



Combined cylindrical roller/needle roller thrust bearings YRT series

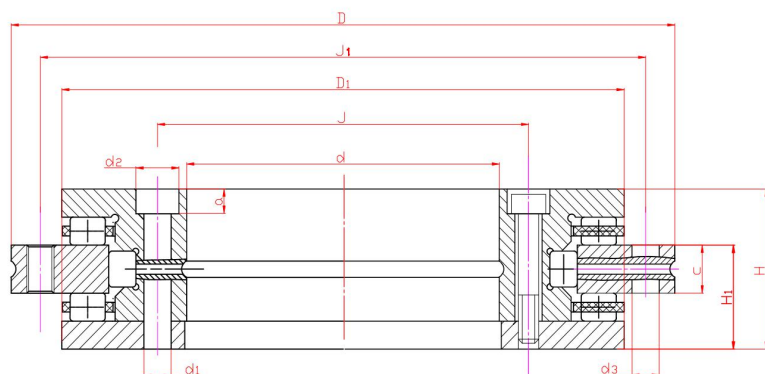
Dalian Goldbull Bearing Co.,Ltd

www.gb-bearing.com

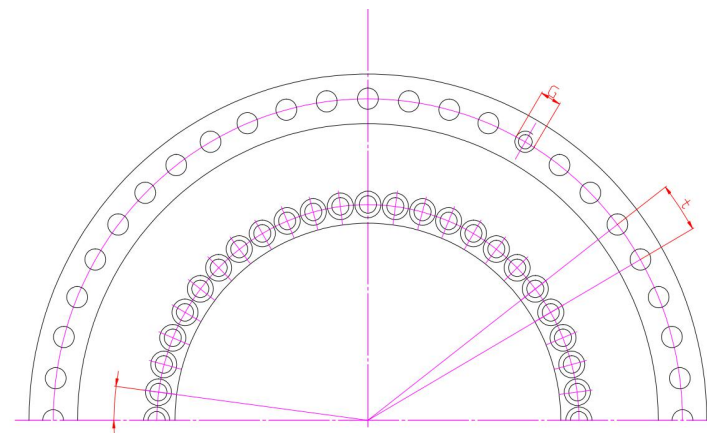
Tolerances for YRT combined cylindrical roller / needle roller thrust bearings

Bearing designation	d	Δ_{ds}		D	Δ_{Ds}		Δ_{H1}		Kia, Kea, Si, Se	
		min	max		min	max	Standard	Reduced	Standard	Reduced
	mm								μm	
YRT 50	50	0	-0.008	126	0	-0.011	± 0.125	± 0.025	2	1
YRT 80	80	0	-0.009	146	0	-0.011	± 0.150	± 0.025	3	1.5
YRT100	100	0	-0.010	185	0	-0.015	± 0.175	± 0.025	3	1.5
YRT 120	120	0	-0.010	210	0	-0.015	± 0.175	± 0.025	3	1.5
YRT 150	150	0	--0.013	240	0	-0.015	± 0.175	± 0.03	3	1.5
YRT 180	180	0	-0.013	280	0	-0.018	± 0.175	± 0.03	4	2
YRT 200	200	0	-0.015	300	0	-0.018	± 0.175	± 0.03	4	2
YRT 260	260	0	-0.018	385	0	-0.020	± 0.20	± 0.04	6	3
YRT 325	325	0	-0.023	450	0	-0.023	± 0.20	± 0.05	6	3
YRT 395	395	0	-0.023	525	0	-0.028	± 0.20	± 0.05	6	3
YRT 460	460	0	-0.023	600	0	-0.028	± 0.225	± 0.06	6	3
YRT 580	580	0	-0.025	750	0	-0.035	± 0.25	± 0.075	10	5
YRT 650	650	0	-0.038	870	0	-0.050	± 0.25	± 0.10	10	5
YRT 850	850	0	-0.050	1095	0	-0.063	± 0.30	± 0.12	12	6
YRT 950	950	0	-0.050	1200	0	-0.063	± 0.30	± 0.12	12	6
YRT 1030	1030	0	-0.063		0	-0.080	± 0.30	± 0.15	12	6
YRT 1200	1200	0	-0.063		0	-0.080	± 0.30	± 0.15	12	6

