

THE BIRTH OF BLIT

BLIT

CIRCUIT SERVICES



Chemical Systems for
Printed Circuit Manufacture
Assembly
Water Treatment

Now in its second decade, BLT Circuit Services is firmly established with printed circuit manufacturers and assemblers as a prime supplier of cost effective, environmentally acceptable products and processes - and we are forever ready to source products that may not fit the category of 'standard'.

We continue to increase the number of lines we handle, and maintain the level of stock expected of us by our customers, with most items being available 'next day'. BLT can now offer a full range of Lead Free and VOC Free products to enable both manufacturers and assemblers to comply with the 2006 RoHS and WEEE Directives.

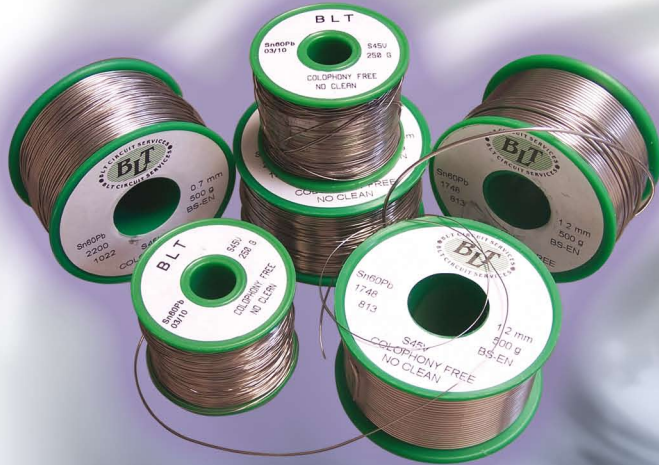
Our expanded laboratory facilities now provide customers with state-of-the-art analytical and environmental testing, hand-in-hand with the technical support available from our experienced field sales technicians and chemists.

Our services extend to on-site analysis, computerised oven temperature profiling, and in-house Spark Erosion Spectrophotometer analysis of Lead Free solders.

To provide increased capacity for the manufacture of Lead Free solder, we have a totally dedicated, fully automatic, production unit. This is in addition to our 'Nitro Flo' high purity solder facility.

In response to greater environmental awareness we now granulate 25 litre plastic drums to enable recycling.

And we are committed to keeping pace with the rapidly changing requirements of the worldwide electronics industry by having established agencies and distribution agreements with multi-national film, chemical and equipment manufacturers.



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Chemicals

The BLT range of chemicals for PCB production has been formulated to provide manufacturers with efficient, cost effective processes whilst maintaining a wide operating window.



Multilayer De-smear

Product	Description	Application	Benefits	Pack size	Stock ref.
Microsolve HP	Alkaline concentrate	Solvent swell	Rapid action	25 litre	18031D
Permaprep MSH	Alkaline concentrate	De-smear	Long life	25 litre	18032E
Oxidiser EL	Potassium permanganate	De-smear	High purity	10 kilo	18030A
Remover MN	Stabiliser for peroxide	Manganese removal	Long life	10 litre	18033E

Electroless Copper

Product	Description	Benefits	Pack size	Stock ref.
Conditioner 7205	Alkaline for conditioning multilayer	Used at 3%	25 litre	167205
Conditioner 7200	Alkaline conditioner	Used at 3%. Excellent glass fibre coverage	25 litre	167200
Microetch 7220	Microetch	Stabilised hydrogen peroxide/sulphuric acid solution	25 litre	167220
Pre-dip 7230	Catalyst pre-dip	Concentrated	25 kilo	167230
Activator 7235	Palladium catalyst	Ensures void free copper coverage	5 litre	167235
Accelerator 7250	Plating accelerator	Ensures good bonding and hole coverage	25 litre	167250
EC 7270	High build copper 2.5 - 3.0 μ in 30 mins. @42°C	Excellent coverage and stability	25 litre	A-167270A B-167270B M-167270M
EC 7260	Low build copper 0.25 - 0.50 μ in 30 mins. @27°C	Dense fine grain structure	25 litre	A-167260A B-167260B M-167260M

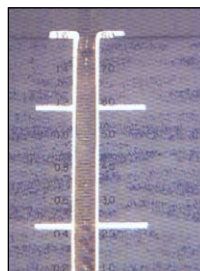
Direct Metallisation SYSTEM S

Revolutionary amphoteric 3-metal alloy direct plating system

Product	Function	Characteristics	Pack size	Stock ref.
Conditioner DS270	Cleaner/conditioner	Concentrate used at 3%	5 litre	168270
Predip DS400	Activator/Predip	Used as supplied	25 litre	168400
Activator DS500	Palladium activator	Used at 5%	5 litre	168500
Intensifier DS650	Intensifier	650L - 43% 650P - 10% 650C - 1%	25 litre 5 litre 5 litre	168650L 168650P 168650C



Pure copper-to-copper plating. No demarcation line.



0.15mm hole \geq 11.1 aspect ratio. System-S plated with Cu 400.

Copper Cleaners

Product	Description	Application	Benefits	Pack size	Stock ref.
Copperwet 1120	Sulphuric acid pre-plate cleaner	Concentrate for immersion	Non chloride	25 litre	11200D
Copperwet 1150	Mild acid degreaser. Deoxidiser liquid concentrate	Spray	Non chloride, non etching	25 litre	11500D
Copperwet 1180	Mild acid degreaser. Deoxidiser liquid concentrate	Immersion	Non etching, powerful degreaser	25 litre	11800D
Copperwet 1130	Mild acid micro etch liquid concentrate	Spray prior to HAL	Removes solder mask residue	25 litre	11300D
Copperwet 1170	Micro etch powder	Immersion or spray, prior to HAL or plating	Stable, consistent etch	10 kilo	11700A
Copperwet 1171	Micro etch liquid concentrate	Spray prior to HAL	Economical	25 litre	11710D
Copperwet 1173	Micro etch powder	Immersion or spray	Persulphate base	25 kilo	11730D
Copperwet 1174	Micro etch powder	Immersion or spray	Pre Tin or silver micro etch	25 kilo	11740D
Radikal RL	Neutral liquid concentrate	Dip pre-micro etch pattern plate cleaner	Use with sulphuric acid. Economical, removes film residues	5 litre 25 litre	11000A 11000E
Aktipur AS	Liquid concentrate	Dip pre-micro etch, pattern plate cleaner	Use with sulphuric acid	5 litre 25 litre	18060A 18060E

Electroplating

Product	Description	Benefits	Pack size	Stock ref.
Blasberg LP1 - Bath	Acid copper solution	Matt finish, single additive	Made on-site	18080
Blasberg LP1 - Replenisher	Concentrate	Single component	5 litre 30 litre	18085A 18085E
Copper Sulphate	99.9% pure	No organics	10 kilo	18081
CU400	Acid copper leveller	Produces highly levelled, bright copper deposit	5 litre	18070
SN800	Acid tin solution	Smooth ultra fine deposit	Made on-site	18090
SN800A	Grain refiner	Concentrated, usage 200ml per 1,000 amp/hrs	5 litre	18096
SN800B	Wetting agent	Usage 20ml per 1,000 amp/hrs	5 litre	18097

Roller Tinning

Product	Description	Application	Benefits	Pack size	Stock ref.
Roll Tin Flux 1010	Semi aqueous	Dip and roller	Economical	25 litre	10100D
Roll Tin Flux 1017	Fully aqueous	Dip and roller	No volatile components	25 litre	10170D
Roll Salts 2000	Covering salts	Roller tinning	Long life	10 kilo	10010A

Tin and Tin Lead Strippers

Product	Description	Application	Benefits	Pack size	Stock ref.
1510A	First stage tin lead stripper	Immersion	High capacity	25 litre	1510A0D
1520B	Second stage tin lead stripper	Immersion	Bright and passivated copper	25 litre	1520B0D
1540	Single stage tin lead stripper	Immersion	Low fume	25 litre	15400D
1532	Single stage tin lead stripper	Spray	High capacity, high speed, bright passivated copper	25 litre 200 litre	15320D 15320P
1535	Single stage pure tin stripper	Spray	High speed, high capacity	25 litre 200 litre	15350D 15350P



Resist Strippers

Product	Description	Application	Benefits	Pack size	Stock ref.
Aquastrip 1305	Organic based concentrate	Spray and dip	Low alkalinity dry film stripper for aluminium	25 litre	13050D
Aquastrip 1310	Potassium Hydroxide based concentrate	Spray and dip	Strips silk screen inks and dry films	25 litre	13100D
Aquastrip 1315	Organic based conc. for dry films	Spray and dip	High Capacity, solvent free	25 litre	13150D
Aquastrip 1320	Organic based conc. for dry films	Spray and dip	Highly effective on overplated boards	25 litre	13200D
Aquastrip 1330P	Organic based conc. for dry films	Spray and dip	Low odour, high speed	25 litre	1330P0D
Aquastrip 1335DB	Organic based conc. for dry films	Spray and dip	High capacity, no copper tarnish	25 litre	1335DB
Aquastrip 1355	Organic based conc. for dry films	Spray and dip	High capacity, no copper tarnish	25 litre	13550D
Aquastrip 1380	Soldermask stripper	Dip	Removes cured UV and photoimageable soldermasks	25 litre	13800D
Solvstrip 1390	Solvent stripper	Dip	Removes all liquid photo resists	25 litre	1390MD
Waycoat Resist Remover	Solvent stripper	Dip	Negative liquid photo-resist stripper	25 litre	7040D

