Applicable Industries

Energy and petroleum industry
Crude oil, Asphalt, Pitch, Surface acting agent, Emulsion fuel, Biofuel, Atom, Storage tanks, etc.

Coal industry
COM, CWM, Surface acting agent, etc.

Metal industry
Quenching tank, Heat resistant furnace material, Cooling water, Wire manufacturing, Aluminum hydroxide, Molten lead, Plating, etc.

Oil and fat industry
Soap, Animal and vegetable oil, Butter, Lard, Tallow, Margarine, Lubricant, Cooking oil, Storage tanks, etc.

Synthetic resin industry
Vinyl chloride, Polyester, Adhesive, Cellulose, Plastic, Polypropylene, ABS resin, etc.

Dye industry
Colored powder, Titanium oxide, Viscose, Pigment, etc.

Paint industry
Ink, Paint, Solvent, etc.

Pharmaceutical industry
Pigment, Perfume, Emulsion, Medical products, Cosmetics, Synthetic medicines, etc.

Livestock agriculture industry
Fertilizer (Phosphoric acid, Potash, Ammonium sulfate, Lime) Feed, Ammonia, Insect repellent, Pesticide, etc.

Electronic industry
Ceramics, Magnetic iron powder, Iron oxide, Silicone, etc.

Rubber industry
Natural rubber, Synthetic rubber, Latex, Solvent, etc.

Textile industry
Acrylic fiber, Acetate, Nylon, Polyester, Vinylon, Solvent, Adhesive paste, etc.

Paper making industry
Pulp, Casein, Kaolin, Talc, Clay, Size, Aluminum sulfate, PVA, CMC, Black liquor, Green liquor, Paint, Rosin, Magnesium hydroxide, etc.

Ceramic engineering
China clay, Insulator, Glaze, etc.

Civil engineering and construction industry
Cement, Mortar, Paint, etc.

Food industry
Cream, Chocolate, Milk, Sauce, Mayonnaise, Dressing, Fruit juice, Ketchup, Coffee, Seasoner, Salt, Sugar, Flour, Food additives, Sweetener, Perfume, Colorant, etc.

Brewing industry
Sake, Whiskey, Beer, Shochu, Diatom earth, etc.

Ferment industry
Soy sauce, Vinegar, Miso, Unrefined sake, Bio reactor, etc.

Other plant equipment
Chemical dissolution, Coal, Heat transfer oil, Cutting oil, etc.

Prevention of air pollution
Caustic soda, Calcium carbonate, Flue gas desulfurization, etc.

Water purifying plant
City water, Industrial water, Active carbon, Chlorine, Caustic soda, Chemicals, etc.

Waste water and effluent treatment plant
High-polymer coagulant, Diatom earth, Aluminum sulfate, Ferrous sulfate, Ferric sulfate, Caustic soda, Sulfuric acid, Sludge tank, Biological reactor, Sodium hypochlorite, Rapid mixing, Slow mixing, etc.

http://www.satake.co.jp
info@satake.co.jp

ISO 9001 Certification Granted to Tokyo office, Osaka office

ISO 14001 Certification Granted to Tokyo office, Osaka office and Chubu sales service center

The product delivered to you may differ from the shape or specifications of the product described in this catalogue.

Making every effort to develop and manufacture products that satisfy customer needs and the demand for safety.

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SATAKE

SATAKE PORTABLE MIXER

SATAKE MULTI A MIXER

CAT No.撹-13E(002)

Outstanding reliability and functionality achieved by Satake's long history and experiences.

Another new page of the mixing world has been turned again.
New multi-purpose mixers "Portable Mixer" and "Multi A Mixer" come out after improving their reliability and functionality. The new mixers have a number of advantages; wide variations of models and options, simple but tough design, and trouble-free operation. They will surely meet your needs.

SATAKE PORTABLE MIXER

Easy removable clamp type mixers

SATAKE MULTI A MIXER

Smallest flange top mount type mixers

AT□-G series
Medium-speed type
For general use

AT□-D series
Low-speed type
For storage tanks

AT□-V series
Variable speed type
For multi-purpose such as reaction

Operation that liquid level passes over impeller's position and empty operation are strictly prohibited

Operation that the liquid level passes over the impeller's position:

It means the operation within ten minutes from the stable condition which does not generate suction vortices constantly (Minimum liquid level in the drawing) to the condition that the lowest impeller exposes completely in air (or the opposite procedures) when a liquid increases or decreases during a mixing operation.
If the operation mentioned above continues for ten minutes or more, the operation is called "Aeration" (Unstable condition that generates suction constantly and the impeller hits the liquid surface severely.) The aeration causes shaft bending etc.

Empty operation:

It means that the lowest impeller rotates in air by operation that the liquid level passes over the impeller's position etc. In empty operation, liquid has no damping and that causes shaft bending. Stop the operation within ten minutes.

Small and lightweight body

With its compact design and clamping parts, Portable Mixer is easy to handle and can be installed anywhere you like, The clamp has a 60-degree range of up-and-down movement.

Many variations

Not only High, Low and Medium speed type, but "Air-motor type" for safety use in an explosion-proof area and "Stainless steel model" for use in the fields of fine chemicals, food processing and pharmaceuticals are also available.
In Japan, Electrical Appliance and Materials Safety Law (PSE) was established in 2006. We have "PSE compatible type" to comply with the law. Please refer to page14 about PSE.

High performance impellers

To meet varied needs of our customers, we developed our original high performance impellers "P36", "S15", "L18", "K02" through flow analysis, flow velocity distribution measurement and so on.

Free choice of materials

The shaft and the impeller are attached to the drive shaft with set screws so that they can be easily removed of it. Their standard materials are SUS304 or SUS316, but anticorrosion metal, rubber lining application and resin coating are available, too.

Engineering plastic gear

For Medium-speed type, a special gear which is made of engineering plastic is used. This gear reduces disturbing noises and doesn't require lubrication.

Revision of design

We reviewed the structure and materials of the previous models. While maintaining the compactness of them, we realized these simple and sturdy mixers.

Options

We have many original options to meet your needs. There are "Oilless air motor type" for sanitary use, "One touch coupling", etc.

For more information, check out our web site.
(Some menus are written only in Japanese.)

http://www.satake.co.jp

How to choose your best mixer

First, check out the tables below for the viscosity or the particle sedimentation velocity. Then, select your best model with reference to the graphs of each product.
When you mix particles in viscous liquid, please choose a model of bigger power with reference to both graphs.

■ List of liquid viscosity

Level	Liquid	Temperature (°C)	Viscosity (cp)
about 50 cp	Acetone	20	0.32
	Toluene	20	0.59
	Benzene	20	0.65
	Water	20	1
	Caustic soda 20%	20	4.5
	Sulfuric acid 100%	20	27
	Oil	10	3
	Alcohol	20	5 or less
	Glycerin 50%	20	6
	Dynamo oil	20	100
	Sodium hydroxide	20	110
	Milk	24	2
	Soy sauce	24	8
	Calpis	24	20
	Thick lactic acid bacteria beverage	24	31
	Salad oil	24	65
	Tomato juice	24	77
	Olive oil	24	100
about 1000 cp	Tomato juice	24	400
	Tonkatsu sauce	24	640
	Gomme syrup	24	850
	Honey	24 –	– 1,300
	Condensed milk	24 –	– 2,000
	Ricinus	20	1,000
	Glycerin 100%	20	1,500
	Petroleum	25 –	– 2,500
Please ask us	Ketchup	24	1,800
	Strawberry jam	23	6,000
	Mayonnaise	23	8,000
	Shoe polish	20	12,000
	Starch glue	22	29,000
	Tooth paste	21	30,000
	Pomade	21	45,000

*Please refer to us when fluidization is difficult due to the structural viscosity.

■ List of particle sedimentation velocity

Level	Group	Particle	Particle size
about 1 mm/sec	Metals (Specific gravity : from 7 to 10)	Iron	10μm or less
		Copper	10μm or less
		Nickel	10μm or less
	Non-ferrous metals (Specific gravity : from 4 to 5)	Titanium	20μm or less
		Aluminum oxide	25μm or less
		Ferrite	20μm or less
	Ceramics (Specific gravity : from 2 to 3)	SiO_2	35μm or less
		Zeolite	40μm or less
		Graphite	40μm or less
	Minerals (Specific gravity : from 2 to 3)	Cement	35μm or less
		Clay	40μm or less
		Diatom earth	40μm or less
	Carbonated hydroxide (Specific gravity : from 2 to 3)	Caustic soda	35μm or less
		Hydrated lime	40μm or less
		Calcium carbonate	30μm or less
	Foods (Specific gravity : around 1.5)	Salt	50μm or less
		Sugar	60μm or less
		Cornstarch	60μm or less
	Resins (Specific gravity : up to 1.5)	Vinyl chloride	60μm or less
		Acrylic resin	80μm or less
		Nylon	100μm or less
about 20 mm/sec	Metals	(Specific gravity : from 7 to 9)	From the above sizes to 70μm
	Non-ferrous metals	(Specific gravity : from 4 to 5)	From the above sizes to 100μm
	Ceramics	(Specific gravity : from 2 to 3)	From the above sizes to 130μm
	Minerals	(Specific gravity : from 2 to 3)	From the above sizes to 130μm
	Carbonated hydroxide	(Specific gravity : from 2 to 3)	From the above sizes to 130μm
	Foods	(Specific gravity : around 1.5)	From the above sizes to 200μm
	Resins	(Specific gravity : – 1.5)	From the above sizes to 250μm
Please ask us	Metals	(Specific gravity : from 7 to 9)	70μm or more
	Non-ferrous metals	(Specific gravity : from 4 to 5)	100μm or more
	Ceramics	(Specific gravity : from 2 to 3)	130μm or more
	Minerals	(Specific gravity : from 2 to 3)	130μm or more
	Carbonated hydroxide	(Specific gravity : from 2 to 3)	130μm or more
	Foods	(Specific gravity : around 1.5)	200μm or more
	Resins	(Specific gravity : – 1.5)	250μm or more

*Mother water: equivalent of water
*Please refer to us when the slurry density is more than 10%.

All of Satake Mixers are Made In Japan.

Our products are assembled, manufactured, inspected by our experienced staff in the domestic factory.

Contents

A720,A725

Medium-speed type

Number of revolution | 50Hz : 300min^{-1} | 60Hz : 360min^{-1}

A720 is ideal for soluble liquids mixing, dilution, heat transfer, solid-liquid mixing, dispersion, antisedimentation and homogeneous mixing. Compact, light, but tough. The clamp is integrated with the mixer body.

Model Coding

A72 | 0 | – | 0.2 | A | I

Options I : Inverter S : PSE

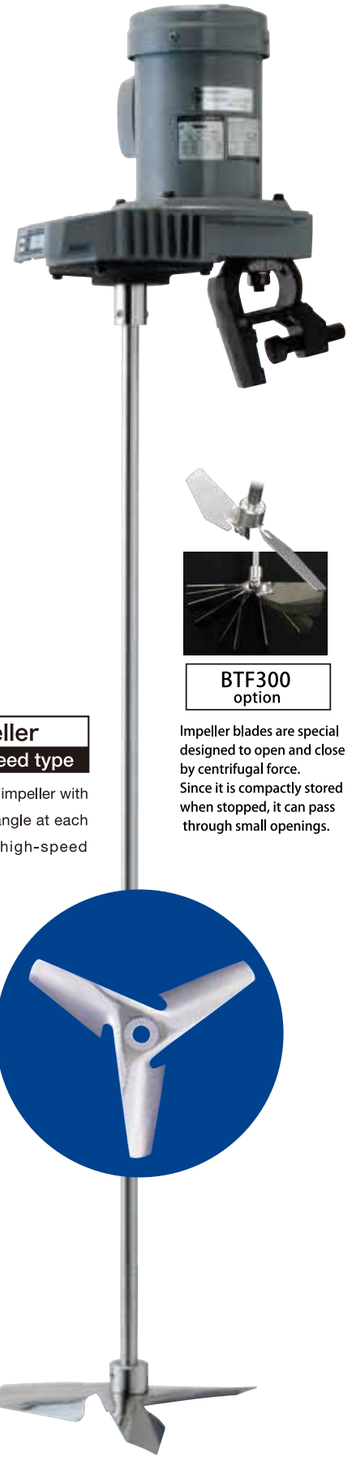
Type of motor

A : Single-phase 100V totally-enclosed-fan-cooled motor for indoor use
B : Three-phase 200V totally-enclosed-fan-cooled motor for indoor use
C : Three-phase 200V totally-enclosed-fan-cooled motor for outdoor use
D : Three-phase 200V increased-safety explosion-proof motor for outdoor use
E : Three-phase 200V flame-proof motor for outdoor use
F : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for indoor use
G : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for outdoor use
H : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for outdoor use
J : (Voltage other than 100V and 200V) flame-proof motor for outdoor use
K : Air motor
L : Three-phase 200V increased-safety explosion-proof motor for indoor use
M : Three-phase 200V flame-proof motor for indoor use
N : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for indoor use
P : (Voltage other than 100V and 200V) flame-proof motor for indoor use

Power of motor From 0.065kW to 1.5 kW

Number of poles 0 : 4P 5 : 6P

SATAKE PORTABLE MIXER Medium-speed type



BTF300 option

Impeller blades are special designed to open and close by centrifugal force. Since it is compactly stored when stopped, it can pass through small openings.

