

# SLUDGE CLEANER

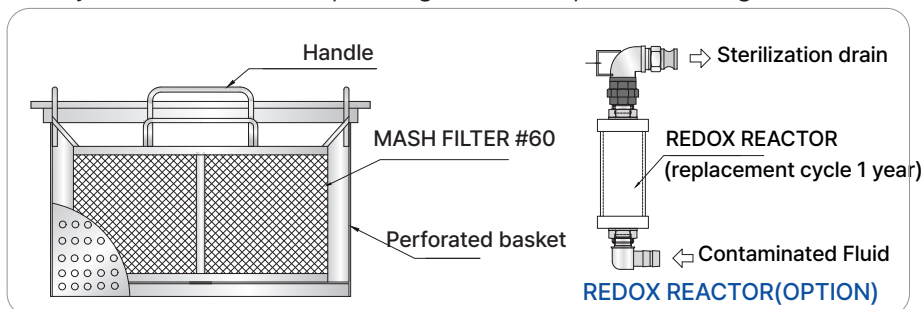
This is an eco-friendly cleaner that uses compressed air to suction, filter, sterilize, and separate sludge, fine chips, floating substances, and more, and then drain them along with air.

## Features

- No risk of explosion as it uses compressed air.
- Convenient and long-lasting to use.
- Enables separation of liquids and solids without machine downtime.
- Prevents cutting fluid decay through oxygen supply and sterilization treatment.
- Prevents occupational diseases through odor removal.
- Extends machine and tool lifespan through fine chip and sludge removal.
- Improving productivity and product precision.
- Enables removal of floating substances and residues.
- Reduces waste disposal and cutting fluid replacement costs.
- SD400 TC80A is capable of unmanned automatic operation.

## Applications

- Suction, filtration, and injection of liquid and chip, sludge mixtures.
- Cleaning of water, cutting fluid, and oil tanks.
- Easy removal of sediment, floating substances, and remaining fluid.



## Specifications

Model	Air Pressure		Vacuum		Air Consumption		Liquid Suction Capacity	Size	Weight	Capacity	Power
	kgf/cm²	psi	mmHg	mmAq	ℓ/min	SCFM	ℓ/min	(LxWxH)	kg	ℓ	
SD400 TC80A	4	57	240	3262	500	17.6	72	800×850×1050	53	80	AC 220V60HZ
SD400 TC80M							80		50		
SD400 H35							80		800×320×320	5	excluding drum

SD400D H35  
(Drum Type)



SLUDGE



OIL CHIP MIXTURE



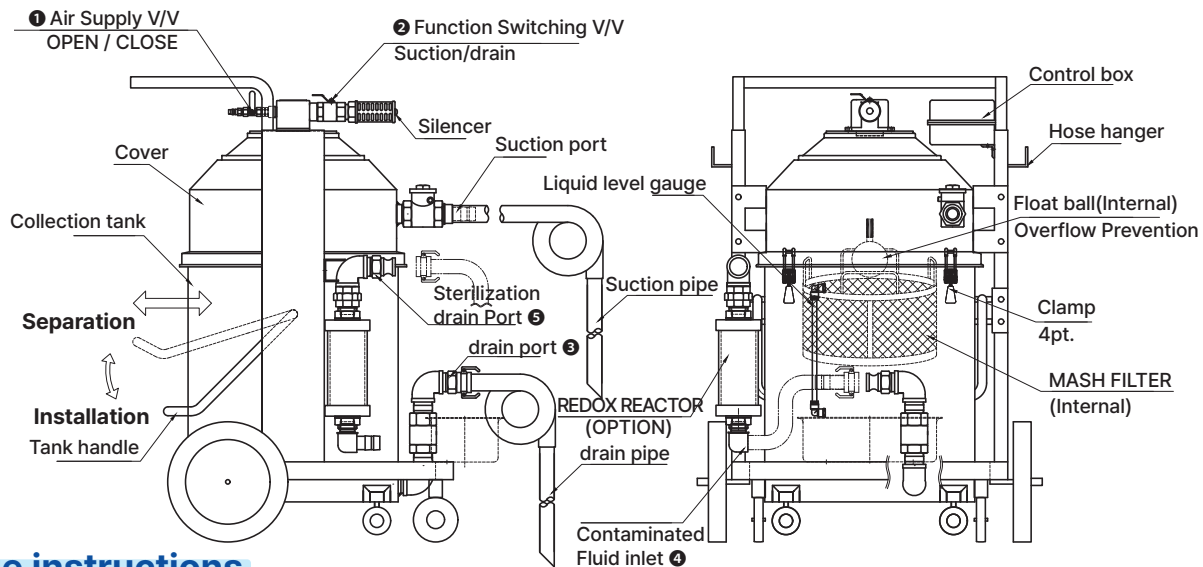
REMAINING FLUID



CUTTING FLUID

# SLUDGE CLEANER | MANUAL

## Part names



## Usage instructions

Purpose \ Device		❶ Air Supply V/V (OPEN/CLOSE)	❷ Function Switching V/V (OPEN/CLOSE)	❸ Drain port	Sterilization Filter (OPTION)	
					❹ Contaminated Fluid inlet	❺ Sterilization drain Port
Suction(In)	Manual	OPEN	OPEN	-	Separation	Separation
	Automatic	Press the SUCTION : on / Repeat: off				
drain(Out)	Manual	OPEN	CLOSE	Connecting drain pipe	Separation	Separation
	Automatic	Press the DRAIN : on / Repeat: off				
Circulation (Repeat S/D)	Manual	OPEN	Every 30 sec. Repeat OPEN / CLOSE	Connecting drain pipe	Separation	Separation
	Automatic	Press the CYCLE START : on / Press the POWER : off				
Sterilization circulation (Repeat S/D)	Manual	OPEN	Every 30 sec. Repeat OPEN / CLOSE	Connecting contaminated fluid inlet	Connecting drain port	Connecting drain pipe
	Automatic	Press the CYCLE START : on / Press the POWER : off				
Detach and drain the basket filter		The filter must be replaced after stopping the equipment.				
Replacing the sterilization filter						

## Instructions for use

- Position the collection tank in the center of the cover and attach the tank to the cover by pressing the tank handle. (Secure with clamps at 4 points)
- Connect the suction pipe and drain hose to the cutting oil tank.
- Supply compressed air to the AIR COUPLER of SD400.
- Open the air supply valve and remove the sludge and chips from the cutting oil tank using the suction pipe. (Check the liquid level inside the collection tank)
- Switch the function valve to drain and drain the filtered cutting oil.
- Repeat steps 1-6 to thoroughly clean the cutting oil tank.
- After cleaning, lift the handle of the collection tank to separate the accumulated chips and filtered cutting oil in the filter mesh inside the tank for disposal.

## Cautions

- The inner diameter of suction pipe is  $\Phi 27$ , and it is impossible to suction at the viscosity level of GREASE.
- When liquid flows towards the silencer, empty the contents of the collection tank. (Confirm the height of the contents in advance with a liquid level gauge.)
- If not in use, the collection tank must be emptied.
- The compressor capacity is 7.5KW (10HP) or higher, and the AIR HOSE inner diameter is  $\Phi 8$  or larger.

### • When suction is not smooth

- Check operating conditions (4kgf/cm<sup>2</sup>)
- Inspect and replace the silencer
- Check the inside of the suction and drain ports
- Check and replace assembled O-rings
- Check for foreign substances in the attached check valve when suction material backflows.