Hot Air Levelling Fluxes

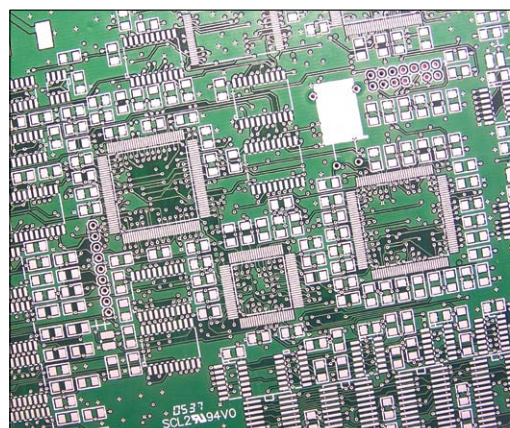
Product	Description	Application	Benefits	Pack size	Stock ref.
HAL Flux 1260/EM	Medium viscosity	Dip or roller PTH and multilayer	Economical	25 litre	12650D
HAL Flux 1270/EM	Medium viscosity	Dip or roller PTH	Economical, excellent coverage	25 litre	12700
HAL Flux 1275/EM	High viscosity	Dip or roller PTH and multilayer	Excellent coverage & soldermask protection	25 litre	12750D
HAL Flux 1285/EM	High viscosity	Dip or roller PTH and multilayer	Excellent coverage, non-foaming in rinse	25 litre	12850D
HAL Flux 1295/EM	Medium viscosity	Dip or roller PTH and multilayer	Excellent for lead free applications	25 litre	12950D

Antifoams

Product	Description	Application	Benefits	Pack size	Stock ref.
E100/NS	Aqueous concentrate	Effluent control	Low cost - non-silicone	25 litre	2050
E200/NS	Organic concentrate	Strippers and cleaners	Non-silicone, effective & low concentrations	4 x 5 litre	2052
E300/NS	Organic concentrate	Strippers and cleaners	Non-silicone - highly concentrated	4 x 5 litre	2053
E700/NS	Organic concentrate	Developer	Non-silicone - No Residue, effective at low concentrations	4 x 5 litre 25 litre	2057 20570D
700NSMA	Organic concentrate	Developer	Non-silicone - No Residue, effective at low concentrations	20 litre	2057EC

Miscellaneous

Product	Description	Application	Benefits	Pack size	Stock ref.
Equip Clean 1910	Acid concentrate	Machine cleaning. Removes residue from inside or outside machines	Inhibited solution	25 litre	19100D
Jig Stripper 1975	Acid concentrate	Immersion	High capacity, low odour	25 litre	19750D
Jig Stripper 1970	Acid concentrate	Immersion	Very low odour	-	19700D
FE3 Replenisher 1410	Oxidising solution	Regeneration of Ferric Chloride Etchant	Can be automated	25 litre	14100D
Reducing Solution	Ferrous Chloride solution	Chlorine Remover	Concentrated	4 x 5 litre	14200
Flux Saponifier 1985	Organic alkali concentrate	Immersion removal of flux residues	Free rinsing	25 litre	19850D
Flux Saponifier 1990	Organic alkali concentrate	Spray removal of flux residues	Low foam - economical	25 litre	19900D
Blackener 1999	Single part	Immersion	Low Temp. 60°C	25 litre	19990D
Developer 1610	Concentrate	Spray	Economical, high speed	25 litre	16100D
Developer 1648	Highly concentrated	Spray	Economical	25 litre	16480D
Electropolish 1190	Phosphoric acid base	Copper polish prior to gold plate	Reduces porosity	25 litre	11900D
Anti-tarnish 1175	Concentrate	Dip or spray	Solderable	25 litre	11750D
Anti-tarnish 1178	Concentrate	Spray	Stable in persulphate solution	5 litre	11780A



Lead free final board finishes

Immersion Silver CharterSILVER® IAG-377

Product	Description	Benefits	Pack size	Stock ref.
Pre-dip PX313	Concentrate pre-dip	Used at 50%	25 litre	16313
CharterSILVER® IAG377M	Make up	Used at 50%	25 litre	16377M
CharterSILVER® IAG377R2	Replenisher concentrate	Highly concentrated	5 litre	16377R2
Antitarnish ANT39	Concentrate	Used at 20%	25 litre	16390

Lead free final board finishes - (continued)**Electroless Nickel/Gold**

Product	Description	Benefits	Pack size	Stock ref.
Activator Pd600	Palladium activator	Ensures fine grain nickel deposit	5 litre	-
Ni6000	Electroless nickel	Uniform, semi-bright deposit	25 litre	-
Au3000	Immersion gold	Smooth deposit - economical	Made on-site	-

Immersion Tin - Ormecon CSN 7001

Product	Description	Application	Benefits	Pack size	Stock ref.
Ormecon CSN7001	Pure tin solution	Immersion	Excellent solderability	25 litre	17001
Ormecon CSN7012R	Tin replenisher	Immersion	For bath control of CSN-7001	5 litre	17010B
Ormecon PCB7000	Organic metal	Immersion	Guarantees solderability of CSN-7001	1 litre	17000

Chemical Detector Tubes

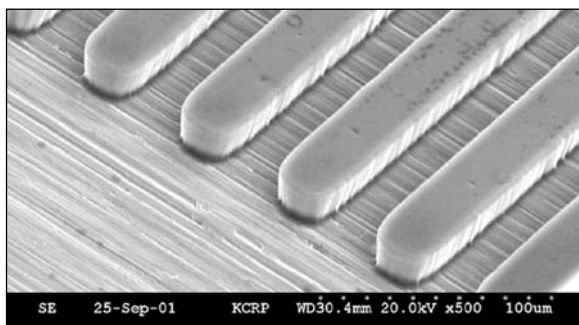
Kitagawa aspirating pump and quantitative detector tubes for monitoring chemicals in the work area.

Product	Description	Application	Benefits	Pack size	Stock ref.
APS Aspirator	Hand held unit	Chemical detection	-	1 unit with case	4800
105SD	Tube	Ammonia	1-20ppm	10	4805
109SB	Tube	Chlorine	0.5-10.0ppm	10	4809
224SA	Tube	Monoethanolamine	1-5ppm	10	4824
2335	Tube	Nitric Acid	2-20ppm	10	4833
150U	Tube	Isopropyl Alcohol	20-1,200ppm	10	4850
171SB	Tube	Formaldehyde	1-35ppm	10	4871
182U	Tube	Ozone	0.15-3.0ppm	10	4882
190U	Tube	Butyl Cellosolve	10-1,000ppm	10	4890
197U	Tube	Cyclohexanone	2-100ppm	10	4897

The above are common tubes only and a complete range is available

Yellow Room

Dry films for Printed Circuit Manufacture and Chemical Milling.



Dry Films

Product	Pack size	Stock ref.
Kolon KP 2140 - 40μ ● High resolution ● Suitable for tenting ● Competitive pricing ● Suitable for alkaline etching ● Excellent for chemical milling	204mm x 120M twinpack	1921H
	254mm x 120M twinpack	1921J
	306mm x 120M twinpack	1921L
	356mm x 120M twinpack	1921N
	406mm x 120M twinpack	1921P
	458mm x 120M twinpack	1921R
Kolon KP 2150 - 50μ	306mm x 120M twinpack	1950L
	458mm x 120M twinpack	1950R
Kolon UH 3215 - 15μ ● High resolution etching of ferrous and non-ferrous alloys	306mm x 120M twinpack	1932L
	458mm x 120M twinpack	1932R
Kolon UH 3315 - 15μ ● High resolution etching of ferrous and non-ferrous alloys	306mm x 120M twinpack	1933L
	458mm x 120M twinpack	1933R
Kolon UH 3330 - 30μ ● High resolution etching of ferrous and non-ferrous alloys	306mm x 120M twinpack	1923L
	458mm x 120M twinpack	1923R
Kolon KG 5120 - 20μ ● Gold Plating ● For fine line alkaline etching	306mm x 120M twinpack	1920L
	458mm x 120M twinpack	1920R
Kolon KG 5130 - 30μ ● Gold Plating ● For fine line alkaline etching	306mm x 120M twinpack	1930L
	400mm x 120M twinpack	19300
	458mm x 120M twinpack	1930R

Other sizes available ex stock or to order including 153M length on 3" core and 300M length on 6" core

Diazo Film

Product	Pack size	Stock ref.
Densotrans HCS ● Solvent Resistant ● Excellent dimensional stability ● Scratch resistant ● Semi matt ● High Contrast	210mm x 297mm x 100 sheets	1111S
	279mm x 356mm x 100 sheets	1141S
	356mm x 432mm x 100 sheets	1161S
	300mm x 400mm x 100 sheets	1131S
	400mm x 500mm x 100 sheets	1171S
	500mm x 600mm x 100 sheets	1181S
	510mm x 710mm x 50 sheets	1185S
	560mm x 712mm x 100 sheets	1188S
	1.22 x 10M roll	1200S

Other sizes are available to order

Diazo Developer

Product	Stock ref.
<ul style="list-style-type: none"> ● Helamat 60cm working width ● Built-in extraction system 	1230

