

ShinMaywa

Submersible Pumps

(Non-Clogging Type with Built-in Chopper) CJ Series

50
Hz



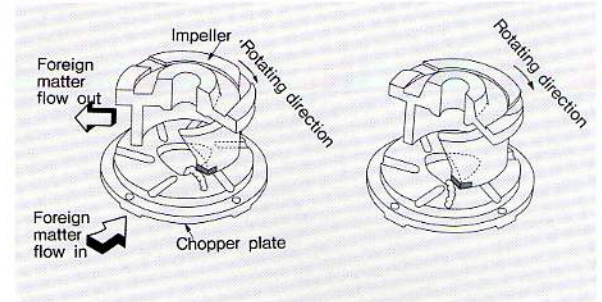
Pumps with Built-in Chopper

The CJ series has a built-in chopper for 'chopping' foreign matter which can cause the pump to be clogged or tangled.

Uses

- For treating raw water at combination treatment plants
- For use with drainage and sanitary equipment of buildings

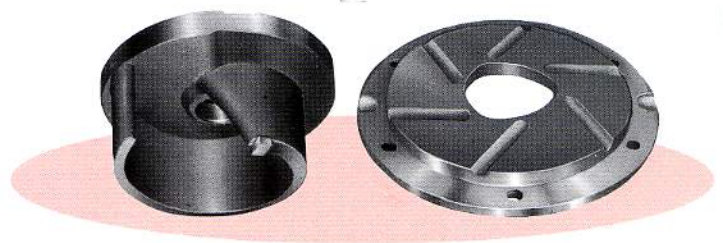
Chopper Mechanism



The chopper mechanism consists of a grooved chopper plate (bottom cover) and cutter chip impeller. The foreign matter will be cut as shown in the above illustration.

CJ Series

<Bore> 50 to 100mm
<Output> 0.75 to 7.5kW
<Phase> 3ph



Standard Specifications

Bore mm	Pump Model	Connection Part No.		Output kW	Pole	Capacity-Total Head	Impeller Passage Size	Weight(Pump Proper)		
		Automatic Connection	Flange Connection			m ³ /min-m	mm × mm	kg		
50	CJ501	P50	F50	0.75	2	[1]0.2-7.3	41 × 37	19.5		
						[3]0.15-5.1	36 × 31			
65	CJ501	P65B	F65B	0.75	2	[1]0.2-7.2	41 × 37	19.5		
						[3]0.15-5.1	36 × 31			
	CJ651	P65	F65	1.5	4	0.4-10.2	43 × 41	35		
						2.2	0.8- 8.2		54 × 60	58
CJ80	P65	F65	3.7	4	1.0-11.7	53 × 60	70			
					7.5	1.4-15.6		67 × 60	108	
80	CJ651	P80B	F80	1.5	2	0.4-10.2	43 × 41	35		
						2.2	0.8- 8.2		54 × 60	58
	CJ80	P80B	F80	3.7	4	1.0-11.7	53 × 60	70		
						5.5	1.2-13.6		61 × 60	95
						7.5	1.4-15.6		67 × 60	
100	CJ80	P100B	F100	2.2	4	0.8- 8.2	54 × 60	58		
						3.7	1.0-11.7		53 × 60	70
	CJ100	P100B	F100	5.5	4	1.2-13.6	61 × 60	95		
						7.5	1.4-15.6		67 × 60	108

• The starting method is 'direct-on-line start.' (Note)Specify both pump model and connection part No. to contact the dealer. • Figures in brackets indicate code number of impellers.

