

# CATALOGO MARTIN 2012

CODICE	PRODOTTO		
	<b>1. REWORK Technique</b>		
	<b>1.1 EXPERT 10.6 - Systems</b>		
DB00.1066	EXPERT-10.6-HXV	EXPERT 10.6-HXV^ for very large pcbs, automatic placement	1
DB00.1065	EXPERT-10.6-HV	EXPERT 10.6-HV^ Chip, QFP, BGA, CSP, QFN, auto placement	1
DB00.1067	EXPERT-10.6-HS	EXPERT 10.6-HS^ Chip, QFP, BGA, CSP, QFN, man. placement	1
DB00.1068	EXPERT-10.6-IV	EXPERT 10.6-IV^ for mobile phones, automatic placement	1
DB00.1069	EXPERT-10.6-IS	EXPERT 10.6-IS^ for mobile phones, manual placement	1
	<b>1. REWORK Technique</b>		
	<b>1.2 EXPERT 10.6 - Options</b>		
SF66.0004	MIKRO-SMD-ERG 4	Micro SMD nozzles and lens for AVP 4 licence MS, 3 n, 3 solder n, lens FC	1
SF66.0002	MIKRO-SMD-ERG 4XL	Micro SMD nozzles and lens for AVP 4XL licence MS, 3 n, 3 solder n, lens FC	1
SF66.0110	OBJEKTIV M-BGA AVP4	Lens Maxi BGA for AVP4/4XL, f=16mm, 65*85mm	1
DVSX.0007	REPORT ES	Report with pcb identification for ES 05, licence RP	1
SF71.0001	SIDE CAMERA	Side Camera for ES 05, camera, stand, cable, DVD	1
DB00.0025	STICKSTOFF-ANSCH DBL	Nitrogen input for DBL 04/05/06 (2.p.r) reduces consumption of N2 for vacuum	1
SF36.1001	LEITERPLATTEN-FLE-10	PCB flex support 40.5 for HIF 08 and IRF, "10 pin"	1
SF36.1002	LEITERPLATTEN-FLE-12	PCB flex support 40.5 for HIF 09, "12 pin"	1
SF03.0009	LEITERPLATTEN-KH40	PCB clamping holder 40.5 for mobil phone pcbs on HB05/IR/IRD/IRH/IRF	1
SF03.0019	LEITERPLATTEN-KH40	PCB clamping holder 40.5 with 3 fingers for mobil phone pcbs on HB05/IR/IRD/IRH/IRF	1
SF04.0020	LEITERPLATTEN-KH55	PCB clamping holder 55.5 with 3 fingers adjustable =>69.5, for HB 03/04, HF 04/05/06	1
HT00.0001	HEIßGAS-TEMPERATUR-M	Hot Air Temperature Meter HTM 06 measuring range up to 600°C	1
	<b>1. REWORK Technique</b>		
	<b>1.3 EXPERT 04.6 - Systems</b>		
HA00.4085	EXPERT-04.6-IXH	EXPERT 04.6-IXH^ Chip, QFP, BGA, CSP, QFN, reballing	1
HA00.4080	EXPERT-04.6-IH	EXPERT 04.6-IH^ Chip, QFP, CSP, QFN, for mobile phones...	1
HA00.4075	EXPERT-04.6-NN	EXPERT 04.6-NN^	1
	<b>1. REWORK Technique</b>		
	<b>1.4 EXPERT 04.6 - Options</b>		
HA00.4011	VAC-MODUL HOT-AIR	Vac module for Hot Air 04/05 pen, stand, basic equipment vac/dis	1
HA00.4018	VAC-MODUL HOT-AIR	Vac module for Hot Air 04/05 NN pen, stand, basic equipment vac/dis	1
HA00.4015	VAC-PLUS-MODUL HOT-AIR	Vac module (high condensed) for Hot Air 04/05	1

HJ00.1011	SAUG-ANSCHLUß HJ	Vacuum connection at solder pen for HA 05NN, soldering tools with vacuum	1
HJ01.0004	VAKUUM-SCHALTER HJ	Vacuum switch for HA05NN solder vacuum <=> vacuum pen	1
HA00.4025	STICKSTOFF-ANSCH HA	Nitrogen input for Hot Air 04/05 reduces consumption of N2 for vacuum	1
SB04.1002	IRH-STRAHLER DBL05	IRH radiation element - 110 Watt 65*80 mm for DBL/HA 05/06	1
HF00.0100	LÖT-ARM	Solder arm CSP/BGA for HJ 05/HA 05NN for Handy Fix 03	1
SF42.0001	POSITIONIER-ARM SHP	Positioning arm SHP (xyzd-axis) Single Head Placer, 3 nozzles+Star Tool	1
PD91.0001	FUßTASTER CD/HA/DBL	Foot switch for CD/HA/DBL... function start button	1
HF00.0002	HANDY-FIX-02	Handy Fix 02 PCB support 170*230mm, 3 magnet ho.	1
HF00.0003	HANDY-FIX-03	Handy Fix 03 PCB support 280*380mm, 4 magnet ho. 55.5	1
HF00.0004	HANDY-FIX-03.1	Handy Fix 03.1 PCB support 280*380mm, 4 magnet ho. 40.5	1
HF00.0016	HANDY-FIX-06	Handy Fix 06 height adjustable PCB support 280*380mm, 4 magnet ho.	1
HF00.0018	HANDY-FIX-06 GRUNDPL	Handy Fix 06 base plate only 280*380mm	1
HF00.0005	HANDAUFLAGE HF	Support for hand for Handy Fix	1
VD90.4001	MIKROSKOP	Microscope with arm and illumination 5x - 22x (zoom 4.4), 46 - 10mm, 150mm	1
HASX.0006	EASY-SOLDER 05ECO	Easy Solder 05 eco CD, cable, manuel	1
HASX.0008	REPORT ES-05 ECO	Report for ES-05 eco licence RP	1
HASX.0009	UPGRADE SS - ES ECO	Upgrade Solder Star --> Easy Solder 05 eco	1
<b>1. REWORK Technique</b>			
<b>1.5 EXPERT MiniOven - Systems</b>			
HB00.0034	EXPERT MINIOVEN-04 N	EXPERT MiniOven 04 N^ Basic Unit f. Reballing and QFN Prebumping	1
HB00.0033	EXPERT MINIOVEN-04 S	EXPERT MiniOven 04 S^ Basic Unit f. Reballing and QFN Prebumping incl.	1
<b>1. REWORK Technique</b>			
<b>1.6 EXPERT MiniOven - Options</b>			
LW50.9001	REBALL-04 SET	Reball-04 Set eco standard	1
LW50.9002	REBALL-04 SET PS3	Reball-04 Set PS 3 (RSX, CELL Version 1+2)	1
SF29.0002	PREBUMB-04 SET	Prebump-04 Set QFN	1
LW40.0235	HALTER BGA 45*45	Reballing Fixture BGA 45*45mm Standard	1
LW40.0236	HALTER BGA 45*45	Reballing fixture BGA 45*45mm 4 Downholder Clips	1
LW40.0237	HALTER BGA 45*45 PS3	Reballing fixture BGA 45*45mm 4 clips and support grid (to be used for PS3)	1
LW40.0250	HALTER CSP-BASIS	Reballing Fixture CSP 27*27mm Standard	1
<b>1. REWORK Technique</b>			
<b>1.7 Hot-Beam - Systems</b>			
HB00.0021	HOT-BEAM-09 230V	Underheater Hot Beam 09 5000 W 230 V 4 magnet holder, 2 sensor	1

HB00.0020	HOT-BEAM-08 230V	Underheater Hot Beam 08 3000 W 230 V 4 magnet holder, 2 sensor	1
HB00.0015	HOT-BEAM-05 230V	Underheater Hot Beam 05 - 2000 W 230 V 185*245 mm, 4 pcb holder+rail, t, sensor	1
HB00.0016	HOT-BEAM-05 115V	Underheater Hot Beam 05 - 2000 W 115 V 185*245 mm, 4 pcb holder+rail, t, sensor	1
HB00.0007	HOT-BEAM-04	Underheater Hot Beam 04 - 500 Watt 114*130 mm, 2 pcb supp., tape, sensor	1
HB00.0040	HOT-PLATE-04	Underheater Hot Plate 04 125*115 mm, 700 Watt	1
<b>REWORK Technique</b>			
<b>1.8 Hot Beam - Options</b>			
HBSX.1002	EASY-BEAM-04 TRANSFE	Easy Beam 04 Transfer licence from HBO4/05 to pc, DVD, cable	1
HB00.0014	HANDY-FIX-04	Handy Fix 04 PCB support for Hot Beam 03/04	1
<b>2. Dispense Technique</b>			
<b>2.1 Dot Liner - Systems</b>			
PD00.0064	DOT-LINER-06.6	Dot Liner 06.6^ for solder paste+adhesives with 5ccm dispensing head	1
PD00.0065	REWORK-DISPER-05.6	Rework Dispense 05.6^ QFP, BGA, CSP, QFN prebumping	1
<b>2. Dispense Technique</b>			
<b>2.2 Dot Liner - Options</b>			
PD50.0002	GRUNDAUSSTATTUNG DL	Starter Kit Dot Liner for solder paste applications	1
PD50.0003	GRUNDAUSSTATTUNG DL	Starter Kit Dot Liner for adhesives applications	1
DK00.0055	DOSIER-KOPF-HS 03	Dispensing head HS 3ccm* with heating, for automation	1
DK00.0052	DOSIER-KOPF-HS 05	Dispensing head HS 5ccm* with heating, for automation	1
DK00.0053	DOSIER-KOPF-HS 10	Dispensing head HS 10ccm* with heating, for automation	1
DK00.0054	DOSIER-KOPF-HS 30	Dispensing head HS 30ccm* with heating, for automation	1
DK00.0030	HÖHENSENSOR FÜR DK	Hight sensor for dispensing head HS dispensing w/o spacer, incl. spacer "0.0"	1
DK02.0002	KARTUSCHEN-KÜHL-MODU 05	Cooling Module 5ccm for DL / CD, 10 °C cooling power	1
DK02.0003	KARTUSCHEN-KÜHL-MODU 10	Cooling Module 10ccm for DL / CD, 10 °C cooling power	1
HT00.0054	DOT-LINER HUBVERLÄNG	Enlargement for Dot Liner z lift 120mm instead of 32mm	1
SF74.0004	TRANSFERPLATTE QFN-P	Transfer plate for QFN Prebumping for DL / RD, patented	3
HV00.0013	CAMDESIGNER PRO	CamDesigner professional for Dot Liner, DVD, manual	1
HVSX.4005	EXTERNSTEUERUNG ED	External control for Easy Dispense automation,proc. CDP...-A,eprom	1
HT00.0002	KVM-03	Adhesive Volume Meter KVM 03 measuring range 0,01-3,0cmm	1
<b>2. Dispense Technique</b>			
<b>2.3 Clever Dispense - Systems</b>			
CD00.0002	CLEVER-DISPENSE-04 5	Clever Dispense 04* foot switch, pen 5ccm, stand	1
CD00.0003	CLEVER-DISPENSE-0410	Clever Dispense 04* foot switch, pen 10ccm, stand	1
CD00.0004	CLEVER-DISPENSE-0430	Clever Dispense 04* foot switch, pen 30ccm, stand	1

CD00.2202	CLEVER-DISPENSE-04K	Clever Dispense 04 with head HS* for 5ccm, with heating	1
CD00.2203	CLEVER-DISPENSE-04K	Clever Dispense 04 with head HS* for 10ccm, with heating	1
CD00.2204	CLEVER-DISPENSE-04K	Clever Dispense 04 with head HS* for 30ccm, with heating	1
CD00.0102	CLEVER-DISPENSE-05 5	Clever Dispense 05 auto vacuum* foot switch, pen 5ccm, stand	1
CD00.0103	CLEVER-DISPENSE-0510	Clever Dispense 05 auto vacuum* foot switch, pen 10ccm, stand	1
CD00.0104	CLEVER-DISPENSE-0530	Clever Dispense 05 auto vacuum* foot switch, pen 30ccm, stand	1
CD00.2302	CLEVER-DISPENSE-05K	Clever Dispense 05 with head HS* auto vacuum, for 5ccm, with heating	1
CD00.2303	CLEVER-DISPENSE-05K	Clever Dispense 05 with head HS* auto vacuum, for 10ccm, with heating	1
CD00.2304	CLEVER-DISPENSE-05K	Clever Dispense 05 with head HS* auto vacuum, for 30ccm, with heating	1
<b>2. Dispense Technique</b>			
<b>2.4 Clever Dispense - Options</b>			
CD00.0111	DOPPELTES PN-MODUL	Double pneumatic module CD 04/05 for XL cartridges (EURO...)	1
CD00.0110	VAKUUM-MODUL CD	Auto vacuum module for CD 04 for thin fluids	1
PD80.1001	DOSIER-GRIFFEL 03CCM	Dispensing pen 3ccm for EB/PD/CD/SD02	1
PD80.1002	DOSIER-GRIFFEL 05CCM	Dispensing pen 5ccm for EB/PD/CD/SD02	1
PD80.1003	DOSIER-GRIFFEL 10CCM	Dispensing pen 10ccm for EB/PD/CD/SD02	1
PD80.1004	DOSIER-GRIFFEL 30CCM	Dispensing pen 30ccm for EB/PD/CD/SD02	1
CVSX.4003	EXTERNSTEUERUNG CD	External control for Clever Dispense 04/05 proc. CDP...-E, eprom, cable, Martin DVD	1
<b>4. CONSUMABLES</b>			
<b>4.1 Solder paste</b>			
VD90.0230	LOTPASTE-PRINT 4 BLE	Solder paste print 5ccm finepitch 4 lead free Sn96.5Ag3Cu, ROL0, 20-38µm	1
VD90.0020	LOTPASTE 3 5CCM	Solder paste 5ccm finepitch 3 Sn62Pb36Ag2, ROL0, 25-45µm, n=>0.3/0.4*	1
VD90.0223	LOTPASTE 3 5CCM BF	Solder paste 5ccm finepitch 3 lead free Sn96.5Ag3Cu, REL1, 25-45µm, n=>0.3/0.4*	1
VD90.0035	LOTPASTE 5 5CCM	Solder paste 5ccm super finepitch 5 Sn62Pb36Ag2, ROL1, 15-25µm, n=>0.2*	1
VD90.0225	LOTPASTE 5 5CCM BF	Solder paste 5ccm super finep. 5 lead free Sn96,5Ag3Cu, REL1, 15-25µm, n=>0.2*	1
VD90.0115	LOTPASTE 6 5CCM	Solder paste 5ccm super finepitch 6 Sn62Pb36Ag, ROL1, 5-15µm, n=>0.14/0.17*	1
VD90.0226	LOTPASTE 6 5CCM BF	Solder paste 5ccm super finep. 6 lead free Sn96.5Ag3Cu, REL1, 5-15µm, n=>0.14/0.17*	1
<b>4. CONSUMABLES</b>			
<b>4.2 Solder balls</b>			
VD90.5005	LOTKUGELN 300µM 50	Solder balls, 50,000 pc, CSP Sn63Pb37, 300µm (= 6g)	1
VD90.5105	LOTKUGELN 300µM B 50	Solder balls, 50,000 pc, leadfree CSP Sn96.5Ag3Cu0.5 300µm (=5.2g)	1
VD90.5011	LOTKUGELN 300µM C 50	Solder balls, 50,000 pc, CCSP Sn10Pb90, 300µm (= 7.6g)	1
VD90.5115	LOTKUGELN 350µM B 50	Solder balls, 50,000 pc, leadfree CSP Sn96.5Ag3Cu0.5 , 350µm (=7.5g)	1

VD90.5008	LOTKUGELN 400µM 50	Solder balls, 50,000 pc, CSP Sn63Pb37, 400µm (= 14g)	1
VD90.5108	LOTKUGELN 400µM B 50	Solder balls, 50,000 pc, leadfree CSP Sn96.5Ag3Cu0.5 , 400µm (=12.5g)	1
VD90.5013	LOTKUGELN 400µM C 50	Solder balls, 50,000 pc, CCSP Sn10Pb90, 400µm (= 18g)	1
VD90.5010	LOTKUGELN 450µM 50	Solder balls, 50,000 pc, CSP Sn63Pb37, 450µm (= 20g)	1
VD90.5110	LOTKUGELN 450µM B 50	Solder balls, 50,000 pc, lead free CSP Sn96,.5Ag3Cu0.5 , 450µm (=18g)	1
VD90.5009	LOTKUGELN 500µM 50	Solder balls, 50,000 pc, CSP Sn63Pb37, 500µm (= 27g)	1
VD90.5109	LOTKUGELN 500µM B 50	Solder balls, 50,000 pc, leadfree CSP Sn96.5Ag3Cu0.5 , 500µm (=24g)	1
VD90.5006	LOTKUGELN 600µM 50	Solder balls, 50,000 pc, BGA Sn63Pb37, 600µm (= 47g)	1
VD90.5106	LOTKUGELN 600µM B 50	Solder balls, 50,000 pc, leadfree BGA Sn96.5Ag3Cu0.5 , 600µm (=42g)	1
VD90.5101	LOTKUGELN 762µM B 50	Solder balls, 50,000 pc, leadfree BGA Sn96.5Ag3Cu0.5, 762µm (=86g)	1
VD90.5001	LOTKUGELN 762µM 50	Solder balls, 50,000 pc, BGA Sn63Pb37, 762µm (= 96g)	1
VD90.5002	LOTKUGELN 889µM C 50	Solder balls, 50,000 pc, CBGA Sn10Pb90, 889µm (= 197g)	1