P36 Impeller
For Medium-speed type

This superior hydrofoil impeller with a camber and a rake angle at each blade can generate high-speed axial flows.

JPN PAT.No.827551

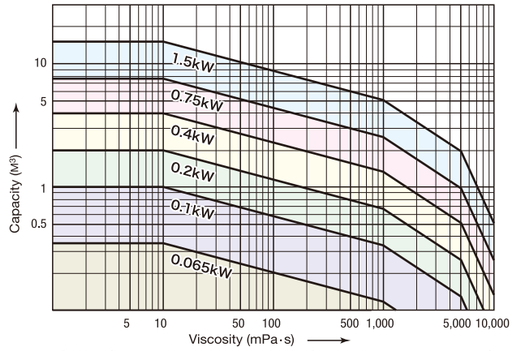
Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A720-0.065A	1	0.065	4	Single-phase 100	50	300	150	1	600
					60	360			
A720-0.1A		0.1	4	Single-phase 100	50	300	220	1	800
					60	360			
A720-0.1B		0.1	4	Three-phase 200	50	300	220	1	800
					60	360			
A720-0.2A	2	0.2	4	Single-phase 100	50	300	270	1	1000
					60	360			
A720-0.2B		0.2	4	Three-phase 200	50	300	270	1	1000
					60	360			
A720-0.4B	3	0.4	4	Three-phase 200	50	300	310	1	1250
					60	360			
A725-0.4B	4	0.4	6	Three-phase 200	50	200	350	1	1500
					60	240			
A720-0.75B		0.75	4	Three-phase 200	50	300	350	1	1500
					60	360			
A725-0.75B	5	0.75	6	Three-phase 200	50	200	400	1	2000
					60	240			
A720-1.5B		1.5	4	Three-phase 200	50	300	400	1	2000
					60	360			

* The standard materials for the shaft and the impeller are SUS304 or SUS316.
* This model is the successor to A520 model.

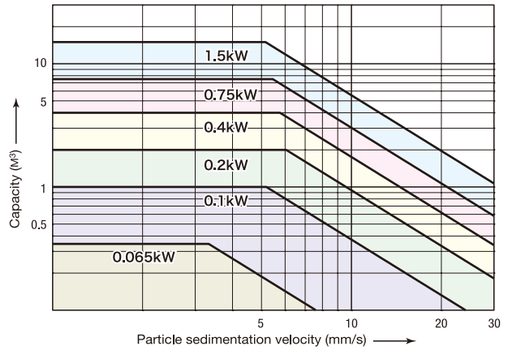
Charts to select the mixing capacity (For Medium-speed type)

■ Judging by liquid viscosity



* Please refer to us when the viscosity is 1000 mPa・s or more, or when the specific gravity is 1.2 or more.
* It takes 5 minutes or more to mix a liquid with another liquid.

■ Judging by particle sedimentation velocity



* This chart shows the case where the specific gravity is from 2 to 3 and the viscosity is 50 mPa・s.
* Please refer to us when the impeller diameter is 25% of the tank diameter or smaller.

Options

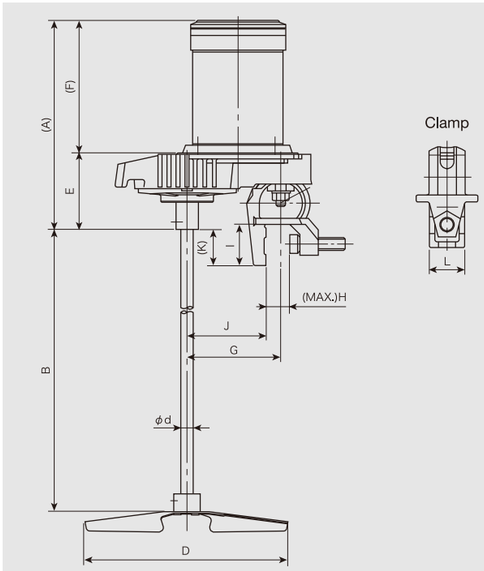
Electric component	Inverter, Control panel, etc.
Impeller	Three bladed propeller, Paddle, Turbine, etc.
Material	Low carbon material, Hastelloy, Titanium, etc.
Lining	Rubber lining, PVC, FRP, etc.
Sanitary	Wetted part : Buffing, Electrochemical polishing, Welding, etc.
	Body : Stainless steel cover for motor, speed changer and reducer, Stainless coating, Special plating, etc.
Other options	One touch coupling, Safety cover, etc.

Applicable stands and tanks

Mixer		Applicable stand	Applicable tank
Model	Power(kW)		
A720	0.065	ZS-1	ZT-20, ZT-25, ZT-35, ZT-45 ZT-65, ZT-80, ZT-100, ZT-150
		ZU-1	ZT-65, ZT-80, ZT-100, ZT-150
	0.1	ZS-2	ZT-65, ZT-80, ZT-100, ZT-150
		ZU-1	ZT-200
	0.2	ZS-3	ZT-150, ZT-200 300 – 800ℓ
		ZS-4	300 – 800ℓ
		ZU-1	ZT-200
	0.4	ZS-4	300 – 2000ℓ
		ZS-5	300 – 2000ℓ
	0.75	ZS-5	300 – 3000ℓ

* ZU-1 (Universal mount) is an option.
* Tanks with "ℓ" notation are special items.
* Please ask us about the applicable stand and tank for 1.5kW mixer.

Dimensional drawing



Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)													Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	D	E	(F)	G	H (MAX)	I	J	(K)	L	
A720	1	0.065 A	(268)	560	960	13	150	86	(182)	100	28	48	85	(48)	40	10
		0.1 A	(268)	760	960	13	220	86	(182)	100	28	48	85	(48)	40	11
		0.1 B	(259)	760	960	13	220	86	(173)	100	28	48	85	(48)	40	11
	2	0.2 A	(306)	950	1200	16	270	101	(205)	125	32	55	105	(48)	45	15
		0.2 B	(276)	950	1200	16	270	101	(175)	125	32	55	105	(48)	45	15
	3	0.4 B	(382)	1190	1440	20	310	152	(230)	140	39	65	120	(28)	52	19
	4	0.75 B	(449)	1425	1675	25	350	189	(260)	160	48	80	140	(35)	70	34
	5	1.5 B	(517)	1905	2105	30	400	215	(302)	190	58	90	165	(29)	120	55

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* B in the table shows the standard length of the shaft. When a shorter or longer shaft than the standard is needed, please ask us.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.

A720-□BX

Medium-speed type （Inverter integrated type）

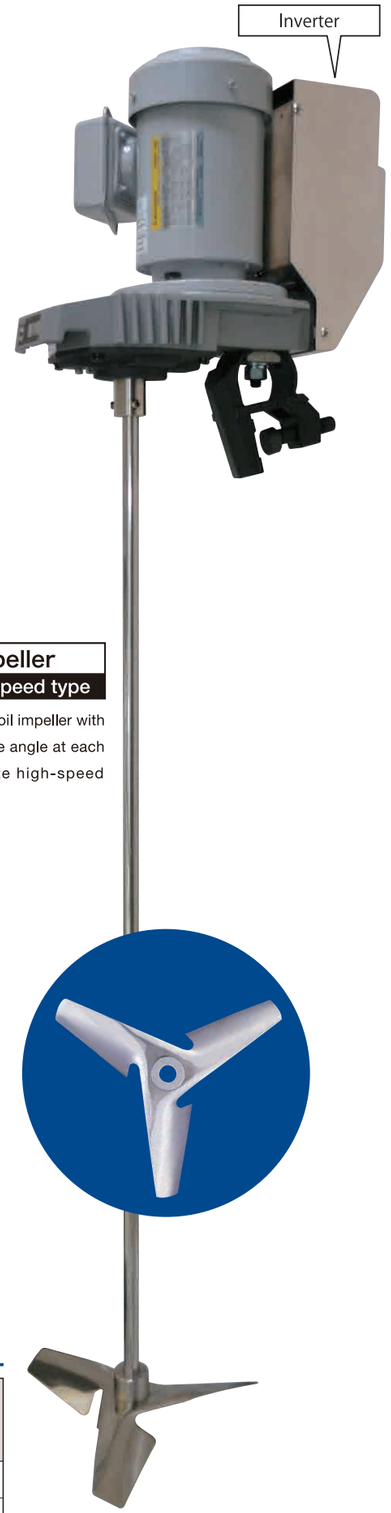
Number of revolution　50/60Hz : 72～360min^{-1}

A720-□BX is a mixer in which the inverter and the main body areintegrated. Rotation speed can be easily done by dial operation, and it can respond flexibly to changes in liquid volume and viscosity. By using only the necessary power, energy-saving is realized.

Model Coding

A72 | 0 | – | 0.2 | B | X

- 0.2 : Inverter integrated type
- B : Type of motor — B : Three-phase 200V totally-enclosed-fan-cooled
- 0.2 : Power of motor — From 0.2kW～0.75kW
- 0 : Number of poles — 0 : 4P
- A72 : SATAKE PORTABLE MIXER — Medium-speed type



P36 Impeller
For Medium-speed type

This superior hydrofoil impeller with a camber and a rake angle at each blade can generate high-speed axial flows.

JPN PAT.No.827551

Inverter

Easy speed change with dial

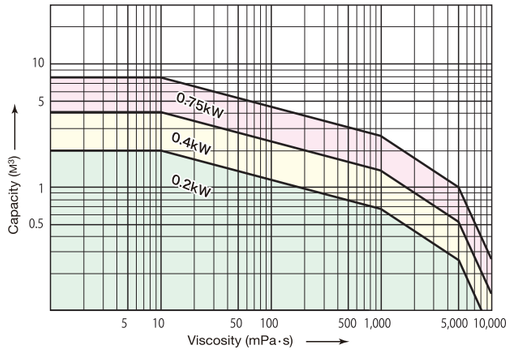
Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A720-0.2BX	2	0.2	4	Three-phase 200	50 / 60	-360	270	1	1000
A720-0.4BX	3	0.4	4	Three-phase 200	50 / 60	-360	310	1	1250
A720-0.75BX	4	0.75	4	Three-phase 200	50 / 60	-360	350	1	1500

* The standard materials for the syaft and the impeller are SUS304 or SUS316.
* The model is the successor to A520-0.2BX・0.4BX・0.75BX model.

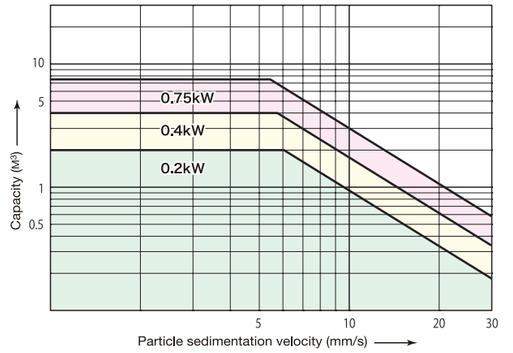
Charts to select the mixing capacity (For Medium-speed type)

■ Judging by liquid viscosity



* Please refer to us when the viscosity is 1000 mPa・s or more, or when the specific gravity is 1.2 or more.
* It takes 5 minutes or more to mix a liquid with another liquid.

■ Judging by particle sedimentation velocity



* This chart shows the case where the specific gravity is from 2 to 3 and the viscosity is 50 mPa・s.
* Please refer to us when the impeller diameter is 25% of the tank diameter or smaller.