Standard Accessories

- **Power Cable**1
6m for 0.75kW
8m for 1.5kW to 7.5kW

Flange Connection set

- **Discharge side flange**
- **Companion flange (with bolts, nuts and packing)**

Bore mm	Connection Part No.	Set Weight kg
50	F50	☆
65	F65B	5.5
	F65	7
80	F80	9.5
100	F100	11

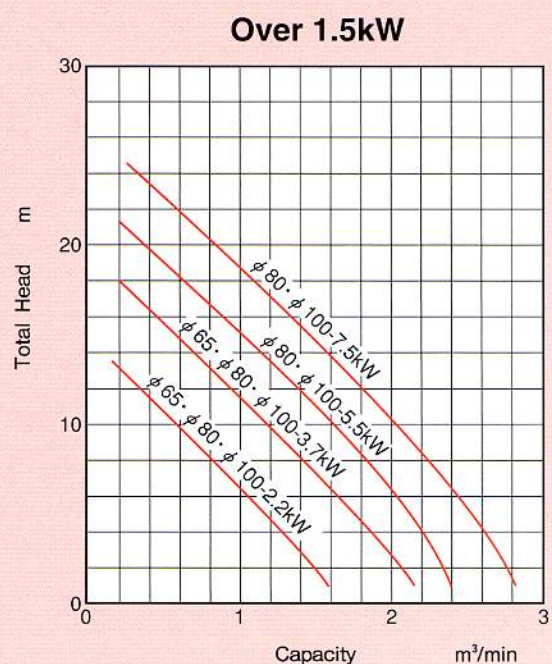
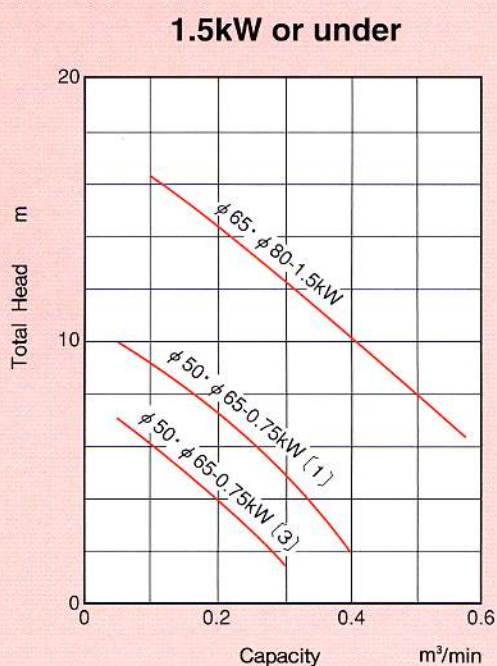
☆ Built-in with the pump proper.

Automatic Connection Set

- **Connection**
- **Guide holder (with bolt and nuts)**
- **Sliding bracket**
- **Pump lifting chain (6m)**

Bore mm	Connection Part No.	Set Weight kg	Connection Weight kg
50	P50	11	4.5
65	P65B	20	14.5
	P65	24	15
80	P80	31.5	20.5
	P80B	31.5	18
100	P100B	40.5	27

Performance Curves

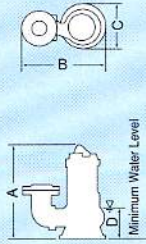
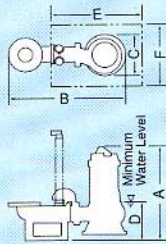


Dimensions

Packing Size

Automatic Connection

Flange Connection



Model	Length mm	Width mm	Height mm	
CJ501	330	245	460	
CJ651	295	255	530	
CJ80	2.2kW	440	388	655
	3.7kW	470	410	722
CJ100	545	455	788	

mm

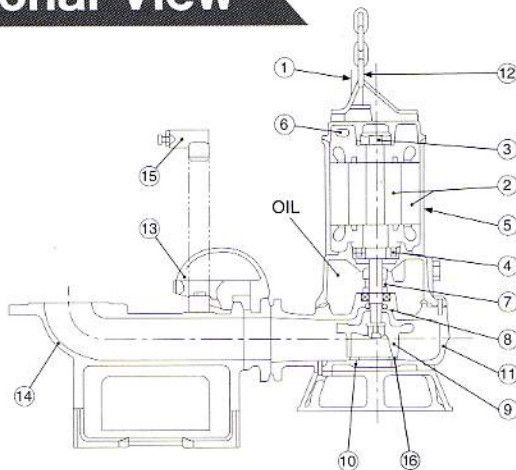
Model	Connection Part No.	Output kW	A	B	C	D	E	F
CJ501	P50	0.75	459	474	220	180	550	350
	P65B			547				
CJ651	P65	1.5	530	663	192	215	550	350
	P80			739				
CJ80	P65	2.2	580	754	292	220	600	500
		3.7	642	773	331			
	P80B	2.2	620	830	292	260	600	500
		3.7	682	849	331			
	P100B	2.2	620	843	292	260	600	500
		3.7	680	862	331			
CJ100	P80B	5.5	710	907	355	260	700	600
		7.5	745	920	387			
	P100B	5.5	710	920	355	260	700	600
		7.5	745	935	387			

