ZZ	17	40	20	19.8	32.5	3	1	2.0	17.4	20.9	11.8	3.72	9500	135
NAST 20ZZ	20	47	20	19.8	38	3	1	2.5	19.2	24.5	13.8	4.61	8500	195
NAST 25ZZ	25	52	20	19.8	43	3	1	2.5	20.7	28.4	15.3	5.29	7000	225
NAST 30ZZ	30	62	25	24.8	50.5	4	1.2	3.0	30.3	45.4	22.1	6.66	5500	400
NAST 35ZZ	35	72	25	24.8	53.5	4	1.2	3.0	32.2	50.6	25.7	8.13	5000	550
NAST 40ZZ	40	80	26	25.8	61.5	4	1.2	3.0	35.7	61.6	30.3	9.31	4000	710
○ NAST 45ZZ	45	85	26	25.8	66.5	4	1.2	3.0	37.1	66.4	31.1	10.1	4000	760
NAST 50ZZ	50	90	26	25.8	76	4	1.2	3.0	38.7	71.8	34	11	3500	830

Note1) ○: Model NAST45ZZ is available only in carbon steel.

Note2) The rotation speed limit value in the table (*) applies to models that have no seal and use grease lubrication. With those models using oil lubrication, up to 130% of this value is permitted. With those attached with seals, up to 70% of this value is permitted.

For information on accuracy standards, please refer to **A20-9**.

Model number coding

NAST 25 M ZZ UU R

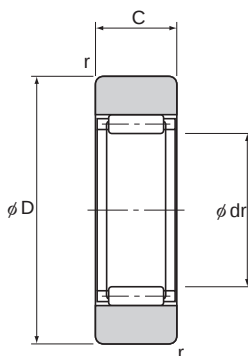
No symbol: Carbon steel
M : Stainless steel

No Symbol : Cylindrical outer ring
R : Spherical outer ring

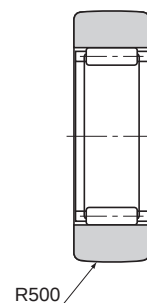
No symbol: Without seal
UU : With seal

Model RNAS (Separable Type, No Inner Ring)

Optional specifications		Symbol
Material	Carbon steel	No Symbol
	Stainless steel	M
Roller guide	With cage	No Symbol
Seal	Without seal	No Symbol
Outer ring shape	Cylindrical outer ring	No Symbol
	Spherical outer ring	R



Model RNAS



Model RNAS-R

Unit: mm

Model No.	Main dimensions				Basic load rating		Track load capacity		Rotational speed limit*	Mass
	Inscribed bore diameter dr	Outer diameter D	C	r _{min}	C kN	C ₀ kN	Cylindrical outer ring kN	Spherical outer ring kN		
RNAS 5	7	16	7.8	0.3	2.74	2.39	2.35	1.08	30000	8.9
RNAS 6	10	19	9.8	0.3	4.12	4.55	3.53	1.37	20000	13.9
RNAS 8	12	24	9.8	0.6	5.68	5.89	4.02	1.86	17000	23.5
RNAS 10	14	30	11.8	1	9.7	9.67	5.59	2.45	15000	42.5
RNAS 12	16	32	11.8	1	10.4	10.9	5.98	2.74	13000	49.5
RNAS 15	20	35	11.8	1	12.3	14.3	6.57	3.14	10000	50
RNAS 17	22	40	15.8	1	17.4	20.9	10.9	3.72	9500	90
RNAS 20	25	47	15.8	1	19.2	24.5	12.7	4.61	8500	135
RNAS 25	30	52	15.8	1	20.7	28.4	14.1	5.29	7000	152
RNAS 30	38	62	19.8	1	30.3	45.4	22.1	6.66	5500	255
RNAS 35	42	72	19.8	1	32.2	50.6	25.7	8.13	5000	375
RNAS 40	50	80	19.8	1.5	35.7	61.6	26.9	9.31	4000	420
○ RNAS 45	55	85	19.8	1.5	37.1	66.4	28.5	10.1	4000	460
RNAS 50	60	90	19.8	1.5	38.7	71.8	30.2	11	3500	500

Note1) ○: Model RNAS45 is available only in carbon steel.