Options

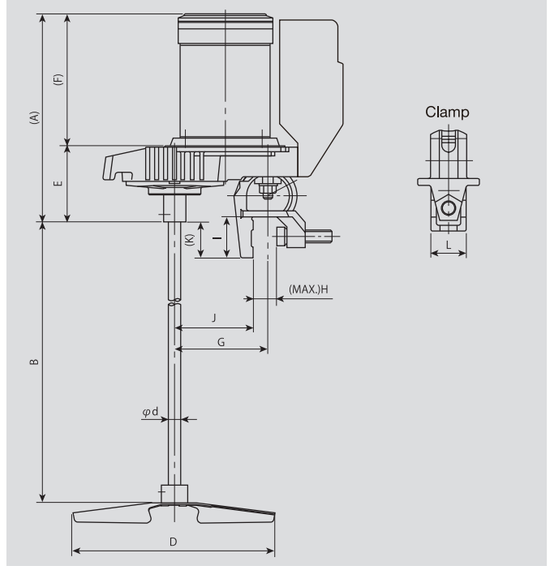
Electric component	Inverter, Control panel, etc.
Impeller	Three bladed propeller, Paddle, Turbine, etc.
Material	Low carbon material, Hastelloy, Titanium, etc.
Lining	Rubber lining, PVC, FRP, etc.
Sanitary	Wetted part : Buffing, Electrochemical polishing, Welding, etc.
	Body : Stainless steel cover for motor, speed changer and reducer, Stainless coating, Special plating, etc.
Other options	One touch coupling, Safety cover, etc.

Applicable stands and tank

Mixer		Applicable stand	Applicable tank
Model	Power(kW)		
A720-□BX	0.2	ZS-3	ZT-150・ZT-200 300～800ℓ
		ZS-4	300～800ℓ
		ZU-1	ZT-200
	0.4	ZS-4	300～2000ℓ
		ZS-5	300～2000ℓ
	0.75	ZS-5	300～3000ℓ

* ZU-1 (Universal mount) is an option.
* Tanks with "ℓ" notation are special items.

Dimensional drawing



Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)												Estimated weight (kg)
			(A)	B	B-MAX (Option)	φd	D	E	(F)	G	H (MAX)	I	J	(K)	L	
A720-0.2BX	2	0.2	(309)	950	950	16	270	101	(208)	125	32	55	105	(48)	45	17
A720-0.4BX	3	0.4	(381)	760	1190	20	310	152	(229)	140	39	65	120	(28)	52	23
A720-0.75BX	4	0.75	(425)	760	1425	25	350	189	(236)	160	48	80	140	(35)	70	34

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* B in the table shows the standard length of the shaft. When a shorter or longer shaft than the standard is needed, please ask us.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer' s standard color.

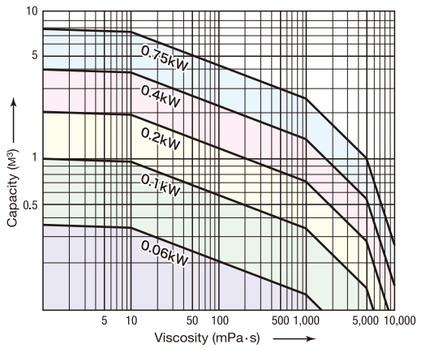
A720-K

Air-motor type Medium-speed type

Number of revolution 200 – 360min^{-1}

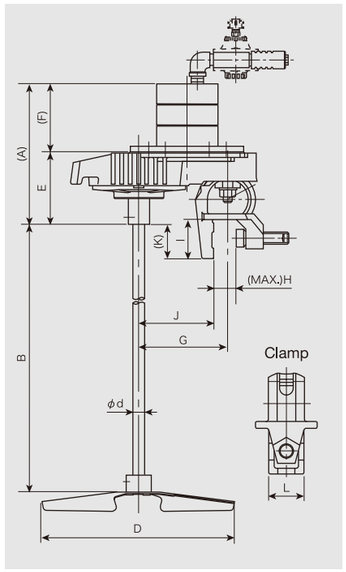
A720-K is driven by air-motor and it is safe to use in an explosive area. The rotation speed can be adjusted widely. It is protected against overloading. The oilless type and stainless steel type are also available.

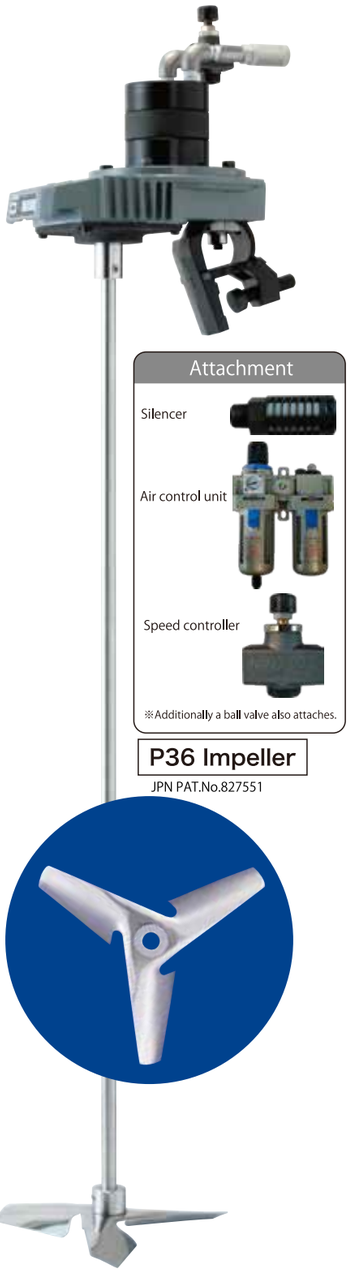
Charts to select the mixing capacity (For medium-speed type)



* Please refer to us when the viscosity is 1000 mPa・s or more, or when the specific gravity is 1.2 or more.
* It takes 5 minutes or more to mix a liquid with another liquid.

Dimensional drawing





Standard specification

Model	Frame number	Model of air-motor	Motor		Impeller			Shaft length (mm)
			Air consumption (N ℓ /min)	Pressure (MPaG)	Revolution (min^{-1})	Diameter (mm)	Stage	
A720-0.06K	1	VA30L	220	0.4	200 – 360	150	1	600
A720-0.1K		VA30L	250	0.5	200 – 360	220	1	800
A720-0.2K	2	VA30L	400	0.5	200 – 360	270	1	1000
A720-0.4K	3	VA50L	680	0.5	200 – 360	310	1	1250
A720-0.75K	4	VA100L	1300	0.5	200 – 360	350	1	1500

* The standard materials for the shaft and the impeller are SUS304 or SUS316.
* The air consumption amounts in the table above are the values at the point when the output number of revolutions of the motor is 1800min-1.
* Standard accessories for lubrication type : Air control unit (filter, regulator, lubricator) ball valve (0.06K–0.2K… #400 1/4, 0.4K… #400 3/8, 0.75K… #400 1/2) speed controller, silencer (the control unit mount is not attached.)
  As an option, tachometers can be installed (only for 0.4 and 0.75kW.)
* We also have air motor types of A610 (high-speed type) and A640 (low-speed type.) Please refer.

Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)												Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	D	E	(F)	G	H (MAX)	I	J	(K)	L	
A720-K	1	0.06K	(182)	560	960	13	150	86	(96)	100	28	48	85	(48)	40	8
		0.1K	(182)	760	960	13	220	86	(96)	100	28	48	85	(48)	40	9
	2	0.2K	(197)	950	1200	16	270	101	(96)	125	32	55	105	(48)	45	12
	3	0.4K	(260)	1190	1440	20	310	152	(108)	140	39	65	120	(28)	52	17
	4	0.75K	(322)	1425	1675	25	350	189	(133)	160	48	80	140	(35)	70	30

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer' s standard color.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* This model is the successor to A520-K model.

A760

Stainless steel model Medium-speed type

Number of revolution 50Hz : 300min^{-1} 60Hz : 360min^{-1}

The main body of this mixer is made of stainless steel. It prevents rust and painting being mixed into the object. It is suitable for the fields of fine chemicals, pharmaceuticals, and food processing.

Stainless steel motor

This mixer is full-stainless steel made, of course equipped with a motor (totally-enclosed type, 200V) made of stainless steel. An air motor made of stainless steel is also available.

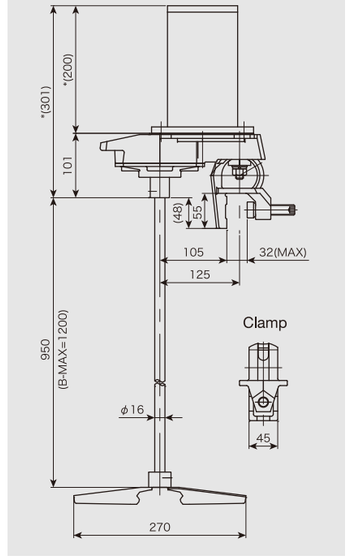
Wide variation

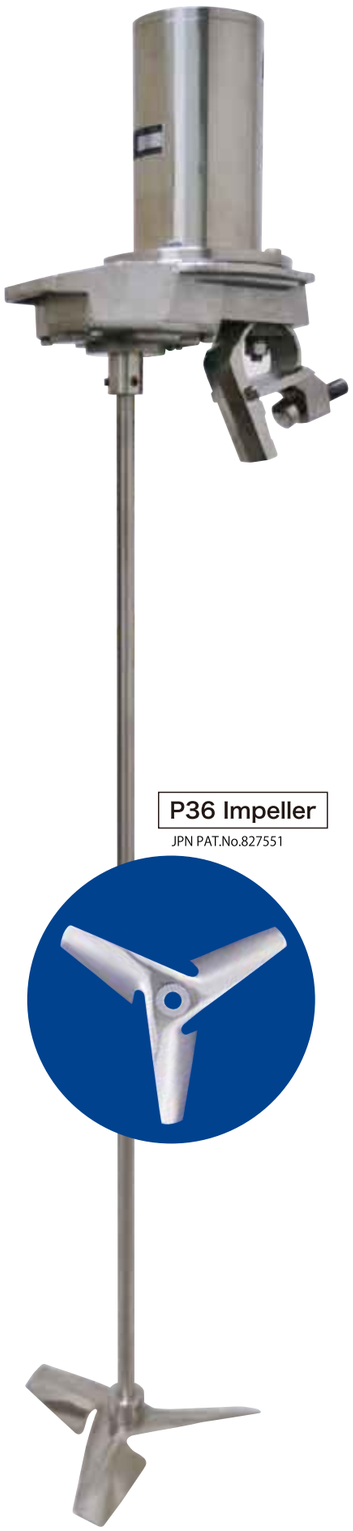
We have a lot of choices and options for our mixers; air motor (lubrication type and non-lubrication type), explosion-proof motor, motor other than 100V and 200V, and stainless steel cover for general motor, etc.

Sanitary

We can meet your sanitary requests with options; buffing and EP treatment can be applied to the shaft and impellers.

Dimensional drawing





Standard specification

Model	Motor			Mixing capacity		Estimated weight (kg)
	Power (kW)	Frequency (Hz)	Revolution (min^{-1})	Dilution (ℓ)	Medium viscosity liquid (ℓ)	
A760-0.2 B	0.2	50	300	2000	700	20 (Including the impeller and the shaft)
		60	360			
A760-0.2 K	0.2	–	200 – 360	2000	700	20 (Including the impeller and the shaft)

* The standard materials for the shaft and the impeller are SUS304 or SUS316.
* Dimensions of motor vary depending on the brand.
* This model is the successor to AS520 model.

Multi A Mixer is also available.

We have flange-mount type stainless steel model mixer, too.

Specifications

Model	AS24-GPR-0.2□
Power	0.2kW
Revolution	50Hz : 300min^{-1} 60Hz : 360min^{-1}
Estimated weight	16kg (Including the impeller and the shaft.)

A710,A715

High-speed type

Number of revolution 50Hz : 1450min^{-1} 60Hz : 1750min^{-1}

This A710 model is appropriate for powder dissolution and application in which strong shear force is required.

Model Coding

A71 | 0 | – | 0.2 | A | I

Options I : Inverter S : PSE

Type of motor

A : Single-phase 100V totally-enclosed-fan-cooled motor for indoor use
B : Three-phase 200V totally-enclosed-fan-cooled motor for indoor use
C : Three-phase 200V totally-enclosed-fan-cooled motor for outdoor use
D : Three-phase 200V increased-safety explosion-proof motor for outdoor use
E : Three-phase 200V flame-proof motor for outdoor use
F : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for indoor use
G : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for outdoor use
H : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for outdoor use
J : (Voltage other than 100V and 200V) flame-proof motor for outdoor use
K : Air motor
L : Three-phase 200V increased-safety explosion-proof motor for indoor use
M : Three-phase 200V flame-proof motor for indoor use
N : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for indoor use
P : (Voltage other than 100V and 200V) flame-proof motor for indoor use

Power of motor From 0.065kW to 1.5 kW

Number of poles 0 : 4P 5 : 6P

SATAKE PORTABLE MIXER High-speed type

*Please ask us about the specification of the air-motor type.

