



OPTIONAL ACCESSORIES

	Mechanical carrier frame for PCB (included 3 arms)	Spare adjustable arm for mechanical carrier frame for PCB	Mechanical carrier frame for squeegees	Mechanical carrier frame for Vector-Guard stencils	Mechanical carrier frame for frameless stencils	Mechanical carrier frame for small stencils (17,15,23 inch)	Table/process holder for PCB, stencils or squeegees carrier	Fluid leakage tray, installed under cleaning machine	External pump for comfortable fluid refilling	Mechanical carrier basket
Injet®										
388 CD	€	€	€	€	€	€	€	€	€	×
388 CRD	€	€	€	€	€	€	€	€	€	×
388 CRRD	€	€	€	€	€	€	€	€	€	×
TWIN 388 CRRD	€	€	€	€	€	€	€	€	€	×
TWIN 499 CRRD	€	€	€	€	€	€	×	€	€	×
676 CRD	×	×	×	€	€	€	€	€	€	×
676 CRRD	×	×	×	€	€	€	€	€	€	×
888 CRD	×	×	×	€	€	€	€	€	€	×
888 CRRD	×	×	×	€	€	€	€	€	€	×
Airjet®										
486, CR, CRD	×	×	×	×	×	×	×	€	€	×
4127 CR, CRD	×	×	×	×	×	×	×	€	€	×
943 CRD	×	×	×	×	×	×	×	€	€	€
Sonix®										
355 CRRD	×	×	×	×	×	×	×	€	€	×
943 CRD	×	×	×	×	×	×	×	€	€	€

	External filtration set to maintain conductivity of DI-water (3x25l / 3x60l)	External 75 l tank for pre-rinsing, closed circuit without active filtration	Mechanical carrier basket for PCB/soldering pallets (included 4 comb holders)	Spare comb holder for PCB/soldering pallets carrier basket	Mechanical carrier basket trolley for horizontal machines	Controlled rotation arms 3 arms	Mechanical carrier basket	Status light	Additional drying technology	Controlled rotation arms
Injet®										
388 CD	×	×	×	×	×	€	×	€	€	€
388 CRD	€	€	×	×	×	€	×	€	€	€
388 CRRD	€	✓	×	×	×	€	×	€	€	€
TWIN 388 CRRD	€	×	×	×	×	€	×	€	€	€
TWIN 499 CRRD	€	×	×	×	×	×	×	€	€	€
676 CRD	€	€	€	€	€	×	×	€	×	×
676 CRRD	€	✓	€	€	€	×	×	€	×	×
888 CRD	€	€	€	€	€	×	×	€	×	×
888 CRRD	€	✓	€	€	€	×	×	€	×	×
Airjet®										
486, CR, CRD	×	×	×	×	×	×	€	€	×	×
4127 CR, CRD	×	×	×	×	×	×	€	€	×	×
943 CRD	€	€	×	×	×	×	€	€	×	×
Sonix®										
355 CRRD	€	×	×	×	×	×	€	€	×	×
943 CRD	€	€	×	×	×	×	€	€	×	×

KEY
 € optional
 × not applicable
 ✓ one part included with the machine

For other detailed technical information, accessories and settings of the optimal cleaning process, please contact DCT specialist at www.dct.cleaning.



MAP OF CLEANING MACHINES

+ optional accessories



SPRAY IN AIR TECHNOLOGY
 most frequently used cleaning technology in electronics industry
 wide scope of applications
 single- and multi-chamber versions
 vertical and horizontal cleaning configurations
 fully automatic versions
 Designed and engineered for cleaning:
 PCBs, STENCILS, MISPRINTS, SQUEEGEES, PUMPRINTS, SOLDERING FRAMES, PALETTES, MASKS, REFLOW FILTERS, COOLERS



AIR BUBBLE TECHNOLOGY
 most effective cleaning technology for reflow and wave parts
 wide scope of applications
 single- and multi-chamber versions
 fully and semi automatic versions
 Designed and engineered for cleaning:
 SOLDERING FRAMES, PALETTES, MASKS, REFLOW FILTERS, COOLERS, COATING FRAMES, COATED PCBs



ULTRASONIC TECHNOLOGY
 most effective cleaning technology for conformal coatings removing
 specific scope of applications
 single- and multi-chamber versions
 fully and semi automatic versions
 Designed and engineered for cleaning:
 COATING FRAMES, COATED PCBs, PCBs



