



SANKYO
SEISAKUSHO CO.

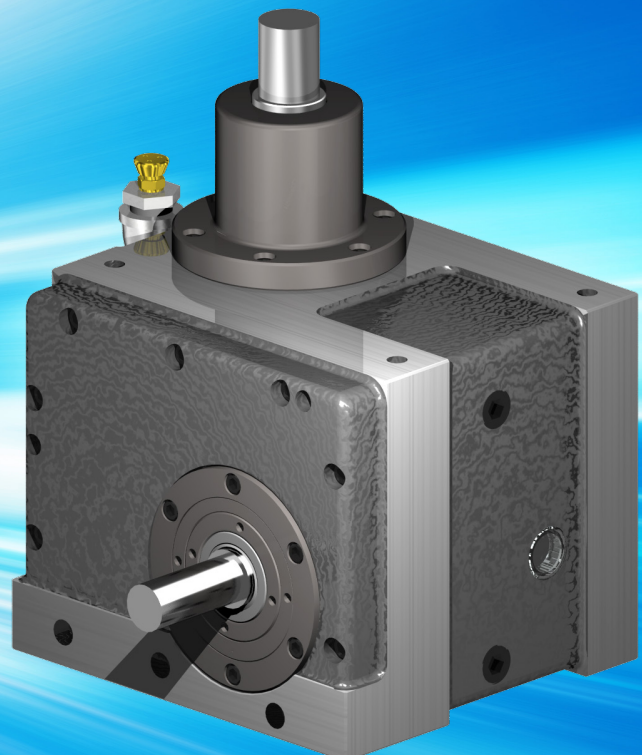
Sandex

FHC

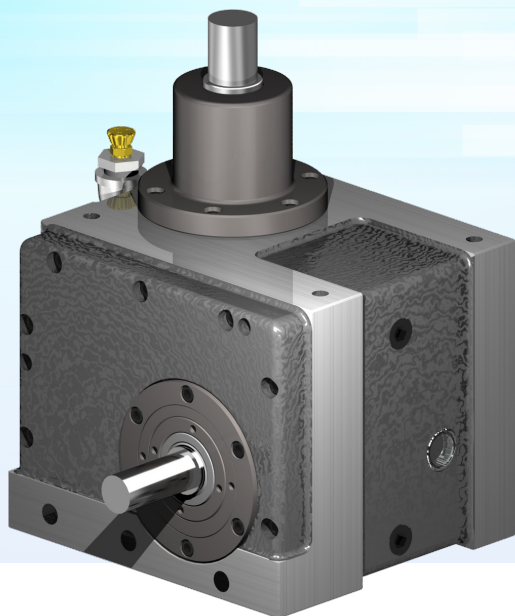
High-speed index handler FHC series

Sandex

FHC series



The high-speed FH series index handler, which supports a small number of stops, has been added to the **FHC series**.



High Speed Index Handler 6FHC/7FHC

Accommodates a small number of output shaft rotation angles: 180°, 120°, 90°, and so on Perfect for high-speed inverting and direction changes.

High transport capacity and high output shaft rigidity are integrated into a compact housing.

It can transport small parts at high speed (motor speed up to 600 rpm) with high accuracy (indexing accuracy ± 30 sec.).

Features

- **1 motor and 2 motions**

Two output operations, rotational + linear, can be obtained with a single drive.

- **This drive is stable and easy to control.**

The output movement is set by the cam and complex controls are not required.

The indexing timing does not change when the speed is changed.

- **High rigidity and long life**

Sankyo's unique, high-rigidity cam follower and rolling cam transmission system provide a long mechanism life with very little wear.

Product Specifications

Housing size		Symbol	Unit	6FHC	7FHC
Index specifications	Number of stops	S	—	2, 3, 4, 6, 8	
	Indexing accuracy	—	sec	± 30	
	Repeatability	—	sec	30	
	Input shaft rotation speed used	N	rpm	max.600	
Lift specifications	Lift amount	LT	mm	max.10	
	Repeatability	—	mm	± 0.05	
Poption		—	—	Decelerator*2	
Product mass		—	kg	18	25

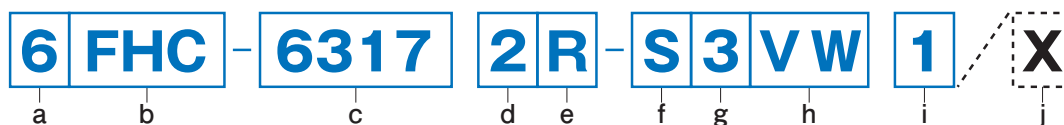
*1 Specifications and dimensions are subject to change without notice, so please check with us again when ordering.