Step Guides

Product	Stock ref.
<ul style="list-style-type: none"> ● Stouffer 21 Step Wedge 	1220

Reversal Film

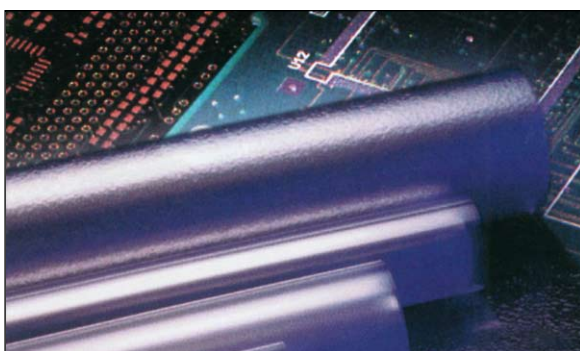
Product	Pack size	Stock ref.
Kimoto AK Colour <ul style="list-style-type: none"> ● High speed ● Aqueous developed 	300mm x 400mm x 100 sheets	1460
	400mm x 500mm x 100 sheets	1470

Safelight Film and Sleeves

Product	Thickness	Size	Stock ref.
Folamask Amber <ul style="list-style-type: none"> ● UV blocking 	0.076mm	1.22 x 10M	1255
	0.125mm	1.22 x 10M	1260
Encapsulite Sleeves G10 Gold <ul style="list-style-type: none"> ● Slimline T8 ● Standard T12 		Size	Stock ref.
		18" - 6ft	6ft - 1281
		2ft - 8ft	6ft - 1291

Embossed Mylar Film

Product	Thickness	Type	Roll size	Stock ref.
UV Rite	0.004"	Embossed	0.914M x 9M	1800
Rhino Tuff 1	0.010"	Heavy embossed	0.914M x 9M	1801



Artwork Protection Film

Product	Thickness	Roll size	Stock ref.
APF-NS	0.0085mm	485mm x 152M	1626NS
APF-NS	0.0085mm	508mm x 152M	1628NS

- Ideal for track and gap widths down to 8 microns.
- Supplied with release paper roll.

Drill Check Film

Product	Thickness	Type	Pack size	Stock ref.
Check Rite	0.25mm	Green	2ft x 3ft x 50 sheets	4110

Dry Film Laminators - Manufactured by Stork GmbH

	Model	Max. lamination width
<ul style="list-style-type: none"> ● Precise temperature control ● Digital display for roller speed, actual temperature and set point ● Competitively priced 	HRL350	360mm
	HRL500	500mm
	HRL650	650mm

Other sizes are available to order. Cut sheet laminators also available.



Dust Removal and Static Reduction

<i>DRS Hand Rollers and Pads</i>				
Product	Description	Size	Tack	Stock ref.
DRS-2	Roller	6" - Blue	High	1601
DRS-3	Roller	12" - Blue	High	1602
NSR-2	Roller	6" - Black	Non-tacky	1601Y
NSR-3	Roller	12" - Black	Non-tacky	1602Y
BLT - TACKY PADS	Pads	330mm x 241mm x 50 sheets x 5 pad packs	High	1619
DRS-4	Tray	for 12" & 6" rollers	-	1600T

<i>Machine Tacky Rollers</i>			
Product	Size	Quantity	Stock ref.
AR24.5 ● 3" (76mm) Core - ● Excellent adhesive coverage	622mm x 20.1M Other sizes available on request	4 rolls	1625

<i>Dust Tak Wipes</i>			
	Size	Quantity	Stock ref.
<ul style="list-style-type: none"> ● Room temperature ● Non-woven 	228mm x 458mm	144 sheets	1700
	470mm x 400mm	50 sheets	1701

<i>Clean Walk Mats</i>			
	Size	Quantity	Stock ref.
● White	457mm x 914mm	30 sheets x 4 mat case	1630GM
● White	610mm x 1168mm	30 sheets x 4 mat case	1633GM

Tapes and Opaque Pens

Product	Size	Stock ref.
Red Litho Tape	12mm x 66M	9312
	25mm x 66M	9325
Kimopake Red	0.5mm Red	1521
	1.0mm Red	1541
	3.0mm Red	1551
Kimopake Red and Black	0.1mm Red / H899	1500
	0.3mm Red / H900	1510
	0.1mm Black / HO899	1501
	0.3mm Black / HO900	1502

UV Lamps

Full range of metal halide lamps for all equipment. Dry film, Diazo and stencil film exposure.

Film Cleaning Chemicals

Product	Size	Stock ref.
Diazo 2001	1 litre bottle	1210
BLT Antistatic Foam Cleaner	400ml aerosol	4440

Screen Print



Screen Chemicals

Product	Description	Application	Benefits	Pack size	Stock ref.
Alkaline Cleaning Paste	Concentrate paste	Degreasing screens and stencil removal	Highly effective	10 kilo	6011
Degreaser Paste 2023	Abrasive paste	New screen preparation	Ultra-fine particles	1 kilo	6020F
Degreaser Liquid 2033	Concentrate liquid	Dilute 1:10 to degrease prior to film application	Economical	5 litre	6070F
Mesh Prep 2025	Concentrate liquid	Adhesion promoter	Improves stencil life	5 litre	6040F
Stripping Powder 2044	Concentrate powder	Dilute 250g to 25 litre	Very economical	250g	6060F
Stripping Paste 2005	Viscous paste	Stencil remover	Economical	5 kilo	6071

Screen Chemicals - (continued)

Product	Description	Application	Benefits	Pack size	Stock ref.
Ghost Image Remover	Concentrate liquid	Use with alkaline cleaning paste to remove residue	Highly effective	5 kilo	6115
Blue Filler	Aqueous	Stencil block	No solvents	5 litre	6300
Fast Dry Filler	Solvent	Stencil block	Fast dry	5 litre	6310
F-Chem 2320 Adhesive	2 pack screen adhesive base	All frames and mesh types	High bond strength	0.9 kilo	6111
F-Chem 2325 Catalyst	2 pack screen adhesive catalyst	For use with F-Chem 2320 Adhesive	High bond strength	0.18 kilo	6112
F-Chem 2327 Reducer	Thinner for adhesive	-	Cleaner/thinner	1 litre	6113

Stencil Films and Emulsions

Product	Description	Application	Size	Stock ref.
IG620	Indirect film	Etch resist/ident	1.04 x 7.5M 1.04 x 15M	6803 6803X
Developer Powders A & B	Developer	For indirect films	4 litre mix	6810
DD618	18 micron - Direct capillary film	Etch resist	1.06 x 7.5M	6818Q
DD621	21 micron - Direct capillary film	Etch resist	1.06 x 7.5M	6821Q
DD625	25 micron - Direct capillary film	Etch resist and notation	1.06 x 7.5M 1.06 x 15M	6825Q 6825X
DD629	29 micron - Direct capillary film	Etch resist and notation	1.06 x 7.5M 1.06 x 15M	6829Q 6829X
DD640	40 micron - Direct capillary film	Solder mask	1.06 x 7.5M	6840Q
All capillary films are available in cut sheets				
DPP Super 200	Photopolymer 200 micron direct capillary film	Peelable	44cm x 62cm x 10 sheets	69200SS
DPP Super 400	Photopolymer 400 micron direct capillary film	Peelable	44cm x 62cm x 10 sheets	69400SS
Emulsion LPE 1840	Photopolymer	Peelable	1 kilo	6984
Emulsion LPE 1850	Photopolymer	Peelable	1 kilo	6985
LPE/784	Single pack photopolymer liquid	Peelable	1 kilo	6784

Screenwashes

Product	Description	Application	Size	Stock ref.
MP/2	General purpose	2 pack, thermal & UV	4 x 5 litre	6200C
E/MP	Emulsifiable, general purpose	2 pack, thermal & UV	4 x 5 litre	6210C
ELT/2B	Low odour, general purpose	UV & photoimageable	4 x 5 litre	6232
PI	Very low odour	Photoimageable	4 x 5 litre	6235
PI/3	High solvency	2 pack, thermal & UV	4 x 5 litre	6237

Squeegees

Long life, solvent resistant.

Product	Size	Hardness	Profile	Stock ref.
Polyurethane	50 x 9mm x 3.66M	60 shore	Square	6460C6
	50 x 9mm x 3.66M	65 shore	Square	6465C6
	50 x 9mm x 3.66M	70 shore	Square	6470C6
	50 x 9mm x 3.66M	75 shore	Square	6475C6
	50 x 9mm x 3.66M	80 shore	Square	6480C6
	50 x 9mm x 3.66M	85 shore	Square	6485C6
Composite	50 x 9mm x 3.66M	65/95/65	Square	6565C
	50 x 9mm x 3.66M	75/95/75	Square	6575C

Other sizes and profiles are available to order.



Squeegee Handles

Gold anodised aluminium adjustable to accept all sizes of squeegees.

Length	Stock ref.
152mm	6406
203mm	6408
254mm	6410
306mm	6412
356mm	6414
406mm	6416
458mm	6418

Other sizes available to order.

Registration Film

Clear low tack film for print alignment.

Size	Stock ref.
300mm x 100M	9410

Available in larger sizes

Cleaning Brushes

Product	Description	Pack size	Stock ref.
Fotecbrush	Round	Chemical application to screens	1 unit 6015

Lint-Free Wipes

Absorbant, high quality, exceptionally strong, lint-free wipes for all screen print applications.