S15 Impeller
For high-speed type

This model rotates at high speed to generate strong shearing forces. The serration at the rear of the blade generates turbulent flows to break lumps of powder and fluid and increases area of contact between powder and liquid. That makes dispersion and dissolution extremely easy.

JPN PAT.No.748894

JPN PAT.No.3919262

HSR100
※Option

It is an impeller for dissolving powders. This impeller efficiently mixes powders such as difficult to suck or easy to break into dams or hard to melt.

Standard specification

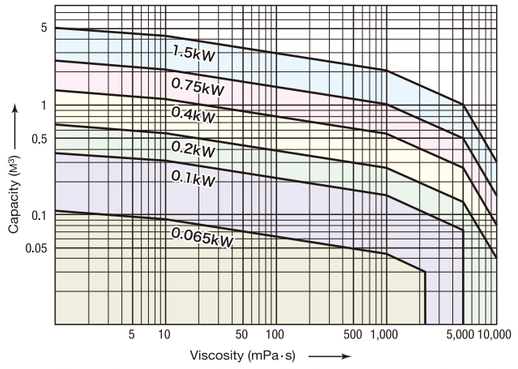
Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A710-0.065A	1	0.065	4	Single-phase 100	50	1450	90	2	600
					60	1750	80		
A710-0.1A		0.1	4	Single-phase 100	50	1450	100	2	800
					60	1750	90		
A710-0.1B		0.1	4	Three-phase 200	50	1450	100	2	800
					60	1750	90		
A710-0.2A	2	0.2	4	Single-phase 100	50	1450	120	2	1000
					60	1750	110		
A710-0.2B		0.2	4	Three-phase 200	50	1450	120	2	1000
					60	1750	110		
A710-0.4B	3	0.4	4	Three-phase 200	50	1450	135	2	1250
					60	1750	120		
A715-0.4B	4	0.4	6	Three-phase 200	50	950	155	2	1500
					60	1150	140		
A710-0.75B		0.75	4	Three-phase 200	50	1450	155	2	1500
					60	1750	140		
A715-0.75B		0.75	6	Three-phase 200	50	950	175	2	1750
					60	1150	160		
A710-1.5B		1.5	4	Three-phase 200	50	1450	175	2	1750
					60	1750	160		

*The standard materials for the shaft are SUS304 or SUS316.

*The standard material for S15 Impeller is SUS316.
*This model is the successor to A510 model.

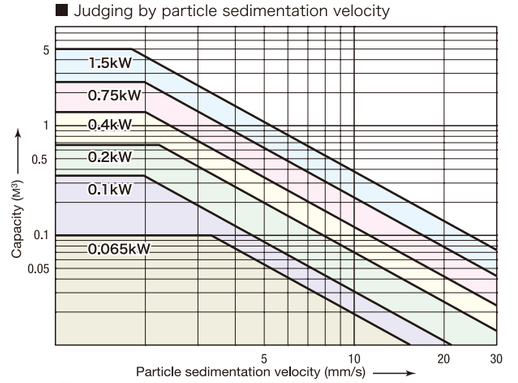
Charts to select the mixing capacity (For High-speed type)

■ Judging by liquid viscosity



* Please refer to us when the viscosity is 1000 mPa・s or more, or when the specific gravity is 1.2 or more.

■ Judging by particle sedimentation velocity



* This chart shows the case where the specific gravity is from 2 to 3 and the viscosity is 50 mPa・s.
* Please refer to us when the impeller diameter is 25% of the tank diameter or smaller.

Options

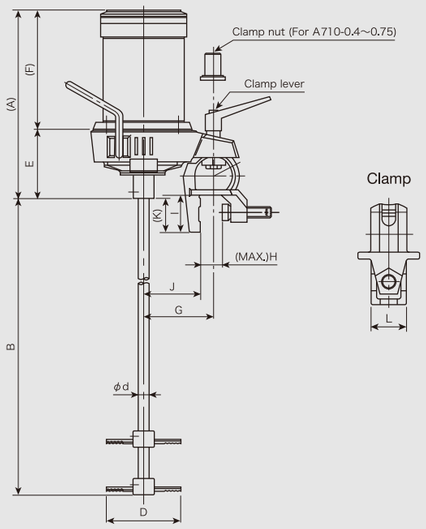
Electric component	Inverter, Control panel, etc.
Impeller	Three bladed propeller, Paddle, Turbine, etc.
Material	Low carbon material, Hastelloy, Titanium, etc.
Lining	Rubber lining, PVC, FRP, etc.
Sanitary	Wetted part : Buffing, Electrochemical polishing, Welding, etc.
	Body : Stainless steel cover for motor, speed changer and reducer, Stainless coating, Special Plating, etc.
Other options	Safety cover, etc.

Applicable stands and tanks

Mixer		Applicable stand	Applicable tank
Model	Power(kW)		
A710	0.065	ZS-1	ZT-20, ZT-25, ZT-35, ZT-45, ZT-65, ZT-80, ZT-100, ZT-150
		ZU-1	ZT-65, ZT-80, ZT-100, ZT-150
	0.1	ZS-2	ZT-65, ZT-80, ZT-100, ZT-150, ZT-200
		ZU-1	
	0.2	ZS-3	ZT-150, ZT-200 300 – 800ℓ
		ZU-1	ZT-200
		ZS-4	300 – 800ℓ
	0.4	ZS-4	300 – 2000ℓ
		ZS-5	300 – 2000ℓ
	0.75	ZS-5	300 – 3000ℓ

* ZU-1 (Universal mount) is an option.
* Tanks with "ℓ" notation are special items.
* Please ask us about the applicable stand and tank for 1.5kW mixer.

Dimensional drawing



Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)														Estimated weight (kg)
			(A)	B	B-MAX (Option)	φd	D (50Hz)	D (60Hz)	E	(F)	G	H (MAX)	I	J	(K)	L	
A710	1	0.065 A	(269)	560	960	13	90	80	87	(182)	85	28	48	70	(48)	40	10
		0.1 A	(269)	760	960	13	100	90	87	(182)	85	28	48	70	(48)	40	10
		0.1 B	(260)	760	960	13	100	90	87	(173)	85	28	48	70	(48)	40	10
	2	0.2 A	(307)	950	1200	16	120	110	102	(205)	105	32	55	85	(56)	45	14
		0.2 B	(277)	950	1200	16	120	110	102	(175)	105	32	55	85	(56)	45	14
	3	0.4 B	(381)	1190	1440	20	135	120	151	(230)	120	39	65	100	(37)	52	18
	4	0.75 B	(445)	1425	1675	25	155	140	185	(260)	140	48	80	120	(38)	70	32
		1.5 B	(487)	1675	1925	25	175	160	185	(302)	140	48	80	120	(38)	70	41

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.

A730

Variable speed type

Number of revolution 50/60Hz : 0 – 420min $^{-1}$

A730 can respond to the changes of liquid level and viscosity preventing excessive and insufficient mixing. Adjusting to slow rotating speed, the mixer can be operated safely during liquid draining, etc.

Model Coding

A73 | 0 | – | 0.2 | A | S

Type of motor

A : Single-phase 100V totally-enclosed-fan-cooled motor for indoor use
B : Three-phase 200V totally-enclosed-fan-cooled motor for indoor use
C : Three-phase 200V totally-enclosed-fan-cooled motor for outdoor use
D : Three-phase 200V increased-safety explosion-proof motor for outdoor use
E : Three-phase 200V flame-proof motor for outdoor use
F : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for indoor use
G : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for outdoor use
H : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for outdoor use
J : (Voltage other than 100V and 200V) flame-proof motor for outdoor use
L : Three-phase 200V increased-safety explosion-proof motor for indoor use
M : Three-phase 200V flame-proof motor for indoor use
N : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for indoor use
P : (Voltage other than 100V and 200V) flame-proof motor for indoor use

Options S :PSE

Power of motor From 0.06kW to 0.75 kW

Number of poles 0 : 4P

SATAKE PORTABLE MIXER Variable speed type

P36 Impeller
JPN PAT.No.827551

Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A730-0.06A	1	0.06	4	Single-phase 100	50/60	0 – 420	150	1	600
A730-0.06B		0.06	4	Three-phase 200	50/60	0 – 420	150	1	600
A730-0.09A		0.09	4	Single-phase 100	50/60	0 – 420	180	1	600
A730-0.09B		0.09	4	Three-phase 200	50/60	0 – 420	180	1	600
A730-0.2A	3	0.2	4	Single-phase 100	50/60	0 – 420	220	1	1250
A730-0.2B		0.2	4	Three-phase 200	50/60	0 – 420	220	1	1250
A730-0.4B		0.4	4	Three-phase 200	50/60	0 – 420	270	1	1250
A730-0.75B	4C	0.75	4	Three-phase 200	50/60	0 – 420	310	1	1500

*The standard materials for the shaft and the impeller are SUS304 or SUS316.
*Condenser motor is used as the single-phase 100V motor for 0.06kW and 0.09kW.
*This model is the successor to A520V model.

Applicable stands and tanks

Mixer		Applicable stand	Applicable tank
Model	Power (kW)		
A730	0.06	ZS-3	ZT-65, ZT-80, ZT-100, ZT-150
		ZU-1	ZT-150
	0.09	ZS-3	ZT-65, ZT-80, ZT-100, ZT-150
		ZU-1	ZT-150
	0.2	ZS-4	ZT-200 300 – 2000 ℓ
	0.4	ZS-4	300 – 2000 ℓ
		ZS-5	

* ZU-1 (Universal mount) is an option.
* Tanks with " ℓ " notation are special items.
* Please ask us about the applicable stand and tank for 0.75kW mixer.

Motion controller (Option)

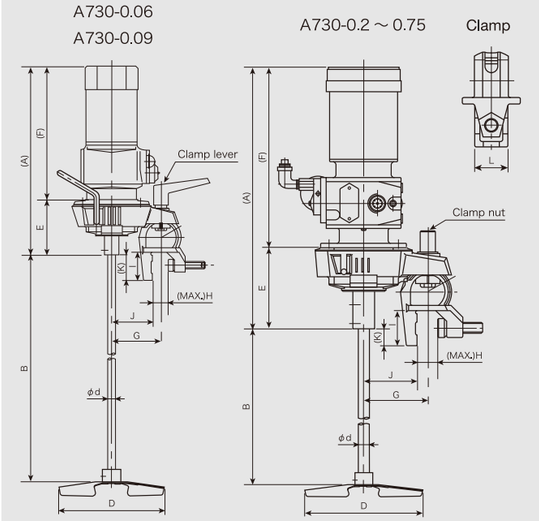
In addition to the normal speed adjusting by turning handle, remote operation by Automatic control panel is available.

Auto rater LA basic control panel, etc.

Options

Electric component	Inverter, Control panel, etc.
Impeller	Three bladed propeller, Paddle, Turbine, etc.
Material	Low carbon material, Hastelloy, Titanium, etc.
Lining	Rubber lining, PVC, FRP, etc.
Sanitary	Wetted part : Buffing, Electrochemical polishing, Welding, etc.
	Body : Stainless steel cover for motor, speed changer and reducer, Stainless coating, Special plating, etc.
Other options	One touch coupling, Safety cover, etc.

Dimensional drawing



Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)													Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	D	E	(F)	G	H (MAX)	I	J	(K)	L	
A730	1	0.06 A	(411)	560	960	13	150	95	(316)	85	28	48	70	(48)	40	15
		0.06 B	(309)	560	960	13	150	95	(214)	85	28	48	70	(48)	40	15
		0.09 A	(411)	560	960	13	180	95	(316)	85	28	48	70	(44)	40	15
		0.09 B	(402)	560	960	13	180	95	(307)	85	28	48	70	(48)	40	14
	3	0.2 A	(552)	1190	1440	20	220	151	(401)	120	39	65	100	(37)	52	32
		0.2 B	(533)	1190	1440	20	220	151	(382)	120	39	65	100	(37)	52	32
		0.4 B	(553)	1190	1440	20	270	151	(402)	120	39	65	100	(37)	52	34
	4C	0.75 B	(647)	1425	1675	25	310	185	(462)	140	58	90	115	(48)	120	54

*Dimension A, F and weight in the table above vary depending on the brand of motor. * The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
*The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer' s standard color.

