

## Lightweight and compact. Overturns all previous notions of mixers.

### Choosing a model

#### Standard models (with built-in 30 minute timer)

TCM-	1	2	3	4	5	6	7						
Output	45: 45W	Frequency	5: 50Hz 6: 60Hz	Voltage	1: 100V 2: 200V (single-phase) 3: 220V	Shaft length (below flange)	4: 400mm 5: 500mm (45W standard) 7: 700mm	Guide/Stator	P: PP (standard) F: PVDF	Impeller	S: PPS (standard) F: PVDF	Shaft	T: Titanium (standard) S: SUS316 H: Hastelloy C

#### Speed controller type

TCMS-	1	2	3	4	5	6	7						
Output	45: 45W	Frequency	5: 50Hz 6: 60Hz	Voltage	1: 100V	Shaft length (below flange)	4: 400mm 5: 500mm (45W standard) 7: 700mm	Guide/Stator	P: PP (standard) F: PVDF	Impeller	S: PPS (standard) F: PVDF	Shaft	T: Titanium (standard) S: SUS316 H: Hastelloy C

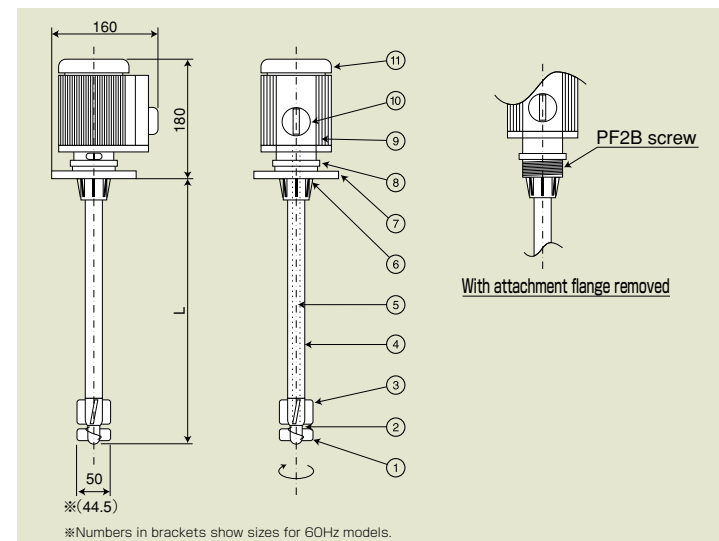
### Specifications

Model	Voltage	Output	Frequency	RPM	Rated current	Installation	Maximum mixing capacity	Weight
TCM-455	100/200V/220V	45W	50Hz	2600rpm	0.88A/0.45A/0.43A	JIS5K 50A flange	200 ℓ	2.9kg
TCM-456	100/200V/220V	45W	60Hz	3100rpm	0.88A/0.45A/0.43A	JIS5K 50A flange	200 ℓ	2.9kg
TCMS-455	100V	45W	50Hz	500~2600rpm	0.88A	JIS5K 50A flange	200 ℓ	2.9kg
TCMS-456	100V	45W	60Hz	600~3100rpm	0.88A	JIS5K 50A flange	200 ℓ	2.9kg

■ Mixing capacities shown are for mixing clear water.

■ For installation, the PF2B can be screwed on if the flange is removed.

■ Please inquire if you intend to use the mixer for purposes other than dissolving.



Number	Component name	Material standards, etc.
11	Top cover	AES
10	30-minute timer	With continuous ON switch
9	Motor cover	AES
8	Motor base	AES
7	Attachment flange	AES JIS5K50A equivalent
6	Shaft seal	NBR
5	Shaft	Titanium
4	Guide pipe	PP
3	Stator	PP
2	Bearing	PTFE
1	Impeller	PPS

■ Shown above are standard specifications.

# CHEMICAL MIXER



## Ultra-high efficiency mixer

### ■ Outstanding corrosion resistance

- Titanium shaft (standard)
- PPS resin impeller (standard)
- AES resin cover

Winner of the 1997 Good Design Special Award  
from the Minister of the Small and Medium  
Enterprise Agency

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Inquiries

# Super-high performance chemical mixer is loaded with functions and unique advantages, and supports a broad range of applications.