Product	Description	Application	Pack size	Stock ref.
E-Tork Wipes	Individual wipes in Flexi box	Inks and solvents	340 sheets 32cm x 38cm	6382FB
E-Tork Strong	Roll	High usage areas	31.5cm x 135M roll	6382R
P-Tork Wipes	Individual wipes in Flexi box	Inks and solvents, low cost	340 sheets 32cm x 38cm	6385FB
P-Tork Combi	Roll	High usage areas	32cm x 200M roll	6385R

Inks



Thermally Cured

Product	Application	Colour	Pack size	Stock ref.
Etch Resist 101	Acid etch resist	Blue	1 kilo	7591
Etch Resist 182/1	Acid and alkaline, etch/plating resist	Grey	1 kilo	7582
Etch Resist 182/2	Acid and alkaline, etch/plating resist	Blue	1 kilo	7583
Thinner 242	Normal for all etch resist and two pack inks	-	5 litre	7902
PK71/5	2 pack soldermask gloss, mix ratio 2:1 ink/catalyst	Green	5 kilo	7671
PK71/NF	2 pack soldermask matt, mix ratio 3:1 ink/catalyst	Green	5 kilo	7672
PK8	2 pack soldermask catalyst	-	1 kilo	7678
Peelable 484	Soldermask peelable	Blue	1 kilo 5 kilo	7684 7685/5K
PK71/5 210	2 pack notation - gloss, mix ratio 2:1 ink/catalyst	White	1 kilo	7685WG
PK71/5 213	2 pack notation - gloss, mix ratio 2:1 ink/catalyst	Yellow	1 kilo	7685YG
PK71/5 215	2 pack notation - gloss, mix ratio 2:1 ink/catalyst	Red	1 kilo	7685RG
Catalyst PK8	For all 2 packs	-	1 kilo	7678

UV Cured

Product	Application	Colour	Pack size	Stock ref.
Solder Resist 2850	Solder mask	Dark Green	1 kilo 5 kilo	7525 7726
6000/210NF	Notation ink	White	1 kilo	7751
6000/211P	Notation ink	Black	1 kilo	7752
6000/213	Notation ink	Yellow	1 kilo	7753

Photoimageable

Product	Application	Colour	Pack size	Stock ref.
PK9000	Screenprint soldermask & notation	Dark Green	1.25 kilo twinpack	7890
PK9000/C	Curtain coating soldermask & notation	Dark Green	1.25 kilo twinpack	7890C
PK9000 Blue	Screenprint soldermask & notation	Blue	1.25 kilo twinpack	7890B
PK9000 Yellow	Screenprint soldermask & notation	Yellow	1.25 kilo twinpack	7890Y
PK9000 White	Screenprint soldermask & notation	White	1.25 kilo twinpack	7890W
PK9000 Red	Screenprint soldermask & notation	Red	1.25 kilo twinpack	7890R
PK9000 Black	Screenprint soldermask & notation	Black	1.25 kilo twinpack	7890K
Sanwa SPSR-950/G	Screenprint soldermask	Dark Green Gloss	1 kilo twinpack	7889
Sanwa SPSR-950/BL U	Screenprint soldermask	Blue Gloss	1 kilo twinpack	7885
Sanwa SPSR-950/W	Screenprint soldermask	White Gloss	1 kilo twinpack	7886
Sanwa SPSR-950/R	Screenprint soldermask	Red Gloss	1 kilo twinpack	7888
Sanwa SPSR-950/BLA	Screenprint soldermask	Black	1 kilo twinpack	7887
Sanwa SPSR-950/Y	Screenprint soldermask	Yellow	1 kilo twinpack	7884
Thinner PM	For all photoimageable inks	Neutral	1 litre	7800T

Etch Resist Pens and Ink

Product	Application	Pack size	Stock ref.
Resist Pens Red	Acid and alkali etch resistant, alkali soluble.	12 pens	4080
Resist Pens Blue	Acid and alkali etch resistant, solvent soluble.	12 pens	4082
Spare Nibs	For all pens	100 nibs	4080T
Etch Resist Ink Red	Acid and alkali resist, alkali soluble.	0.5 litre	4081D

Controllers and Plating Equipment

BLT use the latest in pH, Redox and Colourimetric technology to manufacture a range of units for total process control of critical stages of Printed Circuit Manufacture and Chemical Milling.

A full design and fabrication service is also available for Electroless and Electrolytic plating lines.



Electroless and copper plating line

FEIII/10 controller

Etching

Product	Application	Capacity	Dimensions	Stock ref.
FEIII/10	Ferric Chloride	10 kilos copper/hour	FEIII/10 0.66M x 0.30M x 0.50M high	5910
FEIII/20	Ferric Chloride	20 kilos copper/hour	FEIII/20 0.87M x 0.35M x 0.55M high	5920
CUII/10	Cupric Chloride	10 kilos copper/hour	CUII/10 0.66M x 0.30M x 0.50M high	5930
CUII/20	Cupric Chloride	20 kilos copper/hour	CUII/20 0.82M x 0.35M x 0.55M high	5940
NH4/10	Ammoniacal	10 kilos copper/hour	NH4/10 0.45M x 0.30M x 0.35M high	5945
Eve-Recycling sarl	Ammoniacal Sulphate Etchant	3 kilo/hour copper per module	Plating cell: 1.25M x 0.85M x 1.3M tall Rectifier: 0.4M x 0.6M x 1.5M tall	5060

Micro Etch

Product	Application	Capacity	Stock ref.
Walchem WCU310 240V	Persulphate or Peroxide/Sulphuric acid with Immersion or Flow-through sensors	Pumps sized to suit application	Immersion - 5310I Flow Through - 5310F

Electroless Copper

Product	Application	Capacity	Stock ref.
Walchem WCU/310 240V	All electroless copper solutions - Immersion or Flow-through sensors	Pumps sized to suit application	Immersion - 5310I Flow through - 5310F

Developer

Product	Application	Capacity	Stock ref.
DEV/30	Accurate pH control of all aqueous developers	30 litres developer/hour	5200

Tin and Tin Lead Stripper

Product	Application	Capacity	Stock ref.
Sn/Pb/5	S.G, Controller for tin and tin lead stripping	5 kilos Sn/Pb per hour	5250

pH and Redox Control

Product	Application	Capacity	Stock ref.
Walchem WPH320	Proportional pH control of all acid or alkali solutions	Pump sized to suit application	5210
Walchem Redox Controller WPH320	Proportional control of all oxidising/reducing solutions	Pump sized to suit application	5220

Dosing Pumps and Tanks

BLT can supply a range of stroke and pulse controlled pumps for chemical dosing with flow rates from 2-100 litres per hour. Pumps can be supplied separately or as a dosing unit pre-mounted on a DT type dosing tank.



Bellows pumps (on/off only)

Product	Capacity	Material of construction	Stock ref.
Compact Single 1"	22 litre/hour	Bellows polypropylene	8123
Compact Single 1½"	47 litre/hour	Bellows polypropylene	8124
Compact Single 2"	80 litre/hour	Bellows polypropylene	8121
Compact Tandem 2"	2 x 80 litre/hour	Bellows polypropylene	8122

Magnetic drive pumps

Product	Capacity	Stock ref.
TE3PMD	20 litre/min @3M head	8133
TE4PMD	30 litre/min @3M head	8134
TE5PMD	50 litre/min @3M head	8135
TE6PMD	100 litre/min @3M head	8136

Dosing tanks

Product	Material	Capacity	Dimensions	Stock ref.
DT100	MDPE	100 litre	0.50M Ø x 0.70M	5501
DT200	MDPE	200 litre	0.64M Ø x 0.78M	5502
DT500	MDPE	500 litre	0.82M Ø x 1.10M	5505
DT1000	MDPE	1000 litre	1.06M Ø x 1.35M	5509

Storage and reaction tanks custom manufactured in Polypropylene up to 10m³ capacity.