mm

Model	Connection Part No.	Output kW	A	B	C	D
CJ501	F50	0.75	414	276	220	135
	F65B			371		
CJ651	F65	1.5	454	418	192	140
	F80			433		
CJ80	F65	2.2	550	509	292	190
		3.7	612	528	331	
	F80	2.2	550	524	292	190
		3.7	612	543	331	
	F100	2.2	550	541	292	190
		3.7	612	560	331	
CJ100	F80	5.5	640	601	355	190
		7.5	675	616	387	
	F100	5.5	640	618	355	190
		7.5	675	633	387	

*Figures in parentheses are shown in inches.

Sectional View



No.	Part Name	Material
1	Cable	VCT
2	Motor	Shaft = SUS420J2
3	Ball Bearing(Upper)	—
4	Ball Bearing(Lower)	—
5	Stator Casing	FC200
6	Thermal Protector	—
7	Mechanical Seal	—
8	Oil Seal	N.B.R.
9	Impeller	FC200
10	Chopper Plate	FC250
11	Pump Casing	FC200
12	Lifting Chain	SS400
13	Sliding Bracket	FC200
14	Connection	FC200
15	Guide Holder	SS400
16	Cutting Tip	WC

*Note VCT: Polyvinyl-chloride sheathed cable SUS: Stainless steel SS: Mild steel
FC: Gray iron casting WC: Tungsten carbide N.B.R.: Nitril Rubber

Specifications and dimensions are subject to change without notice.

ShinMaywa Industries, Ltd.

Overseas Operations Department 2-43, Shitte 3-chome, Tsurumi-ku, Yokohama-shi, 230-0003, Japan
Telephone : +81-45-584-1321 Facsimile : +81-45-584-1320
e-mail : overseas@sb.shinmaywa.co.jp

ShinMaywa (America), Ltd.

10737 Gateway West, Suite 112
El Paso, Texas 79935, U.S.A.
Telephone : +1-915-594-9862
Facsimile : +1-915-594-9866
e-mail : salelpass@aol.com

ShinMaywa (Malaysia) Sdn. Bhd.

Suite 7.3, 7th Floor Menara Aik Hua, Changkat
Raja Chulan, 50200 Kuala Lumpur, Malaysia
Telephone : +60-3-2026-2388
Facsimile : +60-3-2026-2399
e-mail : smmsb@tm.net.my

ShinMaywa (Asia) Pte. Ltd.

51 Goldhill Plaza #14-01
Singapore 308900
Telephone : +65-6224-0728
Facsimile : +65-6224-9678
e-mail : Asia.ad@shinmaywa.com.sg

http://www.shinmaywa.co.jp



ShinMaywa ONO PLANT

ISO 9001 (No. 956445) / ISO 14001 (No. 771988)

Printed on recycled paper.
Printed in Japan 1.5

'05.8 Z-E043C

ShinMaywa

Submersible Pumps

CJ Series

60
Hz



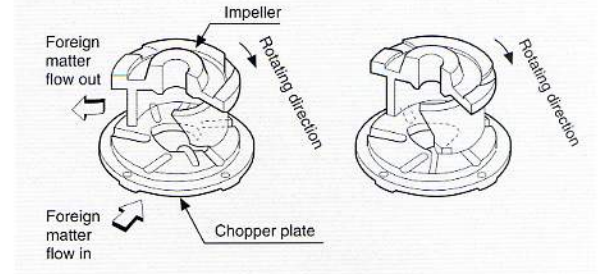
Pumps with Built-in Chopper

The CJ series has a built-in chopper for 'chopping' foreign matter which can cause the pump to be clogged or tangled.