SPRAY IN AIR - vertical machines											SPRAY IN AIR - horizontal machines																	
Application name	InJet® 388 CD	InJet® 388 CRD	InJet® 388 CRRD	InJet® TWIN 388 CRRD	InJet® TWIN 499 CRRD	InJet® 676 CRD	InJet® 676 CRRD	InJet® 888 CRD	InJet® 888 CRRD	InJet® 388 CD	InJet® 388 CRD	InJet® 388 CRRD	InJet® TWIN 388 CRRD	InJet® TWIN 499 CRRD	InJet® 676 CRD	InJet® 676 CRRD	InJet® 888 CRD	InJet® 888 CRRD										
Stencils (misprints, squeegees)	20-40 °C	★★★	15 min	32	★★★	18 min	27	★★★	18 min	27	★★★	15 min	48	★★★	18 min	96	★	20 min	24	★	20 min	24	★★	20 min	24	★★	20 min	24
PCB cleaning	35-55 °C	✗	-	-	★★	30 min	384*	★★★	30 min	384*	★★★	15 min	768*	★★★	35 min	2240*	★★	60 min	640*	★★★	55 min	690*	★★	60 min	1064*	★★★	55 min	1160*
Pumprint cleaning	40-55 °C	★★	35 min	14	★★★	38 min	13	★★★	38 min	13	★★★	38 min	28	★★★	38 min	56	✗	-	-	✗	-	-	★	40 min	12	★	40 min	12
Reflow and soldering parts	30-50 °C	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-	★★★	40 min	132**	★★★	40 min	132**	★★★	40 min	240**	★★★	40 min	240**
Conformal coating removing	40-55 °C	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-	✗	-	-
Number of process chambers	1		1		1		3		3		1		1		1		1											
Processes	cleaning drying		cleaning rinsing drying		cleaning rinsing rinsing drying		cleaning rinsing rinsing drying		cleaning rinsing rinsing drying		cleaning rinsing drying		cleaning rinsing rinsing drying		cleaning rinsing drying		cleaning rinsing drying		cleaning rinsing drying		cleaning rinsing rinsing drying							
Dimensions (width x length x height)	1062 x 1492 x 1847 mm		1086 x 1492 x 1876 mm		1086 x 1492 x 1876 mm		1085 x 2574 x 1823 mm		1400 x 2550 x 1965 mm		1250 x 1295 x 1868 mm		1250 x 1295 x 1868 mm		1550 x 1500 x 1950 mm		1550 x 1500 x 1950 mm											
Max. dimensions of the cleaned parts	190 x 860 x 790 mm		190 x 860 x 790 mm		190 x 860 x 790 mm		100 x 810 x 740 mm		130 x 910 x 860 mm		600 x 700 x 500 mm		600 x 700 x 500 mm		850 x 800 x 610 mm		850 x 800 x 610 mm											
Weight	250 kg		350 kg		350 kg + 100 kg		650 kg		1300 kg		700 kg		700 kg + 100 kg		780 kg		780 kg + 100 kg											
Exchangeable mechanical filtration	5-300 µm		5-300 µm		5-300 µm		5-300 µm		5-300 µm		5-300 µm		5-300 µm		5-300 µm		5-300 µm											
Cleaning fluid flow rate (by 2 Bar)	183 l / min		183 l / min		183 l / min		183 l / min		2 x 210 l/min		183 l/min		183 l/min		210 l/min		210 l/min											
Average energy consumption per 1 cycle	Ø 1.47 kW/h		Ø 1,64 kW/h		Ø 1,65 kW/h		Ø 1,54 kW/h		Ø 2,41 kW/h		Ø 2,50 kW/h		Ø 2,50 kW/h		Ø 3,30 kW/h		Ø 3,30 kW/h											
Cleaning fluid consumption per 1 cycle	0,05 - 0,2 l		0,05 - 0,3 l		0,05 - 0,3 l		0,05 - 0,2 l		0,1 - 0,4 l		0,2 - 0,4 l		0,2 - 0,4 l		0,2 - 0,5 l		0,2 - 0,5 l											
Compressed air consumption per 1 cycle	< 2 liters / 5 bar		< 2 liters / 5 bar		< 3 liters / 5 bar		< 1 liters / 5 bar		< 4 liters / 5 bar		< 2 liters / 5 bar		< 3 liters / 5 bar		< 2 liters / 5 bar		< 3 liters / 5 bar											
Minimum volume of cleaning fluid	75 l		75 l		75 l		75 l		200 l		100 l		100 l		125 l		125 l											
Traceability online/offline	€ / ✗		€ / €		€ / €		€ / €		€ / €		€ / €		€ / €		€ / €		€ / €											
RR-kit	✗		€		✓		✓		✓		€		✓		€		✓											



CLEANING PROCESSES LABELING OF MACHINES

- C** CLEANING
- R** RINSING
- D** DRYING

INSTALLATION

power connection 32A
 central pressed air connection 6 mm
 connection to air exhaust 100 mm

Applies to all machines with the exception of:
 InJet® TWIN 499 CRRD: power connection is 63A
 air exhaust: 2 x 150 mm
 InJet® TWIN 388 CRRD: air exhaust: 2 x 100 mm
 InJet® 888, AirJet® 4127: air exhaust: 150 mm



