TECHNICAL DATA SHEET

InJet[®] 388 CRD-2PR CUSTOMLINE



APPLICATION

STENCIL, MISPRINT, SQUEEGEE → Solder pastes PUMPRINT CONFORMAL COATING PCB

REMOVING

- → SMT adhesives
- → Coating removing
- → Flux











TECHNICAL DATA SHEET

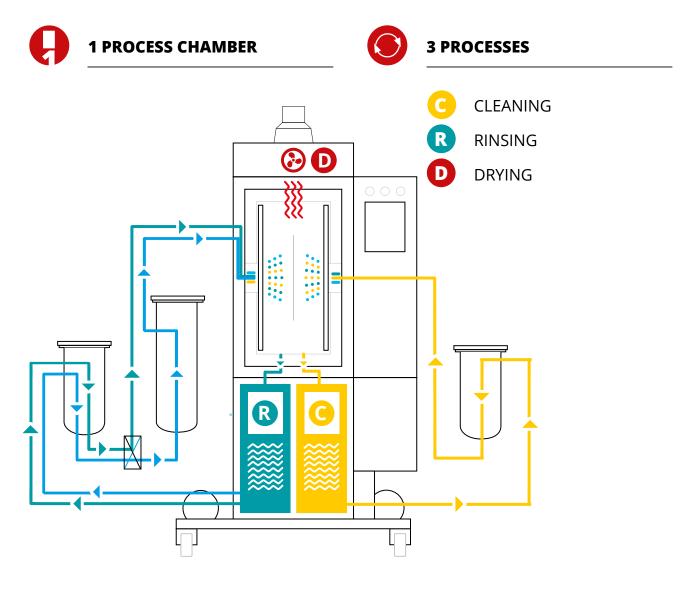
GENERAL INFORMATION

CUSTOMLINE CLEANING SYSTEM

The **Customline section** is meant for customers who have specific requirements.

Together we will configure the cleaning system to achieve the highest efficiency and quality of cleaning according to your wishes and expectations.

DEVELOPED AND INTENDENT FOR RECOMMENDED	APPLICATION STENCIL, MISPRINT, SQUEEGEE PUMPRINT CONFORMAL COATING PCB	REMOVING Solder pastes SMT adhesives Coating removing Flux
CLEANING TECHNOLOGY	The InJet [®] 388 series cleaning systems rep technology developed and manufacture The vertically installed Spray-In-Air device commonly seen in horizontal cleaners, an cleaning process as the cleaning fl uid is s component.	d by DCT. minimizes the shadowing eff ect d maximizes the effi ciency of the
CHAMBERS & PROCESSES	1 PROCESS CHAMBER 3 PROCESSES - CLEANING, RINSING, DR	'ING
PROCESS CONTROL	Real-time cleaning fluid pressure monitoring Control system of fluids limit pressures Liquid and filter replacement notification - cycle counting Minimum level warning - cleaning and rinsing fluid Conductivity measurement - rinse	
BENEFITS	3-arm controlled rotation - for improvin Filtration 2PR sandwich - integrated wi regulation - for improving the quality of Air Knife - swinging - for improving the q	th automatic rinsing





CLEANING PARAMETRES

Cleaning Application	Suitability	Recommended pr temperature	rocesses	Total usual process time	Capacity per 8 hours
Stencil, misprint, squeegee	***	20 – 40°C	68 – 104 °F	18 min.	27 ***
PumPrint	***	40 – 55°C	104 – 131 °F	18 min.	27 ***
Conformal coating	***	40 – 55°C	104 – 131 °F	60 min.	192 * / 16 **
РСВ	***	35 – 55°C	95 – 131 °F	30 min.	384 *

LEGEND: $\bigstar \bigstar \bigstar$ highly recommended $\bigstar \bigstar$ recommended \bigstar applicable

* PCB eurocards / per 8 hours (calculated for dimension of 100 x 160 mm / 3.94 x 6.3 in)

- * * Parts in soldering palette / per 8 hours (320 x 500 x 50 mm / 12,6 x 19,7 x 1,97 in)
- * * * Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in