A740

Low-speed type

Number of revolution | 50Hz : 150min^{-1} | 60Hz : 180min^{-1}

A740 can mix viscous liquids strongly and slowly, so it is suitable for mixing in which foaming must be prevented.

Model Coding

A74 | 0 | – | 0.2 | A | I

Options I : Inverter S : PSE

Type of motor

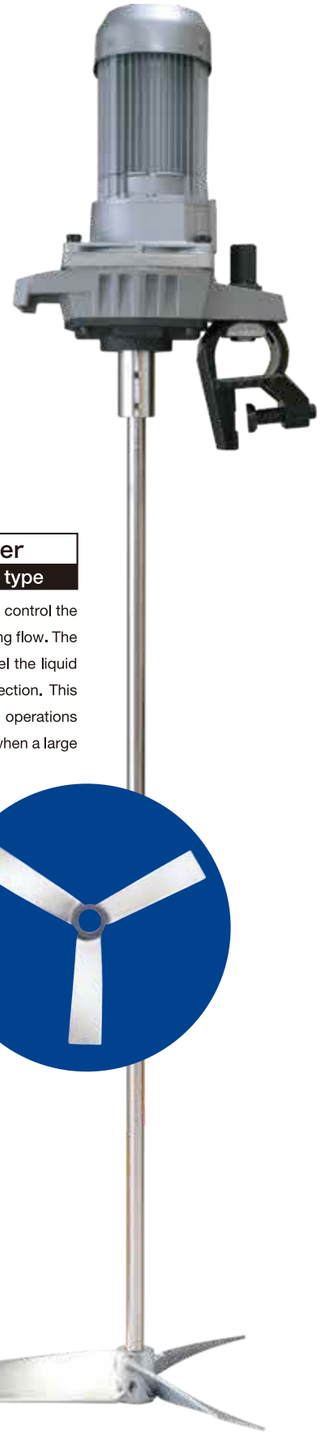
A : Single-phase 100V totally-enclosed-fan-cooled motor for indoor use
B : Three-phase 200V totally-enclosed-fan-cooled motor for indoor use
C : Three-phase 200V totally-enclosed-fan-cooled motor for outdoor use
D : Three-phase 200V increased-safety explosion-proof motor for outdoor use
E : Three-phase 200V flame-proof motor for outdoor use
F : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for indoor use
G : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for outdoor use
H : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for outdoor use
J : (Voltage other than 100V and 200V) flame-proof motor for outdoor use
K : Air motor
L : Three-phase 200V increased-safety explosion-proof motor for indoor use
M : Three-phase 200V flame-proof motor for indoor use
N : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for indoor use
P : (Voltage other than 100V and 200V) flame-proof motor for indoor use

Power of motor From 0.1kW to 0.75 kW

Number of poles 0 : 4P

SATAKE PORTABLE MIXER Low-speed type

*Please ask us about mixers with motor which has non-standard revolution number or which is explosion-proof type.
*Please ask us about the specification of the air-motor type.



L18 Impeller
For Low-speed type

The blades are twisted to control the direction of the discharging flow. The twisted blades also propel the liquid forcefully in the axial direction. This impeller is effective in operations with a low liquid level or when a large d/D value is required.

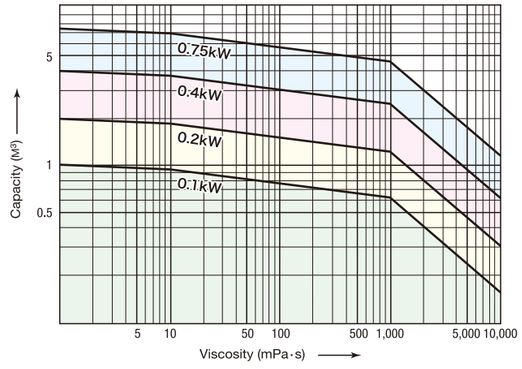
Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A740-0.1A	2A	0.1	4	Single-phase 100	50	150	300	1	1000
					60	180			
A740-0.1B		0.1	4	Three-phase 200	50	150	300	1	1000
					60	180			
A740-0.2A		0.2	4	Single-phase 100	50	150	350	1	1000
					60	180			
A740-0.2B		0.2	4	Three-phase 200	50	150	350	1	1000
					60	180			
A740-0.4B	4B	0.4	4	Three-phase 200	50	150	400	1	1250
					60	180			
A740-0.75B	4C	0.75	4	Three-phase 200	50	150	450	1	1750
					60	180			

*The standard materials for the shaft and the impeller are SUS304 or SUS316.
*This model is the successor to A540 model.

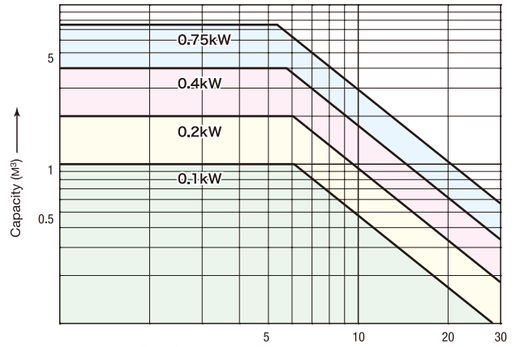
Charts to select the mixing capacity (For Low-speed type)

■ Judging by liquid viscosity



* Please refer to us when the viscosity is 5000 mPa・s or more, or when the specific gravity is 1.2 or more.

■ Judging by particle sedimentation velocity



* This chart shows the case where the specific gravity is from 2 to 3 and the viscosity is 50 mPa・s.
* Please refer to us when the impeller diameter is 25% of the tank diameter or smaller.

Options

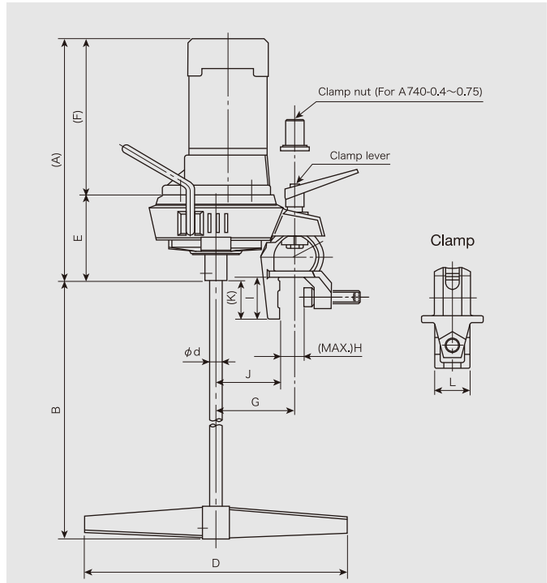
Electric component	Inverter, Control panel, etc.
Impeller	Three bladed propeller, Paddle, Turbine, etc.
Material	Low carbon material, Hastelloy, Titanium, etc.
Lining	Rubber lining, PVC, FRP, etc.
Sanitary	Wetted part : Buffing, Electrochemical polishing, Welding, etc.
	Body : Stainless steel cover for motor, speed changer and reducer, Stainless coating, Special plating, etc.
Other options	One touch coupling, Safety cover, etc.

Applicable stands and tanks

Mixer		Applicable stand	Applicable tank
Model	Power(kW)		
A740	0.1	ZS-3	ZT-150, ZT-200 300 – 800ℓ
		ZU-1	ZT-150, ZT-200
	0.2	ZS-3	ZT-150, ZT-200 300 – 800ℓ
		ZS-4	300 – 2000ℓ
	0.4	ZS-4	300 – 3000ℓ
		ZS-5	

* ZU-1 (Universal mount) is an option.
* Tanks with "ℓ" notation are special items.
* Please ask us about the applicable stand and tank for 0.75kW mixer.

Dimensional drawing



Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)													Estimated weight (kg)
			(A)	B	B-MAX (Option)	φd	D	E	(F)	G	H (MAX)	I	J	(K)	L	
A740	2A	0.1 A	(359)	950	1200	16	300	115	(244)	105	32	55	85	(56)	45	16
		0.1 B	(298)	950	1200	16	300	115	(183)	105	32	55	85	(56)	45	13
		0.2 A	(379)	950	1200	16	350	115	(264)	105	32	55	85	(56)	45	18
		0.2 B	(323)	950	1200	16	350	115	(208)	105	32	55	85	(56)	45	15
	4B	0.4 B	(440)	1190	1440	20	400	200	(240)	140	48	80	120	(38)	70	24
	4C	0.75 B	(489)	1675	1925	25	450	202	(287)	140	58	90	115	(48)	120	36

* Dimension A, F and weight in the table above vary depending on the brand of motor. *The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.

SATAKE PORTABLE MIXER

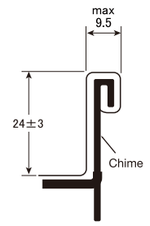
A750

High-speed type

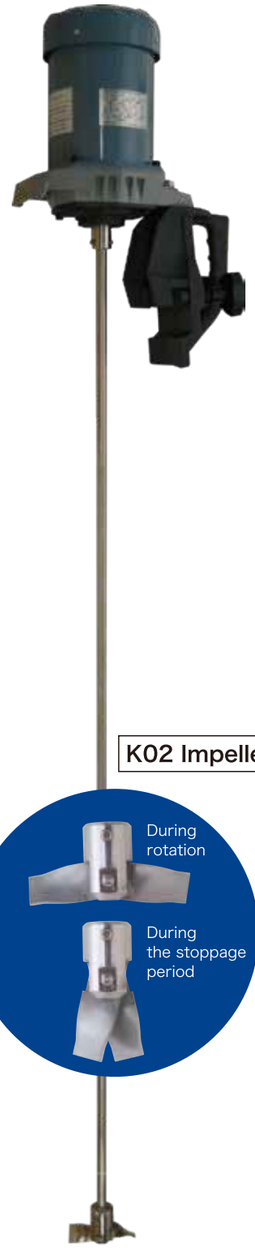
Number of revolution 50Hz : 1450min^{-1} 60Hz : 1750min^{-1}

A750 can be mounted on the chime of a steel drum Class1 (200L) as per JIS Z1601. The impeller spreads its blades as it spins.

* Do not operate the mixer without fixing on a drum.
* The air-motor type is also available.

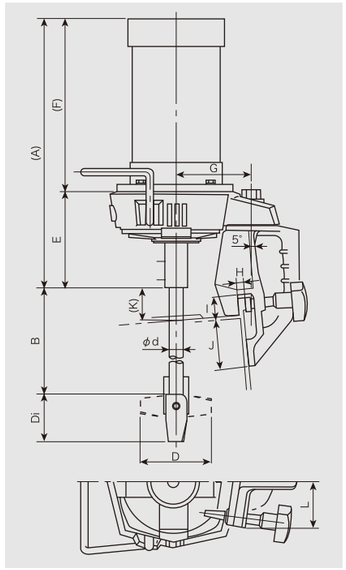


* If the shape of the chime is different from the drawing above, the mixer may not be fixed to the drum. Please use A610 with K02 Impeller and a mixer stand (Z series.)



K02 Impeller

Dimensional drawing



Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
A750-0.1AS	1	0.1	4	Single-phase 100	50	1450	80	1	800
					60	1750	70		
A750-0.1BS		0.1	4	Three-phase 200	50	1450	80	1	800
					60	1750	70		
A750-0.2AS	2	0.2	4	Single-phase 100	50	1450	90	1	850
					60	1750	80		
A750-0.2BS		0.2	4	Three-phase 200	50	1450	90	1	850
					60	1750	80		
A750-0.4BS		0.4	4	Three-phase 200	50	1450	105	1	850
					60	1750	90		

*The standard material for the shaft and the impeller is SUS304.

Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)														Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	50Hz		60Hz		E	(F)	G	H (MAX)	I	J	(K)	L	
							D	Di	D	Di									
A750	1	0.1A	(269)	760	960	13	80	49	70	44	87	(182)	85	10	22	73	(79)	115	10
		0.1B	(260)	760	960	13	80	49	70	44	87	(173)	85	10	22	73	(79)	115	10
	2	0.2A	(307)	800	1200	16	90	58	80	53	102	(205)	105	10	22	73	(76)	115	14
		0.2B	(277)	800	1200	16	90	58	80	53	102	(175)	105	10	22	73	(76)	115	14
		0.4B	(357)	800	1200	16	105	66	90	58	127	(230)	105	10	22	73	(51)	115	15

*Dimension A, F and weight in the table above vary depending on the brand of motor.
*The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
*The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.
*This model is the successor to AD510 model.

