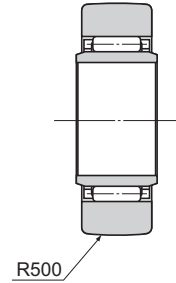
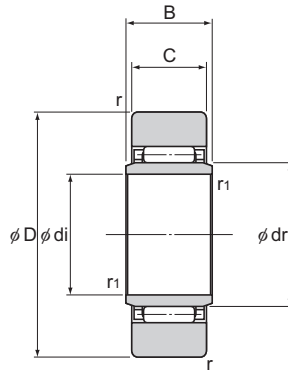


Model NAST (Separable Type)

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* min ⁻¹	Mass g
	Inner diameter di	Inscribed bore diameter dr	Outer diameter D	B	C	r _{min}	r _{1min}	C kN	C ₀ kN	Cylindrical outer ring kN	Spherical outer ring kN		
NAST 6	6	10	19	10	9.8	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	5.68	5.89	4.02	1.86	17000	28
NAST 10	10	14	30	12	11.8	1	0.3	9.7	9.67	5.59	2.45	15000	50
NAST 12	12	16	32	12	11.8	1	0.3	10.4	10.9	5.98	2.74	13000	58
NAST 15	15	20	35	12	11.8	1	0.3	12.3	14.3	6.57	3.14	10000	62
NAST 17	17	22	40	16	15.8	1	0.3	17.4	20.9	10.9	3.72	9500	110
NAST 20	20	25	47	16	15.8	1	0.3	19.2	24.5	12.7	4.61	8500	155
NAST 25	25	30	52	16	15.8	1	0.3	20.7	28.4	14.1	5.29	7000	180
NAST 30	30	38	62	20	19.8	1	0.6	30.3	45.4	22.1	6.66	5500	320
NAST 35	35	42	72	20	19.8	1	0.6	32.2	50.6	25.7	8.13	5000	440
NAST 40	40	50	80	20	19.8	1.5	1	35.7	61.6	26.9	9.31	4000	530
○ NAST 45	45	55	85	20	19.8	1.5	1	37.1	66.4	28.5	10.1	4000	580
NAST 50	50	60	90	20	19.8	1.5	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

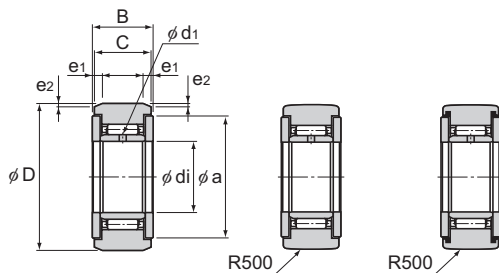
NAST 25 M R

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* min ⁻¹	Mass g
	Inner diameter di	Outer diameter D	B	C	a	e ₁	e ₂	Lubrication 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	9.7	9.67	6.86	2.45	15000	65
NAST 12ZZ	12	32	16	15.8	25.5	2.5	0.8	2	10.4	10.9	7.35	2.74	13000	75
NAST 15ZZ	15	35	16	15.8	29	2.5	0.8	2	12.3	14.3	8.04	3.14	10000	83
NAST 17ZZ	17	40	20	19.8	32.5	3	1	2	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	30.3	45.4	22.1	6.66	5500	400
NAST 35ZZ	35	72	25	24.8	53.5	4	1.2	3	32.2	50.6	25.7	8.13	5000	550
NAST 40ZZ	40	80	26	25.8	61.5	4	1.2	3	35.7	61.6	30.3	9.31	4000	710
○ NAST 45ZZ	45	85	26	25.8	66.5	4	1.2	3	37.1	66.4	31.1	10.1	4000	760
NAST 50ZZ	50	90	26	25.8	76	4	1.2	3	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

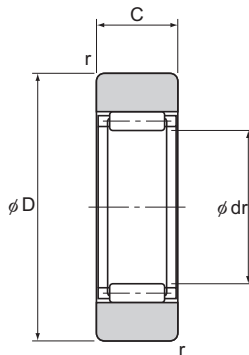
No symbol: Carbon steel
M : Stainless steel

No Symbol : Cylindrical outer ring
R : Spherical outer ring

No symbol: Without seal
UU : With seal

Model RNAST (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 RNAST



Model RNAST-R

Unit: mm

Model No.	Main dimensions				Basic load rating		Track load capacity		Rotational speed limit* min ⁻¹	Mass g
	Inscribed bore diameter dr	Outer diameter D	C	r_{\min}	C kN	C_0 kN	Cylindrical outer ring kN	Spherical outer ring kN		
RNAST 5	7	16	7.8	0.3	2.74	2.39	2.35	1.08	30000	8.9
RNAST 6	10	19	9.8	0.3	4.12	4.55	3.53	1.37	20000	13.9
RNAST 8	12	24	9.8	0.6	5.68	5.89	4.02	1.86	17000	23.5
RNAST 10	14	30	11.8	1	9.7	9.67	5.59	2.45	15000	42.5
RNAST 12	16	32	11.8	1	10.4	10.9	5.98	2.74	13000	49.5
RNAST 15	20	35	11.8	1	12.3	14.3	6.57	3.14	10000	50
RNAST 17	22	40	15.8	1	17.4	20.9	10.9	3.72	9500	90
RNAST 20	25	47	15.8	1	19.2	24.5	12.7	4.61	8500	135
RNAST 25	30	52	15.8	1	20.7	28.4	14.1	5.29	7000	152
RNAST 30	38	62	19.8	1	30.3	45.4	22.1	6.66	5500	255
RNAST 35	42	72	19.8	1	32.2	50.6	25.7	8.13	5000	375
RNAST 40	50	80	19.8	1.5	35.7	61.6	26.9	9.31	4000	420
○ RNAST 45	55	85	19.8	1.5	37.1	66.4	28.5	10.1	4000	460
RNAST 50	60	90	19.8	1.5	38.7	71.8	30.2	11	3500	500

Note1) ○: Model RNAST45 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

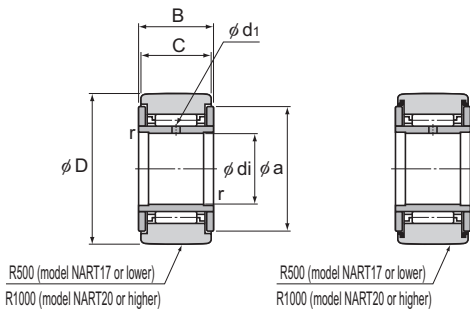
RNAST 25 M R

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	B	C	a	r _{min}	Lubrication hole d ₁	With cage		Full rollers			With cage	Full rollers	With cage	Full rollers
	di	D						C ₀ kN	C ₀ kN	C ₀ 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

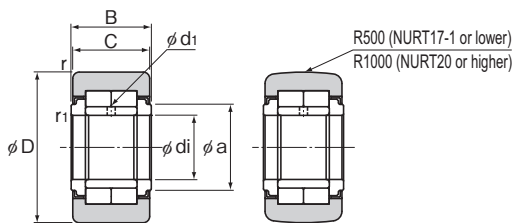
V : Full-roller Type

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_0 kN	Track load capacity		Rotational speed limit min^{-1}	Mass g
	Inner diameter d_i	Outer diameter D	B	C	a	r_{min}	$r_{1\text{min}}$	Lubrication hole d_1	C	C_0		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