Uses

- For treating raw water at combination treatment plants
- For use with drainage and sanitary equipment of buildings

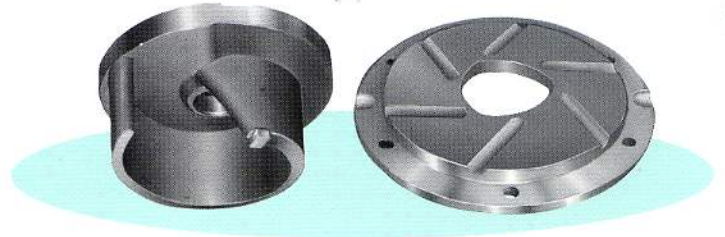
Chopper Mechanism



The chopper mechanism consists of a grooved chopper plate (bottom cover) and cutter chip impeller. The foreign matter will be cut as shown in the above illustration.

CJ Series

<Bore> 50 to 100 mm
<Output> 0.75 to 7.5 kW



Standard Specifications

Bore		Pump Model				Connection part No.		Phase	Output kW	Capacity-Total Head		Impeller Passage Size		Weight (Pump Proper)			
mm	in	Non-Automatic Operation	With-Automatic Float Switch	Automatic Alternate Operation		Automatic Connection	Flange Connection			m ³ /min-m	USG/min-ft	mm×mm	in×in	CJ			
				Pair Designation	Pump No. 1 + Pump No. 2									kg	lbs	kg	lbs
50	2	CJ50	CJ50D	CJ50DW	CJ50W+CJ50D	P50	F50	3	0.75	[2]0.2-6.1	[2]52.8-20.0	41×31	1.6×1.2	23.5	51.8	24.5	54
										[4]0.15-4.9	[4]39.6-16.1	36×24	1.4×0.9				
65	2½	CJ50	CJ50D	CJ50DW	CJ50W+CJ50D	P65B	F65B	3	0.75	[2]0.2-6.1	[2]52.8-20.0	41×31	1.6×1.2	23.5	51.8	24.5	54
										[4]0.15-4.9	[4]39.6-16.1	41×24	1.4×0.9				
		CJ65	CJ65D	CJ65DW	CJ65W+CJ65D	P65	F65	3	1.5	0.4-9.3	105.7-30.5	43×36	1.7×1.4	35	77.2	42	92.6
80	3	CJ65	CJ65D	CJ65DW	CJ65W+CJ65D	P80	F80	3	1.5	0.4-9.3	105.7-30.5	43×36	1.7×1.4	35	77.2	42	92.6

* Figures in brackets indicate number of impellers.

Bore		Pump Model	Connection Part No.		Phase	Output kW	Capacity-Total Head		Impeller Passage Size		Weight (Pump Proper)	
mm	in		Automatic Connection	Flange Connection			m ³ /min-m	USG/min-ft	mm×mm	in×in	kg	lbs
65	2½	CJ80	P65	F65	3	2.2	0.8-8.5	211.3-27.9	53×60	2.1×2.4	58	127.9
						3.7	1.0-11.8	264.2-38.7	54×60	2.1×2.4	70	154.3
80	3	CJ80	P80B	F80	3	2.2	0.8-8.5	211.3-27.9	53×60	2.1×2.4	58	127.9
						3.7	1.0-11.8	264.2-38.7	54×60	2.1×2.4	70	154.3
		CJ100	P80B	F80	3	5.5	1.2-13.6	317.0-44.6	53×60	2.1×2.4	95	209.4
						7.5	1.4-17.4	369.9-57.1	60×60	2.4×2.4	108	238.1
100	4	CJ80	P100B	F100	3	2.2	0.8-8.5	211.3-27.9	53×60	2.1×2.4	58	127.9
						3.7	1.0-11.8	264.2-38.7	54×60	2.1×2.4	70	154.3
		CJ100	P100B	F100	3	5.5	1.2-13.6	317.0-44.6	53×60	2.1×2.4	95	209.4
						7.5	1.4-17.4	369.9-57.1	60×60	2.4×2.4	108	238.1

* The starting method is 'direct-on-line start.' (Note) Specify both pump model and connection part No. to contact the dealer.