#### 4. CONSUMABLES

##### 4.3 Flux / Glues

HT00.0016	FLUX CREME 5CCM	Flux Creme 5ccm (appr. 5g), F-SW33, no clean, 0305 MA	1
HT00.0116	FLUX CREME 5CCM B	Flux Creme lead free 5ccm (appr. 5g), 0506 MA, no clean, RELO	1
HT00.0119	FLUX CREME 18G B	Flux Creme lead free 18g 0506 MA, no clean, RELO, with brush	1
HT00.0017	FLUX CREME 100G	Flux Creme 100g 0305 MA, no clean, ISO 9454-1, 1.2.3.C	1
HT00.0117	FLUX CREME 100G B	Flux Creme lead free 100g 0506 MA, no clean, RELO	1
HT00.0020	PINSEL FÜR FLUX CREM	Brush for Flux Creme	10
HT00.0010	FLUX PEN	Flux Pen F-SW34, no clean, L3*	1
HT00.0009	FLUX PEN LF	Flux Pen lead free 0405 C, no clean, RELO*	1
HT00.0019	CLEAN PEN	Clean Pen for pads and IR glass with 3 spare erasers	1
VD90.1009	SMD-KLEBSTOFF	SMD Adhesive 5 ccm, D 125 F-DR	1
VD90.0153	REINIGUNGS-SPRAY FLU	Spray for cleaning flux	1

#### 4. CONSUMABLES

##### 4.4 Dispensing nozzles

HT00.8008	DOSIER-DÜSE MI 0,14	Micro disp. nozzle 0.14 / 0.07 S for pitch 0.3 - 0.6 mm	1
HT00.8108	DOSIER-DÜSE E,14/,07	Replacement nozzle 0.14mm / 0.07 S for micro dispense nozzle	1
HT00.8009	DOSIER-DÜSE MI 0,17	Micro disp. nozzle 0.17 / 0.08 S für paste 6, pitch 0.4 - 0.8 mm	1
HT00.8109	DOSIER-DÜSE E,17/,08	Replacement nozzle 0.17mm / 0.08 S for micro dispense nozzle	1
HT00.8004	DOSIER-DÜSE MI0,17/0	Micro disp. nozzle 0.17 S / 0.0 HS w/o DH, for paste 6, pitch 0.4 - 0.8 mm	1

HT00.8114	DOSIER-DÜSE E,17/0,0	Replacement nozzle 0.17mm S / 0.0 HS for micro dispense nozzle	1
HT00.8006	DOSIER-DÜSE MI 0,3/0	Micro disp. nozzle 0.3 / 0.0 HS w/o DH, for paste 3, pitch 0.6 mm	1
HT00.8106	DOSIER-DÜSE E0,3/0,0	Replacement nozzle 0.3mm / 0.0 HS special, for micro dispense nozzle	1
HT00.8013	DOSIER-DÜSE ME 0,16	Metal dispensing nozzle 0,16 AH for paste 6, pitch 0.4 - 0.8	1
HT00.8010	DOSIER-DÜSE ME 0,2	Metal dispensing nozzle 0,2 AH for paste 5, pitch 0.5 - 1.0 mm	1
HT00.8011	DOSIER-DÜSE ME 0,3	Metal dispensing nozzle 0.3 AH for paste 3, pitch 0.6 - 1.5	1
HT00.8012	DOSIER-DÜSE ME 0,4	Metal dispensing nozzle 0,4 AH for paste 3, pitch 0.8 - 2.5	1
HT00.8014	DOSIER-DÜSE ME 0,6	Metal dispensing nozzle 0.6 AH for pitch 1.0 - 2.5	1
HT00.9010	ABSTANDSHALTER 0,10	Spacer 0.10mm for nozzle 0.2mm	1
HT00.9011	ABSTANDSHALTER 0,13	Spacer 0.13mm for nozzle 0.3mm	1
HT00.9012	ABSTANDSHALTER 0,25	Spacer 0.25mm for nozzle 0.3 / 0.4 / 0.6mm	1
HT00.9009	ABSTANDSHALTER 0,0	Spacer "0.0" for metal nozzles (from 0.2mm)	1
HT00.9021	ABSTANDSHALTER SP C	Spacer pliers lines type C for needles 0.3 - 0.8mm, 3 rings	1
HT00.9022	ABSTANDSHALTER SP B	Spacer pliers lines type B for needles 0.9 - 1.5mm, 2 rings	1
HT00.9023	ABSTANDSHALTER SP A	Spacer pliers lines type A for needles 1.6 - 2.2mm, 1 ring	1
HT00.9007	ABSTANDSHALTER 0,0/3	Spacer "0,0" lines type 3 for needles/plastic nozzles max 2.50mm	1
VD90.0007	DOSIER-DÜSE 0,25	Dispensing nozzle 0,25 mm red, 1.25"	50
VD90.0003	DOSIER-DÜSE 0,41	Dispensing nozzle 0.41 mm blue, 1.25"	50
VD90.0004	DOSIER-DÜSE 0,58	Dispensing nozzle 0.58 mm pink, 1.25"	50
VD90.0005	DOSIER-DÜSE 0,84	Dispensing nozzle 0.84mm green, 1.25"	50
VD90.0006	DOSIER-DÜSE 1,19	Dispensing nozzle 1.19 mm black, 1.25"	50
VD90.0010	DOSIER-DÜSE 1,60	Dispensing nozzle 1.60 mm white, 1.25"	50
PD00.8013	REINIGUNGS-NADELN	Needles for cleaning of metal nozzles 0.17;0.2;0.3	10
PD00.8014	REINIGUNGS-SET	Cleaning set f. metal nozzles tool, bottle, spray	1
PD00.8015	REINIGUNGS-SET LUFTF	Cleaning set f. metal nozzles (airfreight)* tool, bottle, adaptor for spray	1
VD90.0152	REINIGUNGS-SPRAY DÜS	Spray for cleaning nozzles + flux with luerlock, patent: DE29902046.0	1
HT00.0021	REINIGUNGS-SPRAY-ADA	Adaptor for cleaning spray MCC-FRC* with luerlock, patent: DE29902046.0	3
HT00.0030	REINIGUNGS-TÜCHER	Cleaning fabric 15*15cm for pcbs	50
<b>4. CONSUMABLES</b>			
<b>4.5 Dispensing needles</b>			
VD90.0021	DOSIER-NADEL 0,15	Dispensing needle 0.15 mm lavender, steel, 1/2"	50

VD90.0032	DOSIER-NADEL 0,20	Dispensing needle 0.20 mm grey, steel, 1/2"	50
VD90.0022	DOSIER-NADEL 0,25	Dispensing needle 0.25 mm red, steel, 1/2"	50
VD90.0023	DOSIER-NADEL 0,33	Dispensing needle 0.33 mm orange, steel, 1/2"	50
VD90.0024	DOSIER-NADEL 0,41	Dispensing needle 0.41 mm blue, steel, 1/2"	50
VD90.0025	DOSIER-NADEL 0,51	Dispensing needle 0.51 mm purple, steel, 1/2"	50
VD90.0026	DOSIER-NADEL 0,58	Dispensing needle 0.58 mm pink, steel, 1/2"	50
VD90.0033	DOSIER-NADEL 0,69	Dispensing needle 0.69 mm light green, steel, 1/2"	50
VD90.0027	DOSIER-NADEL 0,84	Dispensing needle 0.84 mm dark green, steel, 1/2"	50
VD90.0034	DOSIER-NADEL 1,19	Dispensing needle 1.19 mm black, steel, 1/2"	50
VD90.0028	DOSIER-NADEL 1,32	Dispensing needle 1.32 mm amber, steel, 1/2"	50
VD90.0029	DOSIER-NADEL 1,60	Dispensing needle 1.60 mm white, steel, 1/2"	50
VD90.0039	DOSIER-NADELN-SET	Dispensing needles/nozzles set 10 pices each 18 types, box	1
<b>4. CONSUMABLES</b>			
<b>4.6 Cartridges</b>			
VD90.0008	KARTUSCHE 3CCM	Cartridge 3ccm polypropylen, standard	50
VD90.0055	KARTUSCHE 3CCM SW	Cartridge 3ccm black polypropylen, standard	50
VD90.0001	KARTUSCHE 5CCM	Cartridge 5ccm polypropylen, standard	40
VD90.0052	KARTUSCHE 5CCM SW	Cartridge 5ccm black polypropylen, standard	40
VD90.0012	KARTUSCHE 10CCM	Cartridge 10ccm polypropylen, standard	30
VD90.0053	KARTUSCHE 10CCM SW	Cartridge 10ccm black polypropylen, standard	30
VD90.0013	KARTUSCHE 30CCM	Cartridge 30ccm polypropylen, standard	20
VD90.0054	KARTUSCHE 30CCM SW	Cartridge 30ccm black polypropylen, standard	20
VD90.0036	KARTUSCHEN-STOPF 3	Cartridge stuff 3ccm blue, flat	50
VD90.0017	KARTUSCHEN-STOPF 5	Cartridge stuff 5ccm blue, flat	40
VD90.0018	KARTUSCHEN-STOPF 10	Cartridge stuff 10ccm blue, flat	30
VD90.0019	KARTUSCHEN-STOPF 30	Cartridge stuff 30ccm blue, flat	20
VD90.0042	KARTUSCHEN-STOPF D3	Cartridge stuff 3ccm grey, double lip	50
VD90.0043	KARTUSCHEN-STOPF D5	Cartridge stuff 5ccm grey, double lip	40
VD90.0044	KARTUSCHEN-STOPF D10	Cartridge stuff 10ccm grey, double lip	30
VD90.0045	KARTUSCHEN-STOPF D30	Cartridge stuff 30ccm grey, double lip	20
VD90.0046	KARTUSCHEN-VERS O 3	Cartridge fastener 3ccm upside	50

VD90.0047	KARTUSCHEN-VERS O 5	Cartridge fastener 5ccm upside	40
VD90.0048	KARTUSCHEN-VERS O 10	Cartridge fastener 10ccm upside	30
VD90.0049	KARTUSCHEN-VERS O 30	Cartridge fastener 30ccm upside	20
VD90.0002	KARTUSCHEN-VERS N	Cartridge fastener side of needle	50
VD90.0051	KARTUSCHEN-DRÜCKER 5	Cartridge pusher 5ccm manual piston for dispensing	6
<b>4. CONSUMABLES</b>			
<b>4.7 Material for training</b>			
VD90.3005	TRAININGS-LEITERP B	PCB "MARTIN" for training lead free multilayer	1
VD90.3006	TRAININGS-SET	Trainings Set: 3*pcb, 4*BGA, 4*CSP 4*QFN, 10*SO, 20*1206, fp, fc, sp, br	1
<b>5. SPARE PARTS / PARS TO WEAR</b>			
<b>5.1 Spare parts - Rework Technic</b>			
DB15.0008	BESTÜCK-PIPETTE 0,25	SMD placement nozzle, 0,25 mm for 0201 etc	1
DB15.0010	BESTÜCK-PIPETTE 0,5	SMD placement nozzle, 0,5 mm for 0402 etc	1
DB15.0012	BESTÜCK-PIPETTE 0,7	Placement nozzle 0,7 mm	1
DB15.0013	BESTÜCK-PIPETTE 1,5	Placement nozzle 1,5 mm	1
DB15.0016	BESTÜCK-PIPETTE 4,5	SMD placement nozzle 4.5 mm with rubber for CSP	1
DB15.0014	BESTÜCK-PIPETTE 6,3	SMD placement nozzle, 6,3 mm with rubber for SO, PLCC, QFP	1
HJ00.1015	SAUGER 5	Vacuum sucker 5 mm for soldering tools with vacuum	3
HJ00.1016	SAUGER 6	Vacuum sucker 6 mm for soldering tools with vacuum	3
LW40.0005	BESTÜCK-PIPETTE 5	SMD placement nozzle 5 mm for small SO, QFP(SHP arm)	1
LW40.0006	BESTÜCK-PIPETTE 7,5	SMD placement nozzle 7.5 mm for big SO, PLCC, QFP (SHP arm)	1
LW40.0003	BESTÜCK-PIPETTE 4,5	SMD placement nozzle 4.5 mm for very small SO, QFP and DHP arm	1
LW40.0002	BESTÜCK-PIPETTE 8,5	SMD placement nozzle 8.5 mm for SO, PLCC, QFP and DHP arm	1
LW40.0040	BESTÜCK-PIPETTE SHP	Placement nozzle Star Tool for CSP/QFN and SHP	1
LW40.0041	BESTÜCK-PIPETTE SHP	Placement nozzle Star Tool 5mm for BGA >= 15mm and SHP	1
LW40.0042	BESTÜCK-PIPETTE SHP	Placement nozzle Star Tool 10mm for BGA >= 20mm and SHP	1
LW40.0043	BESTÜCK-PIPETTE SHP	Placement nozzle Star Tool 10mm with rubber for BGA >= 20mm and SHP	1
DV15.0002	REINIGER FÜR ALTLOTP	Cleaner desoldering nozzle 1.4 / 1.0 standard type with glas tube	3
DV15.0020	GLASROHR FÜR ALTLOTP	Glas tube desoldering nozzle 1.4 / 1.0 standard type	3
DB50.0001	LÖT-DÜSE 2 MM	Soldering nozzle 2 mm	1
DB50.0002	LÖT-DÜSE 3	Soldering nozzle 3 mm	1
DB50.0003	LÖT-DÜSE 4	Soldering nozzle 4 mm	1

DB50.0004	LÖT-DÜSE 7	Soldering nozzle 7 mm conical	1
DB50.0020	LÖT-SAUG-DÜSE 7/0,7	Soldering nozzle with vacuum 7 / 0.7mm	1
DB50.0021	LÖT-SAUG-DÜSE 7/1,1	Soldering nozzle with vacuum 7 / 1.1mm	1
DB50.0022	LÖT-SAUG-DÜSE 7/1,7	Soldering nozzle with vacuum 7 / 1.7mm	1
DB15.0001	BESTÜCK-GRIFFEL HA	Vacuum pen for HA/DBL	1
SF01.0100	LEITERPLATTEN-KLAMME	PCB clip for large pcbs onto IRF handrest	1
SF03.0004	LEITERPLATTEN-MH40	PCB magnet holder 40.5 for IR/IRD/IRH/IRF and DL/RD	1
SF03.0014	LEITERPLATTEN-MH40EL	PCB magnet holder Easy Lock 40.5 (snap) for IR/IRD/IRH/IRF radiation element	1
SF03.0002	LEITERPLATTEN-MH55	PCB magnet holder 55.5 for Hot Beam 03, Handy Fix	1
SF03.0012	LEITERPLATTEN-MH55EL	PCB magnet holder Easy Lock 55.5 (snap) for Hot Beam 03/04, Handy Fix	1
SF03.0005	LEITERPLATTEN-MH55	PCB magnet holder 55.5 adjustable =>69.5, for HB 03/04, HF 04/05/06	1
SF03.0020	FINGER FÜR LP-K-H	Finger for PCB clamping holder	1
SF30.0002	LEITERPLATTEN-UNTERS	PCB support 13.7 for IRK radiation element / Hot Beam 03	6
SF30.0001	LEITERPLATTEN-UNTERS	PCB support 40.5 for IRF04/05, pcb=1.5mm	6
SF30.0003	LEITERPLATTEN-UNTERS	PCB support 40.5 for IRF04/05, pcb=3mm	6
SF30.0004	LEITERPLATTEN-UNTERS	PCB support 40.5 for IRF02/06/07, pcb=1.5mm	1
SF30.0005	LEITERPLATTEN-UNTERS	PCB support 40.5 for IRF02/06/07, pcb=3mm	1
VD90.3010	SMD-HAKEN	SMD pick (hook) for reballing	1
LW10.0003	SMD ÜBERGABE-WER	SMD transportation device for positioning arm	1
SF64.0087	BESTÜCK-PIPETTE AVP3	Placement nozzle µSMD 0.5mm for AVP3/4	1
SF64.0098	BESTÜCK-PIPETTE AVP3	Placement nozzle µSMD 1.0mm for AVP3/4	1
SF64.0099	BESTÜCK-PIPETTE AVP3	Placement nozzle µSMD 2.0mm for AVP3/4	1
SF64.0088	BESTÜCK-PIPETTE AVP3	Placement nozzle CSP 3*3mm for AVP3/4	1
SF64.0089	BESTÜCK-PIPETTE AVP3	Placement nozzle CSP 5*5mm for AVP3/4	1
SF64.0086	BESTÜCK-PIPETTE AVP3	Placement nozzle CSP 8*8mm for AVP3/4	1
SF64.0102	BESTÜCK-PIPETTE AVP3	Placement nozzle BGA/QFP 10*10mm for AVP3/4	1
SF64.0106	BESTÜCK-PIPETTE AVP3	Placement nozzle BGA/QFP 10*10mm with o ring, for AVP3/4	1
SF64.0104	BESTÜCK-PIPETTE AVP3	Placement nozzle BGA/QFP 10*10mm with folding rubber 6.5mm, for AVP3/4	1
SF64.0103	BESTÜCK-PIPETTE AVP3	Placement nozzle BGA/QFP 15*15mm 6.5mm higher, with o ring, for AVP3/4	1
SF64.0107	BESTÜCK-PIPETTE BGA/QFP	Placement nozzle BGA/QFP 15mm with suction cup, for AVP3/4	1