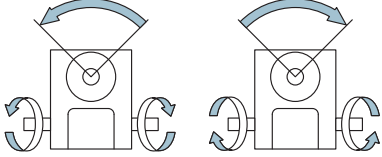
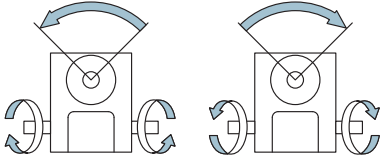
*2 Please contact us for optional reduction gears.

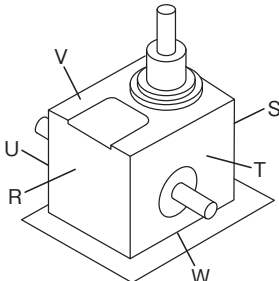
*3 Please contact us for the oscillation specifications.

Product code

Product code example



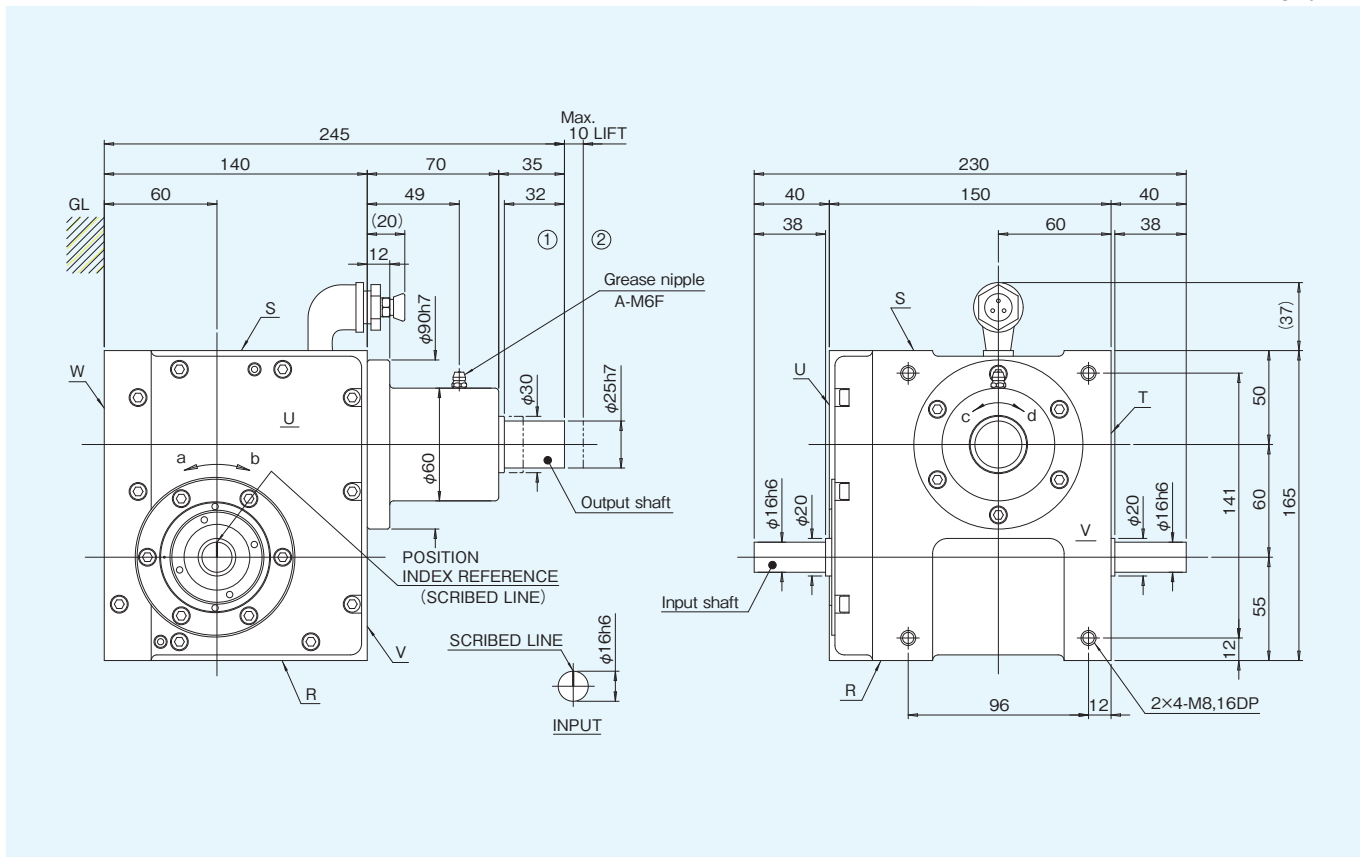
a Index handler size	b Index handler model	c Reference number	d Cam curve	e Input/output shaft rotation direction
example 6 Center distance 60mm	example FHC Fast index handler	example 6317 6317	example 2 MS curve	example R Right hand cam
This represents the axis-to-axis distance between the input and output axes. This distances available are 6 60mm and 7 70mm.	FHC FHC type	The timing of the index handler input and output axes are all custom-made after receiving your order. Therefore, we will assign a 4-digit reference number for each timing that you require.	2 Modified sinusoidal MS 9 In addition to custom-made cam curves, we also handle cases where the curves for the forward and return motions are different.	The index handler motion refers to the direction in which the input axis turns, according to the first direction that output axis turns. R Right hand cam  L Left hand cam 

