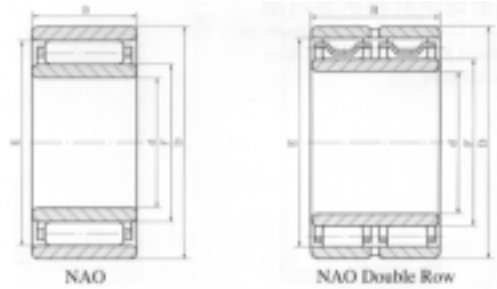


Heavy Duty Needle Roller Bearings  
Without Rib, With Inner Ring  
NAO,NAO Double Row Series



Shaft Diameter	Bearing Designation	Mass (g)	Boundary Dimensions					Basic Load Rating		Limiting Speed
								Dynamic	Static	
	NAO	(g)	d	D	B	F	E	Cr(N)	Cor(N)	Oil
6	NAO6x17x10TN	14	6	17	10	10	13	14500	5200	26000
9	NAO9x22x12TN	24	9	22	12	12	18	9500	9500	24000
12	NAO12x24x13	30	12	24	13	16	20	8500	11000	22000
	NAO12x24x20	45	12	24	20	16	20	13000	18800	22000
	NAO12x28x12	40	12	28	12	16	22	11000	11900	21000
15	NAO15x28x13	30	15	28	13	20	24	9300	13500	19000
	NAO15x32x12	50	15	32	12	20	26	13000	15400	19000
17	NAO17x30x13	42	17	30	13	22	26	10000	15100	18000
	NAO17x35x16	78	17	35	16	22	29	19000	25000	17000
20	NAO20x35x17	75	20	35	17	25	29	14000	24000	16000
	NAO20x37x16	82	20	37	16	25	32	20000	25000	15000
25	NAO25x40x17	88	25	40	17	30	35	18700	32000	13500
	NAO25x42x16	85	25	42	16	30	37	22000	31500	13500
	NAO25x42x32	190	25	42	32	30	37	37500	65000	13500
30	NAO30x45x13	77	30	45	13	35	40	15000	25000	12000
	NAO30x45x17	102	30	45	17	35	40	20000	35500	12000
	NAO30x45x26	155	30	45	26	35	40	25000	53000	12000
	NAO30x47x16	110	30	47	16	35	42	23000	35000	12000
	NAO30x47x18	120	30	47	18	35	42	26000	40000	12000
	NAO30x52x18	180	30	52	18	37	44	25000	42000	11000
35	NAO35x50x17	115	35	50	17	40	45	21000	39000	11000
	NAO35x55x20	190	35	55	20	40	47	31000	54000	9900
	NAO35x57x20.5	215	35	57	20.5	42	50	34000	55000	9900
40	NAO40x55x17	130	40	55	17	45	50	21400	44000	9900
	NAO40x65x20	280	40	65	20	50	58	33000	60000	8100
50	NAO50x68x20	230	50	68	20	55	60	27000	63000	7700
	NAO50x78x20	410	50	78	20	60	68	42000	80000	6800
70	NAO70x100x30	850	70	100	30	80	88	68000	170000	5500
75	NAO75x105x25	700	75	105	25	85	93	54000	130000	5000
80	NAO80x110x30	920	80	110	30	90	98	65000	163000	4500
90	NAO90x120x30	1050	90	120	30	100	108	68000	178000	4200

Remarks: 1) TN=The allowable working temperature for plastic cage: 120 (continuously); 150 (temporarily); 180 (for a shorttime).  
2) Allowable rotational speed applies to oil lubrication. For grease lubrication, a maximum of 60% of this value is allowable.