



DISCO

Kiru · Kezuru · Migaku Technologies



Automatic Cleaning System DCS1440/1460

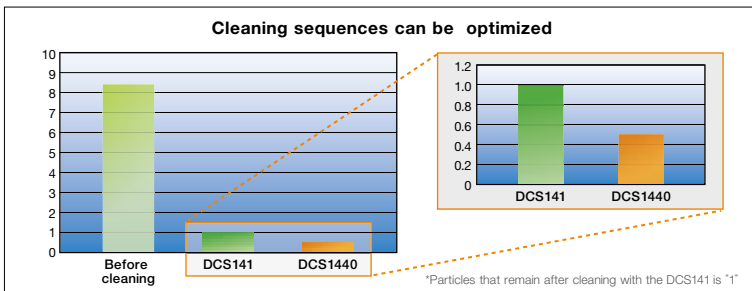
**Next-generation cleaning systems
with enhanced cleaning power**



Manual cleaning systems with enhanced cleaning performance

The DCS1440/1460 is used to clean workpieces that have been cut on a dicing saw. Cleaning sequences can be easily created (the cleaning arm sweep speed and cleaning locations can be optionally set) for effective and efficient cleaning.

In addition to the standard specification of a high pressure cleaning nozzle, an atomizing cleaning nozzle can be selected. These two different types of cleaning nozzles can be mounted to produce a double cleaning arm configuration, making it possible to clean a wide range of workpieces with a single unit.

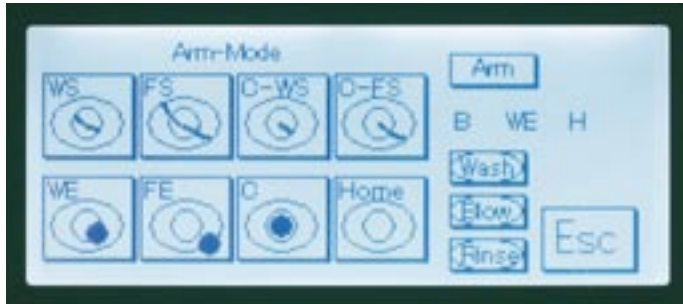


Supports a diverse range of workpieces

The DCS1440 can support workpiece sizes up to 250 mm x 250 mm, the DCS1460 up to 310 mm x 310 mm. In addition, cleaning of multilayer substrates is also supported.

Easy operation

A 4" LCD touch panel enables simple operation. The cleaning operation is also optimally supported by the software with easy to set cleaning sequences.

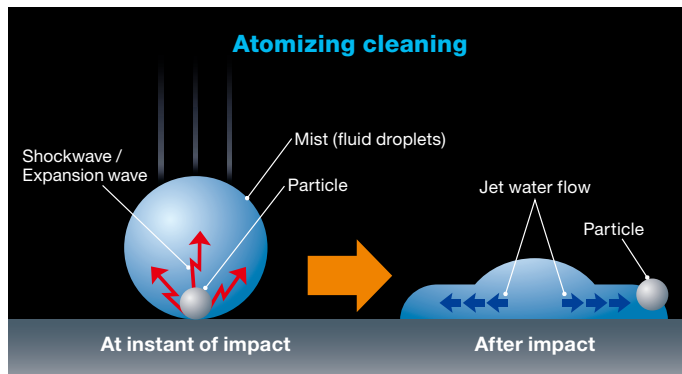


Cleaning sequence setup screen

Atomizing cleaning

Mist generated by mixing fluid droplets with blasts of air is sprayed against the cleaning surface at high speeds.

The resulting shockwave and expansion wave enable strong cleaning with minimal damage. (The atomizing cleaning specification is available as an option.)



Space saving

The space-saving design has a narrow width. (DCS1440: 400 mm, DCS1460: 500 mm)

Automatic Cleaning System DCS1440/1460



DCS1440/1460 Specification

	DCS1440	DCS1460
Max. workpiece size	mm ϕ 200 / 250 mm square	ϕ 300 mm / 310 mm square
Applicable Tape Frame	- DTF2-5, DTF2-6, DTF2-6-1, DTF2-8-1, DTF2-5-1 ¹	- DTF2-8-1, DTF2-12, DTF2-12-1, DTF2-5, DTF2-5-1, DTF2-6, DTF2-6-1 ¹
Cleaning method ²	- High pressure cleaning, atomizing cleaning ¹	
Number of cleaning sequences saved	-	8
Spinner	Table rotational speed range	min ⁻¹ 100 ~ 3,000
	Spinner discharge pressure	MPa 2.0 ~ 11.8
Utilities	Power supply	- Standard specifications 200 ~ 240 V AC \pm 10 %, 3-phase With built-in transformer ¹ 380 ~ 415 V AC \pm 10 %, 3-phase
	Power consumption	- During cleaning : 390 During cleaning : 1000 - During idling (in standby) : 110 During idling (in standby) : 110
Max. power	kVa	2.6
Air pressure	MPa	0.5, Fluctuations \pm 0.01
Air consumption max. flow rate	L/min(ANR)	216
Clean air pressure	MPa	0.5, Fluctuations \pm 0.01
Average clean air consumption during operation	L/min(ANR)	High pressure cleaning : 54 Atomizing cleaning : 98
Cleaning water feed pressure	MPa	0.2 ~ 0.4 MPa, Fluctuations \pm 0.01
Cleaning water flow rate setting range	mL/min(ANR)	High pressure cleaning : Max. 200 (spinner discharge pressure of 11.8 MPa) Atomizing cleaning ¹ : 40 ~ 300
Exhaust duct capacity	m ³ /min ³	3.0
Machine dimensions (W x D x H)	mm	400 x 600 x 1,220 (Excluding protrusions and the 128 mm touch panel) 500 x 650 x 1,220 (Excluding protrusions and the 128 mm touch panel)
Machine weight	kg	Approx.130 Approx.150
Other	Green procurement support	\checkmark (supports RoHS)

¹ Options

² Two different types of cleaning methods can be mounted as an option.

³ Contact your local DISCO sales representative when less than 3.0 m³/min.

Environmental conditions

- Use clean, oil-free air at a dew point of -15 °C or less. (Use a residual oil: 0.1 ppm. Filtration rating: 0.01 μ m/99.5 % or more).
- Keep room temperature fluctuations within \pm 1 °C of the set value. (Set value should be between 20 - 25 °C).
- The machines should be used in an environment, free from external vibration. Do not install machine near a ventilation opening, heat generation equipment or oil mist generating parts.
- This machine uses water.
In case of water leakage, please install the machine on the floor with sufficient waterproofing and drainage treatments.

* All pressures specified above are gauge pressures.

* As the above specification may change due to technical modifications. Please confirm when placing your order.

* For further information, please contact your local sales representative.