YRT series, high precision, combined cylindrical roller/needle roller thrust bearings

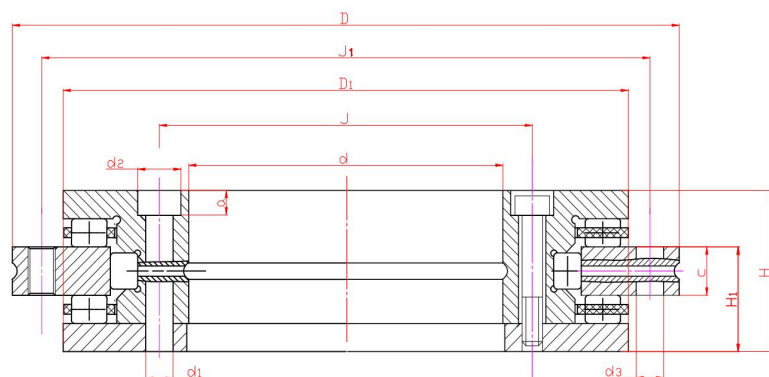


YRT

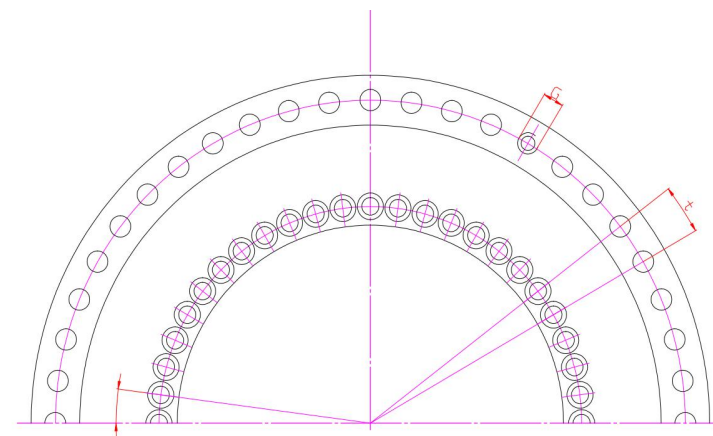


Bearing designation	Mess (kg)	Dimensions								Fixing Holes						Fixed screw
		mm								Inner ring				Outer ring		
		d	D	H	H1	C	D1	J	J1	d1	d2	a	Num	d3	num	Num
YRT 50	1.6	50	126	30	20	10	105	63	116	5.6	±	±	10	5.6	12	2
YRT 80 TN	2.4	80	146	35	23.35	12	130	92	138	5.6	10	4	10	4.6	12	2
YRT 80	2.4	80	146	35	23.35	12	130	92	138	5.6	10	4	10	4.6	12	2
YRT 100 TN	4.5	100	185	38	25	12	160	112	170	5.6	10	5.4	16	5.6	15	2
YRT 100	4.7	100	185	38	25	12	160	112	170	5.6	10	5.4	16	5.6	15	2
YRT 120 TN	5.3	120	210	40	26	12	184	135	195	7	11	6.2	22	7	21	2
YRT 120	5.5	120	210	40	26	12	184	135	195	7	11	6.2	22	7	21	2
YRT 150 TN	6.2	150	240	40	26	12	214	165	225	7	11	6.2	34	7	33	2
YRT 150	6.5	150	240	40	26	12	214	165	225	7	11	6.2	34	7	33	2

YRT series, high precision, combined cylindrical roller/needle roller thrust bearings