Standard Accessories

- **Cable**.....1
6m (20ft) for 0.75kW
10m (33ft) for 1.5kW
8m (26ft) for 2.2kW and 7.5kW
- **Float switch**.....1
with Automatic Float switch for Automatic Alternate operation

Flange Connection set

- **Discharge side flange**
- **Companion flange (with bolts, nuts and packing)**

Bore		Connection Part No.	Set Weight	
mm	in		kg	lbs
50	2	F50	☆	☆
65	2 ¹ / ₂	F65B	5.5	12
		F65	7	15.4
80	3	F80	9.5	21
100	4	F100	11	24.3

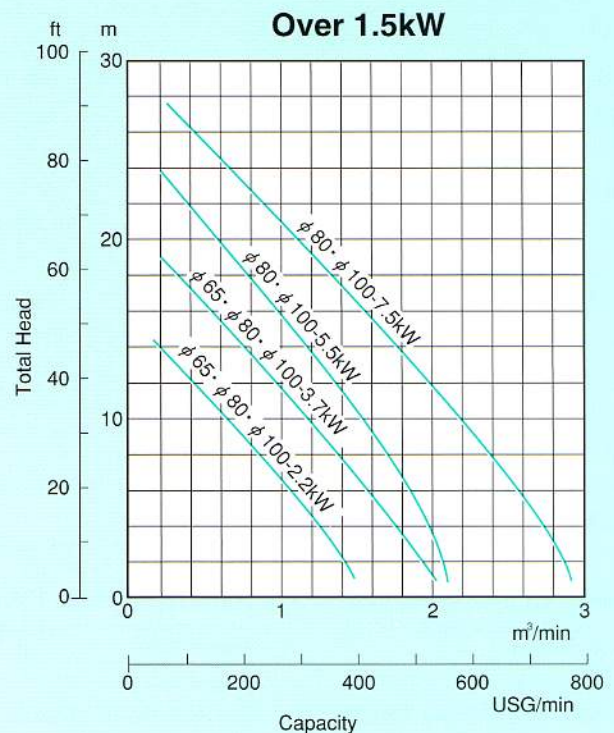
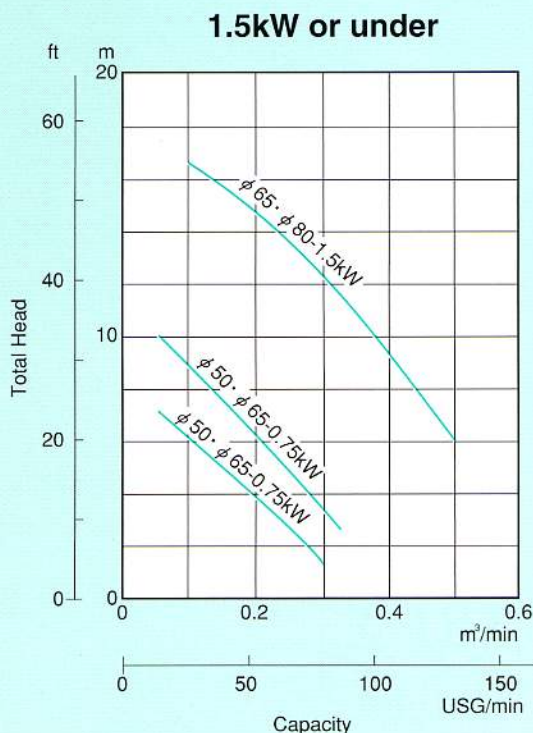
☆ Built-in with the pump proper.