ULTRASONIC															
Application name	AirJet® 486 CRD	AirJet® 4127 CRD	AirJet® 943 CRD	AirJet® 954 CRD	AirJet® 594 CRD	AirJet® 486 CRD	AirJet® 4127 CRD	AirJet® 943 CRD	AirJet® 954 CRD	AirJet® 594 CRD	AirJet® 486 CRD	AirJet® 4127 CRD	AirJet® 943 CRD	AirJet® 954 CRD	AirJet® 594 CRD
Stencils (misprints, squeegees)	20-40 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-
PCB cleaning	35-55 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-
Pumprint cleaning	40-55 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-
Reflow and soldering parts	30-50 °C	★★★	40 °C	20 min	192**	★★★	40 °C	20 min	288**	✗	-	-	✗	-	-
Conformal coating removing	40-55 °C	✗	-	-	✗	-	-	★★★	20 °C	45 min	730*	★★★	20 °C	45 min	980*/144**
Number of process chambers	3		3		1		1		3						
Processes	cleaning rinsing drying		cleaning rinsing drying		cleaning rinsing drying		cleaning rinsing drying		cleaning rinsing drying						
Dimensions (width x length x height)	1702 x 998 x 1147 mm		1900 x 1528 x 1067 mm		1842 x 1116 x 1600 mm		2347 x 1135 x 1706 mm		2506 x 1360 x 2373 mm						
Max. dimensions of the cleaned parts	390 x 760 x 580 mm		440 x 1300 x 600 mm		850 x 360 x 210 mm		869 x 447 x 320 mm		478 x 880 x 430 mm						
Dimensions of carrier basket	700 x 380 mm		1200 x 420 mm		880 x 360 mm		850 x 400 mm		851 x 451 mm						
Weight	290 kg		450 kg		650 kg		750 kg		670 kg						
Exchangeable mechanical filtration	✗		✗		5-300 µm		5-300 µm		5-300 µm						
Average energy consumption per 1 cycle	Ø 1,4 kW/h		Ø 2,1 kW/h		Ø 2,52 kW/h		Ø 3,02 kW/h		Ø 2,94 kW/h						
Compressed air consumption per 1 cycle	83 liters/5 bar		83 liters/5 bar		83 liters/5 bar		83 liters/5 bar		83 liters/5 bar						
Minimum volume of cleaning fluid	125 l		400 l		150 l		225 l		250 l						
RR-kit	✗		✗		€		€		✗						



ULTRASONIC																	
Application name	Sonix® 355 CRRD	Sonix® 943 CRD	Sonix® 954 CRD	Sonix® 355 CRRD	Sonix® 943 CRD	Sonix® 954 CRD	Sonix® 355 CRRD	Sonix® 943 CRD	Sonix® 954 CRD	Sonix® 355 CRRD	Sonix® 943 CRD	Sonix® 954 CRD	Sonix® 355 CRRD	Sonix® 943 CRD	Sonix® 954 CRD		
Stencils (misprints, squeegees)	20-40 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-		
PCB cleaning	35-55 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-		
Pumprint cleaning	40-55 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-		
Reflow and soldering parts	30-50 °C	★★	45 °C	35 min	1440*	★★	45 °C	35 min	490*	★★	45 °C	35 min	1261**	★★	45 °C	35 min	1261**
Conformal coating removing	40-55 °C	✗	-	-	✗	-	-	-	✗	-	-	-	✗	-	-		
Number of process chambers	4		1		1												
Processes	cleaning rinsing rinsing drying		cleaning rinsing drying		cleaning rinsing drying												
Dimensions (width x length x height)	1621 x 972 x 1062 mm		1842 x 1116 x 1600 mm		2347 x 1135 x 1706 mm												
Max. dimensions of the cleaned parts	280 x 560 x 570 mm		900 x 380 x 220 mm		850 x 447 x 320mm												
Dimensions of carrier basket	460 x 260 mm		880 x 360 mm		850 x 400 mm												
Weight	400 kg		660 kg		750 kg												
Exchangeable mechanical filtration	✗		5-300 µm		5-300 µm												
Average energy consumption per 1 cycle	Ø 1,92 kW/h		Ø 2,67 kW/h		Ø 3,25 kW/h												
Compressed air consumption per 1 cycle	83 liters/5 bar		83 liters/5 bar		83 liters/5 bar												
Minimum volume of cleaning fluid	125 l		150 l		225 l												
RR-kit	✗		€		€												

KEY

- recommended temperature of cleaning fluid
- our application recommendation
- total time of cleaning cycle
- capacity
- applicable
- recommended
- highly recommended
- not applicable
- included
- optional
- * PCB eurocards (100x160mm) per 8 hours (work shift)
- ** parts in soldering palette (320 x 500 x 50 mm) per 8 hours (work shift)