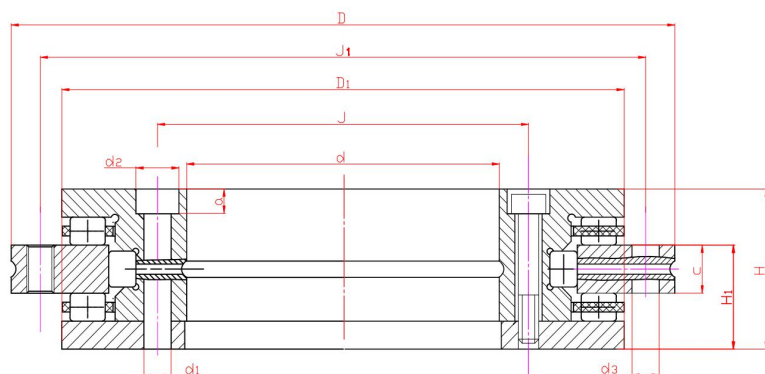


YRT

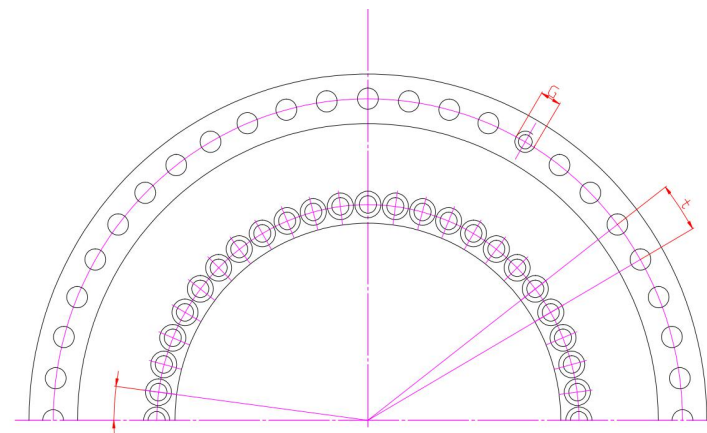


Threaded hole		Pitch	Screw tightening torque	Axial rated load		Radial rated load		Fatigue Load (kN)		Speed limit n_G	Bearing friction torque	Axial stiffness	Radial stiffness	Inclined stiffness	Bearing designation
				Dynamic load	Static load	Dynamic load	Static load	Axial P_u	Radial P_u		M_{RL}	C_{aL}	C_{rL}	C_{KL}	
G	num	Num. $\times t$	$M_A^{(2)}$ Nm	C_a kN	C_{oa} kN	C_r kN	C_{or} kN	kN	kN	rpm	Nm	kN/m	kN/m	kNm/mrad	
$\pm$	$\pm$	12 30°	8.5	56	280	28.5	49.5	33	7.1	440	2.5	0.25	1.1	1.25	YRT 50
$\pm$	$\pm$	12 30°	8.5	38	158	44	98	15.3	13	350	3	0.5	1.8	2.5	YRT 80 TN
$\pm$	$\pm$	12 30°	8.5	38	158	44	98	15.3	13	350	3	0.5	1.8	2.5	YRT 80
M5	3	18 20°	8.5	73	370	52	108	40.5	14.4	280	3	0.8	2	5	YRT 100 TN
M5	3	18 20°	8.5	73	370	52	108	40.5	14.4	280	3	0.8	2	5	YRT 100
M8	3	24 15°	14	80	445	70	148	46.5	18.3	230	7	1	2.2	7	YRT 120 TN
M8	3	24 15°	14	80	445	70	148	46.5	18.3	230	7	1	2.2	7	YRT 120
M8	3	36 10°	14	85	510	77	179	50	21	210	10	1.5	2.6	11	YRT 150 TN
M8	3	36 10°	14	85	510	77	179	50	21	210	10	1.5	2.6	11	YRT 150

YRT series, high precision, combined cylindrical roller/needle roller thrust bearings