f Output shaft specifications	g Input shaft specifications	h Mounting hole machining surface	i Mounting position	j Special version
example S Standard shaft type	example 3 Double-sided input axes	example VW Tapped mounting holes on V- and W-sides	example 1 The W-side is at GL (Ground Level).	example X Special version
S Standard shaft type	1 Single-sided input axis (T-side) 2 Single-sided input axis (U-side) 3 Double-sided input axis R1 Install a reducer on a single-sided input axis (T-side) R3 Install a reducer on both input axes (T-side) Note: It is not possible to attach a reducer to the U-side of an FHC type.	■ Tapped holes are machined on the V- and W-sides as standard.	Position 1 : W-side is at GL.  GL (Ground Level)	Enter X only if there is a special specification different from the catalogue's standard product. <input type="checkbox"/> Standard (Blank) <input checked="" type="checkbox"/> Special order Note: Please attach a separate sheet with the details of the special specifications.

6FHC

6FHC dimensions

Unit : mm



Locations of oil plug, etc., and oil capacity

Mounting position	1
Location	
Oil capacity(ℓ)	1.0

Precautions

- The location of each of the oil plugs in the positions above are, from top to bottom: Oil cap (RC3/8), level (VA-01), and drain (RC3/8).
- The amount of oil required varies, depending on the cam shape, the number of cam followers, etc. Therefore, approximate values are shown.
- Please contact us if you are planning to install a reducer. (A reducer cannot be installed if the input shaft speed $N=180$ rpm, or higher.)

