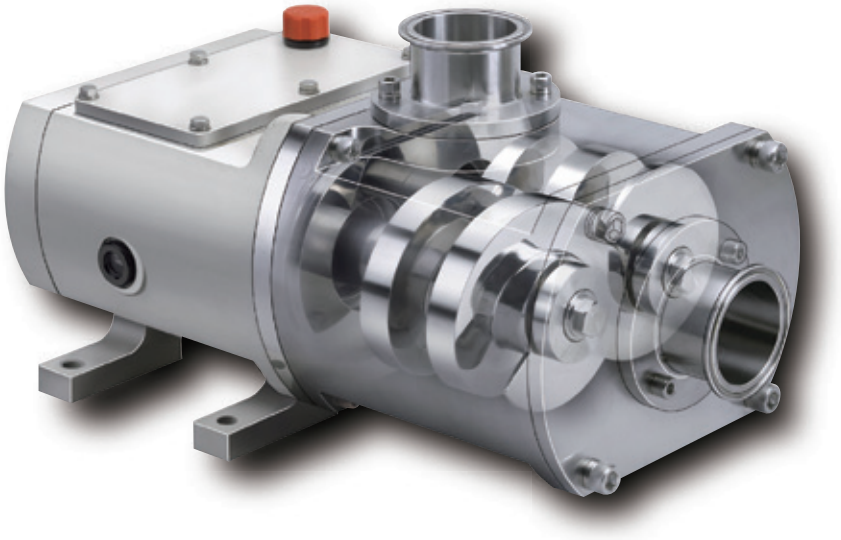


FUKKO's Twin Screw Pump

TWIN SCREW PUMP

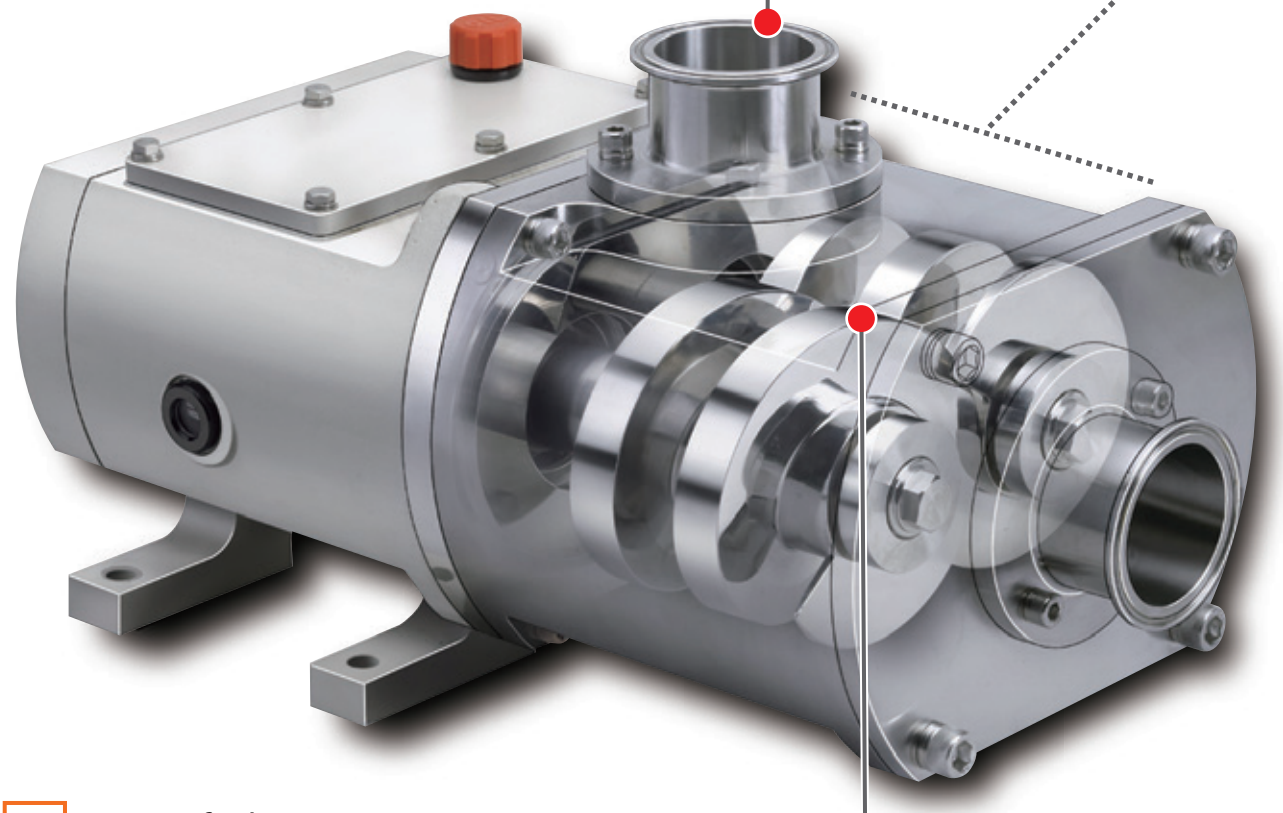
FUKKO KINZOKU Industry Co., Ltd.