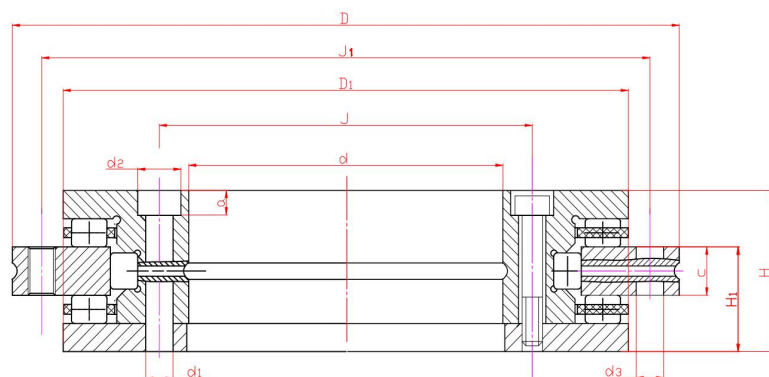


YRT

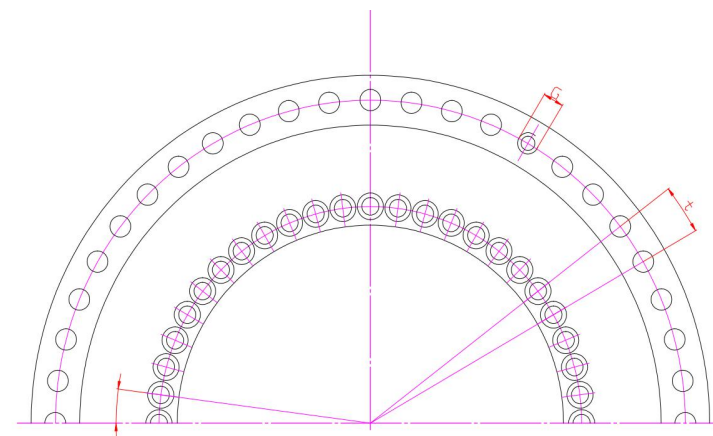


Bearing designation	Mess (kg)	Dimensions								Fixing Holes						Fixed screw
		mm								Inner ring				Outer ring		
		d	D	H	H1	C	D1	J	J1	d1	d2	a	Num	d3	num	Num
YRT 180TN	7.7	180	280	43	29	15	244	194	260	7	11	6.2	46	7	45	2
YRT 180	8	180	280	43	29	15	244	194	260	7	11	6.2	46	7	45	2
YRT 200 TN	9.7	200	300	45	30	15	274	215	285	7	11	6.2	46	7	45	2
YRT 200	10	200	300	45	30	15	274	215	285	7	11	6.2	46	7	45	2
YRT 260 TN	18.3	260	385	55	36.5	18	345	280	365	9.3	15	8.2	34	9.3	33	2
YRT 260	18.6	260	385	55	36.5	18	345	280	365	9.3	15	8.2	34	9.3	33	2
YRT 325 TN	25	325	450	60	40	20	415	342	430	9.3	15	8.2	34	9.3	33	2
YRT 325	25.5	325	450	60	40	20	415	342	430	9.3	15	8.2	34	9.3	33	2
YRT 395 TN	33	395	525	65	42.5	20	486	415	505	9.3	15	8.2	46	9.3	45	2

YRT series, high precision, combined cylindrical roller/needle roller thrust bearings