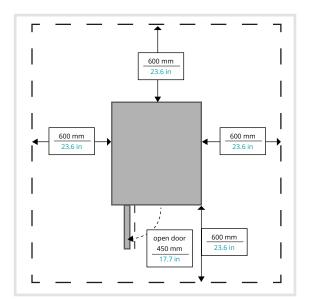
TECHNICAL PARAMETERS

	metric units	imperial units
Dimensions (w x l x h)	1200 x 1390 x 2400 mm	47,2 x 54,7 x 94,5 in
Weight	450 kg	992 lbs
Ø energy consumption per cycle	2,5 kWh	2.5 kWh
Consumption of cleaning agent per cycle - empty process chamber	0,1 – 0,3 l (15 min, 45°C)	0.02 – 0.08 gal (15 min, 113°F)
Consumption of rinsing fluid per cycle - empty process chamber	0,1 – 0,3 l (15 min, 45°C)	0.02 – 0.08 gal (15 min, 113°F)
Compressed air consumption per cycle	2 l / cycle	0,53 gal / cycle
Air consumption of Air knife - chemical resiude isolation	166 l / min	44 gal / min
Air consumption - chemical resiude isola- tion in process chamber	260 I / 45 sec	68.68 gal / 45 sec
Max. dimensions of the cleaned parts	100 x 800 x 760 mm	3,94 x 31,5 x 29,92 in
Exchangeable mechanical filter of cleaning and rinsing fluid	5 – 200 µm	5 – 200 µm
Operating pressures	cleaning: 1,5 – 2,8 Bar, rinsing: 0,3 – 1,5 Bar	cleaning: 21.75 – 40.6 PSI rinsing: 4.35 – 21.5 PSI
Cleaning fluid flow rate	200 l / min	52.8 gal / min
Temperature range setting of the cleaning and rinsing fluid	From ambient temperature to 60°C	From ambient temperature to 140°F
Conductivity range settings of the rinsing fluid in the tanks.	0–2000 µS/cm	0 – 2000 µS/cm
Temperature range setting of the drying	From ambient temperature to 80°C	From ambient temperature to 176°F
Noise level	< 70 dB	< 70 dB
Cleaning system control	PLC + 8,4" touchscreen	PLC + 8.4" touchscreen
Volume of the storage tanks	60	15,8 gal

DIMENSIONS



MINIMUM SERVICE SPACE AROUND THE MACHINE



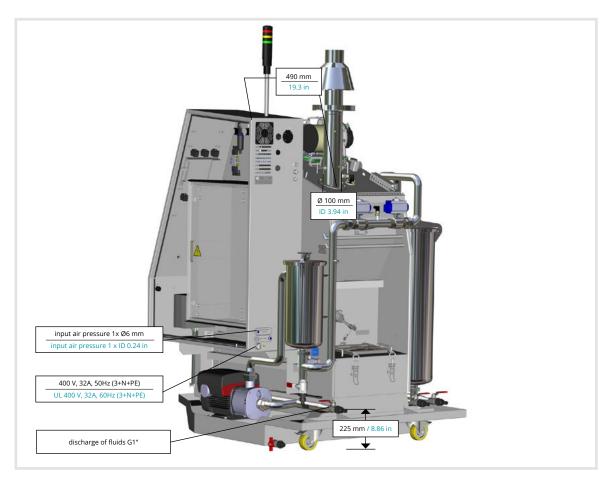


INSTALLATION REQUIREMENTS

metric units	imperial units	
400V, 32A, 50Hz (3+N+PE)	UL 400V, 32A, 60Hz* (3+N+PE)	
12 kW	12 kW	
Pipe Ø 6 mm + Ø 10 mm - 5 m	Pipe ID 0.24 in + ID 0.39 in - 196,9 in	
4,5 – 6 Bar	65.5 – 87 PSI	
3. Class **	3. Class **	
Ø 100 mm	ID 3.94 in	
380 m³/h	13400 ft ³ /h	
2 x 50 l	2 x 13.2 gal	
600 mm	23.6 in	
	400V, 32A, 50Hz (3+N+PE) 12 kW Pipe Ø 6 mm + Ø 10 mm - 5 m 4,5 - 6 Bar 3. Class ** Ø 100 mm 380 m ³ /h 2 x 50 l	

* When using frequency convertor ** According to the norm ISO 8573-1

BACK VIEW



STANDARD EQUIPMENT



MECHANICAL EQUIPMENT

Filtration of mechanical particles		
Consumption savings - Residue air-isolation		
Chimney flap - automatic		
Draft diverter with drip plate - 100 mm		
Pressurized air coupling for external pump	connection	
Castor wheels with brakes - BLICKLE		
Door lock - automatic		
Manual air-bleeding for pumps		
Mechanical filter lock		
Glass level gauge in stainless steel housing		
Spare parts (base kit)		



ELECTRO EQUIPMENT

PLC controller + 8,4" touchscreen display - IDEC	
Rotation - 3-arm driven rotation	
Heating system - cleaning fluid, rinsing fluid	
Drying system - hot air	
Emergency stop button - EATON	
ESD earthing point - for operator	