A winner of the 1997 Good Design Special Award from the Minister of the Small and Medium Enterprise Agency, this chemical mixer has an attractive appearance that you can set up outdoors. It also features a variety of unique characteristics. Its super-small high-efficiency impeller was developed using a screw design based on ship building technologies developed by the Shipbuilding Research Centre of Japan. We hope you will try out this feature-loaded chemical mixer.



## ■ Timer comes as a standard feature.

The mixer comes standard with a 30-minute timer so you can avoid needless mixing. This is optimum for mixing chemicals.



## ■ Model TCMS-45 comes with built-in speed controller.

This model comes with a built-in speed controller that is optimal for use in lab facilities and slow-speed mixing (no timer). Speed is variable between 500 and 2,700 rpm (50Hz).

## ■ No assembly required. Easy installation.

The impeller and shaft are pre-attached so you do not need to attach these on site.  
The JIS5K50A flange is pre-attached. Remove the flange and you can screw on PF2B.

## ■ Low noise design

No gear reduction is used so the mixer produces very little sound or vibration.

## ■ Excellent corrosion resistance

Standard versions of these mixers are made of material such as PP, titanium, PPS, and PTFE, making them the best choice for dissolving chemicals.

## ■ Compact and lightweight

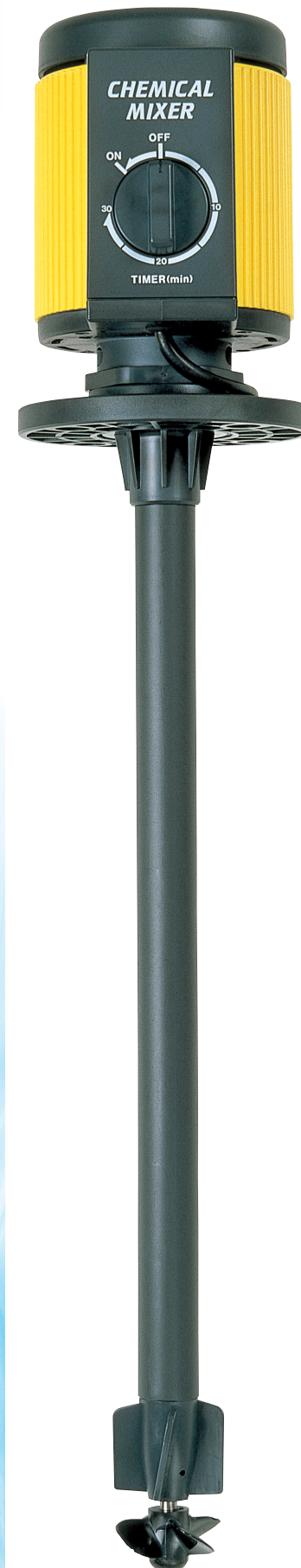
With a titanium shaft and PPS impeller, the mixer weighs only 2.8 to 3kg.

## ■ Low price

Only carefully selected material have been used to achieve excellent cost performance.

## ■ Heat resistance up to 80°C (standard model)

The standard guide and stator are made of PP providing heat resistance up to 80°C.  
Those made of PVDF have heat resistance up to 100°C.



## ■ Applications

- Lab applications
- Pharmaceutical
- Agricultural
- Water treatment
- Surface treatments
- Food production

## ■ Keeps corrosive gases out.

Double oil seals protect the motor side and body housing side to prevent the intrusion of corrosive gases.



## ■ Chemical mixer attached to a polyethylene tank

The mixer is lightweight so there is no need for tank reinforcement, making it economical.

## ■ Handy grip TCM-HG (optional)

The handy grip allows you to easily carry out dissolution work on site, thanks to the mixer's light weight.



## ■ Almost no cavitation

The super high-efficiency impeller and stator do not cause eddies on the surface of the liquid which ensures efficient mixing. (Only when used in the correct position).



## ■ High-efficiency impeller

The mixer's high-efficiency impeller was developed using a screw design based on ship building technologies developed by the Shipbuilding Research Centre of Japan.