All models are compatible with PSE (up to 0.4kW)

A PSE compatible mixer has a motor with a thermal protector, so it is protected by burnout due to overload of the motor. In addition, the mixer comes with a power switch and a plug-in cord as standard accessories, so you can easily start using the mixer by connecting the cord to a grounded outlet.

The Power switch and the Overload protective device

* The shape of the power switch varies depending on models.

Single-phase plug-in cord

Flat plug with 2P earth terminals (125V 12A)
Cord length 3m

Three-phase plug-in cord

15A rubber cap with 3P earth terminals (250V 15A)
Cord length 3m

From April 1, 2006, manufacturers are obliged to sell PSE compatible type mixers when their customers require non-explosion-proof type mixer whose motor power is less than 0.4kW.

If you install the mixer in a plant as a part of one device, we sell it separately as before after confirming that you install safety devices and switches to the control panel.

PSE compatible type mixers are available only in Japan.

Options

One touch coupling

You can easily remove the mixing shaft from the drive shaft. This device is useful when you clean the parts in food, medical, or chemicals factories. This device helps you to change another tank easily.

JPN PAT.5637587

Inverter and Control panel

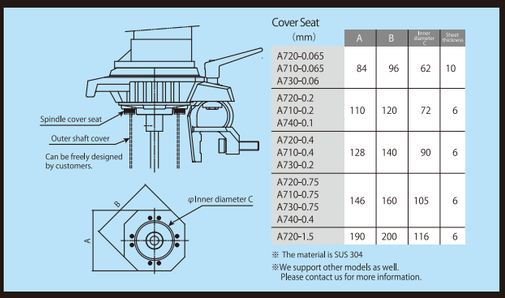
It is possible to connect a three-phase 200V Portable Mixer with a power source through an inverter to control the speed electrically without steps. An inverter for single-phase 100V power is also available.

Safety cover

This cover avoids accidents due to the rotating shaft.

Fully open condition　Intermediate condition　Fully closed condition

Attachment for outer shaft cover (seat)



Cover Seat (mm)

	A	B	Inner diameter C	Sheet thickness
A720-0.065 A710-0.065 A730-0.06	84	96	62	10
A720-0.2 A710-0.2 A740-0.1	110	120	72	6
A720-0.4 A710-0.4 A730-0.2	128	140	90	6
A720-0.75 A710-0.75 A730-0.75 A740-0.4	146	160	105	6
A720-1.5	190	200	116	6

※ The material is SUS 304
※We support other models as well. Please contact us for more information.

Besides this, "alumite treatment of the main body" which improves corrosion resistance of stirrer and "change to SUS 304 clamp (part of 0.1 kW · 0.2 kW model)" etc. are also possible.

MOUNT UNITS
Z Series

These are special stands for our Portable Mixers. You can install the mixer even if it is difficult to set it directly on the tank due to the shape, strength and structure.

* Every stand of this series is “ready-to-assemble” type.
  You can assemble it easily with a hex wrench.
* You can get these stands separately but we sell in sets with a mixer, a tank and a stand.

Example of use

Option

ZU-1
Universal mount

This is a one-size-fits-all mount for our Portable Mixers. You can mount this ZU-1 on various size of tank by adjusting the bolts.

JPN PAT.No.1819674

ZS-1
Hand-driven stand

This stand can be assembled easily and smoothly moved up and down. Appropriate for small volume mixing.

JPN PAT.1838243
JPN PAT.712922

ZS-2 ZS-3
Spring balancer stand

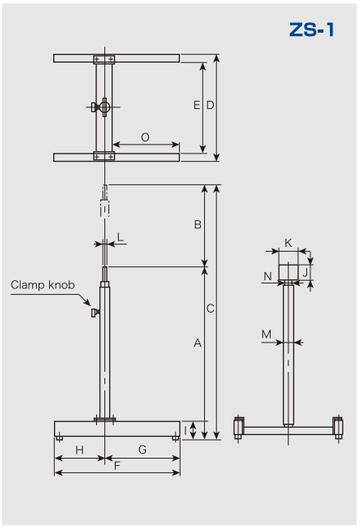
Using the spring balancer, this stand allows it lift a mixer with a force of 10 to 20% of the mixer weight. It doesn’t require lubricating.

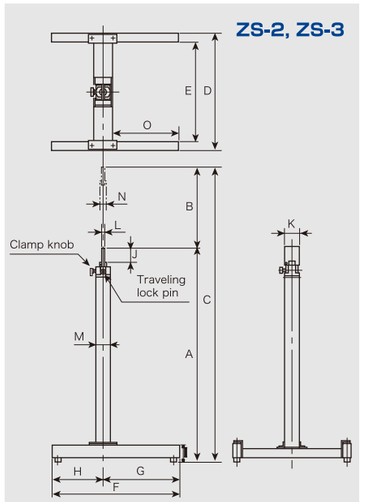
JPN PAT.No.1979229
JPN PAT.No.718232

ZS-4 ZS-5
Hydraulically-operated stand

Foot-operated hydraulic pump makes it easy to lift a mixer. It comes with casters.

Dimensional drawing (Hand-driven type)



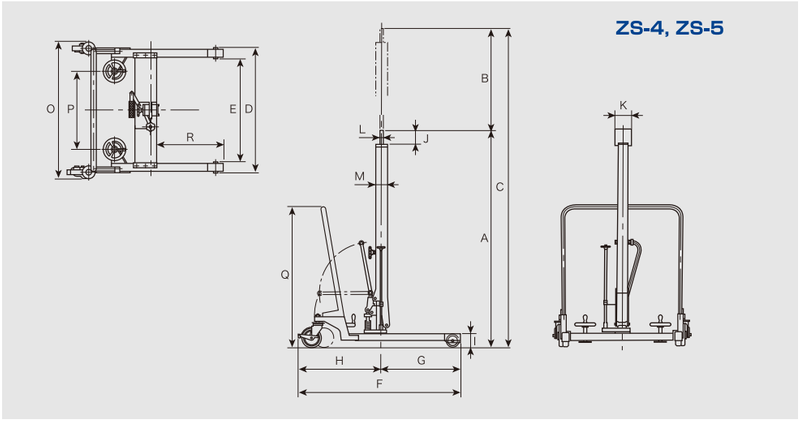


Dimension (Hand-driven type)

Model	Dimension (mm)															Weight	Lift Weight
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	(kg)	(kg)
ZS-1	700	330	1030	430	370	500	300	200	74	60	70	9	ϕ42	ϕ34	270	8.5	8.3
ZS-2	930	380	1310	515	425	560	340	220	97	80	80	12	□80	ϕ34	290	20	12.5
ZS-3	1200	450	1650	650	560	700	420	280	97	80	80	12	□80	ϕ34	370	26	13.5

* Dimension B shows the up-and-down stroke width.
* The standard painting color is N1.0 of Munsell color system.

Dimensional drawing (Hydraulically-operated type)



Dimension (Hydraulically-operated type)

Model	Dimension (mm)																	Weight	Lift Weight
	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q	R	(kg)	(kg)
ZS-4	1400	650	2050	776	660	1090	460	580	90	110	125	19	□70	895	500	900	475	60	33
ZS-5	1650	700	2350	961	845	1365	645	670	90	130	170	25	□80	1080	685	900	655	74	40

* Dimension B shows the up-and-down stroke width.
* Front casters: ϕ80*38 two urethane wheels.
* The standard painting color is N1.0 of Munsell color system.
* Rear casters: ϕ125*38 two swivel rubber wheels (One side with brake)

Option

Stand made of SUS304 is also available.

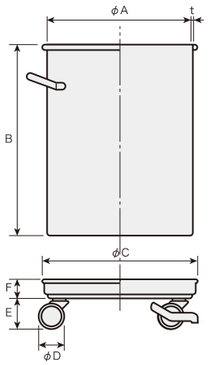
Applicable mixer

Applicable stand	Applicable mixer		Applicable tank
	Model	Power (kW)	
ZS-1	A720	0.065	ZT-20, ZT-25, ZT-35, ZT-45, ZT-65, ZT-80, ZT-100, ZT-150
	A710	0.065	
ZS-2	A720	0.1	ZT-65, ZT-80, ZT-100, ZT-150, ZT-200
	A710	0.1	
ZS-3	A730	0.06	ZT-65, ZT-80, ZT-100, ZT-150
	A730	0.09	
	A720	0.2	ZT-150, ZT-200 300 - 800ℓ
	A710	0.2	
	A730	0.06AS	
	A730	0.09AS	
	A740	0.1	
	A740	0.2	
ZS-4	A710	0.2	300 - 800ℓ
	A720	0.2	300 - 2000ℓ
	A720	0.4	
	A710	0.4	
	A730	0.2	ZT-200, 300 - 2000ℓ
	A730	0.4	300 - 2000ℓ
	A740	0.2	
	A740	0.4	
ZS-5	A710	0.4	300 - 2000ℓ
	A720	0.4	300 - 3000ℓ
	A720	0.75	
	A710	0.75	
	A730	0.4	
	A740	0.4	
	A740	0.75	
ZU-1 (Universal mount)	A720	0.065	ZT-65, ZT-80, ZT-100, ZT-150
	A720	0.1	ZT-65, ZT-80, ZT-100, ZT-150, ZT-200
	A720	0.2	ZT-200
	A710	0.065	ZT-65, ZT-80, ZT-100, ZT-150
	A710	0.1	ZT-65, ZT-80, ZT-100, ZT-150, ZT-200
	A710	0.2	ZT-200
	A730	0.06	ZT-150
	A730	0.09	
	A740	0.1	ZT-150, ZT-200

* Tanks shown in the table above with their sizes (ℓ) are optional tanks. (Self-standing type)
* ZU-1(Universal mount) is an option.
* Mixers other than the standard ones can’t be mounted on ZS-2 and ZS-3.

MIXER TANKS
ZT Series

9 different sizes of buffed tank from 20 liters to 200 liters. Casters for the tank are also available. The standard material is SUS304.



Standard specification

Model	Dimension	Thickness	Maximum capacity
	A×B (mm)	t (mm)	(ℓ)
ZT-20	300 × 300	0.8	20
ZT-25	330 × 330	0.8	25
ZT-35	360 × 360	0.9	35
ZT-45	390 × 390	0.9	45
ZT-65	430 × 450	1.0	65
ZT-80	470 × 470	1.2	80
ZT-100	470 × 600	1.2	100
ZT-150	565 × 600	1.2	150
ZT-200	565 × 900	1.2	200

Standard dimension of tank caster

Model	Applicable tank	Inside diameter	Wheel diameter	Height	Depth
		C (mm)	D (mm)	E (mm)	F (mm)
ZC-20	ZT-20	305	50	65	40
ZC-25	ZT-25	335	50	65	40
ZC-35	ZT-35	365	63	82	40
ZC-45	ZT-45	395	63	82	40
ZC-65	ZT-65	435	75	101	40
ZC-80	ZT-80	475	75	101	40
ZC-100	ZT-100				
ZC-150	ZT-150	575	100	119	50
ZC-200	ZT-200				

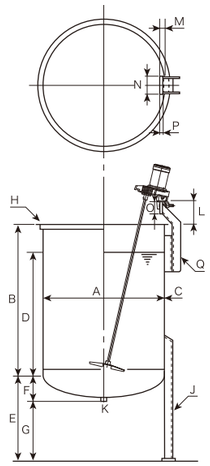
* Casters for a drain tank are not standardized.
* Casters are swivel type and have stoppers.
* We can manufacture self-standing tanks (100~5000L) with mixer mount other than the standard tanks.
* We can attach valves and nipples to drain fluid from the tank bottom. For example, ball valves whose sizes are 1/4B, 3/8B, 1/2B, 1B, 11/2B (made of SUS316) can be attached (same or different diameter)

Applicable mixers and stands

Tank model	Applicable stand	Applicable mixer	
		Model	Power (kW)
ZT-20 ZT-25 ZT-35 ZT-45	ZS-1	A720	0.065
		A710	0.065
ZT-65 ZT-80 ZT-100	ZS-1	A720	0.065
		A710	0.065
	ZS-2	A720	0.1
		A710	0.1
	ZS-3	A730	0.06・0.09
	ZU-1 (Universal Mount)	A720	0.065・0.1
		A710	0.065・0.1
ZT-150	ZS-1	A720	0.065
		A710	0.065
	ZS-2	A720	0.1
		A710	0.1
	ZS-3	A720	0.2
		A710	0.2
		A730	0.06・0.09
		A740	0.1・0.2
	ZU-1 (Universal Mount)	A720	0.065・0.1
		A710	0.065・0.1
		A730	0.06・0.09
		A740	0.1
ZT-200	ZS-2	A720	0.1
		A710	0.1
	ZS-3	A720	0.2
		A710	0.2
		A740	0.1・0.2
	ZS-4	A730	0.2
	ZU-1 (Universal Mount)	A720	0.1・0.2
		A710	0.1・0.2
		A740	0.1
300ℓ I 800ℓ	ZS-3	A720	0.2
		A710	0.2
		A740	0.1・0.2
	ZS-4	A720	0.2・0.4
		A710	0.2・0.4
		A730	0.2・0.4
		A740	0.2・0.4
	ZS-5	A720	0.4・0.75
		A710	0.4・0.75
		A730	0.4
		A740	0.4
1000ℓ I 2000ℓ	ZS-4	A720	0.2・0.4
		A710	0.4
		A730	0.2・0.4
		A740	0.2・0.4
	ZS-5	A720	0.4・0.75
		A710	0.4・0.75
		A730	0.4
		A740	0.4
2500ℓ I 3000ℓ	ZS-5	A720	0.4・0.75
		A710	0.75
		A730	0.4

* Tanks shown in the table above with their sizes (ℓ) are optional tanks (self-standing type)
* ZU-1 (Universal Mount) is an option.
* If you use ZU-1, the shaft length should be changed. Please inquire us.

