

MIGHTY BLENDER PLUS

**Mighty Blender PLUS
motor unit only**

MT-PLUS

User's manual



OSAKA CHEMICAL CO.,LTD.

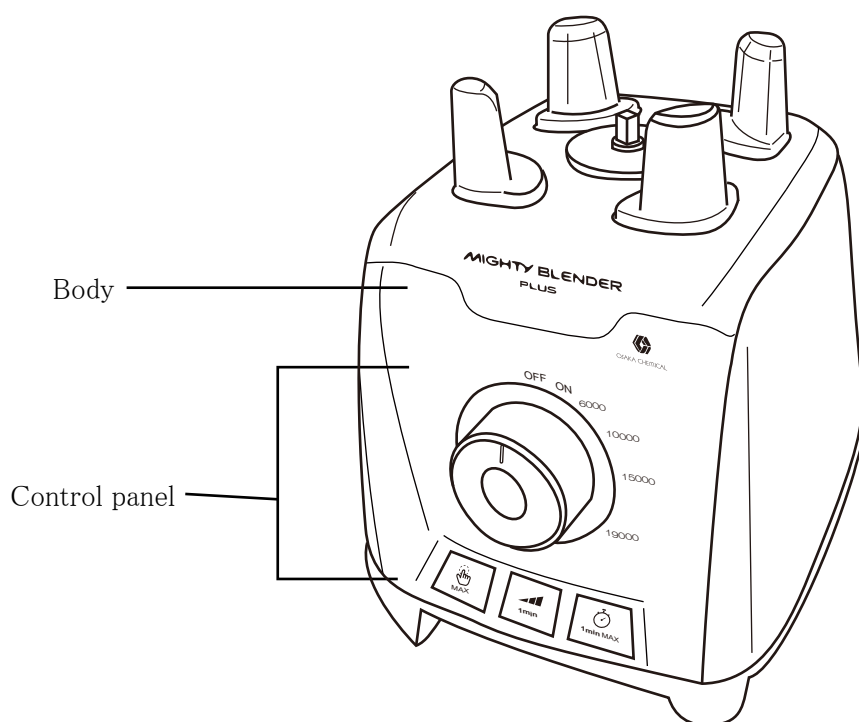
MIGHTY BLENDER PLUS

Thank you very much for purchasing Mighty Blender Plus.

Please read this manual carefully to ensure correct and safe use of this product.

Figure-A

Part Names & Specifications



Specifications

P/N	MT-PLUS
Power	AC100V, 50/60Hz, 280W
Rated time	3 minutes (automatically stops after 3 minutes of continuous operation)
Rotation speed	6,000rpm ~ 19,000rpm
Dimensions	175 mm x 190 mm x 215 mm(H)
Weight	2.9 kg

Figure-B
Control panel Drawings

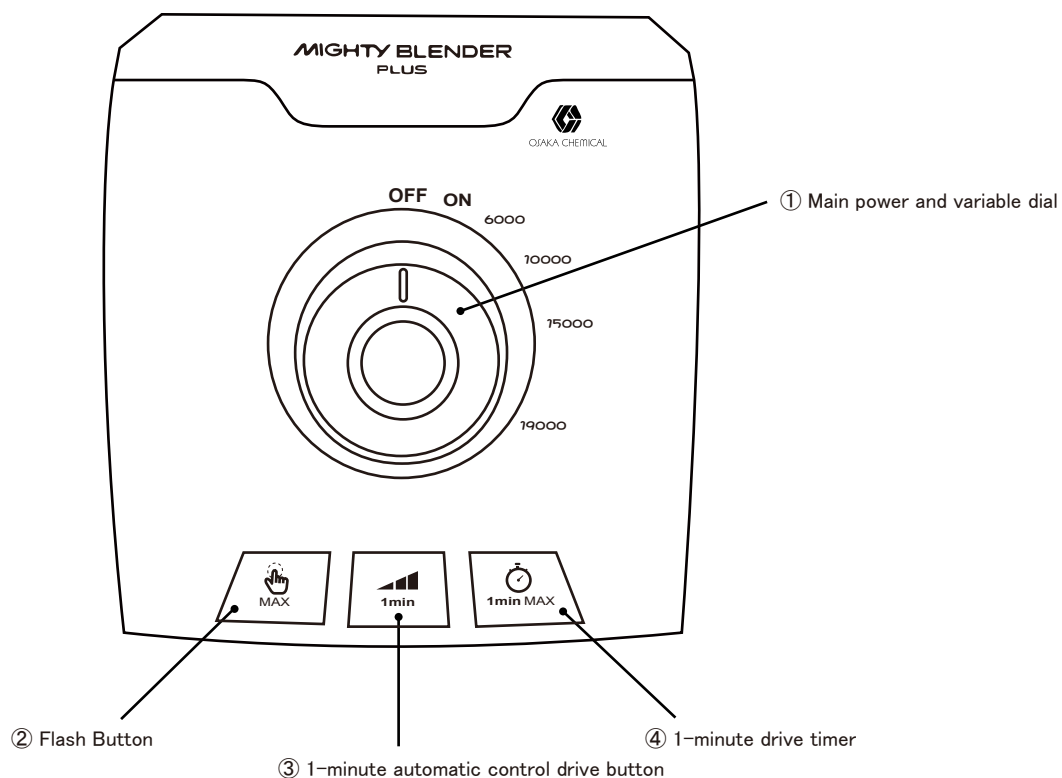
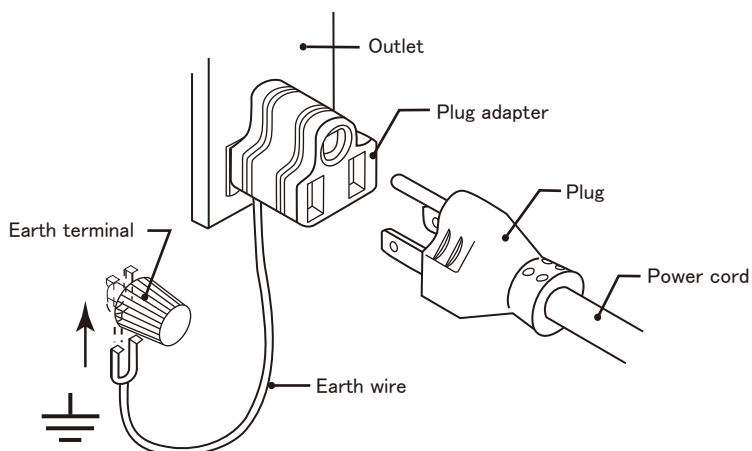