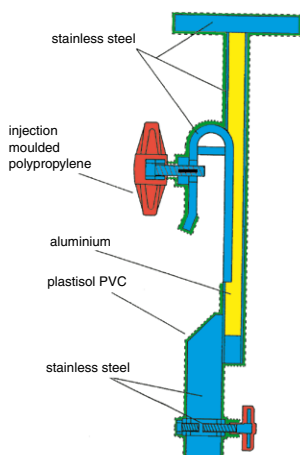
Electrodes and Spare Parts

Controllers

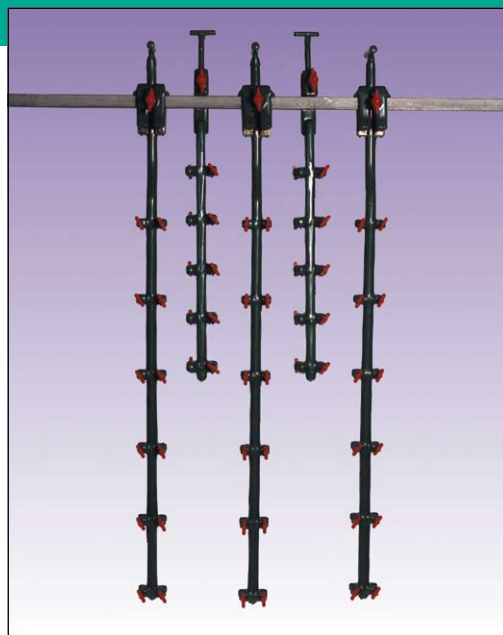
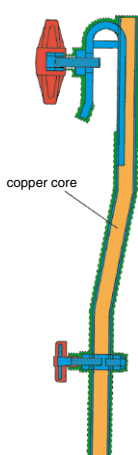
Product	Application	Stock ref.
Etch and Redox Controller	Redox electrode with 3m cable IGW/PT	8124
Etch Controller	Poppet valves Kel-F (acid etching)	8110
Etch Controller	Hypalon valves (ammoniacal etching)	8109
Micro etch and Electroless	Immersion sensor, flow through sensor	8112S 8112F
Micro etch and Electroless	Flow through sensor tube	8112FT
pH Controller	pH electrode with 15m cable	8310
Redox Controller	Redox electrode HI 3211S, screw fitting	8304
Redox Controller	Screw fitting/BNC 5m cable for HI 3211S	8304C5
Redox Controller	Screw fitting/BNC 10m cable for HI 3211S	8304C10
Ion Control Unit	Ion-selective electrode 305-75	8320

Plating Jigs, Baskets, Board Racks, Heaters and Anodes

“STANDARD” CONSTRUCTION



“CC” CONSTRUCTION



Stem Jigs

Stainless steel, PVC coated jigs with polypropylene moulded contacts, custom manufactured up to a maximum length of 1.8M. A full refurbishment service is available. Copper core construction available for improved current distribution.

Top Fixing Jigs

Custom manufactured from copper and stainless steel, injection moulded with polypropylene, ¼” copper contacts. Current capacity - 500 amps.

Frame Jigs

Stainless steel frames with adjustable contacts manufactured to customers requirements. PVC plastisol coated frame with polypropylene moulded stainless steel screws.

Electroless Baskets

Individually made from stainless steel with internal separators to accept varying board sizes.

Titanium Anode Baskets

Custom manufactured from titanium mesh.

Anodes and Polypropylene Bags

Product	Size	Stock ref.
Tin Lead (60/40) Ovals	306mm - 1000mm	450mm - 4600
Copper Ovals 0.8% Phosphorous	306mm - 1000mm	450mm - 4610
Pure Tin Ovals	306mm - 750mm	450mm - 4620

Polypropylene bags custom made to suit anode sizes from 300mm - 1000mm.

Tank Heaters

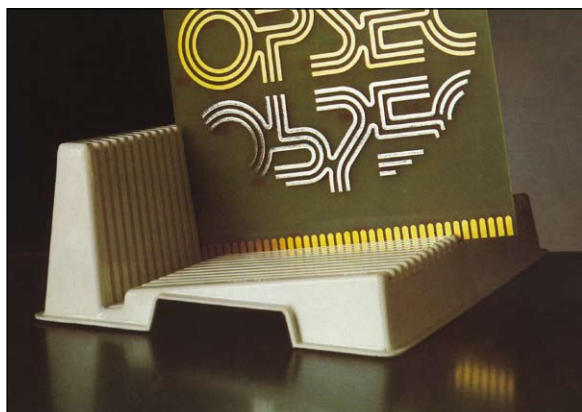
PTFE Coil Heaters

Product	Size	Stock ref.
Panel 0.5kw (240v)	185mm x 210mm	4900
Panel 1kw (240v)	240mm x 250mm	4901
Panel 2kw (240v)	295mm x 315mm	4902
Panel 3kw (240v)	385mm x 395mm	4903

Other sizes are available upon request plus PTFE cylindrical heaters.

Board Racks

Product	Model and max. temperature	Max. board size	No of boards	Pack size	Stock ref.
PCB/H	White polypropylene (90°C)	220mm x 300mm	25	24	3040S
PCB/2L	White polypropylene (90°C)	400mm x 300mm	25	14	3042L
PCB/2LHT	Grey / glass nylon (200°C)	400mm x 300mm	25	2	3043HT
PCBH/CON	Black conductive (90°C)	220mm x 300mm	25	24	3044SC
PCBH/2L/CON	Black conductive (90°C)	400mm x 300mm	25	14	3045LC



Plating Tapes and Masks

Gold Plating

Product	Size	Benefit	Stock ref.
9180	12mm x 66M	No creep or residue	9011
9180	25mm x 66M	No creep or residue	9031
9180	50mm x 66M	No creep or residue	9051

Fume Protection

Product	Size	Benefit	Stock ref.
2274	25mm x 100M	Low cost	9126
2274	50mm x 100M	Low cost	9151
2274	100mm x 100M	Low cost	9157
2274	150mm x 100M	Low cost	9159
2274	300mm x 100M	Low cost	9158

Hot Air Levelling Tape

Product	Size	Benefit	Stock ref.
CM8R	12mm x 33M	No lifting	9166
CM8R	19mm x 33M	No lifting	9168
CM8R	25mm x 33M	No lifting	9167

Registration Film

Product	Size	Benefit	Stock ref.
Clear low tack film (for print alignment)	300mm x 100M	Low cost - No residue	9410

Available in larger sizes.

Hole Plugs

Silicone rubber.

Product	Size	Stock ref.
1302	1.6 - 4.8mm	4030
1303	2.3 - 6.3mm	4031

Release Films and Press Pads

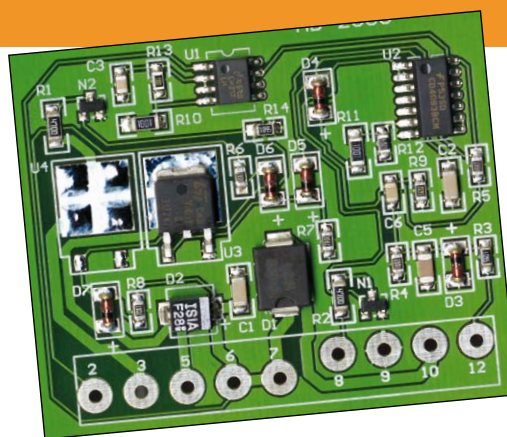
Multilayer release films, press pads, copper foils and special materials for bonding.

Product	Application and type	Size	Stock ref.
UTF 100	Release film - 25µ	To order	-
ViaPad 500	Cellulose/cotton pads 1.0mm 500gr/m2	To order	-
DAF	Conformable film for flexibles 200/300µ	To order	-

Fluxes

The BLT range of fluxes enables assemblers to achieve defect free soldering without solvent or aqueous cleaning.

Many of the fluxes are compatible with Lead Free Solders and board finishes such as Silver, Nickel/Gold, Tin and OSP.



No Clean, Rosin Free Fluxes

Product	Type	Specification	Pack size	Stock ref.
BLT 35-90	Rosin free No Clean 2.0% solids	Bellcore TR-NWT 000078	4 x 5 litre 10 litre 25 litre 200 litre	B3590/4X5 B3590A B3590D B3590B
BLT 35-90TX	Rosin free No Clean 2.5% solids, higher activity	Bellcore TR-NWT 000078	4 x 5 litre 10 litre 25 litre 200 litre	B3590TX/4X5 B3590TXA B3590TXD B3590TXB
BLT 35-92	Rosin free No Clean 3.0% solids, suitable for Lead Free applications	Bellcore TR-NWT 000078	4 x 5 litre 10 litre 25 litre 200 litre	B3592/4X5 B3592A B3592D B3592B

No Clean, Rosin Free Fluxes - (continued)

Product	Type	Specification	Pack size	Stock ref.
BLT 35-92-35	Rosin free No Clean 4.0% solids, higher activity for Lead Free applications	Bellcore TR-NWT 000078	4 x 5 litre 10 litre 25 litre 200 litre	B3592/35/4X5 B3592/35A B3592/35D B3592/35B
Thinners	For all fluxes	-	25 litre	23590T
16 - 3000	No Clean Rosin free		200 litre	23590TP

No Clean, Rosin Fluxes

Product	Type	Specification	Pack size	Stock ref.
BLT 35-41	No Clean 1.5% Rosin, 4.0% solids, excellent for Lead Free applications	Bellcore TR-NWT 000078	4 x 5 litre 10 litre 25 litre 200 litre	B3541/4X5 B3541A B3541D B3541B
Thinners 16 - 3000	For all No Clean Rosin fluxes	-	10 litre 25 litre 200 litre	23590TA 23590T 23590TP

VOC Free Fluxes

Product	Type	Specification	Pack size	Stock ref.
BLT 10-75-30	VOC free 4.0% solids, excellent for Lead Free applications	Bellcore TR-NWT 000078	10 litre 25 litre	B1075/30/A B1075/30D
BLT 10-75-30-R	VOC free 4.5% solids, higher activity for Lead Free applications	Bellcore TR-NWT 000078	10 litre 25 litre	B1075A B1075D
BLT 10-75-40	VOC free 4.5% solids, increased activation for Lead Free applications	Bellcore TR-NWT 000078	10 litre 25 litre	B1075/40A B1075/40D

Water Soluble Fluxes

Product	Type	Pack size	Stock ref.
BLT 10-95-WS	Organic, pH neutral, water soluble flux. 14% solids, suitable for Lead Free applications	4 x 5 litre 25 litre	B1095/4X5 B1095D
Thinner 16-3000	For all No Clean fluxes	10 litre 25 litre 200 litre	23590T 23590TD 23590B
Hydrometers	Syphon hydrometer kit with 0.80-0.85 hydrometer	Unit	4580