FUKKO's Twin Screw Pump is chosen for its excellent transfer technology.

Reason for having resistance to high viscosity

Strong suction

Strong suction is created by the high-speed rotation of the screw.
Complete self-suction method enables the operation without priming.



▲SQ-type (Standard type)

Reason for having resistance to contamination

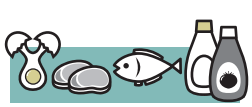
The rotating part is contactless.

Because of a very little abrasion of the screw by the slurry liquid transfer, contamination is not generated.

Best for use with high-viscosity slurry

The use of in-tube transfer and non-contact screws significantly lower running cost compared to conventional contact-screw-type pumps.

Main application areas

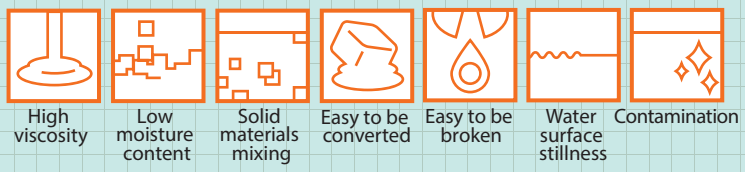


Food factory
- Ketchup
- Liquid eggs
- Rice cakes
- Grated radishes
- Miso
- Whipped cream

Cosmetics, drug medicines, and detergents
- Shampoo/Hair conditioner
- Toothpaste
- Liquid detergents
- Ointments

Chemical factory
- Solvent
- Adhesive
- Thermosetting resin
- Latex

Problems of each characteristic are solved.



Transfer in tubes

Reason for having resistance to **solid materials mixing**

A little shape breaking allows smooth transfer.

Reason for having resistance to **easy to be converted**

No stirring

Pushing out liquids in an axial direction without provision of turning power allows transfer of delicate liquids which can be converted by stirring.

Reason for having resistance to **easy to be broken**

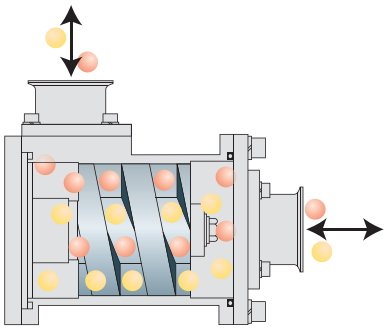
No shear

In-tube transfer method allows continuous transfer rooms to push out materials without shear force.

Reason for having resistance to **water surface stillness**

No pulsation

Continuous transfers by a screw allow constant discharge in regardless of viscosity.



In-tube transfer method

Positive-displacement self-suction pump with a twin screw.
The liquid inlet to the room which consists of two screws and casing is pushed out in the direction of the thrust without being kept by the rotation of the screws.

High performance

High-speed rotation of 3,600 rpm not shared by conventional pumps Maximum discharge pressure of 2.0 MPa is achieved.

Excellent cost performance

Because the smaller pumps than ever provide the same performance as ever, a difference is made on pump selection.