Specifications

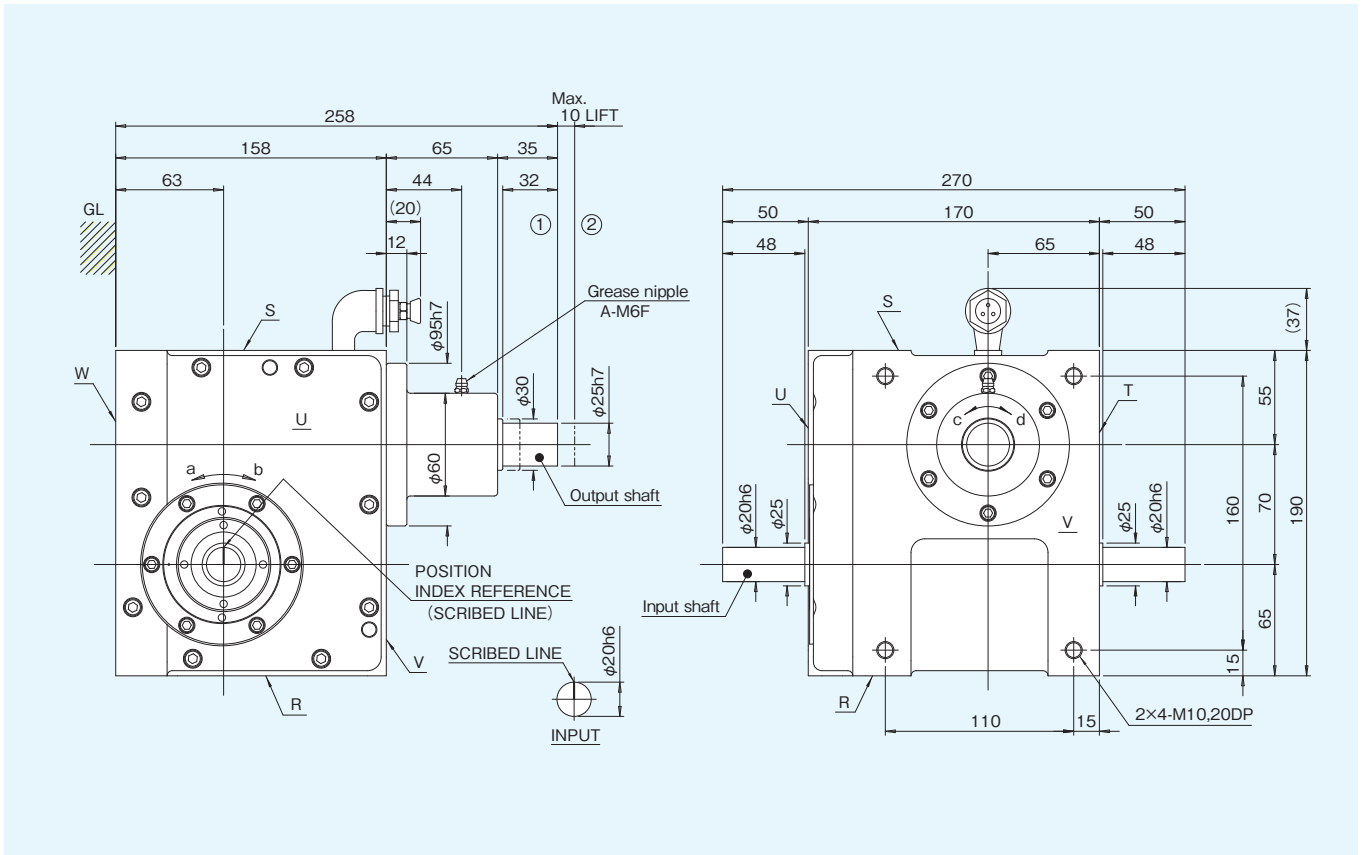
Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable carrying load	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_3	N	980	Output inertia (oscillate)	J_0	kg·m ²	4.4×10^{-4}
Output allowable axial load	P_1	N	120	Input allowable radial load	P_4	N	930	Output internal load (lift)	Ma_1	N	7.9
Output allowable radial load	P_2	N	135	Input maximum repetitious allowable torque	P_5	N·m	59	Housing color			Hammer net gray
Output static torque	T_s	N·m	Refer to Torque Capacity Table	Input torsional rigidity	K_2	N·m/rad	4760	Product weight		kg	18
Output torsional rigidity	K_1	N·m/rad	3.18×10^4	Input inertia*1	J_1	kg·m ²	1.7×10^{-3}	Indexing accuracy		sec	± 30

Note : Input inertia : J is calculated in dwell.

7FHC

7FHC dimensions

Unit : mm



Locations of oil plug, etc., and oil capacity

Mounting position	1
Location	
Oil capacity(ℓ)	1.0

Precautions

- The location of each of the oil plugs in the positions above are, from top to bottom: Oil cap (RC3/8), level (VA-01), and drain (RC3/8).
- The amount of oil required varies, depending on the cam shape, the number of cam followers, etc. Therefore, approximate values are shown.
- Please contact us if you are planning to install a reducer. (A reducer cannot be installed if the input shaft speed $N=340$ rpm, or higher.)