Note2) The rotation speed limit value in the table (*) applies to models using grease lubrication. With those models using oil lubrication, up to 130% of this value is permitted.

For information on accuracy standards, please refer to A20-9.

Model number coding

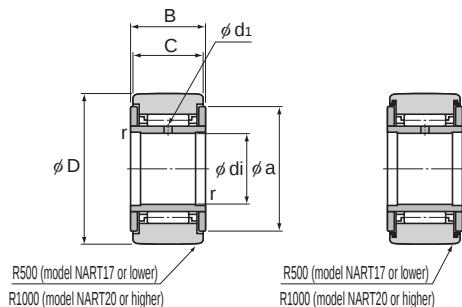
RNAS 25 M R

No symbol: Cylindrical outer ring
R : Spherical outer ring

No symbol: Carbon steel
M : Stainless steel

Model NART-R (Non-separable Type)

Optional specifications		Symbol
Material	Carbon steel	No Symbol
	Stainless steel	M
Roller guide	With cage	No Symbol
	Full rollers	V
Seal	Without seal	No Symbol
	With seal	UU
Outer ring shape	Spherical outer ring	R



Model NART-R

Model NART-UUR

Unit: mm

Model No.	Main dimensions							Basic load rating				Track load capacity Spherical outer ring kN	Rotational speed limit*		Mass	
	Inner diameter	Outer diameter					Oil hole	With cage		Full rollers			With cage	Full rollers	With cage	Full rollers
	di	D	B	C	a	r _{min}	d _i	C kN	C ₀ kN	C kN	C ₀ kN		min ⁻¹	min ⁻¹	g	g
NART 5R	5	16	12	11	12	0.3	1.5	2.84	2.65	6.46	7.81	1.08	25000	10500	14.5	15.1
NART 6R	6	19	12	11	14	0.3	1.5	3.33	3.35	7.58	10.2	1.37	20000	8700	20.5	21.5
NART 8R	8	24	15	14	17.5	0.3	1.5	5.68	5.89	11.7	15.6	1.86	17000	7000	41.5	42.5
NART 10R	10	30	15	14	23.5	0.6	2	7.94	7.59	15.8	18.5	2.45	15000	5700	64.5	66.5
NART 12R	12	32	15	14	25.5	0.6	2	8.53	8.44	17	21	2.74	13000	5200	71	73
NART 15R	15	35	19	18	29	0.6	2	13.7	16.4	25.3	36.9	3.14	10000	4300	102	106
NART 17R	17	40	21	20	32.5	1	2	17.4	19.3	32	46.6	3.72	9500	3900	149	155
NART 20R	20	47	25	24	38	1	2.5	22.9	30.6	41.7	67.7	7.15	8000	3400	250	255
NART 25R	25	52	25	24	43	1	2.5	24.6	33.3	45.4	79.5	8.23	7000	3000	285	295
NART 30R	30	62	29	28	50.5	1	3	33.4	51.4	60	111	10.5	5500	2400	470	485
NART 35R	35	72	29	28	53.5	1	3	35.5	57.3	63.2	123	12.9	5000	2200	640	655
NART 40R	40	80	32	30	61.5	1	3	44.6	81.4	76.4	166	14.9	4000	1900	845	865
○ NART 45R	45	85	32	30	66.5	1	3	46.6	88.6	80.5	183	16.1	4000	1700	915	935
NART 50R	50	90	32	30	76	1	3	48.3	95.7	84.4	200	17.3	3500	1600	980	1010

Note1) ○: Model NART45R is available only in carbon steel.

Note2) The rotation speed limit value in the table (*) applies to models that have no seal and use grease lubrication. With those models using oil lubrication, up to 130% of this value is permitted. With those attached with seals, up to 70% of this value is permitted.