Making a contribution to the line simplification and quality assurance

A unit of pump can handle from low viscosity to high viscosity liquids, and the operation efficiency and quality assurance from liquid transfer to CIP (cleaning in place) are realized.

Structure with consideration of disassembling and cleaning

Easy disassembling and quick perfect cleaning are available.

Low noise/vibration

Because the discharge pressure is applied to the thrust load (axial direction), vibration is not generated and operation is noiseless.

Recycling facility Environmental facility
- Sludge
- Waste liquid
- Sawdust
- Rice straw

Petroleum/Paint/ Fat factory
- UV paint
- Slurry ink
- Grease
- Wax

Paper factory
- Cellulose
- Woody fiber
- Japanese paper material
- Emulsion
- Pulp material

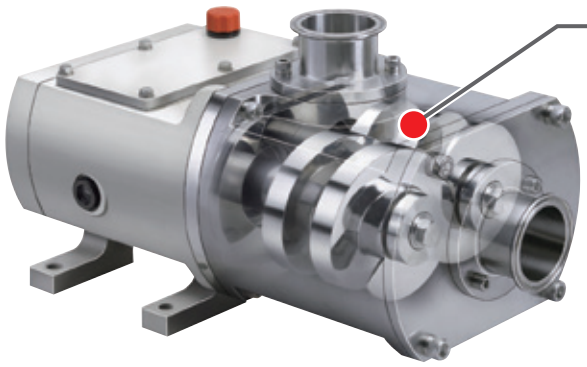
Others
- Carbon
- Alumina slurry
- Mineral slurry (battery material)

Two series according to applications Smooth transfer is achieved.

Transfer of any liquid is enabled.

SQ-type

Standard type



Structure with consideration of cleaning

- The part that contacts liquids can be exposed completely for various cleaning methods.
- Finish processing with consideration to cleaning of inside of the casing
- The mechanical seal is removable.
- The outside of the casing optionally can be finished buffing for the surface to be clean.

Specialized for low moisture content materials difficult to be transferred

SQW-type

Twin Screw Pump with Screw Conveyor (PAT)

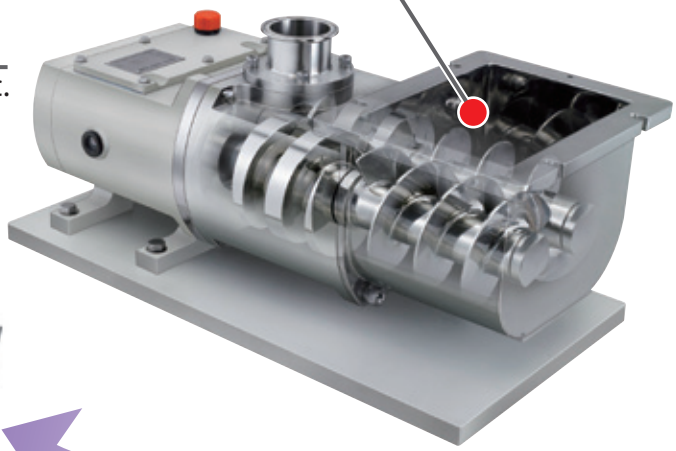
Patented

Mounting a screw conveyor realizes smooth transfer of superhigh viscosity liquids, soft materials like cakes, and others.

Low moisture content

Applications

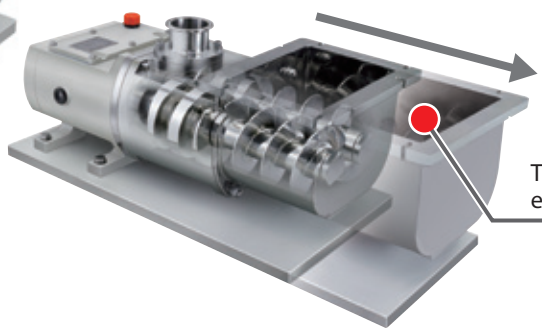
Bean curd refuse, corns, etc.



The inlet can be expanded for smooth input of materials to be transferred.

(Optional)

More special applications can be handled.



