TECHNICAL DATA SHEET











Injet® 388 DOUBLE TRIPLE CRRD **CUSTOMLINE**



APPLICATION

STENCIL, MISPRINT, SQUEEGEE → Solder pastes PUMPRINT PCB

REMOVING

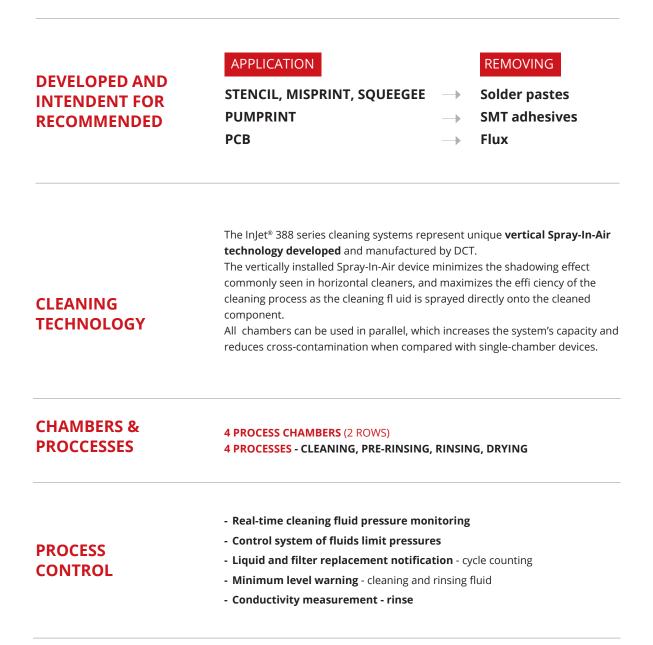
- → SMT adhesives
- → Flux

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.

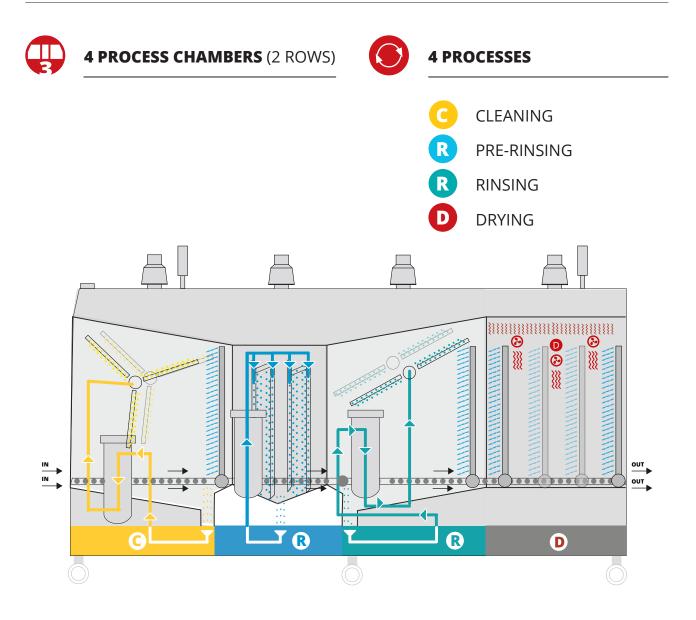




GENERAL INFORMATION

- 2. Touch panel 4,3" on output chamber
- 2-arm driven rotation rinsing
- 3-arm driven rotation cleaning
- Air Knife static clean chamber
- Air Knife static rinse chamber
- Focus drying

BENEFITS





CLEANING PARAMETRES

Application name	Recommended application	Recommended temperature		Total cleaning process time	Capacity per 8 hours
Stencil, misprint, squeegee	***	20 – 40°C	68 – 104 °F	32 min.	96
PumPrint	***	40 – 55°C	104 – 131 °F	20 min.	96
РСВ	***	35 – 55°C	95 – 131 °F	20 min.	1536 *

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)