Specifications

Item	Symbol	Unit	Value	Item	Symbol	Unit	Value	Item	Symbol	Unit	Value
Output allowable carrying load	W_0	N	Refer to Carrying Capacity Table	Input allowable axial load	P_3	N	1400	Output inertia (oscillate)	J_0	kg·m ²	6.0×10^{-4}
Output allowable axial load	P_1	N	200	Input allowable radial load	P_4	N	1025	Output internal load (lift)	Ma_1	N	9.3
Output allowable radial load	P_2	N	135	Input maximum repetitious allowable torque	P_5	N·m	83	Housing color			Hammer net gray
Output static torque	T_s	N·m	Refer to Torque Capacity Table	Input torsional rigidity	K_2	N·m/rad	9300	Product weight		kg	25
Output torsional rigidity	K_1	N·m/rad	2.89×10^4	Input inertia ^{※1}	J_1	kg·m ²	4.6×10^{-3}	Indexing accuracy		sec	±30

Note : Input inertia : J is calculated in dwell.

Torque/loading capacity table

6FHC Torque transmission capacity table (for index)

Number of stops S	Index angle θ_1 (deg)	Static torque T_s (N·m)	Dynamic Torque T_o (N·m) Input axis speed N(rpm)					Cam axis friction torque T_x (N·m)	
			200	300	400	500	600		
2	220	71.4	18.3	15.9	14.2	12.7	11.4	6.0	
	240	75.6	18.4	16.0	14.4	13.0	11.7		
3	150	72.5	22.0	19.0	16.8	15.0	13.2		
	180	81.2	22.1	19.3	17.3	15.6	14.1		
4	165	90.4	27.3	23.9	21.5	19.6	18.0		5.0
	180	94.1	27.2	23.8	21.5	19.7	18.1		
6	90	81.2	30.1	26.0	23.1	20.5	18.1		
	120	94.1	29.9	26.1	23.5	21.4	19.5		
	150	102.5	29.3	25.7	23.3	21.4	19.7		
	180	108.2	28.5	25.1	22.8	21.0	19.6		
8	90	94.1	37.0	32.3	29.0	26.3	23.8		
	120	104.7	36.0	31.6	28.6	26.3	24.3		
	150	111.0	34.7	30.5	27.8	25.7	23.9		
	180	114.9	33.4	29.5	26.9	24.9	23.3		

Payload Table Capacity

Lift amount LT (mm)	Index angle θ_L (deg)	Dynamic load capacity W_o (N) Input axis speed N(rpm)				
		200	300	400	500	600
4	26	44.8	14.0	3.0		
	50	120.0	65.3	33.9	18.0	9.2
	70	120.0	109.8	65.2	40.1	25.1
	90	120.0	120.0	96.0	63.8	43.3
	120	120.0	120.0	120.0	97.7	71.3
6	35	50.1	16.7	4.5		
	50	100.3	43.7	20.3	9.0	2.9
	70	120.0	81.0	44.5	25.3	14.3
	90	120.0	116.4	70.3	43.9	28.0
8	42	56.4	19.8	6.3		
	60	105.2	46.8	22.2	10.3	3.8
	75	120.0	71.1	37.8	20.7	11.1
	90	120.0	95.0	54.4	32.3	19.4
	120	120.0	120.0	87.6	57.2	38.1
10	50	62.8	23.2	8.2		
	70	111.1	50.5	24.5	11.8	4.8
	80	120.0	65.0	33.8	18.0	9.2
	90	120.0	79.5	43.5	24.7	13.9
120	120.0	120.0	73.6	46.4	29.9	

Note: The index angle capacity stated above may differ from the timing requiring for an intermediate stop.

7FHC Torque transmission capacity table (for index)

Number of stops S	Index angle θ_1 (deg)	Static torque T_s (N·m)	Dynamic Torque T_o (N·m) Input axis speed N(rpm)					Cam axis friction torque T_x (N·m)	
			200	300	400	500	600		
2	220	134.8	33.7	29.5	26.5	24.0	21.8	10.0	
	240	142.4	33.8	29.6	26.7	24.3	22.3		
3	150	136.8	40.5	35.2	31.5	28.4	25.6		
	180	152.6	40.6	35.5	32.0	29.2	26.8		
4	170	171.1	49.7	43.7	39.5	36.3	33.6		8.0
	180	175.3	49.5	43.5	39.4	36.3	33.7		
6	90	152.6	55.3	48.1	43.0	38.8	34.9		
	120	175.3	54.6	47.9	43.3	39.7	36.5		
	150	189.9	53.2	46.8	42.6	39.3	36.5		
	180	199.5	51.7	45.6	41.5	38.5	36.0		
8	90	175.3	64.5	59.1	53.3	48.7	44.7		
	120	193.5	65.2	57.4	52.1	48.1	44.7		
	150	204.2	62.7	55.3	50.4	46.7	43.7		
	180	210.7	60.4	53.3	48.7	45.2	42.5		