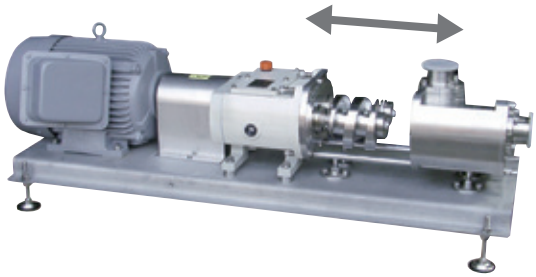
The inlet can be expanded furthermore.

Options are available that are suitable for your cleaning environment.

Slide bar specification (PAT)

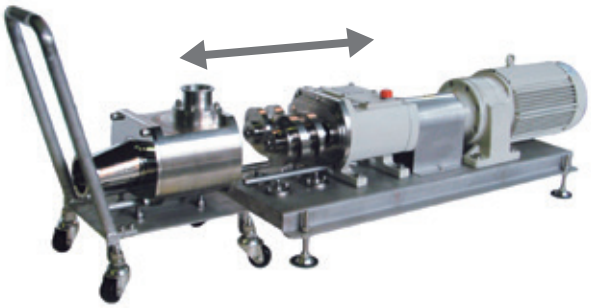
Patented

The casing can be attached/removed without touching the screws.



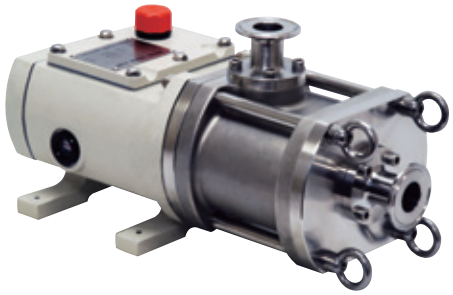
Slide bar docking system

Operations are easy on a dedicated wagon.



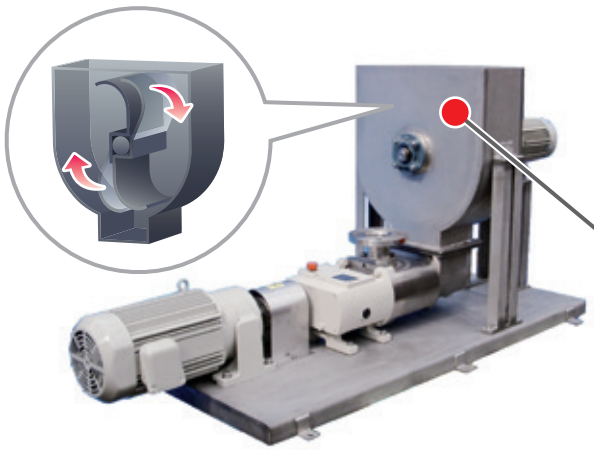
Stad specification

Easy disassembling/assembling allows effective daily cleaning.



A block of materials can be crumbled to be even.

Twin Screw Pump with Paddle



Furthermore with a feeder paddle mounted, materials like cakes almost solid can be crumbled to prevent bridges for smooth transfer.

Low moisture content

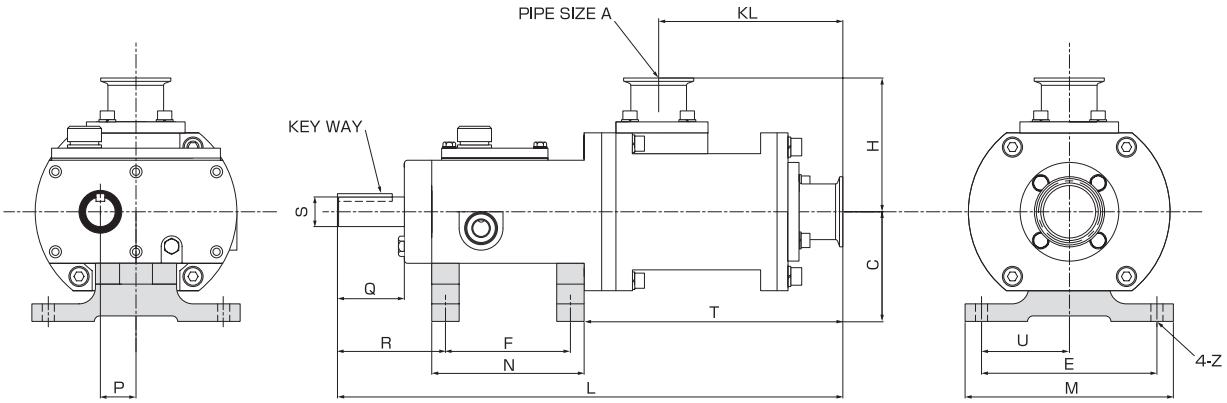
Applications

Grease, oil cakes, etc.

