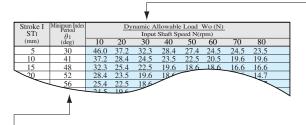
Parts Handler Torque transmission capacity table

SANDEX

Reading carrying capacity tables for parts handlers

The carrying capacity table gives dynamic allowable load Wo by stroke and rotating speeds.

This table was calculated based on a parts handler that has been mounted and lubricated according to specifications and is being operated under normal condition. Adverse operating conditions and poor maintenance can effect the transmission capacities and life of the parts handler.



Index periods

Two or more index periods are given for each stroke range. The smallest index period is the minimum index period for that amount of stroke. Cams cannot be manufactured for index periods below this minimum value.

When designing the timing, try to make the index period as large as possible.

مناميداء مقاما مليان

Note, when selecting models it is important that the torque transmission capacity table be read correctly in order to make the proper selection. Always make sure to read and understand the following explanations.

Dynamic allowable load and rotating speeds

The dynamic allowable load given in the carrying capacity table will vary according to the stroke. Index period, and rotating speed. The dynamic allowable load may also vary by the mounting position due to the internal load of the parts handler. The allowable rotating speed varies according to the direction of the stroke. Therefore, always check the values according to actual operating conditions.

Cam curves

The output displacement of the parts handler is produced by a modified sine curve(MS curve). If your application requires synchronized operation at equivalent speeds or special displacement specifications, please consult Sankyo.

4GY

Carrying capacity table of stroke I Table 4G														Table 4GY-1	
	Stroke I STI	Minimum Index Period Au				D	2		ble Load Speed N		<u>D</u>				Camshaft Frictional Torque Tx
l	(mm)	(deg)	10	20	30	40	50	60	70	80	90	100	110	120	(N·m)
ſ	5	30	46.0	37.2	32.3	28.4	27.4	24.5	24.5	23.5	22.5	18.6	15.6	12.7	
	10	41	37.2	28.4	24.5	23.5	22.5	20.5	19.6	19.6	18.6	15.6	12.7	11.7	
	15	48	32.3	25.4	22.5	19.6	18.6	18.6	16.6	16.6	15.6	14.7	11.7	9.8	0.70
	20	52	28.4	23.5	19.6	18.6	16.6	15.6	15.6	14.7	14.7	11.7	9.8	7.8	(1.76)
	25	56	25.4	22.5	18.6	16.6	15.6	14.7	14.7	12.7	11.7	9.8	7.8	6.8	
1	20	60	24.5	10.6	16.6	15.6	15.6	147	127	117	10.7	0.8	6.8	5 9	

Carrying capacity table of stroke II

Carrying capacity table of stroke II Table 40													Table 4GY-2		
Stroke II STII	Minimum Index Period $ heta_{II}$	Static Allowable Load Ws													Camshaft Frictional Torque Tx
(mm)	(deg)	(N)	10	20	30	40	50	60	70	80	90	100	110	120	(N·m)
10	30	61.7	46.0	36.2	32.3	27.4	22.5	16.6	14.7	10.7	9.8	6.8	5.8	3.9	
15	36	60.7	40.1	31.3	27.4	24.5	20.5	15.6	12.7	10.7	7.8	6.8	5.8	3.9	
20	41	58.8	35.2	28.4	24.5	22.5	19.6	15.6	11.7	9.8	7.8	5.8	4.9	3.9	
25	45	57.8	32.3	25.4	22.5	20.5	18.6	14.7	10.7	9.8	6.8	5.8	3.9	2.9	
30	48	56.8	29.4	23.5	20.5	18.6	16.6	12.7	10.7	7.8	6.8	3.9	3.9	2.9	
35	50	56.8	27.4	22.5	19.6	16.6	15.6	11.7	9.8	6.8	5.8	3.9	2.9	1.9	(1.76)
40	52	54.8	25.4	20.5	18.6	16.6	14.7	10.7	7.8	6.8	3.9	2.9	2.9	1.9	(1.70)
45	55	53.9	24.5	19.6	16.6	15.6	12.7	10.7	7.8	5.8	3.9	2.9	2.9	1.9	
50	62	52.9	23.5	18.6	15.6	14.7	12.7	10.7	7.8	6.8	5.8	3.9	2.9	1.9	
55	68	52.9	22.5	18.6	15.6	14.7	12.7	11.7	9.8	6.8	5.8	3.9	2.9	2.9	
60	75	50.9	20.5	16.6	14.7	12.7	11.7	11.7	9.8	7.8	6.8	5.8	3.9	2.9	
65	80	49.9	20.5	15.6	14.7	12.7	11.7	10.7	10.7	7.8	6.8	5.8	3.9	2.9	
70	85	49.9	19.6	15.6	12.7	11.7	11.7	10.7	10.7	7.8	6.8	5.8	3.9	2.9	