Payload Table Capacity

Lift amount LT (mm)	Index angle θ_L (deg)	Dynamic load capacity W_o (N) Input axis speed N(rpm)				
		200	300	400	500	600
4	27	101.8	37.4	14.2	3.7	
	50	200.0	136.0	73.7	42.2	24.6
	70	200.0	200.0	136.3	86.3	56.5
	90	200.0	200.0	197.8	133.7	92.8
	120	200.0	200.0	200.0	200.0	148.8
6	35	110.6	41.9	16.8	5.3	
	50	200.0	92.7	46.5	24.2	12.1
	70	200.0	167.2	94.7	56.6	34.9
	90	200.0	200.0	146.3	93.8	62.1
8	43	122.0	47.7	20.1	7.4	
	60	200.0	98.5	50.1	26.6	13.8
	75	200.0	147.0	81.2	47.3	28.3
	90	200.0	194.9	114.3	70.5	44.9
	120	200.0	200.0	180.8	120.2	82.3
10	51	133.9	54.0	23.7	9.6	2.2
	70	200.0	105.7	54.7	29.6	15.9
	80	200.0	134.7	73.1	41.9	24.4
	90	200.0	163.7	92.5	55.1	33.9
120	200.0	200.0	152.5	98.5	65.7	

Note: The index angle capacity stated above may differ from the timing requiring for an intermediate stop.




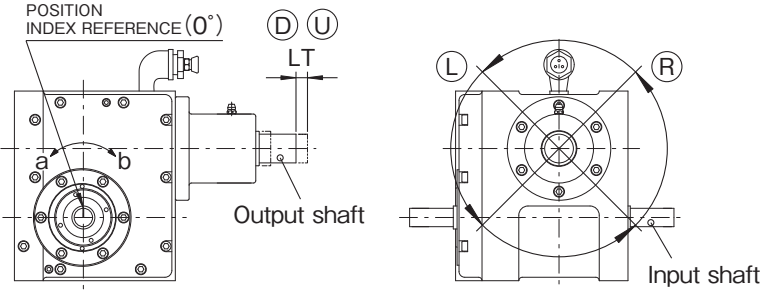
SANKYO SEISAKUSHO CO.

E-mail: sales@sankyo-seisakusho.co.jp

FAX

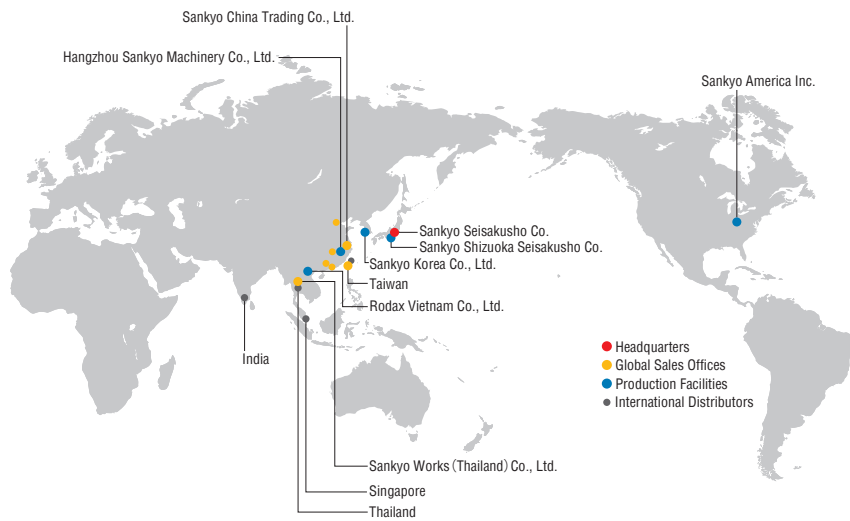
Tokyo	03 - 3893 - 7065	Miyagi	0228 - 23 - 5123
Nagoya	052 - 883 - 5188	Shizuoka	0537 - 36 - 2381
Osaka	06 - 6618 - 7001		