Outer dimensions/structure drawing/specifications

SQ-type (Standard type)

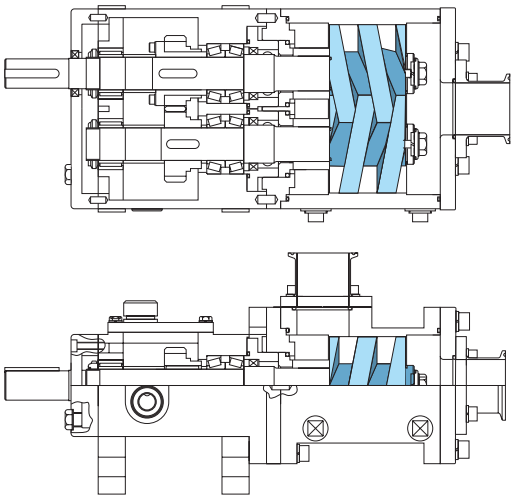
Outer dimensions



(Unit : mm)

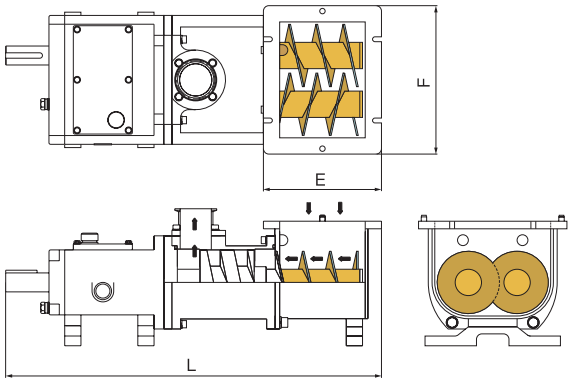
MODEL	A	C	Q	R	Key	S	F	N	L	U	P	E	M	H	KL	T	Z	Weight
SQ-25	1S	80	47	82.5	6	ø20	107	132	391	70	27	140	170	99	137	201.5	ø10	24kg
SQ-40	1.5S	90	51	89.5	8	ø22	120	145	426	75	30	150	180	105	149	216.5	ø10	40kg
SQ-50	2S	100	61	98.5	8	ø27	114	139	463	80	32.5	160	190	122	168	250.5	ø10	50kg
SQ-65	2.5S	117	80	124	10	ø34	135	165	558	110	45	220	250	136	207	299	ø12	75kg
SQ-80	3S	150	78	135	14	ø45	150	190	626	110	52.5	220	260	160	232.5	341	ø16	100kg

Structure drawing



SQW-type
(with a screw conveyor)

Outer dimensions/structure drawing



(Unit : mm)

MODEL	E	F	L
SQW-25	150	186	469
SQW-40	172	204	526
SQW-50	175	218	554
SQW-65	218	274	694
SQW-80	247	318	772

●The dimensions above are of the standard one.
Other dimensions are available.

Main specifications

Type	SQ(W)-25	SQ(W)-40	SQ(W)-50	SQ(W)-65	SQ(W)-80
Seal method	Mechanical seal (single/edge)				
Connection method	Ferrule, IDF screw, and JIS10K				
Discharge pressure	Max. 2.0MPa				
Rotation speed	Max. 3,600rpm				
Viscosity	500,000mPa·s				
Flow direction	Reverse is available.				
Operating temperature	100°C (Standard specification) *				
Bore	1S to 3S				
Drive system	Direct coupling and V belt drive				