SF66.0087	BESTÜCK-PIPETTE AVP4	Placement nozzle $\mu$ SMD 0.5mm for AVP4XL	1
SF66.0098	BESTÜCK-PIPETTE AVP4	Placement nozzle $\mu$ SMD 1.0mm for AVP4XL	1
SF66.0099	BESTÜCK-PIPETTE AVP4	Placement nozzle $\mu$ SMD 2.0mm for AVP4XL	1
SF66.0088	BESTÜCK-PIPETTE AVP4	Placement nozzle CSP 3*3mm for AVP4XL	1
SF66.0089	BESTÜCK-PIPETTE AVP4	Placement nozzle CSP 5*5mm for AVP4XL	1
SF66.0086	BESTÜCK-PIPETTE AVP4	Placement nozzle CSP 8*8mm for AVP4XL	1
SF66.0102	BESTÜCK-PIPETTE AVP4	Placement nozzle BGA/QFP 10*10mm for AVP4XL	1
SF66.0106	BESTÜCK-PIPETTE AVP4	Placement nozzle BGA/QFP 10*10mm with o ring, for AVP4XL	1
SF66.0104	BESTÜCK-PIPETTE AVP4	Placement nozzle BGA/QFP 10*10mm with folding rubber 6.5mm, for AVP4XL	1
SF66.0103	BESTÜCK-PIPETTE AVP4	Placement nozzle BGA/QFP 15mm 6.5mm higher, with o ring, for AVP4XL	1
SF66.0107	BESTÜCK-PIPETTE AVP4	Placement nozzle BGA/QFP 15mm with suction cup, for AVP3/4XL	1
SF64.0251	BESTÜCK-PIPETTE ASP3	Placement nozzle Star Tool for CSP/QFN and ASP3/4	1
SF64.0252	BESTÜCK-PIPETTE ASP3	Placement nozzle Star Tool 5mm for BGA $\geq$ 15mm and ASP3/4	1
SF64.0253	BESTÜCK-PIPETTE ASP3	Placement nozzle Star Tool 10mm for BGA $\geq$ 20mm and ASP3/4	1
<b>5. SPARE PARTS / PARTS TO WEAR</b>			
<b>5.2 Spare parts - Dispense Technic</b>			
PD80.2001	DOSIER-GRIFFEL-AN 03	Dispensing pen connector 3ccm for EB/PD/CD/SD02	1
PD80.2002	DOSIER-GRIFFEL-AN 05	Dispensing pen connector 5ccm for EB/PD/CD/SD02	1
PD80.2003	DOSIER-GRIFFEL-AN 10	Dispensing pen connector 10ccm for EB/PD/CD/SD02	1
PD80.2004	DOSIER-GRIFFEL-AN 30	Dispensing pen connector 30ccm for EB/PD/CD/SD02	1
SF74.0002	LEITERPLATTEN-MH38	PCB magnet holder 38.5 old type, for Dot Liner, Rework Dispenser	1
<b>5. SPARE PARTS / PARTS TO WEAR</b>			
<b>5.3 Parts subject to wear - Rework Technic</b>			
VD90.1604	AUSTAUSCH LÖTGRIFFEL	Exchange of solder pen 7 plugs less than 1 year old	1
VD90.1605	AUSTAUSCH LÖTGRIFFEL	Exchange of solder pen 7 plugs less than 2 years old	1
EB16.0002	LÖTGRIFFEL 7 POL D20	Soldering pen with 7 pin plug	1
HT00.0013	SENSOR K-TYP	Sensor for temperature for HTM/DBL/HA/HB/IRF, K type, 2 pin, 1.3 m	1
DV15.0010	ALTLOT-PIPETTE1,4 KO	Solder sucker nozzle 1.4 mm, complete standard type	1
DV15.0014	ALTLOT-PIPETTE1,0 KO	Solder sucker nozzle 1.0 mm, complete for $\mu$ SMD/CSP/QFP	1
DV15.0017	ALTLOT-PIPETTE0,5 KO	Solder sucker nozzle 0.5 mm, complete for $\mu$ SMD/CSP/QFP	1
DV15.0011	ALTLOT-PIPETTE 1,4	Solder Sucker nozzle 1.4 mm standard typ, only teflon tip	1
DV15.0015	ALTLOT-PIPETTE 1,0	Solder sucker nozzle 1.0mm for $\mu$ SMD/CSP/QFP, only teflon tip	1

DV15.0016	ALTLOT-PIPETTE 0,5	Solder sucker nozzle 0.5 mm for $\mu$ SMD/CSP/QFP, only teflon tip	1
DV15.0012	LOTABSCHIEDER	Solder separator for old solder standard type, 1.4 / 1.0 mm (with 5 masks)	20
DV15.0031	KÜHLER	Cooler for solder sucker nozzle	1
DV15.0030	FLUXABSSCHIEDER	Flux separator for cooler of solder sucker nozzle	40
DB15.0021	FEINFILTER FÜR SAUGG	Fine filter for vacuum pen	6
DB15.0023	DICHTRINGE	Seals / balls for vacuum pen and solder sucker n. (10+10+3+6+10)	1
EB02.0001	FEINFILTER FÜR DRUCK	Intake air filter for EB/HA/PD/CD/SD	3
EB02.0003	FEINFILTER FÜR DRUCK	Outtake vacuum filter for DBL/HA	3
SC00.0102	DICHTUNG HIF-09	Sealing cord for HIF08/09 5mm*1,45m	3
SC00.0100	LAMPE HIF-09	Lamp 625W / 200V for HIFradiator 09 for Smart Fix Compact 5000W / 230V	1
SC00.0101	LAMPE HIF-09 SENSOR	Lamp 625W / 200V for HIF09 with sensor for Smart Fix Compact 5000W / 230V	1
SC00.0103	LAMPE HIF-08	Lamp 625W / 200V for HIFradiator 08 for Smart Fix Compact 3000W / 230V	1
SC00.0104	LAMPE HIF-08 SENSOR	Lamp 625W / 200V for HIF08 with sensor for Smart Fix Compact 3000W / 230V	1
SF00.0035	LAMPE IRF-02/06 230	Lamp 1600W / 460V for IRF radiator 02/06 for Smart Fix IRF 2000/3000W / for 230V	1
SF00.0036	LAMPE IRF-02/06 115	Lamp 1600W / 230V for IRF radiator 02/06 for Smart Fix IRF 2000/3000W / for 115V	1
SF00.0023	LAMPE IRF-04	Lamp 1200W for IRF radiator 04 for Smart Fix IRF 2400W	1
SF00.0024	LAMPE IRF-05	Lamp 1300W for IRF radiator 05 for Smart Fix IRF 3000W	1
SF00.0029	LAMPE IRF-07	Lamp 2280W for IRF radiator 07 for Smart Fix IRF 4800W	1
IR00.0100	LAMPE HB/HR/IRK	Lamp for Hot Beam Hot Reball and IRK radiator	1
SB00.1001	LAMPE IRH	Lamp 250W / 24V for IRH radiator with connection cables	1
IR21.0005	LAMPE IR/IRD	Lamp IR/IRD radiator* for radiator type with 2 lamps	1
SF05.0002	LAMPE SMART-FIX	Lamp 12V / 5 Watt for lighting of Smart Fix / Hot-Air	3
HA00.0100	LÜFTER HOT-AIR-04 52	Ventilator for Hot Air 04, DBL-04 old type 52*52mm	1
HA00.0101	LÜFTER HOT-AIR-04 60	Ventilator for Hot Air 04/05/06, DBL-04/05/06 type 60*60mm	1
IR21.0004	LÜFTER IR-STRAHLER	Ventilator for IR/IRK radiator*	1
HB00.0100	LÜFTER HOT-BEAM-03	Ventilator for Hot Beam 03	1
SF00.0026	LÜFTER IRF-H-05/06/0	Ventilator for HIF/IRF handrest 05/06/07/08/09 type 60*60mm, and radiator IRF-02/06	1
SF00.0021	LÜFTER IRF-03	Ventilator for IRF Smart Fix handrest 03/04/05 and IRF radiator 03, old type 80*80	1
SF00.0022	LÜFTER IRF-04/05/06/	Ventilator for radiator HIF/IRF 04/05/07/08/09 type 80*80*25mm	1
SF00.0028	BUCHSE CEE IRF07	Socket CEE 32 A for HIF 08/09 / IRF 07 with hints	1

HT00.0061	BALLISTOL-ÖL	Ballistol oil for surface of Smart Fix	3
HT00.0062	KAPTON-TAPE 19	Kapton tape 19mm*5.5m	1
HT00.0064	KAPTON-TAPE 150	Kapton tape 150*300mm	6
SL00.0033	SERVICE-CHECK LÖTGRI	Service Check Solder Pen check and calibration, 12 monthly	1
SL00.0035	SERVICE-CHECK IR/IRD	Service Check IR/IRD/IRH radiation element incl. cleaning, test, 12 monthly	1
SL00.0031	SERVICE-CHECK DBL	Service Check DBL 04/05, HA 04/05/06 incl. parts subject to wear, 12 monthly	1
SL00.0030	SERVICE-CHECK AVP	Service Check AVP 02/03/04 arm incl. parts subject to wear, 12 monthly	1
SL00.0037	SERVICE-CHECK HB	Service Check Hot Beam 03/04, IRK incl. cleaning, update, test	1
SL00.0040	SERVICE-CHECK HR	Service Check Hot Reball 03/04 incl. cleaning, update, test	1
<b>5. SPARE PARTS / PARTS TO WEAR</b>			
<b>5.4 Parts subject to wear - Dispense Technic</b>			
PD00.0202	DICHTRING	Seal for dispensing pen 5 ccm	10
PD00.0203	DICHTRING	Seal for dispensing pen 10 ccm	10
PD00.0204	DICHTRING	Seal for dispensing pen 30 ccm	10
<b>6. SOLDERING TOOLS</b>			
<b>6.1 Packages</b>			
LW01.0400	SO SET BLEIFREI	Soldering tool set SO (lead free)* for all SO...SOL...TSOP, 4 pieces	1
LW01.0100	QFP SET	Soldering tool set QFP for all PLCC ...QFP, 7 pieces	1
LW01.0200	QFP SET 7 HJ	Soldering tool set with vacuum QFP 7 for Hot Jet 05, all PLCC ...QFP, 7 pieces	1
LW01.0199	QFP SET 4 HJ	Soldering tool set with vacuum QFP 4 for HA 05 NN, 4 pieces (15, 20, 25, 36)	1
LW40.1097	CSP LÖT-SET BLEIFREI	Soldering nozzle set CSP/QFN (lead free)* for all CSP types, 4 pieces (9, 11, 13, 16)	1
LW40.1099	BGA SET 7	Solder nozzle set BGA 7 ^ for all (98%) types of BGA, 7 pieces	1
LW40.1103	BGA SET 4	Solder nozzle set BGA 4 ^ 4 pieces (15, 27, 35, 40)	1
<b>6. SOLDERING TOOLS</b>			
<b>6.2 Soldering Tools - SO, PLCC, QFP, Sockets</b>			
DB82.0001	LÖT-DÜSE 24*2	Soldering nozzle 24x2 mm	1
LW38.0001	LÖT-DÜSE 26*5	Soldering nozzle 26x5 mm	1
LW01.0309	SO 09*09 BLEIFREI	Soldering tool SO 09*09mm (lead free)* for ...SO8, ...SO14	1
LW01.0315	SO 10*15 BLEIFREI	Soldering tool SO 10*15mm (lead free)* for ...SO16, ...SO20L	1
LW01.0322	SO 12*20 BLEIFREI	Soldering tool SO 12*20mm, sideways (lead free)* for Intel Flash ...	1
LW01.0320	SO 12*20 BLEIFREI	Soldering tool SO 12*20mm (lead free)* for ...SO20, ...TSOP40	1
LW01.0325	SO 15*25 BLEIFREI	Soldering tool SO 15*25mm (lead free)* for ...TSOP50...	1
LW01.0226	SO 15*25 VOLL GRID	Soldering tool SO 15*25mm full grid for T Top Module	1

LW45.0140	SO 6,5*53 STECKER	Soldering tool SO 6.5*53mm for socket FCI	1
LW45.0122	SO 7*21 STECKER	Soldering tool SO 7*21mm for socket Prodesign	1
LW45.0150	SO 7*38 STECKER	Soldering tool SO 7*38mm for socket FX8-100S-SV	1
LW45.0125	SO 7*41 STECKER	Soldering tool SO 7*41mm for socket Prodesign	1
LW01.0015	QFP 15*15	Soldering tool QFP 15*15mm for ...PLCC32, ...QFP48s	1
LW01.0482	QFP 17*54	Soldering tool QFP 17*54mm for QFP...	1
LW01.0020	QFP 20*20	Soldering tool QFP 20*20mm for ...PLCC44, ...QFP92	1
LW01.0026	QFP 20*26	Soldering tool QFP 20*26mm for ...FP100	1
LW01.0042	QFP 21*42 ABSCHIRMUN	Soldering tool QFP 21*42mm for shielding...	1
LW01.0481	QFP 23*26	Soldering tool QFP 23*26mm for QFP...	1
LW01.0025	QFP 25*25	Soldering tool QFP 25*25mm for ...PLCC68, ...QFP132	1
LW01.0480	QFP 28*66 MINI PCI	Soldering tool QFP 28*66mm for Mini PCI Socket...	1
LW01.0030	QFP 30*30	Soldering tool QFP 30*30mm for ...PLCC84, ...QFP208	1
LW01.0036	QFP 36*36	Soldering tool QFP 36*36mm for ...QFP240	1
LW01.0045	QFP 45*45	Soldering tool QFP 45*45mm for ...QFP308	1
LW01.0115	QFP 15*15 HJ	Soldering tool with vacuum QFP 15*15mm for HA05NN,HJ-05 ...PLCC32, ...QFP48s	1
LW01.0120	QFP 20*20 HJ	Soldering tool with vacuum QFP 20*20mm for HA 05NN,HJ 05, ...PLCC44, ...QFP92	1
LW01.0126	QFP 20*26 HJ	Soldering tool with vacuum QFP 20*26mm for HA 05NN,HJ 05, ...FP100	1
LW01.0125	QFP 25*25 HJ	Soldering tool with vacuum QFP 25*25mm for HA-05NN, HJ 05, ...PLCC68, ...QFP132	1
LW01.0130	QFP 30*30 HJ	Soldering tool with vacuum QFP 30*30mm for HA 05NN,HJ 05, ...PLCC84, ...QFP208	1
LW01.0136	QFP 36*36 HJ	Soldering tool with vacuum QFP 36*36mm for HA 05NN,HJ 05, ...QFP240	1
LW01.0145	QFP 45*45 HJ	Soldering tool with vacuum QFP 45*45mm for Hot Jet 05, ...QFP308	1
LW32.0001	PLCC20 SOC	Soldering tool PLCC20 socket	1
LW31.0001	PLCC28 SOC	Soldering tool PLCC28 socket square	1
LW33.0001	PLCC32 SOC	Soldering tool PLCC32 socket	1
LW30.0001	PLCC44 SOC	Soldering tool PLCC44 socket	1
LW26.0001	PLCC52 SOC	Soldering tool PLCC52 socket	1
LW34.0001	PLCC68 SOC	Soldering tool PLCC68 socket	1
LW35.0001	PLCC84 SOC	Soldering tool PLCC84 socket	1

## 6. SOLDERING TOOLS

### 6.3 Soldering Tools - CSP, QFN

LW40.0991	CSP 06*12	Solder nozzle CSP/QFN 06*12mm (lead free)* for CSPs and QFNs	1
LW40.0992	CSP 09*09	Solder nozzle CSP 09*09mm (lead free)* for CSPs and QFNs, with spring	1
LW40.0993	CSP 11*11	Solder nozzle CSP/QFN 11*11mm (lead free)* for CSPs and QFNs	1
LW40.0996	CSP 12*18	Solder nozzle CSP/QFN 12*18mm (lead free)* for CSPs and QFNs	1
LW40.0994	CSP 13*13	Solder nozzle CSP/QFN 13*13mm (lead free)* for CSPs and QFNs	1
LW40.0995	CSP 16*16	Solder nozzle CSP/QFN 16*16mm (lead free)* for CSPs and QFNs	1
<b>6. SOLDERING TOOLS</b>			
<b>6.4 Soldering Tools - BGA</b>			
LW40.1028	BGA 08*14 S	Solder nozzle BGA 08*14mm special for BGA...	1
LW40.1033	BGA 10*13	Solder nozzle BGA 10*13mm for BGA...	1
LW40.1063	BGA 14*22	Solder nozzle BGA 14*22mm for BGA...	1
LW40.1024	BGA 15*15	Solder nozzle BGA 15*15mm for BGA196...	1
LW40.1008	BGA 15*23	Solder nozzle BGA 15*23mm for BGA...	1
LW40.1068	BGA 15*24	Solder nozzle BGA 15*24mm for BGA...	1
LW40.1066	BGA 15*65	Solder nozzle BGA 15*65mm for BGA...	1
LW40.1025	BGA 16*16	Solder nozzle BGA 16*16mm for BGA257...	1
LW40.1065	BGA 16,5*22	Solder nozzle BGA 16.5*22mm for BGA...	1
LW40.1032	BGA 17*17	Solder nozzle BGA 17*17mm for BGA256M...	1
LW40.1017	BGA 19*19	Solder nozzle BGA 19*19mm for BGA324s	1
LW40.1018	BGA 21*21	Solder nozzle BGA 21*21mm for CBGA256...	1
LW40.1070	BGA 22*29	Solder nozzle BGA 22*29mm for BGA...	1
LW40.1059	BGA 22*32	Solder nozzle BGA 22*32mm for BGA...	1
LW40.1009	BGA 23*23	Solder nozzle BGA 23*23mm for BGA169/256f...	1
LW40.1019	BGA 25*25	Solder nozzle BGA 25*25mm for BGA357/625...	1
LW40.1064	BGA 25*32,5	Solder nozzle BGA 25*32.5mm for BGA...	1
LW40.1030	BGA 25*33	Solder nozzle BGA 25*33mm for BGA...	1
LW40.1062	BGA 25*40	Solder nozzle BGA 25*40mm for Siemens Modul	1
LW40.1011	BGA 27*27	Solder nozzle BGA 27*27mm for BGA225...	1
LW40.1022	BGA 27*31	Solder nozzle BGA 27*31mm for BGA400/841...	1
LW40.1076	BGA 28*65	Solder nozzle BGA 28*65mm for BGA...	1
LW40.1013	BGA 29*29	Solder nozzle BGA 29*29mm for BGA400/841...	1

