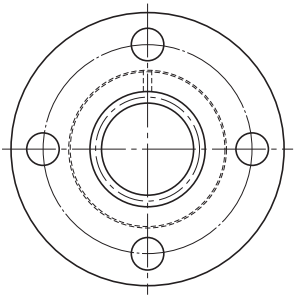
Model DCM



Lead Screw Nut Model No.	Outer dimensions			Lead screw nut dimensions						
	Outer diameter									
	D	Tolerance h9	Length L	Flange diameter D_1	H	B	PCD	r	F	d
DCM 12	22	0 –0.052	30	44	6	5.4	31	1.5	7	1.5
DCM 14	22		30	44	6	5.4	31	1.5	7	1.5
DCM 16	28		35	51	7	6.6	38	1.5	8	1.5
DCM 18	32	0 –0.062	40	56	7	6.6	42	1.5	10.5	2
DCM 20	32		40	56	7	6.6	42	1.5	10.5	2
DCM 22	36		50	61	8	6.6	47	2	14	2.5
DCM 25	36		50	61	8	6.6	47	2	14	2.5
DCM 28	44		56	76	10	9	58	2	15	2.5
DCM 32	44		56	76	10	9	58	2	15	2.5
DCM 36	52	0 –0.074	60	84	10	9	66	2.5	17	3
DCM 40	58		70	98	12	11	76	2.5	19	3
DCM 45	64		75	104	12	11	80	2.5	21.5	4
DCM 50	68		80	109	12	11	85	2.5	24	4

Note1) Cut shafts (K) and ground shafts (G) are build-to-order. In the specification table, “standard shaft length” and “maximum shaft length” are values for rolled shafts (T).
For maximum shaft lengths of cut shafts (K) or ground shafts (G), contact THK.

Note2) The dynamic permissible thrust (F) indicates the torque at which the contact surface pressure on the screw tooth surface is 9.8 N/mm^2. The maximum axial load (both when stopped and during operation) is set to the dynamic permissible thrust or below, and it must be selected while taking into consideration the safety factors of Table1 on A16-5.

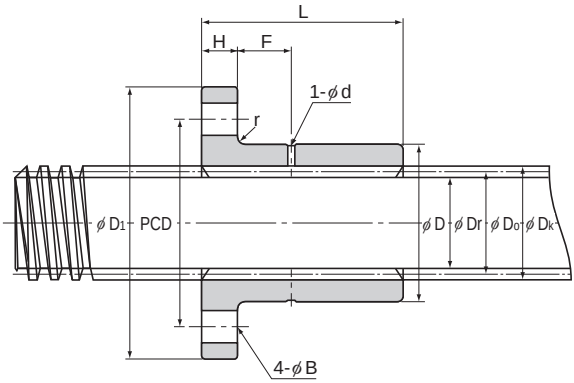
Note3) The static permissible load (P) of the flange indicates the strength of the flange against the load as shown in the figure on the right.

Model number coding

Combination of lead screw nut and screw shaft

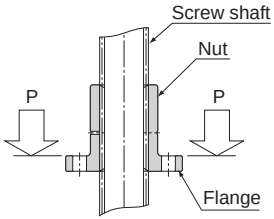
2 DCM20 +1500L T

- 2: Number of lead screw nuts used on the same shaft
- DCM20: Model number of lead screw nut
- +1500L: Overall screw shaft length (in mm)
- T: How the screw shaft is processed (T: rolled shaft)



Unit: mm

Model No.(note)	Screw shaft details					Standard shaft length	Maximum shaft length	Dynamic permissible thrust	Static permissible load of the flange	Mass	
	Outer diameter D_k	Effective diameter D_0	Thread minor diameter D_r	Lead R	Lead angle α			F(note 2) N	P(note 3) N	Screw nut g	Screw shaft kg/m
CS 12	12	11	9.5	2	3°19′	1000	1500	3920	20200	100	0.8
CS 14	14	12.5	10.5	3	4°22′	1000	1500	4900	16900	85	1
CS 16	16	14.5	12.5	3	3°46′	1000	1500	6670	31500	160	1.3
CS 18	18	16	13.5	4	4°33′	1000	2000	8730	42000	230	1.6
CS 20	20	18	15.5	4	4°03′	1500	2000	9800	37200	210	2
CS 22	22	19.5	16.5	5	4°40′	1500	2500	12400	48600	320	2.3
CS 25	25	22.5	19.5	5	4°03′	1500	3000	14200	39800	290	3.1
CS 28	28	25.5	22.5	5	3°34′	2000	3000	17900	69200	550	4
CS 32	32	29	25.5	6	3°46′	2000	4000	21100	54200	490	5.2
CS 36	36	33	29.5	6	3°19′	2000	4000	25800	84500	670	6.7
CS 40	40	37	33.5	6	2°57′	2000	4000	33800	106000	980	8.4
CS 45	45	41	36.5	8	3°33′	3000	5000	42100	125000	1310	10.4
CS 50	50	46	41.5	8	3°10′	3000	5000	50100	128000	1430	13



Model number coding

- Lead screw nut only

DCM20

Model number of lead screw nut

- Screw shaft

CS20 T +1500L

Model number of screw shaft

How the screw shaft is processed (T: rolled shaft)

Overall screw shaft length (in mm)