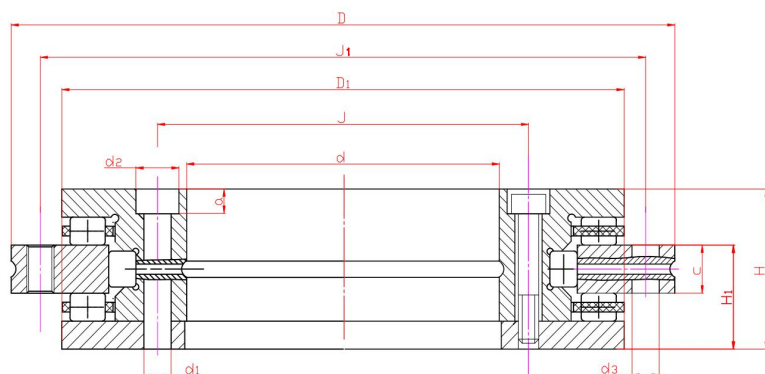


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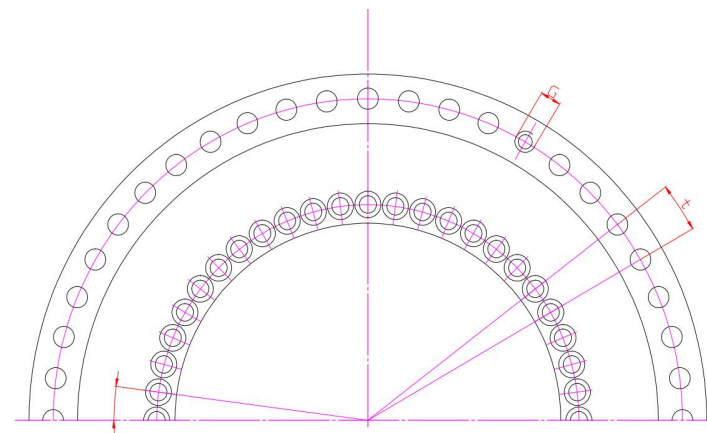


Threaded hole		Pitch	Screw tightening torque	Axial rated load		Radial rated load		Fatigue Load (kN)		Speed limit n_G	Bearing friction torque	Axial stiffness	Radial stiffness	Inclined stiffness	Bearing designation
				Dynamic load	Static load	Dynamic load	Static load	Axial P_u	Radial P_u		M_{RL}	C_{aL}	C_{rL}	C_{KL}	
G	num	Num. $\times t$	$M_A^2)$ Nm	C_a kN	C_{oa} kN	C_r kN	C_{or} kN	kN	kN	rpm	Nm	kN/m	kN/m	kNm/mrad	
M8	3	48 7.5°	14	92	580	83	209	56	23.3	190	12	2.2	3	17	YRT 180TN
M8	3	48 7.5°	14	92	580	83	209	56	23.3	190	12	2.2	3	17	YRT 180
M8	3	48 7.5°	14	98	650	89	236	61	25.5	170	14	3	3.5	23	YRT 200 TN
M8	3	48 7.5°	14	98	650	89	236	61	25.5	170	14	3	3.5	23	YRT 200
M12	3	36 10°	34	109	810	102	310	71	31	130	20	5.5	4.5	45	YRT 260 TN
M12	3	36 10°	34	109	810	102	310	71	31	130	20	5.5	4.5	45	YRT 260
M12	3	36 10°	34	186	1710	134	415	131	38.5	110	40	8.5	5	80	YRT 325 TN
M12	3	36 10°	34	186	1710	134	415	131	38.5	110	40	8.5	5	80	YRT 325
M12	3	48 7.5°	34	202	2010	133	435	146	43.5	90	55	12.5	6	130	YRT 395 TN

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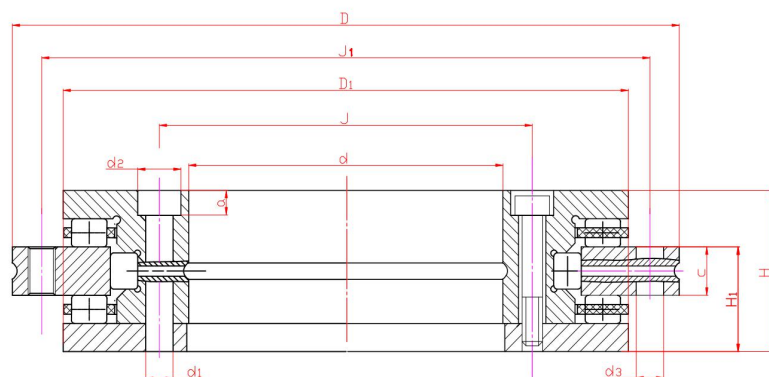
YRT