Specification of optional tanks



Model	Available capacity	Maximum capacity	Tank dimension (mm)										Weight (kg)	
	ℓ	ℓ	A	B	C	D	E	F	G	H(SUS)	J(SS)	K	Tank	Lid*
ZTF-100	100	130	500	600	3	450	450	134	316	L25×25×3	3-L50×50×6	1/2 B Socket	43	3
ZTF-150	150	182	550	700	3	562	450	144	306	L30×30×3	3-L50×50×6	1/2 B Socket	51	4
ZTF-200	200	260	650	700	3	520	450	163	287	L30×30×3	3-L50×50×6	1/2 B Socket	60	5.5
ZTF-300	300	361	700	850	3	692	500	173	327	L40×40×3	4-L50×50×6	1/2 B Socket	77	6.5
ZTF-400	400	478	800	850	3	695	500	192	308	L40×40×3	4-L50×50×6	1/2 B Socket	88	8
ZTF-500	500	600	850	950	3	770	500	202	298	L40×40×3	4-L65×65×6	1/2 B Socket	106	9
ZTF-800	800	963	1000	1100	3	900	550	240	310	L40×40×5	4-[100×50×5	1B Socket	155	12
ZTF-1000	1000	1177	1100	1100	3	910	550	260	290	L40×40×5	4-[100×50×5	1B Socket	170	19
ZTF-1500	1500	1721	1250	1245	4	1065	600	290	310	L40×40×5	4-[100×50×5	1B Socket	260	24
ZTF-2000	2000	2275	1300	1550	4	1345	600	298	302	L50×50×6	4-[125×65×6	1B Socket	335	26
ZTF-2000S	2000	2273	1400	1300	4	1125	600	318	282	L50×50×6	4-[125×65×6	1B Socket	325	30
ZTF-2500	2500	3073	1500	1550	4	1230	700	370	330	L50×50×6	4-[125×65×6	1B JIS 10KF	400	34
ZTF-3000	3000	3603	1500	1850	4	1510	700	370	330	L50×50×6	4-[125×65×6	1B JIS 10KF	448	34
ZTF-3000S	3000	3521	1600	1550	4	1290	750	400	350	L50×50×6	4-[125×65×6	1B JIS 10KF	422	38
ZTF-3500	3500	4125	1600	1850	4	1540	700	400	300	L50×50×6	4-[150×75×9	1B JIS 10KF	524	38
ZTF-3500S	3500	4004	1700	1550	4	1330	800	430	370	L50×50×6	4-[150×75×9	1B JIS 10KF	514	43
ZTF-4000	4000	4685	1700	1850	4	1550	800	430	370	L65×65×6	4-[150×75×9	1 1/2 B JIS 10KF	575	45
ZTF-4000S	4000	4520	1800	1500	4	1345	800	450	350	L65×65×6	4-[150×75×9	1 1/2 B JIS 10KF	550	50
ZTF-4500	4500	5285	1800	1850	5	1542	800	450	350	L65×65×6	4-[200×90×8	1 1/2 B JIS 10KF	750	50
ZTF-5000	5000	5924	1900	1850	5	1530	900	500	400	L65×65×6	4-[200×90×8	2B JIS 10KF	800	56

* When the dimension A is 1000 or less, the lid thickness is 1.5t, and if more than that, the thickness is 2.0t.
* We have the jacketed type tank, too.

Dimension of mixer mount

Please refer to the table below when you arrange a mixer mount for yourself.

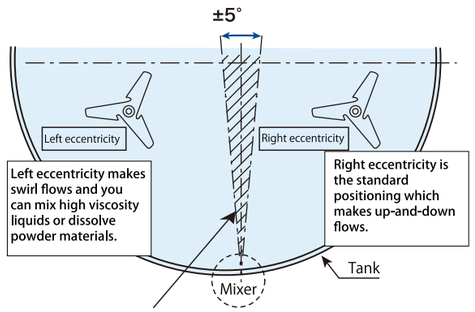
Model	Dimension of mixer mount (mm)						
	L	M	N	O	P	Q	Weight (kg)
A720-0.065	100	0	85	60	12	[75×40×5	5(7)
A720-0.1	100	35	85	60	12	[75×40×5	5(7)
A720-0.2	130	40	110	70	12	[100×50×5	7(9)
A720-0.4	150	45	160	90	16	[150×75×9	19(23)
A720-0.75, A725-0.4	230	45	220	120	22	[200×80×7.5	25(31)
A720-1.5, A725-0.75	230	45	220	120	22	[200×80×7.5	25(31)
A730-0.06	100	15	85	60	12	[75×40×5	5(7)
A730-0.09	100	30	85	60	12	[75×40×5	5(7)
A730-0.2	130	20	160	90	16	[150×75×9	19(23)
A730-0.4	180	45	220	120	22	[200×80×7.5	25(31)
A730-0.75	180	50	220	120	22	[200×80×7.5	25(31)

Model	Dimension of mixer mount (mm)						
	L	M	N	O	P	Q	Weight (kg)
A710-0.065	100	0	85	60	12	[75×40×5	5(7)
A710-0.1	100	0	85	60	12	[75×40×5	5(7)
A710-0.2	130	0	110	80	12	[100×50×5	7(9)
A710-0.4	150	0	160	110	16	[150×75×9	19(23)
A710-0.75, A715-0.4	180	0	220	120	22	[200×80×7.5	25(31)
A710-1.5, A715-0.75	180	0	220	120	22	[200×80×7.5	25(31)
A740-0.1	130	75	110	70	12	[100×50×5	8(10)
A740-0.2	130	100	110	70	12	[100×50×5	8(10)
A740-0.4	180	90	160	90	16	[150×75×9	23(27)
A740-0.75	180	120	220	120	22	[200×80×7.5	27(33)

* Figures shown in ( ) are the weights of the mixer mounts for the jacketed type tanks.

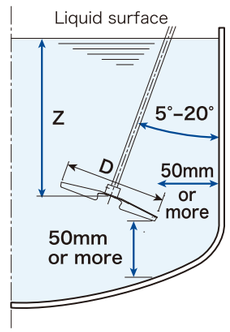
Mounting position

Eccentric mounting



Do not install the mixer in the range of 5 degrees plus or minus from the center of the tank. Provided that some baffles are installed in the tank, you can attain good mixing effect. Please refer to page19 for information about baffles.

Mounting angles



■ Z dimension
(From the impeller to the liquid surface)

A720, A760	1.5D or more
A710*	2.0D or more
A730	1.5D or more
A740	0.5D or more

* The dimension is from the upper impeller position in the case of A710.

Please refer to the CAD data and dimension tables on our website for the appropriate shaft length and impeller position. (Member registration is required. These data are only available in Japanese.)

http://www.satake.co.jp

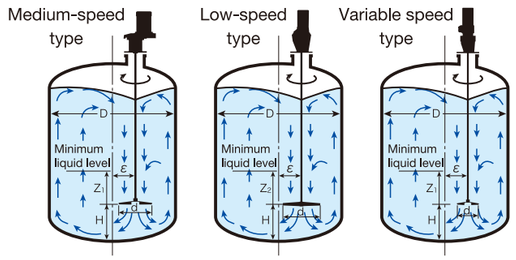
Smallest flange top mount type mixers

Mounting position for flange type mixers and their flow patterns

To decide the position of mixer, you have to find the best flow pattern to achieve your objective in consideration for the specific gravity and viscosity of the liquid, mixing ratio, mixing time, etc.

Eccentric mounting

Eccentric mounting without baffles provides good turbulence flows.



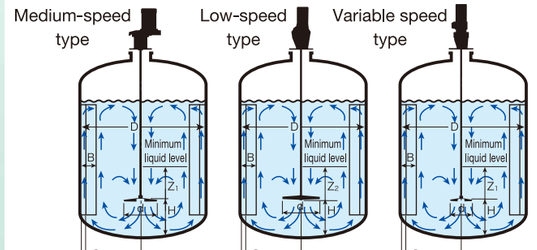
H = 0.5 – 1.5d
d > 0.35D
ε = 0.5d

d ≦ 0.35D
ε = 0.2 – 0.25D
Z₁ = 1.5d
Z₂ = 0.5d

* Do not mount a mixer at the center of the tank without installing baffles.
* Please maintain a sufficient liquid quantity (higher than the minimum liquid level (Z).)

Center mounting with baffles

Thanks to the baffles, swirl flows are reduced and vertical convective flows are generated. Preferred number of the baffles is from 2 to 4. Please install them by the internal wall of the tank dividing the circumference equally at right angle to the flow.



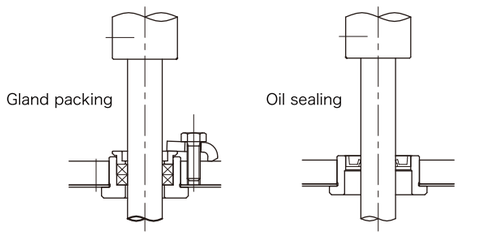
H = 0.5 – 1.5d
B = 0.08 – 0.1D
C = 0.25B

Z₁ = 1.5d
Z₂ = 0.5d

* Please maintain a sufficient liquid quantity (higher than the minimum liquid level (Z).)

Sealing

The standard sealing methods are oil sealing and gland packing.



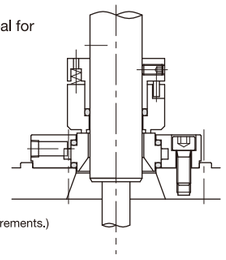
You can choose the dry mechanical seal for only AN-G type as an option.

■ Option

Specification of the dry mechanical seal and the tank

Designed pressure	0.19MPa(G)
Designed temperature*	100℃ (Cooling water is needed.)

* It allows SIP up to 130℃. (There are some requirements.)



* The structure can differ according to the mixer model.
* Gland packing and oil seal are not heat-resistant, pressure resistant, and completely closable one. If you require these functions, please choose the dry mechanical seal or our "Multi S Mixers".

Model Coding

AT 2 4 – G N R – 0.2 B I

Flange
R : Round flange
S : Square flange

Shaft sealing methods
N : Oil seal
P : Gland packing
M : Mechanical seal

Drive system
G : Single reduction gear
D : Directly connected to the reducer
V : Directly connected to the speed changer

Number of poles
4 : 4P 6 : 6P

Flame number
From no. 1 to 5

SATAKE MULTI A MIXER

Options I : Inverter S : PSE

Type of motor
A : Single-phase 100V totally-enclosed-fan-cooled motor for indoor use
B : Three-phase 200V totally-enclosed-fan-cooled motor for indoor use
C : Three-phase 200V totally-enclosed-fan-cooled motor for outdoor use
D : Three-phase 200V increased-safety explosion-proof motor for outdoor use
E : Three-phase 200V flame-proof motor for outdoor use
F : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for indoor use
G : (Voltage other than 100V and 200V) totally-enclosed-fan-cooled motor for outdoor use
H : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for outdoor use
J : (Voltage other than 100V and 200V) flame-proof motor for outdoor use
K : Air motor
L : Three-phase 200V increased-safety explosion-proof motor for indoor use
M : Three-phase 200V flame-proof motor for indoor use
N : (Voltage other than 100V and 200V) increased-safety explosion-proof motor for indoor use
P : (Voltage other than 100V and 200V) flame-proof motor for indoor use
Q : Single-phase 100V open, drip proof split-phase induction motor

Power of motor
Medium-speed type : From 0.065kW to 1.5 kW
Low-speed type : From 0.1kW to 0.75kW
Variable speed type : From 0.06kW to 0.75kW

* The material of the flange of G type is carbon steel with stainless steel plate. D and V type are made of SS400 and coated by epoxy resin or SUS.
* Please ask us about the specification of the Air-motor type.