Figure-C
Power plug and cord



Operating instructions

MT-PLUS is a motor unit only, so the instructions for the operating panel of the main unit will be explained. Please refer to the instruction manual of the container set model for handling of containers.

- ◎ First, check that the dial ① on the main unit operation panel shown in Figure-B is set to the “OFF” position. (See Figure-B on page 2)
- ◎ Put the sample into the container you want to use, and set the container into the main unit correctly.
- ◎ Once ready, insert the plug of the power cord into the power outlet. The plug of the power cord is three-pronged; if you have a two-pole outlet, please use the supplied plug adapter. In this case, be sure to ground the unit. (See Figure C on page 2)
- ◎ Turn the main power of ① from OFF to ON, and then turn the variable dial to the desired speed. Especially at the start of crushing, the container may vibrate suddenly, so keep your hand on the top of the container to keep the machine stable. (See Figure-B on page 2)
- ◎ In addition, the flash button ② operates at maximum speed (19,000 rpm) only while it is pressed.
- ◎ When you are finished, return the dial to the “OFF” position to stop operation.
Then, remove the plug from the power outlet.
- ◎ Make sure that the motor has completely stopped rotating before removing the container sets from the main unit. Please note that detaching the container sets before the rotation has completely stopped will cause wear on the shaft.
- ◎ After use, wash the container, cutter, packing, base, and other parts (do not use detergents other than neutral detergent) and dry them well before storing them. Do not wash them in a dishwasher or use a dryer. Also, please be careful when handling cutters with sharp edges.

【Preset Program Operation】

● 1-minute automatic controlled drive

After turning on the main power, press the “(3) 1-minute automatic control drive button” to operate as follows.

- ～ 10 seconds: 6,000rpm operation
- 11 to 20 seconds: 10,000rpm operation
- 21 sec. to 30 sec.: 15,000rpm
- 31 sec. to 60 sec.: 19,000rpm

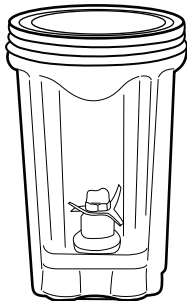
● 1-minute limited timer

After turning on the main power, press the “④ 1-minute drive timer button” to operate at the maximum speed of 19,000 rpm and automatically stop the machine after 1 minute has elapsed. After operation is stopped, return the dial in ① to “OFF” .