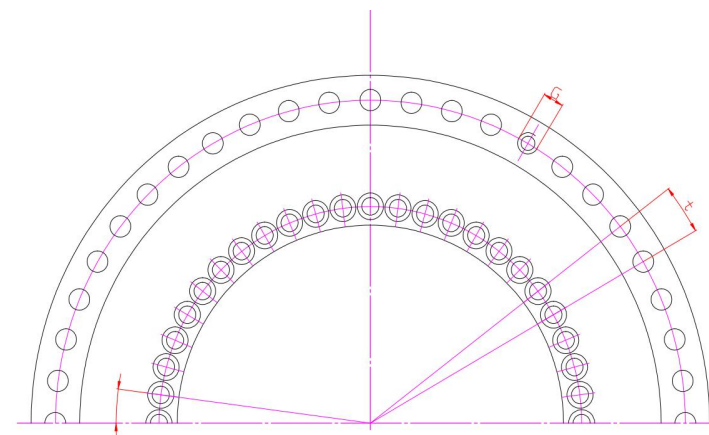
Bearing designation	Mess (kg)	Dimensions								Fixing Holes						Fixed screw
		mm								Inner ring				Outer ring		
		d	D	H	H1	C	D1	J	J1	d1	d2	a	Num	d3	num	Num
YRT 395	33.8	395	525	65	42.5	20	486	415	505	9.3	15	8.2	46	9.3	45	2
YRT 460	45	460	600	70	46	22	560	482	580	9.3	15	8.2	46	9.3	45	2
YRT 580	89	580	750	90	60	30	700	610	720	11.4	18	11	46	11.4	42	2
YRT 650	170	650	870	122	78	34	800	680	830	14	20	13	46	14	42	2
YRT 850	253	850	1095	124	80.5	37	1018	890	1055	18	26	17	58	18	54	2
YRT 950	312	950	1200	132	86	40	1130	990	1160	18	26	17	58	18	54	2

Note: M_{RL} in the table while $n=5$ r/min, the screw starting torque will be $2\sim 2.5 \times M_{RL}$.

YRT series, high precision, combined cylindrical roller/needle roller thrust bearings



YRT



Threaded hole		Pitch	Screw tightening torque	Axial rated load		Radial rated load		Fatigue Load (kN)		Speed limit n_G	Bearing friction torque	Axial stiffness	Radial stiffness	Inclined stiffness	Bearing designation
				Dynamic load	Static load	Dynamic load	Static load	Axial P_u	Radial P_u		M_{RL}	C_{aL}	C_{rL}	C_{KL}	
G	num	Num. $\times t$	$M_A^{(2)}$ Nm	C_a kN	C_{oa} kN	C_r kN	C_{or} kN	kN	kN	rpm	Nm	kN/m	kN/m	kNm/mrad	
M12	3	48 7.5°	34	202	2010	133	435	146	43.5	90	55	12.5	6	130	YRT 395
M12	3	48 7.5°	34	217	2300	187	650	161	59	80	70	18	7	200	YRT 460
M12	6	48 7.5°	68	390	3600	211	820	206	69	60	140	30	9	380	YRT 580
M12	6	48 7.5°	116	495	5200	415	1500	285	113	55	200	45	10	550	YRT 650
M16	6	60 6°	284	560	6600	475	1970	340	136	40	300	80	13	1100	YRT 850
M16	6	60 6°	284	1040	10300	600	2450	510	162	40	600	100	14	1500	YRT 950

Note: M_{RL} in the table while $n = 5$ r/min, the screw starting torque will be $2 \sim 2.5 \times M_{RL}$.