Model Sizing Form for the SANDEX FHC series

Company		TEL
Address		FAX
Contact Name	E-mail Address	
Application		
Index handler 		
		Number of stops : S (Number of stop stations)
		Lift amount : LT [mm]
		1 cycle time [sec]
		(Input shaft rotation speed) [rpm]
		Pause time at each station [sec]
Load conditions: Output load (arm shape, jig, workpiece mass, etc.)		
Note		

FHC-2024/01-S

Global network



Group Companies

Sankyo America Inc.
1449-48 Seabu-ro, Sidney, Ohio, 45365 U.S.A.
Phone: +1-(0)937-498-4901 Fax: +1-(0)937-498-9403
Email: sales@sankyoautomation.com

Sankyo Korea Co., Ltd.
1449-48 Seobu-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, 16643 Korea
Phone: +82-(0)31-895-5991 Fax: +82-(0)31-895-6607
Email: kr-sales@rollerdrive.com

Sankyo China Trading Co., Ltd.
[Shanghai Sales Office]
Room101, Unit 2, No.159 Tianzhou Road, Shanghai 200233, China
Phone: +86-(0)21-5445-2813 Fax: +86-(0)21-5445-2340
Email: sales@sankyochina-trading.com

[Shenzhen Sales Office]
Unit 19j, Tower B, Neo Building, No.6009 Shennan Avenue,
Futian District, Shenzhen China
Phone: +86-(0)755-8230-0270 Fax: +86-(0)755-8236-4605

[Tianjin Sales Office]
Room 1905, Pengzhanfeiwo Building A, Crossing Yale Road Yaolin Road,
Xiqing District, Tianjin 300380 China
Phone: +86-(0)22-2312-1005 Fax: +86-(0)22-2312-1007

[Guangzhou Sales Office]
Room 913, Xing Pu Building, No.12 Guan Hong Road,
Guangzhou Economic Development Zone, Huang Pu,
Guang Zhou 510670 China
Phone: +86-(0)20-8985-1846 Fax: +86-(0)20-8225-7346

[Wuhan Sales Office]
Room 2301, Taihe Square, No.134 Wusheng Road, Wuhan,
Hubei Province China
Phone: +86-(0)27-8568-5818 Fax: +86-(0)27-8568-2818

Hangzhou Sankyo Machinery Co., Ltd.
No.2518 Jiang Dong 2 Road, Hangzhou Jiang Dong Industrial Park,
Xiaoshan Zone, Hangzhou, Zhejiang, China
Phone: +86-(0)571-8283-3311 Fax: +86-(0)571-8283-1133

Rodax Vietnam Co., Ltd.
Plot No. M1, Thang Long Industrial Park II
Di Su, My Hao, Hung Yen, Viet Nam
Phone: +84-(0)221-3-589701 Fax: +84-(0)221-3-589708

Sankyo Works (Thailand) Co., Ltd.
9/31 Moo 5, Phaholyotin Road, Klongnueng,
Klong Luang, Patumthani 12120 Thailand
Phone: +66-(0)2-516-5355 Fax: +66-(0)2-068-0931
Email: sales@sankyo-works.co.th

Contact us

Mon–Fri AM8:30–12:00 PM13:00–17:30 UTC + 09:00 (JST) (Except public holidays and company holidays)

■ **Headquarters**
(International Sales Division) 3-37-3 Tabatashinmachi, Kita-ku, Tokyo, Japan 114-8538
Phone: +81-(0)3-3800-3305
Fax: +81-(0)3-3800-3378
Email: overseas@sankyo-seisakusho.co.jp
URL: <https://www.sankyo-seisakusho.co.jp>

■ **Taiwan Sales Office** No.21, Ln.152, Jianxing Rd., Sanhe Vil., Daya Dist., Taichung City 42876, Taiwan (R.O.C.)
Phone: +886-(0)4-2359-4048
Fax: +886-(0)4-2359-4720
Email: tw-sales@rollerdrive.com



<https://www.sankyo-seisakusho.co.jp>

For further information, questions, or inquires,
please contact us by e-mail or visit our website.
Specifications and dimensions are subject to change without notice.
Consult Sankyo sales before ordering.