***200°C (Special specification)**

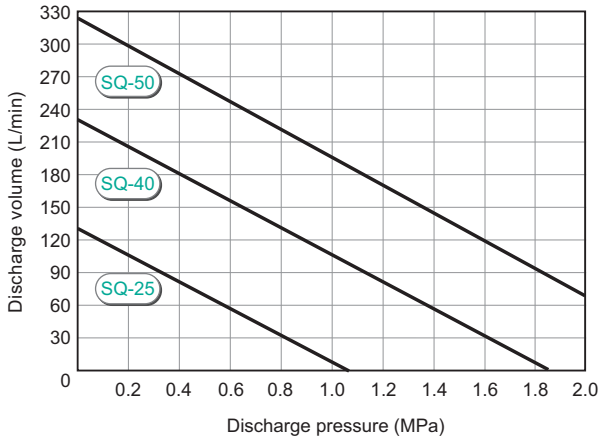
Main part standard material

Housing	FC250
Casing	SCS16
Rotating screw	SUS316L
Shaft	SUS329J1

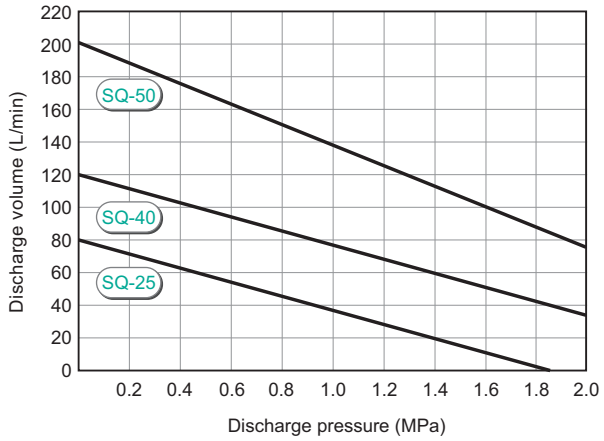
Performance curves

SQ-25, SQ-40, SQ-50

1cp 3,000rpm

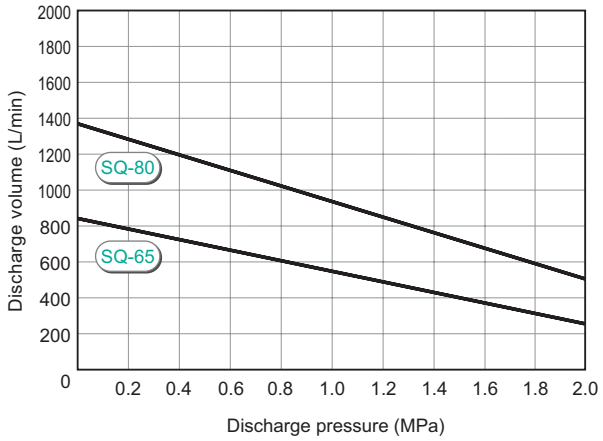


10,000cp 1,800rpm

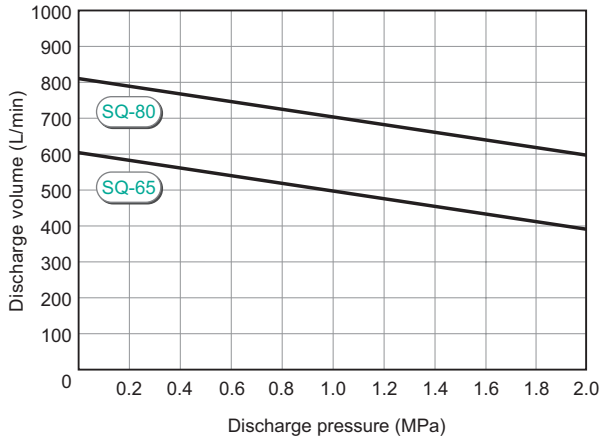


SQ-65, SQ-80

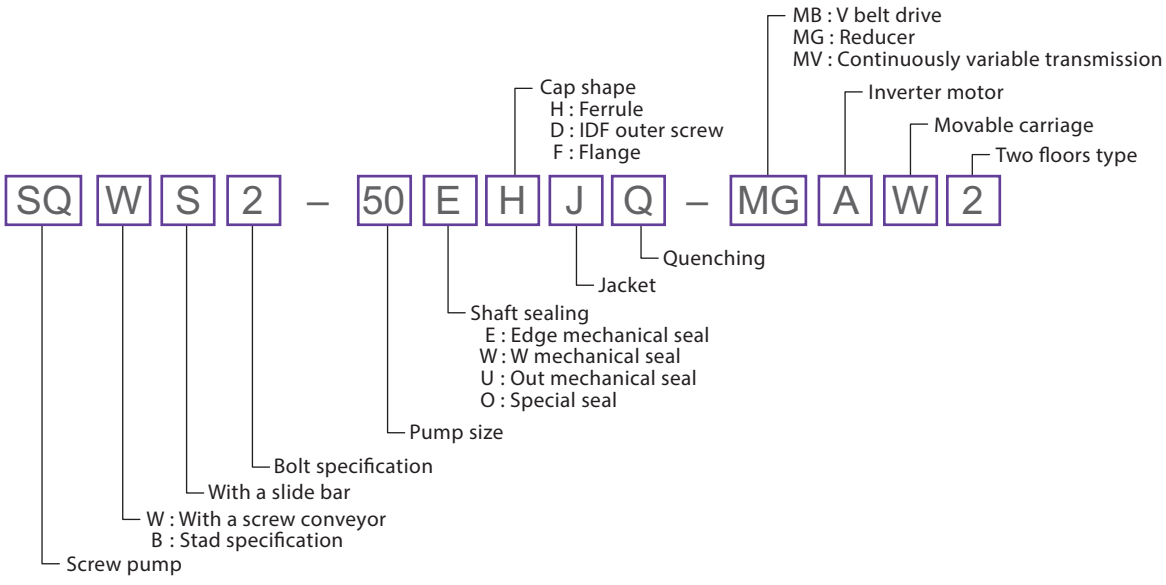
1cp 3,000rpm



10,000cp 1,800rpm



Model indications



If you have any inquiries:

We would appreciate your help if you fill in the following information sheet before you make an inquiry, for example when looking for an estimate. (Please fill in the data to the extent of your knowledge.)

Transferred substances	Material	
	State of the material	☐ Liquid ☐ Cake-like materials ☐ Solid with some fluidity
	Temperature	Common use : ℃ / Maximum : ℃
	Cleaning	☐ None ☐ Clean (℃) (☐ Hot water ☐ CIP ☐ SIP ☐ Vapor)
	Relative density	(at ℃)
	Viscosity	mPa· s (at ℃)
	Solid mixture	☐ None ☐ Mixed (Properties : Granularity : Rate of mixture : %)
	Corrosive	☐ No ☐ Yes