LW40.1078	BGA 29*29	Solder nozzle BGA 29*29mm special for CBGA472, hight 5mm	1
LW40.1020	BGA 31*31	Solder nozzle BGA 31*31mm BGA329/529...	1
LW40.1027	BGA 31*35	Solder nozzle BGA 31*35mm for BGA...	1
LW40.1012	BGA 32*32	Solder nozzle BGA 32*32mm for BGA324...	1
LW40.1069	BGA 33*33	Solder nozzle BGA 33*33mm for BGA...	1
LW40.1072	BGA 33*33 S	Solder nozzle BGA 33*33mm special for Honewell sensor, hight 8mm	1
LW40.1029	BGA 33*43	Solder nozzle BGA 33*43mm for BGA...	1
LW40.1015	BGA 35*35	Solder nozzle BGA 35*35mm for BGA313/676...	1
LW40.1080	BGA 35*35 S	Solder nozzle BGA 35*35mm special for South Bridge	1
LW40.1060	BGA 37*53	Solder nozzle BGA 37*53mm for BGA...	1
LW40.1016	BGA 37,5*37,5	Solder nozzle BGA 37.5*37.5mm for BGA313s/841...	1
LW40.1067	BGA 37,5*40	Solder nozzle BGA 37.5*40mm for BGA...	1
LW40.1040	BGA 40*40	Solder nozzle BGA 40*40mm for BGA596/900...	1
LW40.1071	BGA 41*43	Solder nozzle BGA 41*43mm for BGA...	1
LW40.1061	BGA 41*57	Solder nozzle BGA 41*57mm for BGA...	1
LW40.1021	BGA 42,5*42,5	Solder nozzle BGA 42.5*42.5mm for BGA540s/1024	1
LW40.1081	BGA 45*65	Solder nozzle BGA 45*65mm for BGA...	1
LW40.1014	BGA 46*46	Solder nozzle BGA 46*46 for BGA540 /1024...	1
LW40.1079	BGA 55*55 S	Solder nozzle BGA 55*55mm special for CQ352, hight 10mm	1
LW45.0170	BGA LED 07,2*07,2	Solder nozzle BGA LED 07.2*07.2mm für LUXEON K2 LED	1
LW01.0108	BGA SOCKEL 08*22	Solder nozzle BGA socket 08*22mm for Samtec QFS/QMSS-026	1
LW01.0109	BGA SOCKEL 08*65	Solder nozzle BGA socket 08*65mm for Samtec QFS/QMSS-078	1
LW45.0172	BGA SOCKEL 10*13	Solder nozzle BGA socket 10*13mm for Molex Micro Fit (3,0)	1
LW40.1057	BGA SOCKEL 15*43	Solder nozzle BGA sockel 15*43mm for pentium 240	1
LW01.0105	BGA SOCKEL 16*28	Solder nozzle BGA socket 16*28mm	1
LW40.1034	BGA SOCKEL 16*66	Solder nozzle BGA socket 16*66mm	1
LW40.1058	BGA SOCKEL 17*56	Solder nozzle BGA socket 17*56mm for pentium 400	1
LW01.0102	BGA SOCKEL 17,5*32	Solder nozzle BGA socket 17.5*32mm for BGA 200 / FCI	1
LW01.0107	BGA SOCKEL 24*72	Solder nozzle BGA socket 24*72mm for BGA 351	1
LW40.1031	BGA SOCKEL 36*44	Solder nozzle BGA 36*44.5mm special for CPU socket..., hight 8mm	1

LW01.0103	BGA SOCKEL 41*47	Solder nozzle BGA socket 41*47mm for BGA 478b / 46*46mm	1
LW01.0110	BGA SOCKEL 43*47,7	Solder nozzle BGA socket 43*47.7mm für CPU 1156	1
LW01.0106	BGA SOCKEL 55*71	Solder nozzle BGA socket 55(63)*71mm für CPU 1207	1
LW01.0104	BGA SOCKEL 58*61	Solder nozzle BGA socket 58(40)*61(40)mm for CPU 775	1
LW40.1075	BGA STECKER 10*102	Solder nozzle BGA connector 10*102mm for QSE-060	1
LW40.1077	BGA STECKER 12*39,5	Solder nozzle BGA connector 12*39.5mm for Densi-Shield	1
LW40.1073	BGA STECKER 25*40	Solder nozzle BGA connector 25*40mm for ...	1
LW40.1074	BGA STECKER 25*70	Solder nozzle BGA connector 25*70mm for ...	1
<b>6. SOLDERING TOOLS</b>			
<b>6.4 Soldering Tools - Shildings</b>			
LW69.0004	S-RAHMEN 04,8*12,8	Solder nozzle shilding 04.8*12.8mm for Motorola V3 RAZR Crystal	1
LW41.0550	S-RAHMEN 07,0*24,0	Solder tool shilding 07.0*24.0mm for Nokia Connector 7*24	1
LW69.0003	S-RAHMEN 08,6*12,8	Solder nozzle shilding 08.6*12.8mm for Motorola V3 RAZR middle	1
LW68.0240	S-RAHMEN 09,0*12,0	Solder tool shilding 09.0*12.0mm for Siemens Onyx BT/FM Radio	1
LW41.0565	S-RAHMEN 10,0*15,0	Solder tool shilding 10.0*15.0mm for Nokia Camera	1
LW41.0310	S-RAHMEN 10,2*23,6	Solder tool shilding 10.2*23.6mm for Siemens K1 FM	1
LW69.0100	S-RAHMEN 10,4*24,7	Solder nozzle shilding 10.4*24.7mm for Motorola U500/535/600 RF	1
LW68.0071	S-RAHMEN 10,5*10,5	Solder tool shilding 10.5*10.5mm for Siemens Wolf 4 BT	1
LW69.0002	S-RAHMEN 10,5*12,8	Solder nozzle shilding 10.5*12.8mm for Motorola U500/535/600 Blue Tooth	1
LW68.0110	S-RAHMEN 10,5*18,0	Solder tool shilding 10.5*18.0mm for Siemens Wolf 5/Hydra/Minos BT	1
LW69.0021	S-RAHMEN 11,3*19,3	Solder nozzle shilding 11.3*19.3mm for Motorola V3 RAZR RF	1
LW69.0060	S-RAHMEN 11,4*24,5	Solder nozzle shilding 11.4*24.5mm for Motorola V3 RAZR RF	1
LW69.0022	S-RAHMEN 11,8*17,9	Solder nozzle shilding 11.8*17.9mm for Motorola V3 RAZR PA	1
LW41.0360	S-RAHMEN 12,0*30,0	Solder tool shilding 12.0*30.0mm for Siemens MC 55 Maja	1
LW41.0570	S-RAHMEN 12,0*36,0	Solder nozzle shielding 12.0*36.0mm for Nokia A7500 RF	1
LW69.0000	S-RAHMEN 12,6*13,6	Solder nozzle shilding 12.6*13.6mm for Motorola U500/535/600 Amplifier	1
LW69.0001	S-RAHMEN 12,6*13,7	Solder nozzle shilding 12.6*13.7mm for Motorola V3 RAZR Blue Tooth	1
LW41.0260	S-RAHMEN 13,5*30,0	Solder tool shilding 33.0*43.5mm for Siemens Fugu Radio 2	1
LW41.0225	S-RAHMEN 13,8*37,0	Solder tool shilding 13.8*37.0mm for Siemens L55 Marlin BT	1
LW69.0020	S-RAHMEN 14,0*19,5	Solder nozzle shilding 14.0*19.5mm for Motorola V3 RAZR middle	1
LW41.0410	S-RAHMEN 15,0*15,0	Solder tool shilding 15.0*15.0mm for Siemens S65 Penelope Bluetooth	1

LW41.0420	S-RAHMEN 15,0*15,0	Solder tool 15.0*15.0mm for Siemens Iris RF top	1
LW41.0265	S-RAHMEN 15,0*21,0	Solder tool shilding 15.0*21.0mm for Siemens Fugu Logic 2	1
LW68.0200	S-RAHMEN 15,0*27,0	Solder tool shilding 15.0*27.0mm for Siemens VIT SIM / X75	1
LW41.0450	S-RAHMEN 15,0*30,0	Solder tool shielding 15.0*30.0mm for Siemens Iris RF bottom	1
LW41.0100	S-RAHMEN 15,5*34,7	Solder nozzle shilding 15.5*34.7mm for Sie K45Dol PA / Mot C115/117/118 RF	1
LW41.0320	S-RAHMEN 16,4*17,0	Solder tool shilding 16.4*17.0mm for Siemens K1 BT	1
LW68.0090	S-RAHMEN 16,5*18,0	Solder tool shilding 16.5*18.0mm for Siemens Wolf 5 RX/FM	1
LW41.0440	S-RAHMEN 16,5*21,0	Solder tool shielding 16.5*21.0mm for Siemens Iris BB top	1
LW68.0100	S-RAHMEN 16,5*24,0	Solder tool shilding 16.5*24.0mm sor Siemens Wolf 5 FEM/UMTS/PM a. PWR	1
LW41.0230	S-RAHMEN 16,5*25,5	Solder tool shilding 16.5*25.5mm for Siemens Marlin logik	1
LW68.0170	S-RAHMEN 16,5*27,0	Solder tool shilding 16.5*27.0mm for Siemens Minos BB	1
LW69.0041	S-RAHMEN 17,8*32,3	Solder nozzle shilding 17.8*32.3mm for Motorola V3 RAZR CPU	1
LW41.0560	S-RAHMEN 18,0*19,0	Solder tool shielding 18,0*19,0mm for Nokia	1
LW68.0130	S-RAHMEN 18,0*28,0	Solder tool shilding 18.0*28.0mm for Siemens Wolf 4+5 MMC-reader	1
LW41.0390	S-RAHMEN 18,0*31,5	Solder tool shilding 18.0*31.5mm for Siemens R65 X-C Logik top	1
LW68.0080	S-RAHMEN 18,0*34,5	Solder tool shilding 18.0*34.5mm für Siemens Wolf 4 BB	1
LW69.0040	S-RAHMEN 18,3*34,0	Solder nozzle shilding 18.3*34.0mm for Motorola U500/535/600 Power	1
LW69.0070	S-RAHMEN 18,6*24,5	Solder nozzle shilding 18.6*24.5mm for Motorola V3 RAZR Power	1
LW41.0165	S-RAHMEN 19,3*34,5	Solder tool shilding 19.3*34.5mm for Siemens K45 Flipper pa	1
LW41.0180	S-RAHMEN 19,3*34,5	Solder tool shilding 19.3*34.5mm for Siemens Sushi GPS	1
LW68.0030	S-RAHMEN 19,5*21,0	Solder tool shilding 19.5*21.0mm for Siemens Pegasus / Aries RF	1
LW68.0147	S-RAHMEN 19,5*21,0	Solder tool shilding 19.5*21.0mm for Siemens Hydra BB	1
LW41.0340	S-RAHMEN 19,5*24,0	Solder tool shilding 19.5*24.0mm for Siemens K1 LS	1
LW41.0490	S-RAHMEN 19,5*25,5	Solder tool shielding 19.5*25.5mm for Sie Charlie / Mot U500/535/600 CPU	1
LW68.0210	S-RAHMEN 19,5*28,5	Solder tool shilding 19.5*28.5mm for Siemens Onyx Transreciever	1
LW68.0150	S-RAHMEN 19,5*28,5	Solder tool shilding 19.5*28.5mm for Siemens Hydra Logic	1
LW41.0280	S-RAHMEN 19,5*33,0	Solder tool shilding 19.5*33.0mm for Siemens TC35i	1
LW41.0430	S-RAHMEN 19,5*43,5	Solder tool shielding 19.5*43.5mm for Siemens Iris BB bottom	1
LW41.0085	S-RAHMEN 19,6*37,3	Solder nozzle shilding 19.6*37.3mm for Siemens K45 funk/s	1
LW41.0530	S-RAHMEN 19,8*30,0	Solder tool shielding 19.8*30.0mm for Nokia 6800 Hermes	1

LW41.0125	S-RAHMEN 20,2*38,5	Solder tool shilding 20.2*38.5mm für Siemens I37 Logic	1
LW69.0080	S-RAHMEN 20,8*20,8	Solder nozzle shilding 20.8*20.8mm for Motorola V3 RAZR Power	1
LW68.0070	S-RAHMEN 21,0*21,0	Solder tool shilding 21,0*21,0mm for Siemens Wolf 4 FEM	1
LW68.0230	S-RAHMEN 21,0*24,0	Solder tool shilding 21.0*24.0mm for Siemens Onyx BB PS	1
LW41.0270	S-RAHMEN 21,0*24,0	Solder tool shilding 21.0*24.0mm Fugu Radio 1 for Siemens Fugu Radio 1	1
LW41.0275	S-RAHMEN 21,0*33,0	Solder tool shilding 21.0*33.0mm for Siemens Fugu Logic 1	1
LW41.0540	S-RAHMEN 22,0*34,0	Solder tool shilding 22.0*34.0mm for Nokia	1
LW68.0140	S-RAHMEN 22,5*27,0	Solder tool shilding 22.5*27.0mm for Siemens Hydra/Minos RF	1
LW41.0120	S-RAHMEN 22,5*38,7	Solder nozzle shilding 22.3*38.7mm for Siemens P 35 Radio small	1
LW45.0132	S-RAHMEN 22,5*52,5	Solder tool shilding 22.5*52.5mm for Apple iPhone	1
LW41.0520	S-RAHMEN 23,5*28,3	Solder tool shilding 23.5*28.3mm for Nokia 6110 radio 1	1
LW41.0350	S-RAHMEN 24,0*31,5	Solder tool shilding 24.0*31.5mm for Siemens MC60/C60/CE62/R65 RF	1
LW41.0175	S-RAHMEN 25,3*34,5	Solder tool shilding 25.3*34.5mm for Siemens K45 flipper RF	1
LW68.0060	S-RAHMEN 25,5*28,5	Solder tool shilding 25.5*28.5mm for Siemens Wolf 4 BB1	1
LW68.0020	S-RAHMEN 25,5*30,0	Solder tool shilding 25.5*30.0mm for Siemens L55 Tuna radio 2	1
LW68.0010	S-RAHMEN 25,5*37,5	Solder tool shilding 25.5*37.5mm for Siemens L55 Tuna radio 1	1
LW41.0090	S-RAHMEN 25,7*31,2	Solder nozzle shilding 25.7*31.2mm for Siemens K45 funk/I	1
LW41.0095	S-RAHMEN 26,2*33,0	Solder tool shilding 26.2*33.0mm for Siemens K45 P/S45/S45i/E Logic	1
LW41.0110	S-RAHMEN 26,5*34,5	Solder nozzle 26.5*34.5mm for Siemens K45 Dol rf	1
LW68.0196	S-RAHMEN 27,0*33,0	Solder tool shilding 27.0*33.0mm for Siemens Swift BB	1
LW68.0050	S-RAHMEN 27,0*37,5	Solder tool shilding 27.0*37.5mm for Siemens Flamingo BB	1
LW41.0510	S-RAHMEN 28,3*41,7	Solder tool shilding 28.3*41.7mm for Nokia 6110 radio 2	1
LW41.0235	S-RAHMEN 28,5*30,0	Solder tool shilding 28.5*30.0mm for Siemens L55 Marlin RF	1
LW68.0160	S-RAHMEN 28,5*30,0	Solder tool shilding 28.5*30.0mm for Siemens Minos Logic	1
LW68.0220	S-RAHMEN 28,5*33,0	Solder tool shilding 28.5*33.0mm for Siemens Onyx BB logic	1
LW41.0380	S-RAHMEN 28,5*37,5	Solder tool shilding 28.5*37.5mm for Siemens R65 X-Cite Logik bottom	1
LW41.0470	S-RAHMEN 28,5*51,0	Solder tool shilding 28.5*51.0mm for Siemens SL88 hand set	1
LW45.0211	S-RAHMEN 28,5*55,5	Solder nozzle shilding 28.5*55.5mm for Motorola	1
LW41.0330	S-RAHMEN 30,0*34,5	Solder tool shilding 30.0*34.5mm for Siemens K1 RF	1
LW41.0220	S-RAHMEN 30,0*35,0	Solder tool shilding 30.0*35.0mm for Siemens L55 Tuna Logic	1

LW41.0255	S-RAHMEN 30,0*36,0	Solder tool shilding 30.0*36.0mm for Siemens AC 43/45	1
LW41.0240	S-RAHMEN 31,5*33,0	Solder tool shilding 31.5*33.0mm for Siemens MC 45 RF	1
LW68.0190	S-RAHMEN 31,5*34,5	Solder tool shilding 31.5*34.5mm for Siemens Kestrel BB	1
LW68.0040	S-RAHMEN 31,5*37,5	Solder tool shilding 31.5*37.5mm for Siemens Pegasus BB	1
LW41.0250	S-RAHMEN 33,0*37,5	Solder tool shilding 33.0*37.5mm for Siemens L55 Marlin displ.	1
LW41.0245	S-RAHMEN 33,0*43,5	Solder tool shilding 33.0*43.5mm for Siemens L55 Marlin MMI	1
LW68.0120	S-RAHMEN 33,0*43,5	Solder tool shilding 33.0*43.5mm for Siemens Wolf 5 BB	1
LW41.0170	S-RAHMEN 33,7*34,5	Solder tool shilding 33.7*34.5mm for Siemens K45 Flipper Logic	1
LW41.0105	S-RAHMEN 33,9*34,7	Solder tool shilding 33.9*34.7mm for Siemens K45 D logic	1
LW69.0090	S-RAHMEN 34,5*40,0	Solder nozzle shilding 34.5*40.0mm for Motorola C115/117/118 CPU	1
LW41.0075	S-RAHMEN 35,6*39,7	Solder tool shilding 35.6*39.7mm for Siemens SL45+TC35 logic	1
LW41.0070	S-RAHMEN 35,6*45,9	Solder tool shilding 35.6*45.9mm for Siemens SL45+TC35 radio	1
LW41.0115	S-RAHMEN 35,8*38,6	Solder tool shilding 35.8*38.6mm for Siemens P35 logic+radio big	1
LW41.0400	S-RAHMEN 36,0*36,0	Solder tool shilding 36.0*36.0mm for Siemens S65 Penelope Baseband	1
LW68.0180	S-RAHMEN 36,0*37,5	Solder tool shilding 36.0*37.5mm for Siemens Finch BB	1
LW41.0155	S-RAHMEN 36,0*38,4	Solder tool shilding 36.0*38.4mm for Siemens C25 funk	1
LW41.0460	S-RAHMEN 36,0*39,0	Solder tool shielding 36.0*39.0mm for Siemens Neo BB	1
LW41.0215	S-RAHMEN 36,5*41,5	Solder tool shilding 36.5*41.5mm for Siemens L55 Tuna radio	1
LW41.0150	S-RAHMEN 38,4*39,3	Solde tool shilding 38.4*39.3mm for Siemens C25 funk bottom	1
LW41.0160	S-RAHMEN 38,4*49,5	Solder tool shilding 38.4*49.5mm for Siemens Logic	1
LW41.0130	S-RAHMEN 38,5*56,6	Solder nozzle shilding 38.5*56.6mm for Siemens I37 funk	1
LW41.0131	S-RAHMEN 38,7*56,8	Solder nozzle shilding 38.7*56.8mm for Siemens I37 Radio	1
LW41.0370	S-RAHMEN 39,0*39,0	Solder tool shilding 39.0*39.0mm for Siemens Leopard CE62 Logik	1
LW41.0500	S-RAHMEN 41,0*47,0	Solder tool shielding 41.0*47.0mm for Nokia 6110 logic	1
DB79.0002	S-RAHMEN JOYSTICK	Solder nozzle Joystick 5.7*5.7mm for Sony Ericsson	1
LW68.0177	S-RAHMEN SIM-CARD	Solder nozzle SIM Card Reader for Siemens, with fixing spring	1