Solder Pastes, Stencil Cleaners and Wipes**Lead Free Solder Pastes - RoHS Compliant**

Product	Type	Tack Time	Pack size	Stock ref.
AIM NC254 Fine Pitch No Clean	Modified RMA 96.5% Sn, 3.0% Ag, 0.5% Cu, 11.5% flux	24 hours	0.5 kilo pot 0.6 kilo cartridge	7273 7273C
AIM NC257 Fine Pitch No Clean	Modified RMA 96.5% Sn, 3.0% Ag, 0.5% Cu, 11.0% flux T4 powder	24 hours	0.5 kilo pot 0.6 kilo cartridge	7257 7257C
LFS 219 Fine Pitch No Clean	Modified RMA 96.5% Sn, 3.0% Ag, 0.5% Cu, 10.5% flux	24 hours	0.5 kilo pot 0.5 kilo Semco	7265 7265/C

Lead Free Solder Pastes - RoHS Compliant - (continued)

Product	Type	Tack Time	Pack size	Stock ref.
LFS 218 Fine Pitch No Clean	Modified RMA 95.5% Sn, 3.8% Ag, 0.7% Cu, 11.5% flux	24 hours	0.5 kilo pot 0.5 kilo Semco	7268 7268C
LFS/WS 217 Fine Pitch Water Soluble	OA activated, 95.5% Sn, 3.8% Ag, 0.7% Cu, 11.5% flux	24 hours	0.5 kilo pot 0.5 kilo Semco	7270 7270C

Leaded Solder Pastes

Product	Type	Tack Time	Pack size	Stock ref.
NCS 900 Fine Pitch, No Clean	Modified RMA 62% Sn, 36% Pb, 2% Ag, 9.5% flux	72 hours	0.5 kilo pot 0.5 kilo Semco 1.0 kilo Semco 35g syringe	7279 7279/C 7279/K 7278SY3
AIM NC254 Fine Pitch No Clean	Modified RMA 62% Sn, 36% Pb, 2% Ag, 10.0% flux	24 hours	0.5 kilo pot 0.6 kilo cartridge	7280 7280C
WS160 Fine Pitch, Water Soluble	Modified RMA 62% Sn, 36% Pb, 2% Ag, 9.5% flux	24 hours	0.5 kilo pot	7295/500

Adhesives

Product	Type	Application	Pack size	Stock ref.
Permacol 2035Z-30G	SMT adhesive	Stencil print	330gr syringe	7135/330
2035Z-5R	SMT adhesive	High speed dispensing	330gr syringe 25gr syringe	7135/5R 7135/5RFU

Stencil Cleaners

Product	Flash point	Application	Pack size	Stock ref.
SCS/1	12°C	Hand application - paste and flux	12 x 1 litre spray 4 x 5 litre 25 litre	7051S 7051B 7051D
SCS/2	32°C	Hand application and automatic machines - paste, flux and adhesives	1 x 10 litre 4 x 5 litre 1 x 25 litre 12 x 1 litre	7052A 7052B 7052D 7052S
SCS/3	40°C	Automatic machines - paste and flux	4 x 5 litre 25 litre	7053B 7053D
SCS/4	40°C	Hand application and automatic machines - paste and flux	12 x 1 litre spray 4 x 5 litre 25 litre	7053S 7053B 7053D
SCS/7	40°C	Hand application and automatic machines - paste, flux and adhesives	10 litre 25 litre	7057A 7057D
SCS/10	40°C	Hand application and automatic machines - paste, flux and adhesives	10 litre 25 litre	7010 70100D
SCS/11	40°C	Hand application and automatic machines - paste, flux and adhesives	10 litre 25 litre	7011A 7011D
SCS/12	40°C	Hand application and automatic machines - paste, flux and adhesives	10 litre 25 litre	7012A 7012D

Stencil Wipes

Product	Sheet/Roll size	Application	Pack size	Stock ref.
General Purpose Stencil Dry Wipes	230 x 230mm	All stencil cleaning	100	7061
Dry Wipes	200 x 230mm	All stencil cleaning	85 per tub	7060

Stencil Wipes - (continued)

Product	Sheet/Roll size	Application	Pack size	Stock ref.
IPA Wipes	200 x 230mm	All stencil cleaning	85 per tub	7062
SCS/1 Wipes	200 x 230mm	All stencil cleaning	85 per tub	7063
Under Stencil Wiping Rolls 265/530/68	530mm x 9M	DEK265GS/129051	Roll	7065
Under Stencil Wiping 265/400/41	400mm 12M	DEK	Roll	7023
Under Stencil Wiping Rolls 445/457/41	445mm 17M	MPM	Roll	7074
Under Stencil Wiping Rolls 410/410/41	410mm 12M	SM Tech	Roll	7041
Under Stencil Wiping 265/400/41	400mm 12M	DEK	Roll	7023
Under Stencil Wiping Rolls 445/457/41	445mm 17M	MPM	Roll	7074
Under Stencil Wiping Rolls 410/410/41	410mm 12M	SM Tech	Roll	7041

Stencil and Misprint Cleaning Systems**Stencil Cleaning Systems**

Highly efficient, economical units for the removal of solder paste and alu from stencil frames and screens.

Product	Description	Stock ref.
VSCM/1	Vertical immersion systems for frames and foils up to 580mm x 740mm	5501
VSCM/2	Vertical immersion systems for frames and foils up to 740mm x 740mm	5502

Misprint Cleaning Systems

Rapidly and effectively removes solder paste, adhesives and flux residues. Modular polypropylene construction.

Product	Size and description	Stock ref.
MCS/V	Board sizes up to 455 x 305mm - single vertical	5600
MCS/H	Board sizes up to 455 x 305mm - single horizontal	5601
MCS/V/TC	Board sizes up to 455 x 305mm - single vertical with heater and digital controller	5602
MCS/V/R	Board sizes up to 455 x 305mm - single vertical rinse	5603
MCS/2V	Board sizes up to 455 x 305mm - single vertical	5604
DT/S	Polypropylene drip tray - single vertical	5610
DT/D	Polypropylene drip tray - double	5620



Solder Wires



Lead Free No Clean - RoHS Compliant

Product	Flux Base and Content	Alloy	Size	Stock ref.
AIM GLOWCORE TSC	Rosin 2.5%, halide free	96.5% Sn, 3.0% Ag, 0.5% Cu	0.4 x 250g	24LF/04
			0.5 x 500g	24LF/05
			0.8 x 500g	24LF/08
			1.25 x 500g	24LF/125
S45V TSC	No rosin 1.3%, non halide	95.5% Sn, 3.8% Ag, 0.7% Cu	0.5 x 500g	29LFNR/05
			0.7 x 500g	29LFNR/07
			1.2 x 500g	29LFNR/12
S45V TC	No rosin 1.3%, non halide	99.3% Sn, 0.7% Cu	0.5 x 500g	29LFNR05
			0.7 x 500g	29LFNR07
			1.2 x 500g	29LFNR12
FXN TC	Rosin 1.4%, non halide 5 core	99.3% Sn, 0.7% Cu	0.35 x 500g	29LFFXN035
			0.5 x 500g	29LFFXN05
			0.7 x 500g	29LFFXN07
			1.2 x 500g	29LFFXN12
CMA2 TSC	Rosin 2.2%, 0.41% halide	96.5% Sn, 3.0% Ag, 0.5% Cu	0.5 x 500g	29LFR/05
			0.7 x 500g	29LFR/07
			1.2 x 500g	29LFR/12
CMA2 TC	Rosin 2.2%, 0.41% halide	99.3% Sn, 0.7% Cu	0.5 x 500g	29LFR05
			0.7 x 500g	29LFR07
			1.2 x 500g	29LFR12
HSIOT TSC	Rosin 2.5%, 0.9% halide	95.5% Sn, 3.8% Ag, 0.7% Cu	0.5 x 500g	29LFHS/05
			0.7 x 500g	29LFHS/07
			1.2 x 500g	29LFHS/12
HSIO TC	Rosin 2.5%, 0.9% halide	99.3% Sn, 0.7% Cu	0.5 x 500g	29LFHS05
			0.7 x 500g	29LFHS07
			1.2 x 500g	29LFHS12

Leaded No Clean

Product	Flux Base and Content	Alloy	Core size	Pack size	Stock ref.
FXM1B	Rosin; 0.9%	60/40 Sn/Pb	0.5mm	0.5 kg	280505NC
			0.7mm	0.5 kg	280705NC
			0.8mm	0.5 kg	280805NC
			1.0mm	0.5 kg	281005NC
			1.2mm	0.5 kg	281205NC
			1.2mm	3.0 kg	281230NC
FXM1D	Rosin; 1.4%	60/40 Sn/Pb	0.5mm	0.5 kg	260505NC
			0.7mm	0.5 kg	260905NC
FM5	Rosin, 2.2% RMA Class II, 5 core (0.35mm single core)	60/40 Sn/Pb	0.35mm	100 g	250301NC
			0.7mm	0.5 kg	250705NC
			1.0mm	0.5 kg	251005NC
			1.2mm	0.5 kg	251205NC
			1.2mm	3.0 kg	251230NC
FXM1 Silver	Rosin, 0.7%	62 Sn, 36 Pb, 2 Ag	0.5mm	0.5 kg	240505NC
			0.7mm	0.5 kg	240705NC