Automatic Connection Set

- **Connection**
- **Guide holder (with bolt and nuts)**
- **Sliding bracket**
- **Pump lifting chain (6m)**

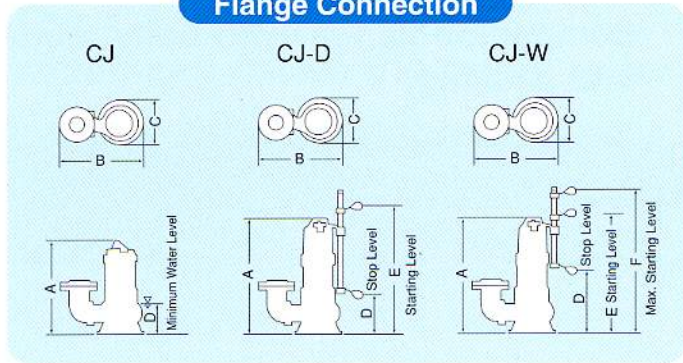
Bore		Connection Part No.	Set Weight		Connection Weight	
mm	in		kg	lbs	kg	lbs
50	2	P50	11	23.4	4.5	9.9
65	2 ¹ / ₂	P65B	20	44.1	14.5	32
		P65	24	52.9	15	33.1
80	3	P80B	31.5	69.5	18	39.7
100	4	P100B	40.5	89.3	27	59.5

Performance Curves



Dimensions

Flange Connection

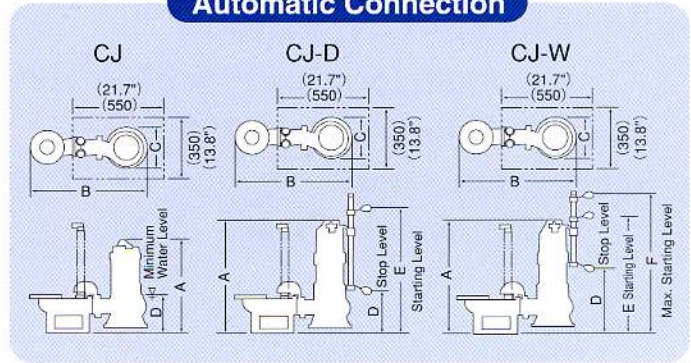


		Model	Connection Part No.	Output kW	A	B	C	D	E	F	
Flange Connection	—	CJ50	F50	0.75	440	276 (10.9)	220	135	—	—	
			F65B		(17.3)	371 (14.6)	(8.7)	(5.3)	—	—	
		CJ65	F65	1.5	495	408 (16.1)	230	150	—	—	
			F80		(19.5)	423 (16.7)	(9.1)	(5.9)	—	—	
		—	CJ50D	F50	0.75	474	276 (10.9)	220	140	610	—
				F65B		(18.7)	371 (14.6)	(8.7)	(5.5)	(24.0)	—
	CJ65D		F65	1.5	587	408 (16.1)	230	310	780	—	
			F80		(23.1)	423 (16.7)	(9.1)	(12.2)	(30.7)	—	
	—	CJ50W	F50	0.75	474	276 (10.9)	220	180	560	710	
			F65B		(18.7)	371 (14.6)	(8.7)	(7.1)	(22.0)	(28.0)	
		CJ65W	F65	1.5	587	408 (16.1)	230	370	730	910	
			F80		(23.1)	423 (16.7)	(9.1)	(14.6)	(28.7)	(35.8)	