## 7. PLACEMENT TOOLS

### 7.1 Packages

LW39.1999	STAR TOOL SET BGA AS	Star Tool set BGA for all (98%) BGA types^ placement tool for ASP/SHP, 7 pieces	1
LW39.0999	STAR TOOL SET BGA DH	Placement Star Tool set BGA DHP^ for all (98%) types of BGA, 7 pieces	1

## 7. PLACEMENT TOOLS

### 7.2 Star Tools for ASP/SHP arm - CSP, QFN

LW40.1955	STAR TOOL 04*04 ASP	Star Tool CSP 04.0*04.0mm placement tool for ASP/SHP arm	1
LW40.1952	STAR TOOL 04*07 ASP	Star Tool CSP 04.0*07.0mm placement tool for ASP/SHP arm	1
LW40.1911	STAR TOOL 05*05 ASP	Star Tool CSP 05.0*05.0mm placement tool for ASP/SHP arm	1
LW40.1904	STAR TOOL 05*07 ASP	Star Tool CSP 05.7*07.8mm placement tool for ASP/SHP arm	1
LW40.1936	STAR TOOL 05*08 ASP	Star Tool CSP 05.5*08.0mm placement tool for ASP/SHP arm	1
LW40.1942	STAR TOOL 05*12 ASP	Star Tool CSP 05.5*12.0mm placement tool for ASP/SHP arm	1
LW40.1935	STAR TOOL 05*13 ASP	Star Tool CSP 05.5*13.5mm placement tool for ASP/SHP arm	1
LW40.1937	STAR TOOL 05*16 ASP	Star Tool CSP 05.5*16.0 mm placement tool for ASP/SHP arm	1
LW40.1953	STAR TOOL 06*06 ASP	Star Tool CSP 06*06mm placement tool for ASP/SHP arm	1
LW40.1950	STAR TOOL 06*06 ASP	Star Tool CSP 06.4*06.4mm placement tool for ASP/SHP arm	1
LW40.1914	STAR TOOL 06*06 ASP	Star Tool CSP 06.1*06.2mm placement tool for ASP/SHP arm	1
LW40.1913	STAR TOOL 06*07 ASP	Star Tool CSP 06.4*07.8mm placement tool for ASP/SHP arm	1
LW40.1924	STAR TOOL 06*07 ASP	Star Tool CSP 06*07mm placement tool for ASP/SHP arm	1
LW40.1934	STAR TOOL 06*07 ASP	Star Tool CSP 06,7*07,2mm placement tool for ASP/SHP arm	1
LW40.1925	STAR TOOL 06*08 ASP	Star Tool CSP 06*08mm placement tool for ASP/SHP arm	1
LW40.1916	STAR TOOL 06*08 ASP	Star Tool CSP 06.1*08.9mm placement tool for ASP/SHP arm	1
LW40.1907	STAR TOOL 06*08 ASP	Star Tool CSP 06.0*08.2mm placement tool for ASP/SHP arm	1
LW40.1928	STAR TOOL 06*09 ASP	Star Tool CSP 06.09mm placement tool for ASP/SHP arm	1
LW40.1938	STAR TOOL 06*12 ASP	Star Tool CSP 06*12mm placement tool for ASP/SHP arm	1
LW40.1915	STAR TOOL 07*07 ASP	Star Tool CSP 07*07mm placement tool for ASP/SHP arm	1
LW40.1918	STAR TOOL 07*07 ASP	Star Tool CSP 07.0*07.3mm placement tool for ASP/SHP arm	1
LW40.1922	STAR TOOL 07*08 ASP	Star Tool CSP 07.0*08.5mm placement tool for ASP/SHP arm	1
LW40.1923	STAR TOOL 07*08 ASP	Star Tool CSP 07*08mm placement tool for ASP/SHP arm	1
LW40.1926	STAR TOOL 07*08 ASP	Star Tool CSP 07.2*08.4mm placement tool for ASP/SHP arm	1
LW40.1941	STAR TOOL 07*09 ASP	Star Tool CSP 07*09mm placement tool for ASP/SHP arm	1
LW40.1932	STAR TOOL 07*10 ASP	Star Tool CSP 07.3*10.7mm placement tool for ASP/SHP arm	1
LW40.1931	STAR TOOL 08*08 ASP	Star Tool CSP 08*08mm placement tool for ASP/SHP arm	1
LW40.1906	STAR TOOL 08*08 ASP	Star Tool CSP 08.2*08.2mm placement tool for ASP/SHP arm	1
LW40.1927	STAR TOOL 08*09 ASP	Star Tool CSP 08*09mm placement tool for ASP/SHP arm	1
LW40.1954	STAR TOOL 08*10 ASP	Star Tool CSP 08*10mm placement tool for ASP/SHP arm	1

LW40.1956	STAR TOOL 08*11 ASP	Star Tool CSP 08*11mm placement tool for ASP/SHP arm	1
LW40.1946	STAR TOOL 08*20 ASP	Star Tool CSP 08*20mm placement tool for ASP/SHP arm	1
LW40.1917	STAR TOOL 09*09 ASP	Star Tool CSP 09*09mm placement tool for ASP/SHP arm	1
LW40.1910	STAR TOOL 10*10 ASP	Star Tool CSP 10*10mm placement tool for ASP/SHP arm	1
LW40.1939	STAR TOOL 10*11 ASP	Star Tool CSP 10*11mm placement tool for ASP/SHP arm	1
LW40.1948	STAR TOOL 10*12 ASP	Star Tool CSP 10*12mm placement tool for ASP/SHP arm	1
LW40.1933	STAR TOOL 10*13 ASP	Star Tool CSP 10*13mm placement tool for ASP/SHP arm	1
LW40.1912	STAR TOOL 11*11 ASP	Star Tool CSP 11*11mm placement tool for ASP/SHP arm	1
LW40.1949	STAR TOOL 11*13 ASP	Star Tool CSP 11*13mm placement tool for ASP/SHP arm	1
LW40.1908	STAR TOOL 12*12 ASP	Star Tool CSP 12*12mm placement tool for ASP/SHP arm	1
LW40.1943	STAR TOOL 12*18 ASP	Star Tool CSP 12*18mm placement tool for ASP/SHP arm	1
LW40.1905	STAR TOOL 13*13 ASP	Star Tool CSP 13*13mm placement tool for ASP/SHP arm	1
LW40.1920	STAR TOOL 14*14 ASP	Star Tool CSP 14*14mm placement tool for ASP/SHP arm	1

## **7. PLACEMENT TOOLS**

### **7.3 Star Tools for ASP/SHP arm - BGA**

LW40.1929	STAR TOOL 14*22 ASP	Star Tool BGA 14.1*22.1mm placement tool for ASP/SHP arm	1
LW39.1916	STAR TOOL 15*15 ASP	Star Tool BGA 15*15mm placement tool for ASP/SHP arm	1
LW39.1918	STAR TOOL 15*17 ASP	Star Tool BGA 15*17mm placement tool for ASP/SHP arm	1
LW39.1903	STAR TOOL 16*16 ASP	Star Tool BGA 16*16mm placement tool for ASP/SHP arm	1
LW39.1917	STAR TOOL 17*17 ASP	Star Tool BGA 17*17mm placement tool for ASP/SHP arm	1
LW39.1919	STAR TOOL 18*18 ASP	Star Tool BGA 18*18mm placement tool for ASP/SHP arm	1
LW39.1915	STAR TOOL 19*19 ASP	Star Tool BGA 19*19mm placement tool for ASP/SHP arm	1
LW39.1904	STAR TOOL 21*21 ASP	Star Tool BGA 21*21mm placement tool for ASP/SHP arm	1
LW39.1901	STAR TOOL 23*23 ASP	Star Tool BGA 23*23mm placement tool for ASP/SHP arm	1
LW39.1902	STAR TOOL 25*25 ASP	Star Tool BGA 25*25mm placement tool for ASP/SHP arm	1
LW39.1900	STAR TOOL 27*27 ASP	Star Tool BGA 27*27mm placement tool for ASP/SHP arm	1
LW39.1905	STAR TOOL 29*29 ASP	Star Tool BGA 29*29mm placement tool for ASP/SHP arm	1
LW39.1906	STAR TOOL 31*31 ASP	Star Tool BGA 31*31mm placement tool for ASP/SHP arm	1
LW39.1907	STAR TOOL 32*32 ASP	Star Tool BGA 32*32mm placement tool for ASP/SHP arm	1
LW39.1908	STAR TOOL 33*33 ASP	Star Tool BGA 33*33mm placement tool for ASP/SHP arm	1
LW39.1909	STAR TOOL 35*35 ASP	Star Tool BGA 35*35mm placement tool for ASP/SHP arm	1

LW39.1910	STAR TOOL 37*37 ASP	Star Tool BGA 37.5*37.5mm placement tool for ASP/SHP arm	1
LW39.1911	STAR TOOL 40*40 ASP	Star Tool BGA 40*40mm placement tool for ASP/SHP arm	1
LW39.1912	STAR TOOL 42*42 ASP	Star Tool BGA 42.5*42.5mm placement tool for ASP/SHP arm	1
LW39.1913	STAR TOOL 45*45 ASP	Star Tool BGA 45*45mm placement tool for ASP/SHP arm	1
LW39.1914	STAR TOOL 46*46 ASP	Star Tool BGA 46*46mm placement tool for ASP/SHP arm	1
<b>8. REBALLING / PREBUMPING TOOLS</b>			
<b>8.1 Packages</b>			
LW40.0500	RAHMEN SET ECO	Reballing frame set BGA eco^ for all (98%) types of BGA, 7 pieces	1
<b>8. REBALLING / PREBUMPING TOOLS</b>			
<b>8.2 Printer / oven / holder - QFN, CSP, BGA eco</b>			
SF29.0001	HOTPRINT QFN PREBUM	Prebumping hotprint set QFN basic printer, squeegee, holder, tweezers, pen, paste	1
LW40.0350	MINI-OFEN CSP-BASIS	Reballing mini oven set CSP basic mini oven, capton tape, cutter	1
LW40.0351	MINI-OFEN QFN PREBUM	Prebumping mini oven set QFN basic mini oven, capton tape, cutter	1
LW40.0417	MINI-OFEN BGA 45*45	Reballing mini oven set BGA 45*45mm eco mini oven, capton tape, cutter	1
LW40.0431	MINI-OFEN BGA 45*45 PS3	Reballing mini oven set BGA 45*45mm PS3 mini oven, capton tape, cutter	1
LW40.0234	HALTER BGA 45*45	Reballing fixture BGA 45*45mm eco with 4 clips and support grid (for IRF-02)	1
<b>8. REBALLING / PREBUMPING TOOLS</b>			
<b>8.3 Masks - QFN</b>			
LW50.0228	MASKE QFN 0,35 03+00	Prebumping mask+frame QFN 1.0*1.0mm n=32 / pitch=0.35 / pads=(03+00)2	1
LW50.0235	MASKE QFN 0,40 08+08	Prebumping mask+frame QFN 4.0*4.0mm n=32 / pitch=0.40 / pads=(08+08)2	1
LW50.0204	MASKE QFN 0,40 12+12	Prebumping mask+frame QFN 6.0*6.0mm n=48 / pitch=0.40 / pads=(12+12)2	1
LW50.0230	MASKE QFN 0,40 27+27	Prebumping mask+frame QFN 12.0*12.0mm n=108 / pitch=0.40 / pads=(27+27)2	1
LW50.0221	MASKE QFN 0,40 27+27	Prebumping mask+frame QFN 12.0*12.0mm n=108 / pitch=0.40 / pads=(27+27)2	1
LW50.0246	MASKE QFN 0,50 03+03	Prebumping mask+frame QFN 3.0*3.0mm n=12 / pitch=0.50 / pads=(03+03)2	1
LW50.0216	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 3.0*3.0mm n=8 / pitch=0.50 / pads=(04+04)1	1
LW50.0209	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 3.0*3.0mm n=16 / pitch=0.50 / pads=(04+04)2	1
LW50.0240	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 3.0*3.0mm n=8 / pitch=0.50 / pads=(04+04)1	1
LW50.0245	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 3.0*3.0mm n=20 / pitch=0.50 / pads=(04+04)2	1
LW50.0255	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 3.0*3.0mm n=16 / pitch=0.50 / pads=(04*04)2	1
LW50.0239	MASKE QFN 0,50 04+04	Prebumping mask+frame QFN 2.0*3.0mm n=8 / pitch=0.50 / pads=(04+04)1	1
LW50.0206	MASKE QFN 0,50 05*05	Prebumping mask+frame QFN 7.0*7.0mm n=20 / pitch=0.50 / pads=(05+05)2	1
LW50.0271	MASKE QFN 0,50 05+00	Prebumping mask+frame QFN 2,6*2,6mm n=10/ pitch=0.50 /pads=(05+00)2	1
LW50.0233	MASKE QFN 0,50 05+00	Prebumping mask+frame QFN 3.0*3.0mm n=10 / pitch=0.50 / pads=(05+00)2	1

LW50.0236	MASKE QFN 0,50 05+02	Prebumping mask+frame QFN 3.5*3.5mm n=14 / pitch=0.50 / pads=(05+02)2	1
LW50.0247	MASKE QFN 0,50 05+02	Prebumping mask+frame QFN 2.5*3.0mm n=14 / pitch=0.50 / pads=(05+02)2	1
LW50.0201	MASKE QFN 0,50 05+05	Prebumping mask+frame QFN 4.0*4.0mm n=20 / pitch=0.50 / pads=(05+05)2	1
LW50.0268	MASKE QFN 0,50 06+06	Prebumping mask+frame QFN 4.0*4.0mm n=24/ pitch=0.50 /pads=(06+06)2	1
LW50.0212	MASKE QFN 0,50 06+06	Prebumping mask+frame QFN 4.0*4.0mm n=24 / pitch=0.50 / pads=(06+06)2	1
LW50.0203	MASKE QFN 0,50 07+07	Prebumping mask+frame QFN 5.0*5.0mm n=28 / pitch=0.50 / pads=(07+07)2	1
LW50.0259	MASKE QFN 0,50 08+02	Prebumping mask+frame QFN 5.0*5.0mm n=20 / pitch=0.50 / pads=(08*02)2	1
LW50.0269	MASKE QFN 0,50 08+04	Prebumping mask+frame QFN 450*4.5mm n=24/ pitch=0.50 /pads=(08+04)2	1
LW50.0226	MASKE QFN 0,50 08+08	Prebumping mask+frame QFN 5.0*5.0mm n=32 / pitch=0.50 / pads=(08+08)2	1
LW50.0224	MASKE QFN 0,50 08+08	Prebumping mask+frame QFN 5.0*5.0mm n=32 / pitch=0.50 / pads=(08+08)2	1
LW50.0242	MASKE QFN 0,50 08+08	Prebumping mask+frame QFN 3.0*5.0mm n=16 / pitch=0.50 / pads=(08+08)1	1
LW50.0213	MASKE QFN 0,50 08+08	Prebumping mask+frame QFN 5.0*5.0mm n=32 / pitch=0.50 / pads=(08+08)2	1
LW50.0222	MASKE QFN 0,50 09+09	Prebumping mask+frame QFN 6.0*6.0mm n=36 / pitch=0.50 / pads=(09+09)2	1
LW50.0275	MASKE QFN 0,50 10*10	Prebumping mask+frame QFN 10,0*10,0mm n=72 / pitch=0.50 / pads=(18+18)2	1
LW50.0237	MASKE QFN 0,50 10+10	Prebumping mask+frame QFN 6.0*6.0mm n=40 / pitch=0.50 / pads=(10*10)2	1
LW50.0223	MASKE QFN 0,50 11+11	Prebumping mask+frame QFN 7.0*7.0mm n=44 / pitch=0.50 / pads=(11+11)2	1
LW50.0225	MASKE QFN 0,50 11+11	Prebumping mask+frame QFN 7.0*7.0mm n=44 / pitch=0.50 / pads=(11+11)2	1
LW50.0208	MASKE QFN 0,50 12+12	Prebumping mask+frame QFN 7.0*7.0mm n=48 / pitch=0.50 / pads=(12+12)2	1
LW50.0248	MASKE QFN 0,50 12+12	Prebumping mask+frame QFN 7.0*7.0mm n=48 / pitch=0.50 / pads=(12+12)2	1
LW50.0218	MASKE QFN 0,50 13+13	Prebumping mask+frame QFN 7.0*7.0mm n=52 / pitch=0.50 / pads=(13+13)2	1
LW50.0273	MASKE QFN 0,50 14+14	Prebumping mask+frame QFN 7,0*7,0mm n=136 pitch=0.50 /pads=14+14)2	1
LW50.0260	MASKE QFN 0,50 14+14	Prebumping mask+frame QFN 8.0*8.0mm n=136 / pitch=0.50 / pads=(14*14)2	1
LW50.0211	MASKE QFN 0,50 14+14	Prebumping mask+frame QFN 8,0*8,0mm n=56 / pitch=0.50 / pads=(14+14)2	1
LW50.0272	MASKE QFN 0,50 14+14	Prebumping mask+frame QFN 8,0*8,0mm n=136/ pitch=0.50 /pads=(14+14)2	1
LW50.0205	MASKE QFN 0,50 16+16	Prebumping mask+frame QFN 9,0*9,0mm n=64 / pitch=0.50 / pads=(16+16)2	1
LW50.0243	MASKE QFN 0,50 16+16	Prebumping mask+frame QFN 9.0*9.0mm n=64 / pitch=0.50 / pads=(16+16)2	1
LW50.0219	MASKE QFN 0,50 16+16	Prebumping mask+frame QFN 9.0*9.0mm n=64 / pitch=0.50 / pads=(16+16)2	1
LW50.0227	MASKE QFN 0,50 17+17	Prebumping mask+frame QFN 10.0*10.0mm n=68 / pitch=0.50 / pads=(17+17)2	1
LW50.0232	MASKE QFN 0,50 18+18	Prebumping mask+frame QFN 10.0*10.0mm n=72 / pitch=0.50 / pads=(18+18)2	1
LW50.0279	MASKE QFN 0,50 5,0*5,0	Prebumping mask+frame QFN 10,0*10,0mm n=81 / pitch=0.50 / pads=(09+09)2	1