Leaded No Clean - (continued)

Product	Flux Base and Content	Alloy	Core size	Pack size	Stock ref.
S45V	Synthetic, Non Rosin 1.2%	60/40 Sn/Pb	0.5mm	500g	29NR0505
			0.7mm	500g	29NR0705
			1.2mm	500g	29NR1205
362	Rosin, 3.0%, 0.4% halide 5 core	60/40 Sn/Pb	0.46mm	250g	270405NC
			0.56mm	500g	270505NC
			0.7mm	500g	270705NC
			1.2mm	500g	271205NC
HF32	Resin, 3.5% non halide	62 Sn, 36 Pb, 2 Ag	0.23mm	250g	270605NC
X39B	Rosin, 1.0% non halide	96/40 Sn/Pb	0.46mm	250g	27X39B04
			0.7mm	500g	27X39B07

Flux Pens and Re-work Paste

Product	Rating	Benefits	Pack size	Stock ref.
Kwik Flux Pen	For hand rework	No residue	1	23590P
AIM Flux Paste NC254	For hand rework	Slow evaporating, easy syringe application	30g	2359/254
AIM Flux Paste NC293	For hand rework	For lead free and tin/lead	4 fl. oz. pot	2359/293
Refillable Flux Pens	For hand rework		1	Fine tip 2359FI Medium tip 2359ME Coarse tip 2359LA

Solder and Ancillaries**Lead Free Solder - RoHS Compliant**

Product	Alloy	Form	Size	Stock ref.
SAC/P/03/07	99.0% Sn, 0.3% Ag, 0.7% Cu	Ingot	25 x 1 kilo	4651
		Feeder bar	Nom. 3.5 kilo	4651F
		Nuggets	25 kilo	4651N
Typical analysis	Tin - 98.97%		Cadmium - <0.001%	
	Silver - 0.3%		Iron - <0.001%	
	Copper - 0.7%		Lead - <0.015%	
	Arsenic - 0.001%		Antimony - <0.02%	
	Gold - 0.001%		Aluminium - <0.0005%	
	Bismuth - <0.01%			
SAC/P/03 Replenisher	-	Ingot	1 kilo	4651PR
		Nugget	5 kilo	4651PRN
SAC/P/03 Tin/Silver Replenisher	99.7% Sn, 0.3% Ag	Ingot	25 x 1 kilo	4651TS
		Nugget	25 kilo	4651TSN
AIM SAC/P/3.8/07	95.5% Sn, 3.8% Ag, 0.7% Cu	Ingot	25 x 1 kilo	4653
		Feeder bar	Nom. 3.5 kilo	4653F
		Nugget	25 kilo	4653N
AIM SAC/P/3.8 Tin/Silver Replenisher	96.2% Sn, 3.8% Ag	Ingot	25 x 1 kilo	4653TS
		Feeder bar	Nom. 3.5 kilo	4653TSF
		Nugget	25 kilo	4653TSN

Leaded Solder - BLT "Nitro-Flo"

Product	Alloy	Form	Size	Stock ref.
BLT "Nitro-Flo" high purity solder	63/37	Ingot and feeder bars	25 x 1 kilo Nom. 3.5 kilo feeders	4631 4631F
Typical analysis	Tin	- 62.97%	Aluminium	- <0.0005%
	Antimony	- <0.02%	Cadmium	- <0.0002%
	Copper	- <0.005%	Sulphur	- <0.0001%
	Iron	- <0.002%	Nickel	- <5ppm
	Bismuth	- <0.01%	Cobalt	- <5ppm
	Arsenic	- <0.001%	Silver	- <5ppm
	Zinc	- <0.0002%	Lead	- Balance

Polyimide Tape and Dots - silicone adhesive

Product	Size	Quantity ref.	Stock ref.
Tape	6mm x 33M	Roll	9180
	12mm x 33M	Roll	9181
	19mm x 33M	Roll	9187
	25mm x 33M	Roll	9182
Dots	6mm	1,000 dots	9186CC
	9mm	1,000 dots	9190CC
	12mm	1,000 dots	9192CC
	16mm	1,000 dots	9196CC

Other sizes and pre-forms available. Non-silicone adhesive available.

De-soldering Braid

Product	Size	Stock ref.
1814	0.8mm x 10ft roll	7057
1815	1.5mm x 10ft roll	7057/1.5
1818	3.7mm x 25ft roll	7059

Other sizes available.

Temporary Soldermasks

Product	Application	Size	Stock ref.
Wondermask 'P'	Peelable	8 oz bottle	7058
Wondermask 'W'	Water soluble	8 oz bottle	7055
ACC 13	Peelable	250ml bottle	7058AC

Conformal Coatings

Product	Description	Application	Pack size	Stock ref.
ACC Acrylic	Meets MIL - I-46058C	Spray dip or brush	400ml aerosol 5 litre	4420 4420A
ACC Acrylic Thinner	For use with ACC Acrylic	-	5 litre	4420B

Saponifiers

Product	Application	Benefits	Pack size	Stock ref.
1985	Immersion	Concentrated	25 litre	19850D
1990	Spray	Low foaming	25 litre	19900D
Circuit Wash 2000	Immersion	Excellent compatibility with board materials	25 litre	19800D
Circuit Wash Spray	Spray equipment	Excellent compatibility with board materials - minimal foam	25 litre	19810D
Aqua Safe Super	Spray or immersion	Concentrated, inhibited	25 litre	19840D
Aqua Safe Super RTU	Spray or immersion	Stabilised ready for use	25 litre	19830D

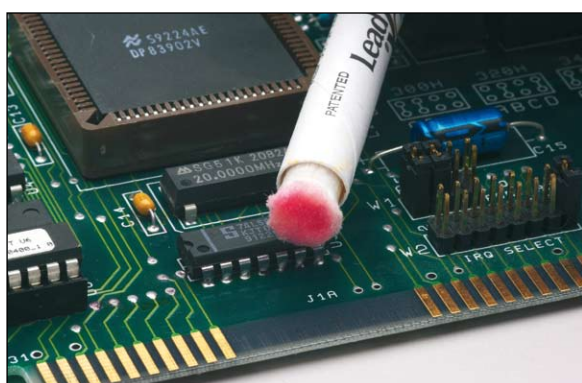
Dross Oil

Product	Application	Benefits	Pack size	Stock ref.
BLT BB4	Dross oil for all wave solder machines	Excellent thermal stability	25 litre	20012D

Lead Testing for RoHS Compliance

BLT supply a range of products for use on electronic assemblies to test for the presence of Lead, Cadmium, Mercury, Chromate and Nickel to monitor RoHS compliance.

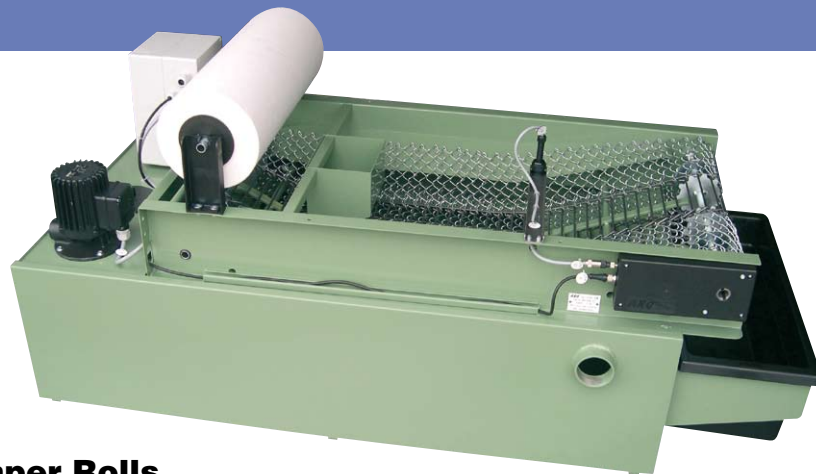
Product	Application	Pack size	Stock ref.
Lead Check Swabs	Lead in solder on circuit boards	16 swabs	4610
Lead Check Circuit Board Kit	Lead in solder and components	24 swabs kit	4620
Cadmium Check Swabs	Cadmium in solder and components	8 swabs	4612
Mercury Check Swabs	Mercury in solder and components	8 swabs	4616
Chromate Swabs	Chromate in solder and components	8 swabs	4618
Nickel Swabs	Nickel in solder and components	8 swabs	4614



Aerosols

Product	Application	Benefits	Pack size	Stock ref.
BLT Flux Remover	Removal of flux residues from circuit boards	Rapid, no residue	400ml	4433
BLT Antistatic Foam Cleaner	Removal of organic contaminants for circuits and equipment	No residue	400ml	4440
ACC Acrylic Conformal Coating	Meets MIL - I-46058C	No Aromatic solvents	400ml	4420

Filters



Aro Band Filters and Paper Rolls

Aro Band Filters, fully automatic, low maintenance filters for copper removal from brush scrubbing machines and solids removal from waste water.