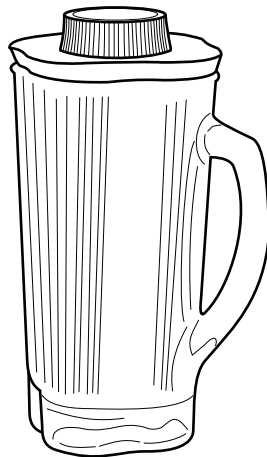
Cautions

- ◎ Do not alter the machine. It may cause accidental fire, electric shock, or injury.
- ◎ Do not use the product if the power cord or plug is damaged or if the plug is loose.
It may cause electric shock, short circuiting, or ignition.
- ◎ Never immerse the main unit in water or splash water on it.
It may cause electric shock or short circuit.
- ◎ Do not crush very hard samples such as stone, or highly fibrous samples such as mushroom.
It may cause damage.
- ◎ When using glass containers, do not make rapid cooling or heating with a temperature difference of 40° C or more between descending and ascending temperatures.
It may cause breakage.
- ◎ Please operate on a flat, stable place.
- ◎ Be sure to disconnect the power plug from the outlet before setting or removing the container.
- ◎ Never operate the machine without a sample in it.
- ◎ Do not use outdoors.
- ◎ The cutter inside the container is sharp and can be dangerous, so please handle it with caution.
- ◎ Never put hands, fingers, chopsticks, spoons, etc. into the container during operation.
- ◎ When performing a test operation, please fill the container about a half-full of water.
- ◎ Each operation should last no longer than 3 minutes. For continuous use, stop the machine for a while (10 to 15 minutes) after 3 minutes of operation, and then run it again.
If continuous operation is repeated, the motor temperature rises, which may cause a breakdown due to circuit meltdown. The machine will automatically stop after 3 minutes of continuous operation.
- ◎ When pulverizing, please do not use the equipment in an environment where the pulverized powder or other materials are scattered around the equipment.
If the machine is used in such an environment, the powder may get inside the chassis and cause malfunctions. Please clean the area around the machine frequently.

Optional Replacement Containers



E8470
(Glass Container)

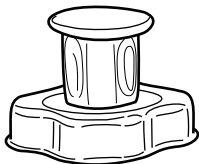


CAC32
(Glass Container)

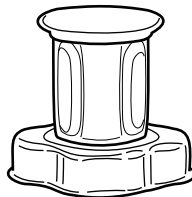


CAC33
(Stainless steel container)

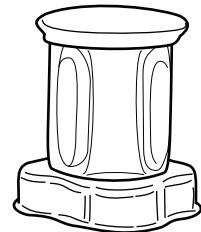
P/N	Capacity	Throughput	Price
E8470	500mL	30 ~ 250mL	¥79,000
CAC32	1.2L	75 ~ 500mL	¥25,000
CAC33	1.0L	75 ~ 500mL	¥39,000



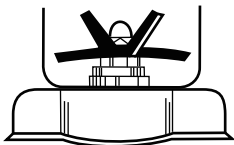
MC-1



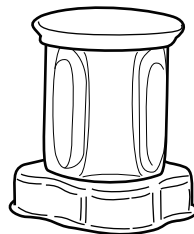
MC-2



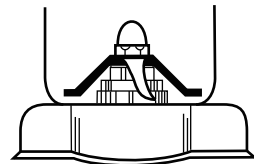
MC-3



MC-1 ~ 3
Cutter Shapes



SS110



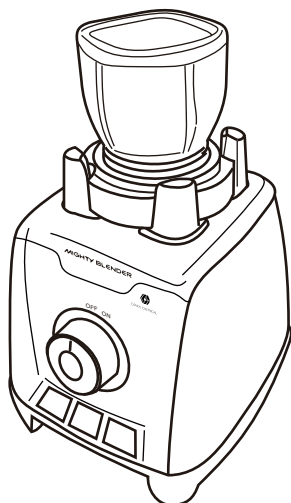
SS110
Cutter Shapes

P/N	Capacity	Throughput	Price
MC-1	50mL	12 ~ 20mL	¥72,000
MC-2	120mL	37 ~ 50mL	¥74,000
MC-3	260mL	50 ~ 80mL	¥82,000
SS110	260mL	75g	¥94,000

Model supplied with containers

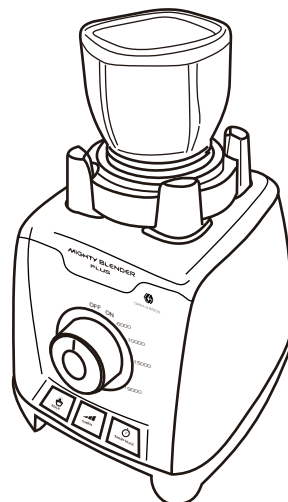
Bottle container model

MT-BC



ON/OFF switch only

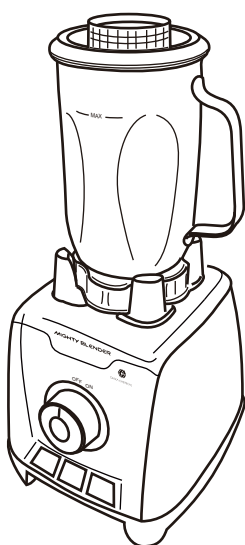
MT-BCPLUS



- Variable speed control by dial
- One-minute automatic control operation mode
- One-minute operation timer

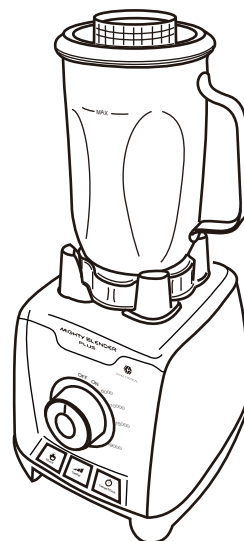
1L SUS Bottle Model

MT-SS



ON/OFF switch only

MT-SSPLUS



- Variable speed control by dial
- One-minute automatic control operation mode
- One-minute operation timer



〒530-0045

5-17, TENJIN NISHIMACHI, KITAKU, OSAKA, JAPAN

TEL +81-6-6311-1050 FAX +81-6-6311-1070

E-mail: info@daichem.co.jp

<http://www.daichem.co.jp>