LW50.0215	MASKE QFN 0,60 07+09	Prebumping mask+frame QFN 4.55*5.6mm n=63 / pitch=0.60 / pads=(07*09)x	1
LW50.0231	MASKE QFN 0,65 04+00	Prebumping mask+frame QFN 2.25*3.0mm n=8 / pitch=0.65 / pads=(04+00)2	1
LW50.0267	MASKE QFN 0,65 04+04	Prebumping mask+frame QFN 4.0*4.0mm n=16/ pitch=0.65 /pads=(04+04)2	1
LW50.0202	MASKE QFN 0,65 04+04	Prebumping mask+frame QFN 4.0*4.0mm n=16 / pitch=0.65 / pads=(04+04)2	1
LW50.0256	MASKE QFN 0,65 04+04	Prebumping mask+frame QFN 4.0*4.0mm n=16 / pitch=0.65 / pads=(04+04)2	1
LW50.0220	MASKE QFN 0,65 05+05	Prebumping mask+frame QFN 5.0*5.0mm n=20 / pitch=0.65 / pads=(05+05)2	1
LW50.0274	MASKE QFN 0,65 07+07	Prebumping mask+frame QFN 7.0*7.0mm n=32 / pitch=0.65 / pads=(08+08)2	1
LW50.0244	MASKE QFN 0,65 07+07	Prebumping mask+frame QFN 7.0*7.0mm n=28 / pitch=0.65 / pads=(07+07)2	1
LW50.0217	MASKE QFN 0,65 07+07	Prebumping mask+frame QFN 6.0*6.0mm n=28 / pitch=0.65 / pads=(07+07)2	1
LW50.0266	MASKE QFN 0,65 08+08	Prebumping mask+frame QFN 7,0*7,0mm n=32/ pitch=0.65 /pads=(08+08)2	1
LW50.0207	MASKE QFN 0,65 11+11	Prebumping mask+frame QFN 9.0*9.0mm n=44 / pitch=0.65 / pads=(11+11)2	1
LW50.0258	MASKE QFN 0,65 13+13	Prebumping mask+frame QFN 10.0*10.0mm n=145 / pitch=0.65 / pads=(13+13)2	1
LW50.0214	MASKE QFN 0,70 09*12	Prebumping mask+frame QFN 8,1*6,0mm n=108 / pitch=0.70/pads=(09*12)2	1
LW50.0257	MASKE QFN 0,80 10+03	Prebumping mask+frame QFN 8.0*8.0mm n=34 / pitch=0.80 / pads=(10*03)2	1
LW50.0262	MASKE QFN 0,80 10+3	Prebumping mask+frame QFN 7,0*7,0mm n=34/ pitch=0.80 /pads=(10+3)2	1
LW50.0261	MASKE QFN 0,80 11+11	Prebumping mask+frame QFN 10,0*10,0mm n=44 /pitch=0.80 / pads=(11*11)2	1
LW50.0229	MASKE QFN 0,93 02+00	Prebumping mask+frame QFN 1.18*1.42mm n=4 / pitch=0.93 / pads=(02+00)2	1
LW50.0210	MASKE QFN 0,95 00+03	Prebumping mask+frame QFN 3.0*3.3mm n=6 / pitch=0.95 / pads=(00+03)2	1
LW50.0241	MASKE QFN 0,95 03+03	Prebumping mask+frame QFN 3.0*3.0mm n=6 / pitch=0.95 / pads=(03+03)1	1
LW50.0238	MASKE QFN 1,27 04+04	Prebumping mask+frame QFN 5.15*6.15mm n=8 / pitch=1.27 / pads=(04+04)1	1
LW50.0277	MASKE QFN DIV 12*12	Prebumping mask+frame QFN 2,6*2,6mm n=10/ pitch=0.50 /pads=(05+00)2	1
LW50.0263	MASKE QFN DIV. 09+12	Prebumping mask+frame QFN 7,0*7,0mm n=73/ pitch=div. /pads=(09+12)2	1
<b>8. REBALLING / PREBUMPING TOOLS</b>			
<b>8.4 Frames - CSP</b>			
LW40.0763	RAHMEN CSP 01,8*01,8	Frame CSP 01.8*01.8mm for mini oven / fixture / printer / 27*27mm	1
LW40.0745	RAHMEN CSP 02,2*02,2	Frame CSP 02.2*02.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0777	RAHMEN CSP 02,3*02,7	Frame CSP 02.3*02.7mm for mini oven / fixture / printer / 27*27mm	1
LW40.0798	RAHMEN CSP 02,5*02,0	Frame CSP 02,5*02,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0746	RAHMEN CSP 02,5*02,5	Frame CSP 02.5*02.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0795	RAHMEN CSP 02,5*02,6	Frame CSP 02,5*02,6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0769	RAHMEN CSP 02,5*03,0	Frame CSP 02.5*03.0mm for mini oven / fixture / printer / 27*27mm	1

LW50.0716	RAHMEN CSP 02,57*03,21	Frame CSP02,57*03,21mm for mini oven / fixture / printer / 27*27mm	1
LW50.0700	RAHMEN CSP 02,6*02,7	Frame CSP 02,6*02,7mm for mini oven / fixture / printer / 27*27mm	1
LW50.0705	RAHMEN CSP 02,6*02,7	Frame CSP 02,6*02,7mm for mini oven / fixture / printer / 27*27mm	1
LW40.0786	RAHMEN CSP 03,0*03,0	Frame CSP 03.0*03.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0703	RAHMEN CSP 03,0*03,1	Frame CSP 03,0*03,1mm for mini oven / fixture / printer / 27*27mm	1
LW40.0768	RAHMEN CSP 03,0*03,3	Frame CSP 03.0*03.3mm for mini oven / fixture / printer / 27*27mm	1
LW40.0764	RAHMEN CSP 03,15 *03,15	Frame CSP 03.15*03.15mm for mini oven, fixture, printer	1
LW50.0707	RAHMEN CSP 03,16*03,44	Frame CSP 03,16*03,44mm for mini oven / fixture / printer / 27*27mm	1
LW40.0796	RAHMEN CSP 03,3*03,5	Frame CSP 03.3*03,5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0754	RAHMEN CSP 03,5*03,5	Frame CSP 03.5*03.5mm for mini oven / fixture / printer / 27*27mm	1
LW50.0701	RAHMEN CSP 03,6*04,0	Frame CSP 03,6*04,0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0715	RAHMEN CSP 03,65*04,12	Frame CSP03,65*04,12mm for mini oven / fixture / printer / 27*27mm	1
LW50.0704	RAHMEN CSP 03,7*03,6	Frame CSP03,7*03,6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0742	RAHMEN CSP 04,0*04,0	Frame CSP 04.0*04.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0775	RAHMEN CSP 04,0*04,5	Frame CSP 04.0*04.5mm for mini oven / fixture / printer / 27*27mm	1
LW50.0702	RAHMEN CSP 04,1*04,6	Frame CSP 04,1*04,6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0788	RAHMEN CSP 04,5*05,6	Frame CSP 04.55*05.6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0753	RAHMEN CSP 04,5*07,0	Frame CSP 04.5*07.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0797	RAHMEN CSP 05,0*0,57	Frame CSP 0,50*0,57mm for mini oven / fixture / printer / 27*27mm	1
LW40.0723	RAHMEN CSP 05,0*05,0	Frame CSP 05.5*0.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0789	RAHMEN CSP 05,5*08,0	Frame CSP 05.0*08.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0761	RAHMEN CSP 05,5*13,5	Frame CSP 05.5*13.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0762	RAHMEN CSP 05,5*16,0	Frame CSP 05.0*16.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0702	RAHMEN CSP 05,8*07,8	Frame CSP 05.7*07.8mm for mini oven / fixture / printer / 27*27mm	1
LW40.0747	RAHMEN CSP 06,0*06,0	Frame CSP 06.0*06.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0732	RAHMEN CSP 06,0*08,0	Frame CSP 06.0*08.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0707	RAHMEN CSP 06,0*08,2	Frame CSP 06.0*08.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0719	RAHMEN CSP 06,0*09,0	Frame CSP 06.0*09.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0714	RAHMEN CSP 06,0*10,0	Frame CSP06,0*10,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0728	RAHMEN CSP 06,0*12,0	Frame CSP 06.0*12.0mm for mini oven / fixture / printer / 27*27mm	1

LW40.0776	RAHMEN CSP 06,0*15,0	Frame CSP 06.0*15.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0709	RAHMEN CSP 06,2*07,2	Frame CSP 06,2*07,7mm for mini oven / fixture / printer / 27*27mm	1
LW40.0730	RAHMEN CSP 06,2*08,2	Frame CSP 06.2*08.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0710	RAHMEN CSP 06,7*16,3	Frame CSP 06.7*16.3mm for mini oven / fixture / printer / 27*27mm	1
LW40.0715	RAHMEN CSP 07,0*07,0	Frame CSP 07.0*07.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0741	RAHMEN CSP 07,0*07,3	Frame CSP 07.0*07.3mm for mini oven / fixture / printer / 27*27mm	1
LW40.0729	RAHMEN CSP 07,0*08,5	Frame CSP 07.0*08.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0784	RAHMEN CSP 07,0*09,0	Frame CSP 07.0*09.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0760	RAHMEN CSP 07,0*10,0	Frame CSP 07.0*10.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0748	RAHMEN CSP 07,0*11,0	Frame CSP 07.0*11.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0780	RAHMEN CSP 07,3*08,8	Frame CSP 07.3*08.8mm for mini oven / fixture / printer / 27*27mm	1
LW40.0755	RAHMEN CSP 07,3*10,9	Frame CSP 07.3*10.9mm for mini oven / fixture / printer / 27*27mm	1
LW40.0733	RAHMEN CSP 07,7*09,0	Frame CSP 07.7*09.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0787	RAHMEN CSP 07,8*10,0	Frame CSP 07.8*10.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0720	RAHMEN CSP 08,0*08,0	Frame CSP 08.0*08.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0701	RAHMEN CSP 08,0*09,0	Frame CSP 08.0*09.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0738	RAHMEN CSP 08,0*09,2	Frame CSP 08.0*09.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0737	RAHMEN CSP 08,0*10,0	Frame CSP 08.0*10.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0717	RAHMEN CSP 08,0*10,1	Frame CSP 08.0*10.1mm for mini oven / fixture / printer / 27*27mm	1
LW40.0740	RAHMEN CSP 08,0*11,0	Frame CSP 08.0*11.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0711	RAHMEN CSP 08,0*11,5	Frame CSP 08.0*11.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0712	RAHMEN CSP 08,0*12,0	Frame CSP 08.0*12.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0713	RAHMEN CSP 08,0*12,5	Frame CSP 0,80*12,5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0771	RAHMEN CSP 08,0*13,0	Frame CSP 08.0*13.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0757	RAHMEN CSP 08,0*14,0	Frame CSP 08.0*14.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0731	RAHMEN CSP 08,0*16,0	Frame CSP 08.0*16.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0709	RAHMEN CSP 08,1*08,6	Frame CSP 08.1*08.6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0767	RAHMEN CSP 08,1*13,6	Frame CSP 08.1*13.6mm for mini oven / fixture / printer / 27*27mm	1
LW40.0706	RAHMEN CSP 08,2*08,2	Frame CSP 08.2*08.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0782	RAHMEN CSP 08,5*09,0	Frame CSP 08.5*09.0mm for mini oven / fixture / printer / 27*27mm	1

LW40.0778	RAHMEN CSP 08,5*13,0	Frame CSP 08.5*13.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0721	RAHMEN CSP 09,0*09,0	Frame CSP 09.0*09.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0752	RAHMEN CSP 09,0*11,0	Frame CSP 09.0*11.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0756	RAHMEN CSP 09,0*12,0	Frame CSP 09.0*12.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0779	RAHMEN CSP 09,0*13,0	Frame CSP 09.0*13.0mm for mini oven / fixture / printer / 27*27mm	1
LW50.0710	RAHMEN CSP 09,15*12	Frame CSP 09.15*15,15mm for mini oven / fixture / printer / 27*27mm	1
LW40.0714	RAHMEN CSP 09,4*09,4	Frame CSP 09.4*09.4mm for mini oven / fixture / printer / 27*27mm	1
LW40.0751	RAHMEN CSP 09,7*12,0	Frame CSP 09.7*12.0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0711	RAHMEN CSP 10,0*10,0	Frame CSP 10,0*10,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0736	RAHMEN CSP 10,0*11,0	Frame CSP 10,0*11,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0792	RAHMEN CSP 10,0*11,5	Frame CSP 10,0*11.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0739	RAHMEN CSP 10,0*12,0	Frame CSP 10,0*12,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0758	RAHMEN CSP 10,0*12,5	Frame CSP 10,0*12.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0759	RAHMEN CSP 10,0*13,0,0	Frame CSP 10,0*13,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0774	RAHMEN CSP 10,0*13,5	Frame CSP 10,0*13.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0716	RAHMEN CSP 10,0*14,0	Frame CSP 10,0*14,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0781	RAHMEN CSP 10,0*15,0	Frame CSP 10,0*15,0mm for mini oven / fixture / printer / 27*27mm	1
LW40.0773	RAHMEN CSP 10,2*10,2	Frame CSP 10.2*10.2mm for mini oven / fixture / printer / 27*27mm	1
LW40.0724	RAHMEN CSP 10,3*12,1	Frame CSP 10.3*12.1mm for mini oven / fixture / printer / 27*27mm	1
LW40.0765	RAHMEN CSP 10,5*13	Frame CSP 10.5*13mm for mini oven / fixture / printer / 27*27mm	1
LW40.0727	RAHMEN CSP 11*11	Frame CSP 11*11mm for mini oven / fixture / printer / 27*27mm	1
LW40.0766	RAHMEN CSP 11*12	Frame CSP 11*12mm for mini oven / fixture / printer / 27*27mm	1
LW40.0744	RAHMEN CSP 11*13	Frame CSP 11*13mm for mini oven / fixture / printer / 27*27mm	1
LW40.0770	RAHMEN CSP 11*14	Frame CSP 11*14mm for mini oven / fixture / printer / 27*27mm	1
LW40.0743	RAHMEN CSP 11*17	Frame CSP 11*17mm for mini oven / fixture / printer / 27*27mm	1
LW40.0713	RAHMEN CSP 11,5*11,5	Frame CSP 11.5*11.5mm for mini oven / fixture / printer / 27*27mm	1
LW40.0772	RAHMEN CSP 12*14	Frame CSP 12*14mm for mini oven / fixture / printer / 27*27mm	1
LW40.0750	RAHMEN CSP 12*15	Frame CSP 12*15mm for mini oven / fixture / printer / 27*27mm	1
LW40.0790	RAHMEN CSP 12*16	Frame CSP 12*16mm for mini oven / fixture / printer / 27*27mm	1
LW40.0735	RAHMEN CSP 12*18	Frame CSP 12*18mm for mini oven / fixture / printer / 27*27mm	1

LW50.0717	RAHMEN CSP 12*24	Frame CSP01,2*0,24mm for mini oven / fixture / printer / 27*27mm	1
LW40.0708	RAHMEN CSP 12,1*12,1	Frame CSP 12.1*12.1mm for mini oven / fixture / printer / 27*27mm	1
LW40.0705	RAHMEN CSP 13*13	Frame CSP 13*13mm for mini oven / fixture / printer / 27*27mm	1
LW40.0722	RAHMEN CSP 14*14	Frame CSP 14*14mm for mini oven / fixture / printer / 27*27mm	1
LW40.0791	RAHMEN CSP 14*18	Frame CSP 14*18mm for mini oven / fixture / printer / 27*27mm	1
LW40.0703	RAHMEN CSP 15*15	Frame CSP 15*15mm for mini oven / fixture / printer / 27*27mm	1
LW40.0793	RAHMEN CSP 15*17	Frame CSP 15*17mm for mini oven / fixture / printer / 27*27mm	1
LW40.0704	RAHMEN CSP 16*16	Frame CSP 16*16mm for mini oven / fixture / printer / 27*27mm	1
LW40.0734	RAHMEN CSP 16,1*16,1	Frame CSP 16.1*16.1mm for mini oven / fixture / printer / 27*27mm	1
LW40.0718	RAHMEN CSP 17*17	Frame CSP 17*17mm for mini oven / fixture / printer / 27*27mm	1
LW40.0785	RAHMEN CSP 18*18	Frame CSP 18*18mm for mini oven / fixture / printer / 27*27mm	1
LW40.0700	RAHMEN CSP 25,4*25,4	Frame CSP 25.4*25.4mm for mini oven / fixture / printer / 27*27mm	1
<b>8. REBALLING TOOLS</b>			
<b>8.5 Masks - CSP</b>			
LW50.0840	MASKE CSP 0,40 04*05	Reballing mask CSP n=20 / pitch=0.40 / grid=04*05 / ball=0.30	1
LW50.0888	MASKE CSP 0,40 06*06	Reballing mask CSP n=28/pitch=0.40/grid=06*06/ball=0.25	1
LW50.0893	MASKE CSP 0,40 06*06	Reballing mask CSP n=36/pitch=0.40/grid=06*06/ball=0.25	1
LW50.0870	MASKE CSP 0,40 07*07	Reballing mask CSP n=49 / pitch=0.40/grid=07*07/ball=0.25	1
LW50.0902	MASKE CSP 0,40 07*08	Reballing mask CSP n=51 / pitch=0.40/grid=07*08 / ball=0.25	1
LW50.0926	MASKE CSP 0,40 07*08	Reballing mask CSP n=55/pitch=0,40/ grid=07*08/ ball=0,26	1
LW50.0897	MASKE CSP 0,40 09*09	Reballing mask CSP n=69/pitch=0.40/grid=09*09/ ball=0.25	1
LW50.0938	MASKE CSP 0,40 13*13	Reballing mask CSP n=168/ pitch=0,40/ grid=13*13/ball=0,25	1
LW50.0867	MASKE CSP 0,40 20*20	Reballing mask CSP n=316/pitch=0.40/grid=20*20/ball=0.25	1
LW40.0896	MASKE CSP 0,50 03*03	Reballing mask CSP n=9 / pitch=0.50 / grid=03*03 / ball=0.30	1
LW40.0865	MASKE CSP 0,50 04*04	Reballing mask CSP n=16 / pitch=0.50 / grid=04*04 / ball=0.30	1
LW40.0859	MASKE CSP 0,50 04*04	Reballing mask CSP n=16 / pitch=0.50 / grid=04*04 / ball=0.30	1
LW50.0891	MASKE CSP 0,50 04*05	Reballing mask CSP n=20/pitch=0.50/grid=04*05/ball=0.30	1
LW40.0836	MASKE CSP 0,50 04*10	Reballing mask CSP n=44 / pitch=0.50 / grid=04*10 / ball=0.30	1
LW40.0838	MASKE CSP 0,50 04*10	Reballing mask CSP n=48 / pitch=0.50 / grid=04*10 / ball=0.30	1
LW40.0866	MASKE CSP 0,50 05*05	Reballing mask CSP n=25 / pitch=0.50 / grid=05*05 / ball=0.30	1
LW50.0925	MASKE CSP 0,50 05*06	Reballing mask CSP n=28/ pitch=0,50 /grid=05*06 / ball=0,30	1