AT□-G Series

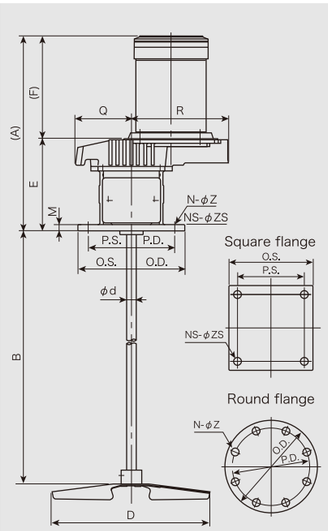
Medium-speed type

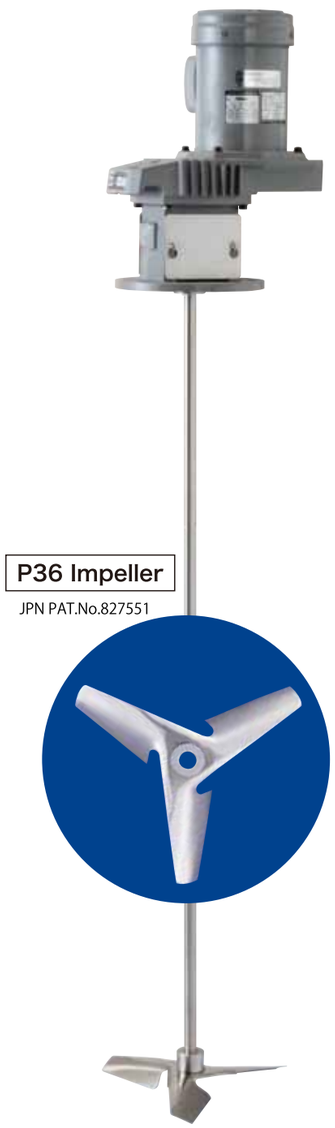
Number of revolution 50Hz : 300min⁻¹ 60Hz : 360min⁻¹

AT-G type is ideal for soluble liquids mixing, dilution, heat transfer, solid-liquid mixing, dispersion, antisedimentation and homogeneous mixing. Compact, light, but tough.

Please refer to A720 (page 4) about the mixing capacity.

Dimensional drawing





P36 Impeller
JPN PAT.No.827551

Standard specification

Model	Frame number	Motor Power (kW)	Motor Number of poles (P)	Motor Phase and voltage (V)	Impeller Frequency (Hz)	Impeller Revolution (min⁻¹)	Impeller Diameter (mm)	Impeller Stage	Shaft length (mm)
AT14-G□□-0.065A	1	0.065	4	Single-phase 100	50	300	150	1	689
					60	360			
AT14-G□□-0.1A		0.1	4	Single-phase 100	50	300	220	1	889
					60	360			
AT14-G□□-0.1B		0.1	4	Three-phase 200	50	300	220	1	889
					60	360			
AT24-G□□-0.2A	2	0.2	4	Single-phase 100	50	300	270	1	1109
					60	360			
AT24-G□□-0.2B		0.2	4	Three-phase 200	50	300	270	1	1109
					60	360			
AT34-G□□-0.4B	3	0.4	4	Three-phase 200	50	300	310	1	1399
					60	360			
AT46-G□□-0.4B	4	0.4	6	Three-phase 200	50	200	350	1	1626
					60	240			
AT44-G□□-0.75B		0.75	4	Three-phase 200	50	300	350	1	1626
					60	360			
AT56-G□□-0.75B	5	0.75	6	Three-phase 200	50	200	400	1	1856
					60	240			
AT54-G□□-1.5B		1.5	4	Three-phase 200	50	300	400	1	1856
					60	360			

* The standard materials for the shaft and the impeller are SUS304 or SUS316.

Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm) (A)	B	B-MAX (Option)	ϕd	D	E	(F)	M	NS-ϕZS	O.S.	P.S.	N-ϕZ	O.D.	P.D.	Q	R	Estimated weight (kg)
AT-G	1	0.065 A	(317)	600	1050	13	150	135	(182)	12	4-15	165	130	8-15	185	150	84	134	14
		0.1 A	(317)	800	1050	13	220	135	(182)	12	4-15	165	130	8-15	185	150	84	134	14
		0.1 B	(308)	800	1050	13	220	135	(173)	12	4-15	165	130	8-15	185	150	84	134	14
	2	0.2 A	(365)	1000	1250	16	270	160	(205)	12	4-15	165	130	8-15	185	150	96	165	19
		0.2 B	(335)	1000	1250	16	270	160	(175)	12	4-15	165	130	8-15	185	150	96	165	19
	3	0.4 B	(421)	1300	1500	20	310	191	(230)	12	4-19	190	155	8-19	210	175	112	183	25
	4	0.75 B	(500)	1500	1750	25	350	240	(260)	16	4-23	230	190	8-23	250	210	125	215	40
	5	1.5 B	(578)	1700	1850	30	400	276	(302)	16	4-23	250	210	8-23	280	240	147	245	60

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.

Variable speed type mixers powered by compressed air (Air-motor type) are also available. We offer stainless type air-motor and unlubricated type air-motor.

AT□-D series

Low-speed type

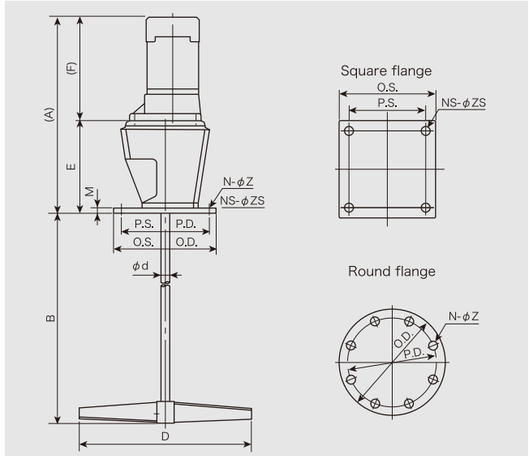
Number of revolution 50Hz : 150min^{-1} 60Hz : 180min^{-1}

AT-D type can mix viscous liquids strongly and slowly, so it is suitable for mixing in which foaming must be prevented.

* Please contact us if you require a mixer with a motor of non-standard rotation speed or explosion-proof type motor.
* Please ask us about the specification of the air-motor type.

Please refer to A740 (page14) about the mixing capacity.

Dimensional drawing



L18 Impeller

Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
AT34-D□□-0.1A	3	0.1	4	Single-phase 100	50	150	300	1	924
					60	180			
AT34-D□□-0.1B		0.1	4	Three-phase 200	50	150	300	1	924
					60	180			
AT34-D□□-0.2A		0.2	4	Single-phase 100	50	150	350	1	1124
					60	180			
AT34-D□□-0.2B		0.2	4	Three-phase 200	50	150	350	1	1124
					60	180			
AT44-D□□-0.4B	4A	0.4	4	Three-phase 200	50	150	400	1	1312
					60	180			
AT44-D□□-0.75B	4B	0.75	4	Three-phase 200	50	150	450	1	1527
					60	180			

* The standard materials for the shaft and the impeller are SUS304 or SUS316.

Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)														Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	D	E	(F)	M	NS-ϕZS	O.S.	P.S.	N-ϕZ	O.D.	P.D.	
AT-D	3	0.1 A	(451)	800	1100	16	300	207	(244)	9	4-19	190	155	8-19	210	1 5	21
		0.1 B	(390)	800	1100	16	300	207	(183)	9	4-19	190	155	8-19	210	175	18
		0.2 A	(471)	1000	1100	16	350	207	(264)	9	4-19	190	155	8-19	210	175	24
		0.2 B	(415)	1000	1100	16	350	207	(208)	9	4-19	190	155	8-19	210	175	20
	4A	0.4 B	(491)	1200	1400	20	400	251	(240)	12	4-23	230	190	8-23	250	210	30
	4B	0.75 B	(540)	1400	1600	25	450	253	(287)	12	4-23	230	190	8-23	250	210	39

* Dimension A, F and weight in the table above vary depending on the brand of motor. * The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.

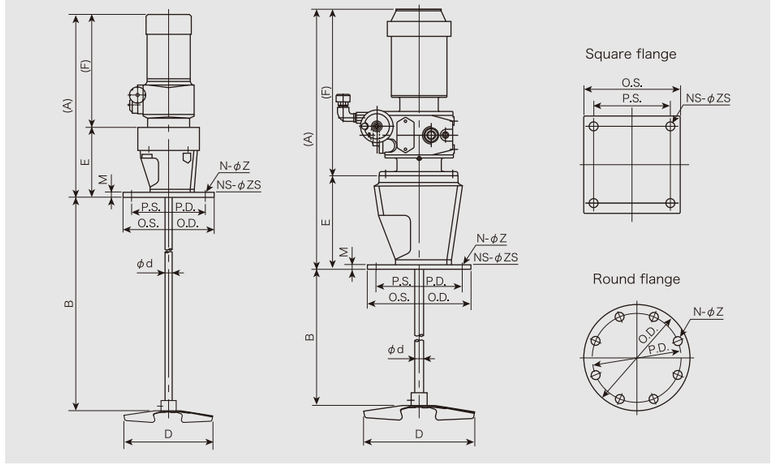
AT□-V series

Variable speed type

Number of revolution 50/60Hz : 0 – 420min^{-1}

AT-V type can respond to the changes of liquid level and viscosity preventing excessive and insufficient mixing. Adjusting to slow rotating speed, the mixer can be operated safety during liquid draining, etc..

Dimensional drawing



P36 Impeller

JPN PAT.No.827551

Standard specification

Model	Frame number	Motor			Impeller				Shaft length
		Power (kW)	Number of poles (P)	Phase and voltage (V)	Frequency (Hz)	Revolution (min^{-1})	Diameter (mm)	Stage	(mm)
AT14-V□□-0.06A	1	0.06	4	Single-phase 100	50/60	0 – 420	150	1	586
AT14-V□□-0.06B		0.06	4	Three-phase 200	50/60	0 – 420	150	1	586
AT14-V□□-0.09A		0.09	4	Single-phase 100	50/60	0 – 420	180	1	786
AT14-V□□-0.09B		0.09	4	Three-phase 200	50/60	0 – 420	180	1	786
AT34-V□□-0.2A	3	0.2	4	Single-phase 100	50/60	0 – 420	220	1	1003
AT34-V□□-0.2B		0.2	4	Three-phase 200	50/60	0 – 420	220	1	1003
AT34-V□□-0.4B		0.4	4	Three-phase 200	50/60	0 – 420	270	1	1203
AT44-V□□-0.75B	4	0.75	4	Three-phase 200	50/60	0 – 420	310	1	1425

* The standard materials for the shaft and the impeller are SUS304 or SUS316.

Standard dimensions

Model	Frame number	Motor (kW)	Dimension (mm)														Estimated weight (kg)
			(A)	B	B-MAX (Option)	ϕd	D	E	(F)	M	NS-ϕZS	O.S.	P.S.	N-ϕZ	O.D.	P.D.	
AT-V	1	0.06A	(457)	500	1000	13	150	141	(316)	9	4-15	165	130	8-15	185	150	18
		0.06B	(355)	500	1000	13	150	141	(214)	9	4-15	165	130	8-15	185	150	18
		0.09A	(457)	700	1000	13	180	141	(316)	9	4-15	165	130	8-15	185	150	18
		0.09B	(448)	700	1000	13	180	141	(307)	9	4-15	165	130	8-15	185	150	17
	3	0.2A	(595)	900	1300	20	220	194	(401)	9	4-19	190	155	8-19	210	175	37
		0.2B	(576)	900	1300	20	220	194	(382)	9	4-19	190	155	8-19	210	175	34
		0.4B	(547)	1100	1300	20	270	194	(402)	9	4-19	190	155	8-19	210	175	35
	4	0.75B	(565)	1300	1500	25	310	236	(462)	12	4-23	230	190	8-23	250	210	56

* Dimension A, F and weight in the table above vary depending on the brand of motor.
* The estimated weight shows the total amount including the motor, the mixing shaft, and the impeller.
* The standard painting color is N5.5 of Munsell color system. The painting color for motor depends on each manufacturer's standard color.