With Automatic Float Switch

Automatic Alternate Operation

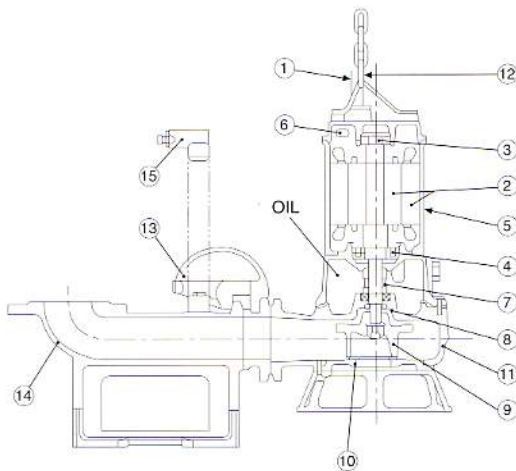
Automatic Connection



		Model	Connection Part No.	Output kW	A	B	C	D	E	F	
Automatic Connection	—	CJ50	P50	0.75	487	474 (18.7)	220	180	—	—	
			P65B		(19.2)	547 (21.5)	(8.7)	(7.1)	—	—	
		CJ65	P65	1.5	545	653 (25.7)	230	200	—	—	
			P80		(23.0)	729 (28.7)	(9.1)	240 (9.4)	—	—	
		—	CJ50D	P50	0.75	487	474 (18.7)	220	190	660	—
				P65B		(19.2)	547 (21.5)	(8.7)	(7.5)	(26.0)	—
	CJ65D		P65	1.5	637	653 (25.7)	230	360	830	—	
			P80		(26.7)	729 (28.7)	(9.1)	400 (15.8)	870 (34.3)	—	
	—	CJ50W	P50	0.75	487	474 (18.7)	220	230	610	760	
			P65B		(19.2)	547 (21.5)	(8.7)	(9.1)	(24.0)	(29.9)	
		CJ65W	P65	1.5	637	653 (25.7)	230	420	780	960	
			P80		(26.7)	729 (28.7)	(9.1)	460 (18.1)	820 (32.3)	1000 (39.4)	

* Figures in parentheses are shown in inches.

Sectional View



No.	Part Name	Material
1	Cable	VCT
2	Motor	—
3	Ball Bearing(Upper)	—
4	Ball Bearing(Lower)	—
5	Stator Casing	FC200
6	Auto Cut	—
7	Mechanical Seal	—
8	Oil Seal	NBR
9	Impeller	FC200
10	Chopper Plate	FC250
11	Pump Casing	FC200
12	Lifting Chain	SS400
13	Sliding Bracket	FC200
14	Connection	FC200
15	Guide Holder	SS400

Specifications and dimensions are subject to change without notice.

Packing Size

Model	Length L	Width W	Height H
CJ50	335mm × (13.2")	245mm × (9.6")	500mm × (19.7")
CJ50D-W	335mm × (13.2")	245mm × (9.6")	525mm × (20.7")
CJ65	550mm × (21.7")	260mm × (10.2")	295mm × (11.6")
CJ65D-W	690mm × (27.2")	290mm × (11.4")	295mm × (11.6")
CJ80	2.2kW	440mm × (17.3")	388mm × (15.3") × 655mm × (25.8")
	3.7kW	470mm × (18.5")	410mm × (16.1") × 727mm × (28.6")
CJ100	545mm × (21.5")	455mm × (17.9")	788mm × (31.0")

ShinMaywa Industries, Ltd.

Overseas Operations Department 2-43, Shitte 3-chome, Tsurumi-ku, Yokohama 230, Japan
Telephone : 045-584-1321 Facsimile : 045-584-1320

ShinMaywa (America), Ltd.

1603 Barclay Blvd. Buffalo Grove
Illinois 60089, U.S.A.
Telephone : 847-808-1281
Facsimile : 847-808-1286

ShinMaywa (Europe) GmbH

Cantador Strasse 3 40211 Dusseldorf, Germany
Telephone : 211-360727
Facsimile : 211-3613854

ShinMaywa (Asia) Pte. Ltd.

10Anson Road, No.27-10/11 International Plaza
Singapore 079903
Telephone : 224-0728
Facsimile : 224-9678

ShinMaywa (Malaysia) Sdn. Bhd.

Suite 6-3, Level 6, The Weld Tower, 76,
Jalan Raja Chulan, 50200 Kuala Lumpur, Malaysia.
Telephone : 03-2062388
Facsimile : 03-2062399



ONO PLANT
ISO 9001

'97.9 Z-E044A

Printed on recycled paper.
Printed in Japan 22