LW50.0892	MASKE CSP 0,50 06*05	Reballing mask CSP n=25/pitch=0.50/grid=05*05/ball=0.30	1
LW50.0896	MASKE CSP 0,50 06*06	Reballing mask CSP n=36/pitch=0.50/ grid=06*06/ ball=0.30	1
LW50.0889	MASKE CSP 0,50 06*07	Reballing mask CSP n=42/pitch=0.50/grid=06*07/ball=0.315	1
LW50.0890	MASKE CSP 0,50 07*07	Reballing mask CSP n=48/pitch=0.50/grid=07*07/ball=0.30	1
LW40.0879	MASKE CSP 0,50 07*07	Reballing mask CSP n=34 / pitch=0.50 / grid=07*07 / ball=0.30	1
LW50.0894	MASKE CSP 0,50 07*07	Reballing mask CSP n=49/pitch=0.50/grid=07*07/ball=0.30	1
LW50.0924	MASKE CSP 0,50 07*08	Reballing mask CSP n=56/ pitch=0,50 /grid=07*08 / ball=0,30	1
LW40.0822	MASKE CSP 0,50 08*08	Reballing mask CSP n=48 / pitch=0.50 / grid=08*08 / ball=0.30	1
LW40.0863	MASKE CSP 0,50 08*08	Reballing mask CSP n=64 / pitch=0.50 / grid=08*08 / ball=0.30	1
LW50.0895	MASKE CSP 0,50 09*08	Reballing mask CSP n=72/pitch=0.50/grid=09*08/ball=0.30	1
LW50.0843	MASKE CSP 0,50 09*09	Reballing mask CSP n=69 / pitch=0.50 / grid=09*09 / ball=0.30	1
LW50.0883	MASKE CSP 0,50 09*09	Reballing mask CSP n=52 /pitch=0.50/grid=09*09 /ball=0.30	1
LW50.0886	MASKE CSP 0,50 09*09	Reballing mask CSP n=65/pitch=0.50/ grid=09*09/ ball=0.30	1
LW50.0836	MASKE CSP 0,50 09*09	Reballing mask CSP n=81 / pitch=0.50 / grid=09*09 / ball=0.30	1
LW50.0927	MASKE CSP 0,50 09*09	Reballingmask CSP n=81/pitch=0,50/grid=09*09/ ball=0,25	1
LW40.0871	MASKE CSP 0,50 10*10	Reballing mask CSP n=56 / pitch=0.50 / grid=10*10 / ball=0.30	1
LW50.0941	MASKE CSP 0,50 11*11	Reballing mask CSP n=96 / pitch=0.50 / grid=11*11 / ball=0.30	1
LW50.0850	MASKE CSP 0,50 11*11	Reballing mask CSP n=121 / pitch=0.50 / grid=11*11 / ball=0.30	1
LW40.0860	MASKE CSP 0,50 11*14	Reballing mask CSP n=140 / pitch=0.50 / grid=11*14 / ball=0.30	1
LW50.0835	MASKE CSP 0,50 12*12	Reballing mask CSP n=144 / pitch=0.50 / grid=12*12 / ball=0.30	1
LW50.0887	MASKE CSP 0,50 13*13	Reballing mask CSP n=129/pitch=0.50/grid=13*13/ball=0.30	1
LW50.0885	MASKE CSP 0,50 13*13	Reballing mask CSP n=169/pitch=0.50/grid=13*13/ ball=0.30	1
LW50.0877	MASKE CSP 0,50 14*14	Reballing mask CSP n=169 /pitch=0.50 /grid=14*14/ball=0.30	1
LW40.0820	MASKE CSP 0,50 14*14	Reballing mask CSP n=128 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW40.0872	MASKE CSP 0,50 14*14	Reballing mask CSP n=196 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW40.0876	MASKE CSP 0,50 14*14	Reballing mask CSP n=144 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW40.0883	MASKE CSP 0,50 14*14	Reballing mask CSP n=147 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW50.0832	MASKE CSP 0,50 14*14	Reballing mask CSP n=120 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW50.0803	MASKE CSP 0,50 14*14	Reballing mask CSP n=240 / pitch=0.50 / grid=14*14 / ball=0.30	1
LW50.0856	MASKE CSP 0,50 14*14	Reballing mask CSP n=133 / pitch=0.50 / grid=14*14 / ball=0.30	1

LW50.0872	MASKE CSP 0,50 15*15	Reballing mask CSP n=189 /pitch=0.50/grid=15*15/ball=0.25	1
LW40.0897	MASKE CSP 0,50 15*15	Reballing mask CSP n=132 / pitch=0.50 / grid=15*15 / ball=0.30	1
LW50.0900	MASKE CSP 0,50 15*15	Reballing mask CSP n=169 / pitch=0.50/grid=15*15/ ball=0.32	1
LW50.0876	MASKE CSP 0,50 16*16	Reballing mask CSP n=217/pitch=0.50/grid=16*16/ball=0.30	1
LW50.0816	MASKE CSP 0,50 17*17	Reballing mask CSP n=173 / pitch=0.50 / grid=17*17 / ball=0.25	1
LW40.0693	MASKE CSP 0,50 17*17	Reballing mask CSP n=173 / pitch=0.50 / grid=17*17 / ball=0.30	1
LW50.0857	MASKE CSP 0,50 17*17	Reballing mask CSP n=156 / pitch=0.50 / grid=17*17 / ball=0.30	1
LW40.0819	MASKE CSP 0,50 18*18	Reballing mask CSP n=180 / pitch=0.50 / grid=18*18 / ball=0.30	1
LW40.0868	MASKE CSP 0,50 18*18	Reballing mask CSP n=244 / pitch=0.50 / grid=18*18 / ball=0.30	1
LW50.0841	MASKE CSP 0,50 19*19	Reballing mask CSP n=293 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW40.0874	MASKE CSP 0,50 19*19	Reballing mask CSP n=305 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW40.0877	MASKE CSP 0,50 19*19	Reballing mask CSP n=259 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW50.0845	MASKE CSP 0,50 19*19	Reballing mask CSP n=247 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW50.0847	MASKE CSP 0,50 19*19	Reballing mask CSP n=185 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW50.0858	MASKE CSP 0,50 19*19	Reballing mask CSP n=240 / pitch=0.50 / grid=19*19 / ball=0.30	1
LW50.0865	MASKE CSP 0,50 19*25	Reballing mask CSP n=407/pitch=0.50/grid=19*25/ ball=0.30	1
LW40.0849	MASKE CSP 0,50 21*21	Reballing mask CSP n=289 / pitch=0.50 / grid=21*21 / ball=0.30	1
LW50.0940	MASKE CSP 0,50 22*22	Reballing mask CSP n=172/pitch=0.50/ grid=22*22/ ball=0.30	1
LW50.0873	MASKE CSP 0,50 23*23	Reballing mask CSP n=382 / pitch=0.50/grid=23*23/ball=0.25	1
LW50.0814	MASKE CSP 0,50 24*24	Reballing mask CSP n=320 / pitch=0.50 / grid=24*24 / ball=0.30	1
LW50.0869	MASKE CSP 0,50 24*24	Reballing mask CSP n=356 / pitch=0.50 / grid=24*24 / ball=0.30	1
LW40.0858	MASKE CSP 0,50 25*25	Reballing mask CSP n=345 / pitch=0.50 / grid=25*25 / ball=0.30	1
LW50.0848	MASKE CSP 0,50 26*26	Reballing mask CSP n=457 / pitch=0.50 / grid=26*26 / ball=0.30	1
LW50.0878	MASKE CSP 0,50 26*26	Reballing mask CSP n=456/pitch=0.50/grid=26*26/ball=0.30	1
LW40.0891	MASKE CSP 0,50 26*26	Reballing mask CSP n=409 / pitch=0.50 / grid=26*26 / ball=0.30	1
LW50.0829	MASKE CSP 0,50 26*26	Reballing mask CSP n=447 / pitch=0.50 / grid=26*26 / ball=0.30	1
LW50.0842	MASKE CSP 0,50 28*28	Reballing mask CSP n=468 / pitch=0.50 / grid=28*28 / ball=0.30	1
LW50.0806	MASKE CSP 0,50 28*28	Reballing mask CSP n=604 / pitch=0.50 / grid=28*28 / ball=0.30	1
LW50.0912	MASKE CSP 0,60 13*13	Reballing mask CSP n=96/pitch=0.60/grid=13*13/ball=0.30	1
LW50.0837	MASKE CSP 0,65 05*06	Reballing mask CSP n=30 / pitch=0.65 / grid=05*06 / ball=0.30	1

LW40.0878	MASKE CSP 0,65 06*10	Reballing mask CSP n=60 / pitch=0.65 / grid=06*10 / ball=0.4	1
LW50.0909	MASKE CSP 0,65 07*07	Reballing mask CSP n=49 / pitch=0.65 /grid=07*07/ball=0.35	1
LW50.0839	MASKE CSP 0,65 08*22	Reballing mask CSP n=176 / pitch=0.65 / grid=08*22 / ball=0.40	1
LW40.0848	MASKE CSP 0,65 09*09	Reballing mask CSP n=81 / pitch=0.65 / grid=09*09 / ball=0.4	1
LW50.0855	MASKE CSP 0,65 10*10	Reballing mask CSP n=58 / pitch=0.65 / grid=10*10 / ball=0.40	1
LW50.0884	MASKE CSP 0,65 11*11	Reballing mask CSP n=121/pitch=0.65/grid=11*11/ ball=0.30	1
LW50.0834	MASKE CSP 0,65 11*15	Reballing mask CSP n=137 / pitch=0.65 / grid=11*15 / ball=0.40	1
LW50.0813	MASKE CSP 0,65 11*20	Reballing mask CSP n=220 / pitch=0.65 / grid=11*20 / ball=0.40	1
LW50.0844	MASKE CSP 0,65 12*14	Reballing mask CSP n=168 / pitch=0.65 / grid=12*14 / ball=0.30	1
LW50.0849	MASKE CSP 0,65 12*18	Reballing mask CSP n=216 / pitch=0.65 / grid=12*18 / ball=0.40	1
LW50.0853	MASKE CSP 0,65 14*20	Reballing mask CSP n=225 / pitch=0.65 / grid=14*20 / ball=0.35	1
LW40.0826	MASKE CSP 0,65 17*17	Reballing mask CSP n=208 / pitch=0.65 / grid=17*17 ball=0.40	1
LW50.0861	MASKE CSP 0,65 18*18	Reballing mask CSP n=184 / pitch=0.65 / grid=18*18 / ball=0.40	1
LW40.0889	MASKE CSP 0,65 19*19	Reballing mask CSP n=280 / pitch=0.65 / grid=19*19 / ball=0.30	1
LW50.0830	MASKE CSP 0,65 21*21	Reballing mask CSP n=152 / pitch=0.65 / grid=21*21 / ball=0.45	1
LW50.0846	MASKE CSP 0,65 22*22	Reballing mask CSP n=160 / pitch=0.65 / grid=22*22 / ball=0.50	1
LW50.0828	MASKE CSP 0,65 22*22	Reballing mask CSP n=160 / pitch=0.65 / grid=22*22 / ball=0.30	1
LW50.0933	MASKE CSP 0,65 40*40	Reballing mask CSP n=1600/pitch=0,65/ grid=40*40/ ball=0,40	1
LW40.0802	MASKE CSP 0,75 06*08	Reballing mask CSP n=48 / pitch=0.75 / grid=06*08 / ball=0.30	1
LW40.0835	MASKE CSP 0,75 06*08	Reballing mask CSP n=48 / pitch=0.75 / grid=06*08 / ball=0.40	1
LW40.0856	MASKE CSP 0,75 07*08	Reballing mask CSP n=56 / pitch=0.75 / grid=07*08 / ball=0.40	1
LW40.0808	MASKE CSP 0,75 08*09	Reballing mask CSP n=52 / pitch=0.75 / grid=08*09 / ball=0.30	1
LW40.0834	MASKE CSP 0,80 04*15	Reballing mask CSP n=60 / pitch=0.80 / grid=04*15 / ball=0.40	1
LW50.0915	MASKE CSP 0,80 06*08	Reballing mask CSP n=48/pitch=0,80/ grid=0,6*0,8/ball=0.40	1
LW50.0917	MASKE CSP 0,80 06*08	Reballing mask CSP n=48/pitch=0,80 /grid=06*08/ball=0.40	1
LW40.0801	MASKE CSP 0,80 06*08	Reballing mask CSP n=48 / pitch=0.80 / grid=06*08 / ball=0.30	1
LW50.0880	MASKE CSP 0,80 06*09	Reballing mask CSP n=54 / pitch=0.80 /grid=06*09 /ball=0.50	1
LW50.0939	MASKE CSP 0,80 06*10	Reballing mask CSP n=60/pitch=0.80/ grid=06*10/ ball=0.45	1
LW40.0853	MASKE CSP 0,80 06*11	Reballing mask CSP n=60 / pitch=0.80 / grid=06*11 / grid=06*11 /	1
LW50.0921	MASKE CSP 0,80 06*15	Reballing mask CSP n=84/ pitch=0,80 /grid=0,6*15/ball=0.45	1

LW50.0875	MASKE CSP 0,80 06*15	Reballing mask CSP n=90/pitch=0.80/grid=06*15/ ball=0.45	1
LW40.0892	MASKE CSP 0,80 06*15	Reballing mask CSP n=90 / pitch=0.80 / grid=06*15 / ball=0.50	1
LW50.0838	MASKE CSP 0,80 06*16	Reballing mask CSP n=96 / pitch=0.80 / grid=06*16 /ball=0.45	1
LW40.0887	MASKE CSP 0,80 06*19	Reballing mask CSP n=114 / pitch=0.80 / grid=06*19 / ball=0.50	1
LW40.0854	MASKE CSP 0,80 07*07	Reballing mask CSP n=49 / pitch=0.80 / grid=07*07 / ball=0.50	1
LW50.0804	MASKE CSP 0,80 07*07	Reballing mask CSP n=49 / pitch=0.80 / grid=07*07 / ball=0.45	1
LW40.0830	MASKE CSP 0,80 08*08	Reballing mask CSP n=64 / pitch=0.80 / grid=08*08 / ball=0.40	1
LW40.0807	MASKE CSP 0,80 08*08	Reballing mask CSP n=64 / pitch=0.80 / grid=08*08 / ball=0.50	1
LW40.0888	MASKE CSP 0,80 08*08	Reballing mask CSP n=48 / pitch=0.80 / grid=08*08 / ball=0.45	1
LW50.0910	MASKE CSP 0,80 08*08	Reballing mask CSP n=52/pitch=0.80 /grid=08*08/ ball=0.50	1
LW40.0811	MASKE CSP 0,80 08*12	Reballing mask CSP n=66 / pitch=0.80 / grid=08*12 / ball=0.40	1
LW40.0851	MASKE CSP 0,80 08*12	Reballing mask CSP n=88 / pitch=0.80 / grid=08*12 / ball=0.40	1
LW40.0852	MASKE CSP 0,80 08*12	Reballing mask CSP n=88 / pitch=0.80 / grid=08*12 / ball=0.30	1
LW40.0867	MASKE CSP 0,80 08*12	Reballing mask CSP n=71 / pitch=0.80 / grid=08*12 / ball=0.45	1
LW40.0895	MASKE CSP 0,80 08*12	Reballing mask CSP n=96 / pitch=0.80 / grid=08*12 / ball=0.40	1
LW40.0850	MASKE CSP 0,80 08*14	Reballing mask CSP n=96 / pitch=0.80 / grid=08*14 / ball=0.4	1
LW50.0825	MASKE CSP 0,80 08*17	Reballing mask CSP n=136 / pitch=0.80 / grid=08*17 / ball=0.45	1
LW40.0817	MASKE CSP 0,80 09*09	Reballing mask CSP n=81 / pitch=0.80 / grid=09*09 / ball=0.40	1
LW40.0831	MASKE CSP 0,80 09*09	Reballing mask CSP n=73 / pitch=0.80 / grid=09*09 / ball=0.50	1
LW40.0873	MASKE CSP 0,80 09*09	Reballing mask CSP n=54 / pitch=0.80 / grid=09*09 / ball=0.45	1
LW50.0805	MASKE CSP 0,80 09*09	Reballing mask CSP n=81 / pitch=0.80 / grid=09*09 / ball=0.45	1
LW50.0812	MASKE CSP 0,80 09*10	Reballing mask CSP n=84 / pitch=0.80 / grid=09*10 / ball=0.30	1
LW50.0854	MASKE CSP 0,80 09*12	Reballing mask CSP n=108 / pitch=0.80 / grid=09*12 / ball=0.40	1
LW40.0875	MASKE CSP 0,80 09*12	Reballing mask CSP n=103 / pitch=0.80 / grid=09*12 / ball=0.40	1
LW40.0810	MASKE CSP 0,80 10*10	Reballing mask CSP n=100 / pitch=0.80 / grid=10*10 / ball=0.50	1
LW40.0818	MASKE CSP 0,80 10*10	Reballing mask CSP n=100 / pitch=0.80 / grid=10*10 / ball=0.40	1
LW40.0893	MASKE CSP 0,80 10*12	Reballing mask CSP n=63 / pitch=0.80 / grid=10*12 / ball=0.45	1
LW50.0801	MASKE CSP 0,80 10*12	Reballing mask CSP n=69 / pitch=0.80 / grid=10*12 / ball=0.45	1
LW50.0931	MASKE CSP 0,80 10*16	Reballingmask CSP n=92/pitch=0,80/ grid=10*16/ ball=0,50	1
LW40.0894	MASKE CSP 0,80 11*11	Reballing mask CSP n=121 / pitch=0.80 / grid=11*11 / ball=0.40	1