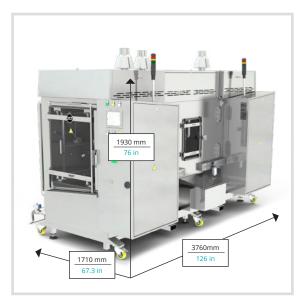
* * * Stencils, pumpprints larger than 736 x 736 mm / 29 x 29 in



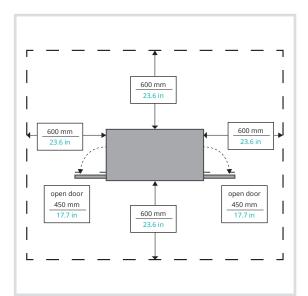
TECHNICAL PARAMETERS

	metric units	imperial units
Dimensions (w x l x h)	1710 x 3760 x 1930 mm	67.3 x 148x 76 in
Weight	1620 kg	3572 lbs
Ø energy consumption per cycle	3,14 kWh	3.14 kWh
Consumption of cleaning agent per cycle - empty process chamber	0,2 – 0,5 l (15 min, 45°C)	0.1 – 1.13 gal (15 min, 113°F)
Consumption of pre-rinsing fluid per cycle - empty process chamber	0,2 – 0,5 l (15 min, 45°C)	0.1 – 1.13 gal (15 min, 113°F)
Consumption of rinsing fluid per cycle - empty process chamber	0,2 – 0,5 l (15 min, 45°C)	0.1 – 1.13 gal (15 min, 113°F)
Compressed air consumption per cycle	4 l / cycle	1.05 gal / cycle
Air consumption of Air knife - chemical resiude isolation	332 l / min	88 gal / min
Max. dimensions of the cleaned parts	100 x 810 x 740 mm	3.93 x 31.89 x 29.13 in
Exchangeable mechanical filter of cleaning and rinsing fluid	5 – 200 µm	5 – 200 µm
Spraying pressure – cleaning / 45°C / 113°F	1,6 Bar	21.21 PSI
Range presssure – cleaning / 45°C / 113°F	0,3 – 2,8 Bar	4.35 – 40.61 PSI
Range pressure – pre rinsing / 45°C / 113°F	0,0 – 1,5 Bar	0.0 – 21.76 PSI
Range presssure – rinsing / 45°C / 113°F	0,1 – 1,5 Bar	1.45 – 21.76 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
Device control	PLC + 8,4" touchscreen	PLC + 8.4" touchscreen
Volume of the storage tanks	150 l	39.6 gal

DIMENSIONS



MINIMUM SERVICE SPACE AROUND THE MACHINE

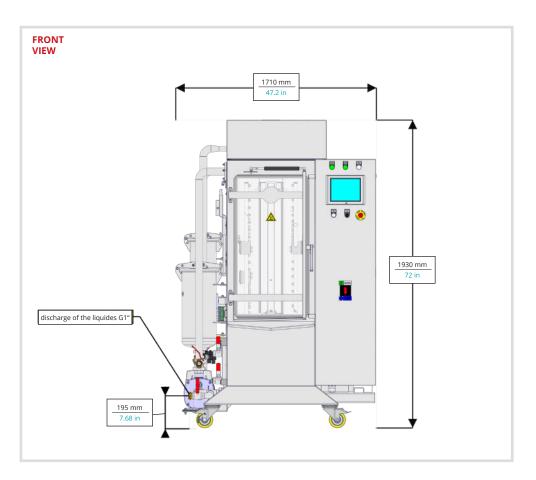




INSTALLATION REQUIREMENTS

	metric units	imperial units	
Power supply	400V, 63A, 50Hz (3+N+PE)	400V, 63A, 60Hz* (3+N+PE)	
Pmax	45 kW	45 kW	
Compressed air connection	Pipe Ø 6 mm and 2x Ø 10 mm - 5 m	Pipe ID 0.24 and 2x ID 0.39 - 196,9 in	
Recommended working pressure	4,5 – 6 Bar	65.25 – 87 PSI	
Compressed air quality	3. Class **	3. Class **	
Exhaust pipe diameter	3 x Ø 100 mm	3 x ID 3.94 in	
Exhaust pipe capacity	580 m³/h	20450 ft³/h	
Air consumption - air knife	37 m³/h	1305 ft³/h	
Minimum liquid for first run	3 x 75 l	3 x 19.8 gal	
Service space required around the device	600 mm	23.6 in	

