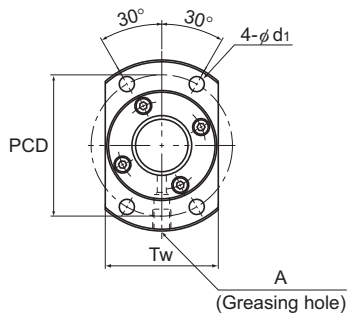


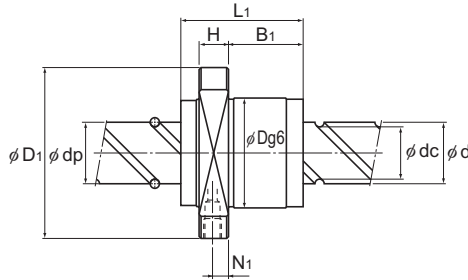
WGF No Preload

DN value	70000
----------	-------



Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows × turns	Basic load rating		Rigidity K N/μm
						Ca kN	C _{0a} kN	
WGF 0812-3	8	12	8.4	6.6	2×1.65	2.2	3.9	110
WGF 1015-3	10	15	10.5	8.3	2×1.65	3.3	6.2	140
WGF 1320-3	13	20	13.5	10.8	2×1.65	4.7	9.6	180
WGF 1520-1.5	15	20	15.75	12.5	1×1.5	4.4	7.9	100
WGF 1520-3	15	20	15.75	12.5	2×1.5	8.1	15.8	190
WGF 1530-1	15	30	15.75	12.5	2×0.6	3.5	5.4	90
WGF 1530-3	15	30	15.75	12.5	2×1.6	8.1	14.6	220
WGF 1540-1.5	15	40	15.75	12.5	2×0.75	3.9	7.4	110
WGF 2040-1	20	40	20.75	17.5	2×0.65	4.3	8	110
WGF 2040-3	20	40	20.75	17.5	2×1.65	9.5	20.2	280
WGF 2060-1.5	20	60	20.75	17.5	2×0.75	4.5	11	140
WGF 2550-1	25	50	26	21.9	2×0.65	6.4	12.5	140
WGF 2550-3	25	50	26	21.9	2×1.65	14.3	31.7	340
WGF 3060-1	30	60	31.25	26.4	2×0.65	8.9	18	170
WGF 3060-3	30	60	31.25	26.4	2×1.65	19.9	45.7	410
WGF 3090-1.5	30	90	31.25	26.4	2×0.75	9.8	25.8	200
WGF 4080-1	40	80	41.75	35.2	2×0.65	15	32.1	220
WGF 4080-3	40	80	41.75	35.2	2×1.65	33.4	81.4	530
WGF 50100-1	50	100	52.2	44.1	2×0.65	22.4	50.1	270
WGF 50100-3	50	100	52.2	44.1	2×1.65	49.9	127.2	650

Positioning Ball Screw



Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm ²	Nut mass kg	Shaft mass kg/m	
	Outer diameter	Flange diameter	Overall length											Greasing hole
	D	D ₁	L ₁	H	B ₁	PCD	d ₁	Tw	N ₁	A				
	18	31	27	4	17	25	3.4	20	—	—	3.16×10^{-9}	0.054	0.35	
	23	40	33	5	22	32	4.5	25	—	—	7.71×10^{-9}	0.11	0.55	
	28	45	43	5	29	37	4.5	30	—	—	2.2×10^{-8}	0.18	0.96	
	32	53	45	10	28	43	5.5	33	5	M6	3.9×10^{-8}	0.29	1.22	
	32	53	45	10	28	43	5.5	33	5	M6	3.9×10^{-8}	0.29	1.22	
	32	53	33	10	17	43	5.5	33	5	M6	3.9×10^{-8}	0.23	1.26	
	32	53	63	10	47	43	5.5	33	5	M6	3.9×10^{-8}	0.38	1.26	
	32	53	42	10	26.3	43	5.5	33	5	M6	3.9×10^{-8}	0.28	1.28	
	37	57	41	10	25	47	5.5	38	5.5	M6	1.23×10^{-7}	0.24	2.34	
	37	57	81	10	65	47	5.5	38	5.5	M6	1.23×10^{-7}	0.48	2.34	
	37	57	60	10	40.1	47	5.5	38	5.5	M6	1.23×10^{-7}	0.4	2.37	
	45	69	52	12	31.5	57	6.6	46	7	M6	3.01×10^{-7}	0.43	3.66	
	45	69	102	12	81.5	57	6.6	46	7	M6	3.01×10^{-7}	0.85	3.66	
	55	89	62	15	37	71	9	56	9	M6	6.24×10^{-7}	1.11	5.28	
	55	89	122	15	97	71	9	56	9	M6	6.24×10^{-7}	1.9	5.28	
	55	89	92	15	61.3	71	9	56	9	M6	6.24×10^{-7}	1.51	5.34	
	73	114	79	17	50.5	93	11	74	9	M6	1.97×10^{-6}	2.34	9.38	
	73	114	159	17	130.5	93	11	74	9	M6	1.97×10^{-6}	4.18	9.38	
	90	135	98	20	64	112	14	92	10	M6	4.82×10^{-6}	4.18	14.66	
	90	135	198	20	164	112	14	92	10	M6	4.82×10^{-6}	7.63	14.66	

Note) The Model WGF can be equipped with a brush seal depending on the model number. Contact THK if you would like to use one.

The overall length of the nut will increase when equipping the QZ lubricating device. See **■15-318** for further details.