Pump specification	Discharge volume	L / min m^3 / Hr
	Discharge pressure	m MPa
	Intake pressure	Push (+) : m Suction (-) : m
Motor specification	Power supply	V Hz ☐ Indoors ☐ Outdoors
	Type	☐ TEFC ☐ Explosion proof safety increased ☐ Explosion proof
	Driving method	☐ V belt ☐ Reduction gears ☐ Continuously variable transmission ☐ Inverter motor
Connection duct	Intake duct aperture	
	Discharge duct aperture	

Piping drawing

FUKKO pump **FUKKO KINZOKU Industry Co., Ltd.**

Head office and factory:
2-33 Fukiyacho, Wakayama City, Wakayama Pref. 640-8324
PHONE +81-73-424-8155 / FAX +81-73-426-0710

Tokyo office:
3F Shiobe Bldg., 4-9-6 Hacchobori, Chuo Ward, Tokyo 104-0032
PHONE +81-3-3553-0351 / FAX +81-3-3553-0352

Kokawa Factory:
PHONE +81-736-73-6161 / FAX +81-736-73-7110

URL ▶ https://www.fukko.com/
E-mail ▶ fukkopump@fukko.com

Visit our web for details.
fukko pump Search

ISO 9001:2015 Certified business locations: Wakayama HQ and Tokyo Office

Safety notice

To use the product properly and safely, thoroughly read the instructions before using it.

2022.11 MEE16G006A