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



STANDARD EQUIPMENT



MECHANICAL EQUIPMENT

Filtration of mechanical particles	
Chimney flap - automatic	
Draft diverter with drip plate - 100 mm	
Pressurized air coupling for external pump connectio	n
Castor wheels with brakes	
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	
3-arm driven rotation - cleaning	
2-arm driven rotation - rinsing	
Heating system - cleaning fluid, pre-rinsing 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



2. Touch panel 4,3" on output chamber - IDEC

Status light main + acoustic signalization -IDEC

Conductivity measurement - pre-rinse 0-2000 μS - blocking optional

Conductivity measurement - rinse 0-2000 μS - blocking optional

Air Knife - static - clean chamber, rinse chamber

Focus drying - no SW control

Status light second - IDEC

OPTIONAL EQUIPMENT



HARDWARE EQUIPMENT

Common fluids draining- manual control
Common fluids filing- manual control
Drain distribution valve - automatic control
Automatic refilling - safety valve
Automatic cleaning agent refilling - concentrate
Automatic cleaning agent discharging (without pump)
Automatic rinsing water refilling (without pump
Automatic rinsing water discharging (without pump)
Automatic pre-rinsing water refilling (without pump)
Automatic pre-rinsing water discharging (without pump)
External pump for automatic discharge
External portable pump
Stainless steel drip tray - ESD floor protection
Filtration 2PR sandwich - with automatic regulation
Filtration sandwich - external
Valve with lock
Drain valve with lock
Squeegee for reservoir tank maintenance
Walkable platform TWIN/DOUBLE TRIPLE

ELECTRO EQUIPMENT

Adjustable rotation arm speed
Electronic control - drying spirals functionalit
Electronically continuous level measurement - cleaning
Electronically continuous level measurement - rinse
Electronically continuous level measurement - pre-rinse
Control of external exhaust ventilator - instalation at customer
Frequency convertor
Transformer with/without UL
ECA automatic concentration measurement



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SOFTWARE EQUIPMENT

Fluid heating timer - cleaning , pre-rinsing, rinsing

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

OPTIONAL EQUIPMENT



TRACEABILITY

Traceability OFF line Traceability ON line

FRAMES EQUIPMENT

 Frames for PCBs

 Frames for frameless stencils

 Frames for frame stencils

 Frames for VectorGuard stencils

 Frames for squeegees

 Frames combined



TROLLEYS, STANDS, HOLDERS EQUIPMENT

Mechanical table holder for a mechanical carrier frames

Mechanical manipulation trolley - 1 PCB carrier frame - Twin

Mechanical manipulation trolley of PCB holders - 10 positions

Mechanical manipulation trolley of PCB holders - 8 positions

Trolley guidance TWIN



EXTERNAL TANKS AND ACCESSORIES

ank - 200I - rinse fluid	
onductivity measurement	
ank - 2001 - cleaning fluid (readymix)	
ank - 2001 - cleaning fluid (concentrate)	
ir-based fluid mixing	
leating the fluids in the tanker (200 L)	
ank - 200I - cleaning fluid (concentrate) + dosing pump	
000l IBC tank	
Ionitoring the level in discharge external tank - IBC 1000 I	
Ionitoring the level in external tank for DI water - IBC 1000 I	
/ater 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: **1/2025** InJet[®] is a registration trademark of DCT Czech s.r.o.

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