Model	Max flow rate	Overall dimensions	Stock ref.
P480/1000E2	50 litre/min	1.5M x 0.62M x 0.56M High	5480
P750/1000E2	100 litre/min	1.5M x 0.90M x 0.61M High	5482
P750/1250E2	120 litre/min	1.74M x 0.90M x 0.61M High	5484
P750/1500E2	150 litre/min	1.99M x 0.90M x 0.61M High	5486
P1000/1500E2	180 litre/min	1.99M x 1.13M x 0.61M High	5488

Filter Paper

Width	Length	Micron rating	Stock ref.
480mm	100M	5	4705F1
480mm	150M	10	4710F1
480mm	200M	15	4715F2
480mm	200M	20	4720F2
480mm	300M	28	4728F3
750mm	100M	10	4710S1
750mm	200M	15	4715S2
750mm	200M	20	4720S2
750mm	200M	28	4728S2
1000mm	100M	10	4710H1
1000mm	200M	15	4715H2
1000mm	200M	20	4720H2
1000mm	400M	20	4720H4
1000mm	500M	28	4728H5

Larger sizes available on request.

Cartridge Filters

Model	Cartridge size	Pump size	Material	Stock ref.
FP/10/1500	Single 10"	1500 litre/hour	PVC	5010
CFP/10/1500	Single 10" candle type	1500 litre/hour	PVC/polypropylene	5010C
CFP/30/2800	30" candle type	2500 litre/hour	PVC/polypropylene	5030C

Polypropylene Filter Cartridges

Type	Size	Micron rating	Stock ref.
Wound	10"	0.5	4151HAL
Wound	10"	1.0	4151ONE
Wound	10"	5.0	4151FI
Wound	10"	10.0	4151TE
Wound	10"	25.0	4151TW
Wound	10"	50.0	4151FIF
Wound	20"	1.0	4162ONE
Wound	20"	5.0	4162AS
Wound	20"	10.0	4162TE
Wound	30"	1.0	4153ONE
Wound	30"	5.0	4153FI
Wound	30"	10.0	4163FI
Carbon	10"	10.0	4151TC



Filter Heads and Bags

Polypropylene filter heads with camlock fittings

Size	Camlock diameter	Stock ref.
178mm	1.5"	8501

Polypropylene Bags (to fit 178mm filter head)

Length	Micron rating	Stock ref.
16"	10	4216
16"	25	4217
16"	100	4218
30"	1	4200
30"	5	4310
30"	10	4220
30"	25	4230
30"	50	4250
30"	100	4300

pH Control and Effluent Treatment

BLT design and manufacture Effluent Treatment Systems either as a total package to treat all trade effluent from the Printed Circuit Manufacturing process or as separate units to treat waste from specific areas.

Plants comprise a combination of pH control, metal precipitation, electrolytic metal recovery, settlement and filtration.

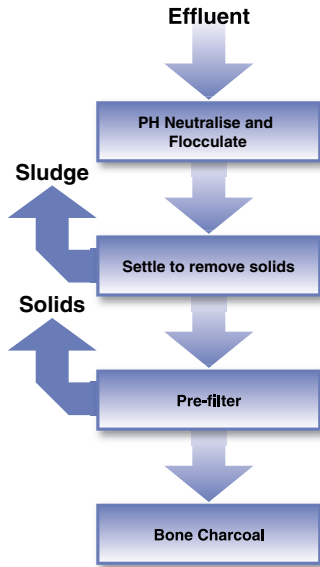


Bone Charcoal metal removal

BLT design and manufacture heavy metal removal systems using specially prepared Bone Charcoal as a highly efficient final effluent polishing process to ensure Discharge Consent levels are met. The tanks are fabricated in various sizes to suit customer requirements.

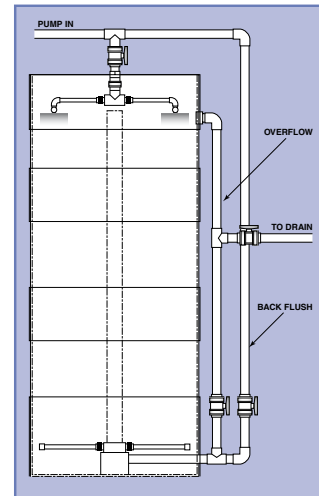
Application

Following is a typical layout for treatment of heavy metal bearing water from an electroplating operation.



Effluent Treatment Systems

BLT manufacture full effluent treatment systems to suit customers' process requirements and have developed a vessel design to maximise the efficiency of the Bone Charcoal media.



Flocculants

Product	Description	Application	Pack size	Stock ref.
ANF 30	Anionic liquid concentrate	Hydroxide settlement	25 litre	2040
M25	Cationic liquid concentrate	Metal coagulation	25 litre	2030
PAC	Aluminium Chloride	Coagulation and Settlement	25 litre	2028

For details of complex breakers see under 'Chemical Precipitation' on page 31.

Tanks

BLT manufacture chemical storage and effluent processing tanks, up to a maximum capacity of 10m³. Tanks are manufactured from black polypropylene to customers individual requirements. BLT also supply a full range of chemical dosing tanks as described under "Dosing Pumps and Tanks", on page 17.

Retec Cells and Copper Recovery

BLT offer a range of Retec Cells to recover copper and other heavy metals from rinse water and spent solutions.



Retec Cells

Product	Number of cathodes & rectifier size	Capacity at 100% efficiency	Voltage	Application	Stock ref.
Retec 02	2 cathodes 10 amp rectifier	Gold 73gr/hour Silver 40gr/hour Copper 12gr/hour	240V	Gold/Silver Nickel/Copper	5002
Retec 6	6 cathodes 100 amp rectifier	Copper 0.12K/hour Nickel 0.10K/hour	240V	Copper, Nickel, Zinc	5006
Retec 15	15 cathodes 250 amp rectifier	Copper 0.30K/hour Nickel 0.27K/hour	240V or 440V	Copper, Nickel, Zinc	5015
Retec 25	25 cathodes 500 amp rectifier	Copper 0.6K/hour	440V	Copper, Nickel, Zinc	5025
Retec 50	50 cathodes 750 or 100 amp rectifier	Copper 1.19K/hour	440V	Copper, Nickel, Zinc	5050

Spare Parts

Product	Description	Stock ref.
Copper Cathodes	for Retec 6, 15, 25, 50	4006
Nickel Cathodes	for Retec 6, 15, 25, 50	4007
Anodes	for Retec 6, 15, 25, 50	4009

Chemical Precipitation

BLT manufacture a range of complex breakers, chemicals and flocculants that can be used with auto-dosing to precipitate complexed heavy metals.

Product	Description	Application	Pack size	Stock ref.
MP15	Organic, complex breaker	Removal of copper from E.D.T.A. and other complexes	25 litre	2020
M25	Cationic flocculant for use with MP15	Removal of copper from E.D.T.A. and other complexes	25 litre	2030
ION Control Unit	Specific ion meter and electrode system	Auto-dosing of MP15. Pumps sized to suit application	N/A	5100

Water De-ionisers and Reverse Osmosis



Water De-ionisers

Product	Flow Rate	Capacity between regeneration based on 100ppm total Anion as CaCO ₃ in raw water	Regenerant quantity	Overall dimensions	Stock ref.
Duo Eclipse 150	100-1,500 litre/hr	12,000 litre	HCL (32%) 10 litre NaOH (30%) 10 litre	0.67M x 0.87M x 1.5M tall	-
Duo Eclipse 300	500-3,000 litre/hr	40,000 litre	HCL (32%) 24 litre NaOH (30%) 24 litre	0.67M x 1.07M x 1.97M tall	-

Returnable mixed bed de-ionising cylinders producing up to 4.7m³/hr also available

Reverse Osmosis

Product	Flow rate	Capacity	Stock ref.
Merlin RO Unit	Up to 2 litres/minute	Membrane life up to 1 year	-





QUALITY SYSTEM CERTIFICATE

This is to Certify that the Quality Management System of

BLT CIRCUIT SERVICES LTD
Brome Industrial Estate
Brome
Eye
Suffolk IP23 7HN

has been assessed by Sira Certification Service
and found to comply with

ISO 9001:2000
for the

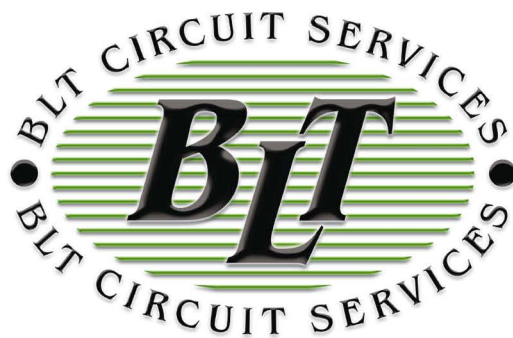
Manufacture, stock, supply and distribution of chemicals
and allied products for use in the electronics industry

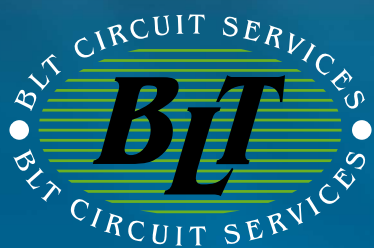
Certificate No. 145
Date of Issue: September 2002
Date of Issuance: 27/09/02
Renewal Date: 27/09/05



Ian D. KWA
Chief Executive

This system to the required standards, which
the Sira Certification Mark are subject to





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