For information on accuracy standards, please refer to **A20-9**.

Model number coding

NART 25 M UU V R

No symbol: Carbon steel
M : Stainless steel

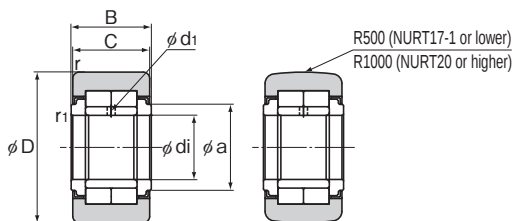
R : Spherical outer ring

No symbol: With cage
V : Full-roller Type

No symbol: Without seal
UU : With seal

Model NURT (Double-row Cylindrical Rollers)

Optional specifications		Symbol
Material	Carbon steel	No Symbol
Roller guide	Full rollers	No Symbol
Seal	Without seal	No Symbol
Outer ring shape	Cylindrical outer ring	X
	Spherical outer ring	R



Model NURT-X

Model NURT-R

Unit: mm

Model No.	Main dimensions								Basic load rating		Maximum permissible load F_o kN	Track load capacity		Rotational speed limit min^{-1}	Mass g
	Inner diameter d_i	Outer diameter D	B	C	a	r_{smin}	r_{1smin}	Oil hole d_1	C kN	C_o kN		Cylindrical outer ring kN	Spherical outer ring kN		
NURT 15	15	35	19	18	20	0.6	0.3	2	23.4	27.2	11.5	11.2	3.14	5200	100
NURT 15-1	15	42	19	18	20	0.6	0.3	2	23.4	27.2	27.2	13.3	4.06	5200	160
NURT 17	17	40	21	20	22	1	0.5	2.5	25.2	30.9	21.2	14.4	3.72	4700	150
NURT 17-1	17	47	21	20	22	1	0.5	2.5	25.2	30.9	30.9	16.9	4.72	4700	225
NURT 20	20	47	25	24	27	1	0.5	2.5	38.9	48.9	24.8	21	7.15	3800	245
NURT 20-1	20	52	25	24	27	1	0.5	2.5	38.9	48.9	42.7	23.2	8.23	3800	310
NURT 25	25	52	25	24	31	1	0.5	2.5	43	58.1	27.1	23.2	8.23	3300	285
NURT 25-1	25	62	25	24	31	1	0.5	2.5	43	58.1	58.1	27.6	10.5	3300	450
NURT 30	30	62	29	28	38	1	0.5	2.5	57.5	74.3	34.3	32.9	10.5	2800	465
NURT 30-1	30	72	29	28	38	1	0.5	2.5	57.5	74.3	74.3	38.2	12.9	2800	695
NURT 35	35	72	29	28	44	1.1	0.6	3	63.3	87.5	52.4	38.2	12.9	2300	635
NURT 35-1	35	80	29	28	44	1.1	0.6	3	63.3	87.5	87.5	42.4	14.9	2300	840
NURT 40	40	80	32	30	51	1.1	0.6	3	86.9	124	45.7	44.1	14.9	1900	820
NURT 40-1	40	90	32	30	51	1.1	0.6	3	86.9	124	96.5	49.6	17.3	1900	1130
NURT 45	45	85	32	30	55	1.1	0.6	3	91.7	137	48	46.9	16.1	1700	890
NURT 45-1	45	100	32	30	55	1.1	0.6	3	91.7	137	132	55.2	20.5	1700	1400
NURT 50	50	90	32	30	60	1.1	0.6	3	96.3	149	50.1	49.6	17.3	1500	960
NURT 50-1	50	110	32	30	60	1.1	0.6	3	96.3	149	149	60.7	23.3	1500	1690

Note) For information on accuracy standards, please refer to **A20-9**.

Model number coding

NURT 25 X

X: Cylindrical outer ring
R: Spherical outer ring