SOFTWARE EQUIPMENT

Language version - Czech + English

Five programs with individually settable parameter

Three-level logging rights - operator, maintenance, engineer

Minimum level warning - cleaning and rinsing fluid

Liquid and filter replacement notification – cycle counting

Control system of fluids limit pressures

Real-time cleaning fluid pressure monitoring

MANDATORY EQUIPMENT

Status light main + acoustic signalization - IDEC

Conductivity measurement - rinse 0-2000 μS - blocking optional

Air Knife - swinging - drying

Filtration 2PR sandwich - integrated with automatic regulation

OPTIONAL EQUIPMENT



MECHANICAL EQUIPMENT

Common fluids draining- manual control	
Automatic cleaning agent refilling (without pump-ready mix)	
Automatic cleaning agent refilling - concentrate	
Automatic cleaning agent discharging (without pump)	
Automatic rinsing water refilling (without pump	
Automatic rinsing water discharging (without pump)	
Integrated pump for automatic discharge	
External portable pump	
Integrated pump for manual discharge	
Drip tray - fitted	
Stainless steel drip tray - ESD floor protection	
Filtration sandwich - external	
Drain valve with lock	
Squeegee for reservoir tank maintenance	



ELECTRO EQUIPMENT

Control of external exhaust ventilator - instalation at customer
Electronic control - drying spirals functionality
Electronically continuous level measurement - cleaning
Electronically continuous level measurement - rinse
Frequency convertor
Transformer with/without UL



SOFTWARE EQUIPMENT

Fluid heating timer - cleaning and rinsing

Modification of cleaning system for 3rd class flammable liquid

Language mutation (CZE, ENG, GER, POL, CHI, RUS, ITA, SPA, MAY, HUN)



TRACEABILITY

Traceability OFF line

Traceability ON line

OPTIONAL EQUIPMENT



FRAMES EQUIPMENT

Frames for PCBs	
Frames for frameless stencils	
Frames for frame stencils	
Frames for VectorGuard stencils	
Frames for squeegees	
Frames - reduction for stencils	
Frames combined	



TROLLEYS, STANDS, HOLDERS EQUIPMENT

Mechanical table holder for a mechanical carrier frames

Mechanical manipulation trolley of PCB holders - 10 positions

Mechanical manipulation trolley of PCB holders - 8positions



EXTERNAL TANKS AND ACCESSORIES

Tank - 200l - rinse fluid	
Conductivity measurement	
Tank - 200I - cleaning fluid (readymix)	
Tank - 200I - cleaning fluid (concentrate)	
Air-based fluid mixing	
Heating the fluids in the tanker (200 L)	
Tank - 200l - cleaning fluid (concentrate) + dosing pun	qı
1000l IBC tank	
Monitoring the level in discharge external tank - IBC 1	000
Monitoring the level in external tank for DI water - IBG	2 1000 l
Water pump with pressure tank	



For more information, a list of options and a selection of suitable equipment, please contact a DCT specialist in your country or the manufacturer directly.



DCT QUALITY

All of the InJet[®], AirJet[®] and Sonix[®] cleaning systems developed by DCT are characterised by the highest quality on the market, high reliability, ease of use, simple maintenance, an extremely long lifespan, and the longest warranty on the cleaning system market.

These afore-mentioned benefits are achieved by the **precise manual production** of the cleaning systems in the Czech Republic, and thanks to the superior quality of the used materials and components.

Cleaning systems boast a **unique all-stainless-steel construction**, which is welded manually from AISI 304 and AISI 316 stainless steel and then chemically passivated.

The cleaning systems are designed and manufactured with a focus on **ease of use by operators**, **simple maintenance**, and **smart process parameter setting**. They are equipped with industrial PLC IDEC, a well arranged colour touch display with 3-level access (operator, maintenance, engineer), and with 3 or 5 adjustable cleaning programmes as standard.

The device **automatically and permanently checks** all **processes**, **operating fluid levels** and **process temperatures**, and also gives timely notification of the need to replace individual consumables or fluids.

Monitoring of the cleaning process history, whether offline or online, is ensured by an optional traceability function.

A wide range of **standard hardware** and **software equipment** is available for every cleaning system. However, DCT also excels by its **flexibility when resolving non-standard** cleaning systems and their accessories.

Our cleaning systems, together with our cleaning fluids and local application and technical support, bring you a long-term reliable, powerful and stable cleaning process, even under the most demanding continuous operation conditions.

With all its cleaning systems, DCT offers a **wide range** of hardware and software equipment, special frames with hitches for the parts you want to clean, and countless variants in addition to the basic process monitoring options which use traceability.



For more information, a list of options and a selection of suitable equipment, please contact a DCT specialist in your country or the manufacturer directly.



STAINLESS STEEL DESIGN

Main support frame Storage tanks Process chambers Fluid and air distribution systems Spray arms and nozzles Mechanical high-capacity filters Process chamber door frame and handle External shielding Active filters for rinsing DI water

Date of issue: **12/2024** InJet[®] is a registration trademark of DCT Czech s.r.o.

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