LW50.0901	MASKE CSP 0,80 11*11	Reballing mask CSP n=96/pitch=0.80/grid=11*11/ball=0.42	1
LW40.0833	MASKE CSP 0,80 12*12	Reballing mask CSP n=144 / pitch=0.80 / grid=12*12 / ball=0.40	1
LW50.0864	MASKE CSP 0,80 12*12	Reballing mask CSP n=144/pitch=0.80/grid=12*12/ball=0.50	1
LW50.0809	MASKE CSP 0,80 12*15	Reballing mask CSP n=167 / pitch=0.80 / grid=12*15 / ball=0.45	1
LW50.0833	MASKE CSP 0,80 12*16	Reballing mask CSP n=149 / pitch=0.80 / grid=12*16 / ball=0.45	1
LW50.0913	MASKE CSP 0,80 13*13	Reballing mask CSP n=169 /pitch=0,80/grid=13*13/ball=0.50	1
LW40.0806	MASKE CSP 0,80 13*13	Reballing mask CSP n=144 / pitch=0.80 / grid=13*13 / ball=0.30	1
LW40.0813	MASKE CSP 0,80 13*13	Reballing mask CSP n=144 / pitch=0.80 / grid=13*13 / ball=0.50	1
LW40.0827	MASKE CSP 0,80 13*13	Reballing mask n=169 / pitch=0.80 / grid=13*13 / ball=0.30	1
LW50.0918	MASKE CSP 0,80 14*14	Reballing mask CSP n=196/pitch=0,80/grid=14*14/ball=0.45	1
LW40.0809	MASKE CSP 0,80 14*14	Reballing mask CSP n=181 / pitch=0.80 / grid=14*14 / ball=0.50	1
LW50.0811	MASKE CSP 0,80 14*14	Reballing mask CSP n=182 / pitch=0.80 / grid=14*14 / ball=0.45	1
LW40.0840	MASKE CSP 0,80 14*14	Reballing mask CSP n=179 / pitch=0.80 / grid=14*14 / ball=0.50	1
LW40.0832	MASKE CSP 0,80 14*14	Reballing mask CSP n=160 / pitch=0.80 / grid=14*14 / ball=0.50	1
LW40.0837	MASKE CSP 0,80 14*14	Reballing mask CSP n=168 / pitch=0.80 / grid=14*14 / ball=0.40	1
LW40.0847	MASKE CSP 0,80 14*14	Reballing mask CSP n=179 / pitch=0.80 / grid=14*14 / ball=0.30	1
LW40.0857	MASKE CSP 0,80 14*14	Reballing mask CSP n=196 / pitch=0.80 / grid=14*14 / ball=0.40	1
LW40.0841	MASKE CSP 0,80 15*15	Reballing mask CSP n=176 / pitch=0.80 / grid=15*15 / ball=0.40	1
LW40.0842	MASKE CSP 0,80 15*15	Reballing mask CSP n=200 / pitch=0.80 / grid=15*15 / ball=0.40	1
LW50.0815	MASKE CSP 0,80 15*15	Reballing mask CSP n=212 / pitch=0.80 / grid=15*15 / ball=0.50	1
LW40.0855	MASKE CSP 0,80 15*15	Reballing mask CSP n=225 / pitch=0.80 / grid=15*15 / ball=0.40	1
LW50.0911	MASKE CSP 0,80 15*15	Reballing mask CSP n=225 /pitch=0.80/grid=15*15/ball=0.50	1
LW40.0804	MASKE CSP 0,80 16*16	Reballing mask CSP n=208 / pitch=0.80 / grid=16*16 / ball=0.50	1
LW40.0821	MASKE CSP 0,80 16*16	Reballing mask CSP n=134 / pitch=0.80 / grid=16*16 / ball=0.30	1
LW50.0930	MASKE CSP 0,80 17*17	Reballingmask CSP n=265/pitch=0,80 /grid=17*17 /ball=0,40	1
LW50.0920	MASKE CSP 0,80 17*17	Reballing mask CSP n=289/pitch=0,80/grid=17*17/ ball=0.50	1
LW40.0829	MASKE CSP 0,80 17*17	Reballing mask CSP n=208 / pitch=0.80 / grid=17*17 / ball=0.40	1
LW40.0861	MASKE CSP 0,80 17*17	Reballing mask CSP n=240 / pitch=0.80 / grid=17*17 / ball=0.50	1
LW40.0882	MASKE CSP 0,80 17*17	Reballing mask CSP n=289 / pitch=0.80 / grid=17*17 / ball=0.40	1
LW50.0802	MASKE CSP 0,80 17*17	Reballing mask CSP n=208 / pitch=0.80 / grid=17*17 / ball=0.45	1

LW50.0874	MASKE CSP 0,80 18*18	Reballing mask CSP n=324/pitch=0.80 /grid=18*18/ball=0.40	1
LW50.0916	MASKE CSP 0,80 18*18	Reballing mask CSP n=240/pitch=0,80 /grid=18*18/ ball=0.40	1
LW50.0827	MASKE CSP 0,80 18*18	Reballing mask CSP n=240 / pitch=0.80 / grid=18*18 / ball=0.50	1
LW40.0839	MASKE CSP 0,80 19*19	Reballing mask CSP n=288 / pitch=0.80 / grid=19*19 / ball=0.50	1
LW50.0871	MASKE CSP 0,80 22*22	Reballing mask CSP n=484 / pitch=0.80 /grid=22*22/ ball=0.40	1
LW50.0934	MASKE CSP 0,80 32*32	Reballing mask CSP n=1600/pitch=0,80/ grid=32*32/ ball=0,40	1
LW40.0812	MASKE CSP 0,81 08*09	Reballing mask CSP n=72 / pitch=0.81 / grid=08*09 / ball=0.40	1
LW40.0803	MASKE CSP 0,90 15*15	Reballing mask CSP n=176 / pitch=0.90 / grid=15*15 / ball=0.50	1
LW50.0922	MASKE CSP 1,00 05*05	Reballing mask CSP n=24/ pitch=1,00 /grid=05*05 / ball=0.40	1
LW40.0899	MASKE CSP 1,00 05*09	Reballing mask CSP n=44 / pitch=1.00 / grid=05*09 / ball=0.40	1
LW40.0828	MASKE CSP 1,00 07*07	Reballing mask CSP n=49 / pitch=1.00 / grid=07*07 / ball=0.40	1
LW50.0914	MASKE CSP 1,00 08*08	Reballing mask CSP n=64/pitch=1.00/grid=0,8*0,8/ball=0.45	1
LW50.0831	MASKE CSP 1,00 08*08	Reballing mask CSP n=63 / pitch=1.00 / grid=08*08 / ball=0.40	1
LW40.0843	MASKE CSP 1,00 08*08	Reballing mask CSP n=56 / pitch=1.00 / grid=08*08 / ball=0.50	1
LW40.0846	MASKE CSP 1,00 08*08	Reballing mask CSP n=56 / pitch=1.00 / grid=08*08 / ball=0.50	1
LW40.0890	MASKE CSP 1,00 08*08	Reballing mask CSP n=64 / pitch=1.00 / grid=08*08 / ball=0.60	1
LW40.0884	MASKE CSP 1,00 08*08	Reballing mask CSP n=64 / pitch=1.00 / grid=08*08 / ball=0.30	1
LW40.0864	MASKE CSP 1,00 08*10	Reballing mask CSP n=80 / pitch=1.00 / grid=08*10 / ball=0.60	1
LW40.0845	MASKE CSP 1,00 10*10	Reballing mask CSP n=80 / pitch=1.00 / grid=10*10 / ball=0.50	1
LW40.0898	MASKE CSP 1,00 10*10	Reballing mask CSP n=100 / pitch=1.00 / grid=10*10 / ball=0.60	1
LW50.0932	MASKE CSP 1,00 10*16	Reballingmask CSP n=91/pitch=1,00/grid=10*16/ ball=0,50	1
LW40.0862	MASKE CSP 1,00 10*16	Reballing mask CSP n=120 / pitch=1.00 / grid=10*16 / ball=0.50	1
LW50.0919	MASKE CSP 1,00 12*12	Reballing mask CSP n=144 / pitch=1,00 /grid=12*12/ball=0.60	1
LW40.0805	MASKE CSP 1,00 12*12	Reballing mask CSP n=144 / pitch=1.00 / grid=12*12 / ball=0.50	1
LW40.0844	MASKE CSP 1,00 12*12	Reballing mask CSP n=132 / pitch=1.00 / grid=12*12 / ball=0.50	1
LW40.0815	MASKE CSP 1,00 14*14	Reballing mask CSP n=196 / pitch=1.00 / grid=14*14 / ball=0.50	1
LW50.0866	MASKE CSP 1,00 15*15	Reballing mask CSP n=225/pitch=1.00/grid=15*15/ball=0.60	1
LW50.0863	MASKE CSP 1,00 15*15	Reballing mask CSP n=225 /pitch=1.00/grid=15*15/ball=0.50	1
LW50.0851	MASKE CSP 1,00 16*16	Reballing mask CSP n=256 / pitch=1.0 / grid=16*16 / ball=0.40	1
LW40.0816	MASKE CSP 1,00 16*16	Reballing mask CSP n=224 / pitch=1.00 / grid=16*16 / ball=0.50	1

LW50.0879	MASKE CSP 1,00 16*16	Reballing mask CSP n=256 / pitch=1.00 /grid=16*16/ball=0.50	1
LW50.0935	MASKE CSP 1,00 26*26	Reballing mask CSP n=676/ pitch=1,00/ grid=26*26/ball=0,40	1
LW50.0908	MASKE CSP 1,27 06*11	Reballing mask CSP n=66 / pitch=1.27mm / grid=06*11 / ball=0.30	1
LW50.0923	MASKE CSP 1,27 06*11	Reballing mask CSP n=66/ pitch=1,27 /grid=0,5*11 / ball=0.45	1
LW40.0814	MASKE CSP 1,27 08*10	Reballing mask CSP n=76 / pitch=1.27 / grid=08*10 / ball=0.40	1
LW50.0936	MASKE CSP 1,27 20*20	Reballing mask CSP n=400/ pitch=1,27/ grid=20*20/ ball=0,40	1
LW50.0937	MASKE CSP DIV 05*06	Reballing mask CSP n=30/ pitch=div. grid=05*06/ ball=0,25	1
LW50.0808	MASKE CSP DIV 06*12	Reballing mask CSP n=60 / pitch=div. / grid=06*12 / ball=0.45	1
LW40.0880	MASKE CSP DIV 07*07	Reballing mask CSP n=54 / pitch=div. / grid=07*07 / ball=0.50	1
LW50.0929	MASKE CSP DIV 07*09	Reballing mask CSP n=108/pitch=div./grid=07*09/ ball=0,30	1
LW40.0886	MASKE CSP DIV 08*14	Reballing mask CSP n=47 / pitch=div. / grid=08*14 / ball=0.30	1
LW40.0825	MASKE CSP DIV 09*12	Reballing mask CSP n=62 / pitch=div. / grid=09*12 / ball=0.30	1
LW40.0881	MASKE CSP DIV 09*12	Reballing mask CSP n=60 / pitch=div. / grid=09*12 / ball=0.45	1
LW40.0885	MASKE CSP DIV 10*13	Reballing mask CSP n=44 / pitch=div./ grid=10*13 / ball=0.40	1
LW50.0928	MASKE CSP DIV 12*12	Reballing mask CSP n=53/pitch=div./ grid=12*12 / Ball=0,30	1
<b>8. REBALLING TOOLS</b>			
<b>8.6 Frames - BGA eco</b>			
LW40.0498	RAHMEN ECO 08*11	Reballing frame BGA 08*11mm eco for mini oven, fixture 45*45mm	1
LW40.0489	RAHMEN ECO 08,7*11,6	Reballing frame BGA 08.7*11.6mm eco for mini oven, fixture 45*45mm	1
LW40.0491	RAHMEN ECO 08,7*15,6	Reballing frame BGA 08.7*15.6mm eco for mini oven, fixture 45*45mm	1
LW50.0301	RAHMEN ECO 11*12	Reballing frame BGA 11*12mm eco for mini oven, fixture 45*45mm	1
LW50.0302	RAHMEN ECO 11*13	Reballing frame BGA 11*13mm eco for mini oven, fixture 45*45mm	1
LW40.0480	RAHMEN ECO 11*14	Reballing frame BGA 11*14mm eco for mini oven, fixture 45*45mm	1
LW40.0463	RAHMEN ECO 14*22	Reballing frame BGA 14*22mm eco for mini oven, fixture 45*45mm	1
LW40.0457	RAHMEN ECO 14*27	Reballing frame BGA 14*27mm eco for mini oven, fixture 45*45mm	1
LW40.0448	RAHMEN ECO 15*15	Reballing frame BGA 15*15mm eco for mini oven, fixture 45*45mm	1
LW40.0458	RAHMEN ECO 17*17	Reballing frame BGA 17*17mm eco for mini oven, fixture 45*45mm	1
LW40.0468	RAHMEN ECO 19*19	Reballing frame BGA 19*19mm eco for mini oven, fixture 45*45mm	1
LW40.0482	RAHMEN ECO 20*20	Reballing frame BGA 20*20mm eco for mini oven, fixture 45*45mm	1
LW40.0461	RAHMEN ECO 21*21	Reballing frame BGA 21*21mm eco for mini oven, fixture 45*45mm	1
LW40.0487	RAHMEN ECO 22*22	Reballing frame BGA 22*22mm eco for mini oven, fixture 45*45mm	1

LW40.0446	RAHMEN ECO 23*23	Reballing frame BGA 23*23mm eco for mini oven, fixture 45*45mm	1
LW40.0444	RAHMEN ECO 25*25	Reballing frame BGA 25*25mm eco for mini oven, fixture 45*45mm	1
LW40.0497	RAHMEN ECO 25*27	Reballing frame BGA 25*27mm eco for mini oven, fixture 45*45mm	1
LW40.0442	RAHMEN ECO 27*27	Reballing frame BGA 27*27mm eco for mini oven, fixture 45*45mm	1
LW40.0495	RAHMEN ECO 28*34	Reballing frame BGA 28*34mm eco for mini oven, fixture 45*45mm	1
LW40.0473	RAHMEN ECO 29*29	Reballing frame BGA 29*29mm eco for mini oven, fixture 45*45mm	1
LW40.0440	RAHMEN ECO 30*30	Reballing frame BGA 30*30mm eco for mini oven, fixture 45*45mm	1
LW40.0450	RAHMEN ECO 31*31	Reballing frame BGA 31*31mm eco for mini oven, fixture 45*45mm	1
LW50.0303	RAHMEN ECO 32*32	Reballing frame BGA 32*32mm eco for mini oven, fixture 45*45mm	1
LW40.0452	RAHMEN ECO 33*33	Reballing frame BGA 33*33mm eco for mini oven, fixture 45*45mm	1
LW40.0465	RAHMEN ECO 35*35	Reballing frame BGA 35.5*35.5mm eco for mini oven, fixture 45*45mm	1
LW40.0438	RAHMEN ECO 35*35	Reballing frame BGA 35*35mm eco for mini oven, fixture 45*45mm	1
LW40.0455	RAHMEN ECO 35*35 XBO	Reballing frame BGA 35*35mm eco special / for mini oven, fixture 45*45mm	1
LW40.0432	RAHMEN ECO 37*37	Reballing frame BGA 37.5*37.5mm eco for mini oven, fixture 45*45mm	1
LW40.0435	RAHMEN ECO 40*40	Reballing frame BGA 40*40mm eco for mini oven, fixture 45*45mm	1
LW40.0478	RAHMEN ECO 42*42	Reballing frame BGA 42.5*42.5mm eco for mini oven, fixture 45*45mm	1
LW40.0493	RAHMEN ECO 43,5*43,5	Reballing frame BGA 43.5*43.5mm eco for mini oven, fixture 45*45mm	1
<b>8. REBALLING TOOLS</b>			
<b>8.7 Masks - BGA eco</b>			
LW50.0585	MASKE ECO 0,65 49*49	Reballing mask BGA 45*45mm n=2401/pitch=0.65/grid=49*49/ ball=0.45	1
LW50.0593	MASKE ECO 0,65 49*49	Reballing mask BGA 45*45mm n=2401/pitch=0,65/grid=49*49/ ball=0.40	1
LW50.0592	MASKE ECO 0,65 50*50	Reballing mask BGA 45*45mm n=2500/pitch=0.65 / grid=50*50 / ball=0.40	1
LW50.0584	MASKE ECO 0,65 50*50	Reballing mask BGA 45*45mm n=2500/pitch=0.65/grid=50*50/ ball=0.45	1
LW50.0583	MASKE ECO 0,80 42*42	Reballing mask BGA 45*45mm n=1764pitch=0.80/grid=42*42/ ball=0.45	1
LW50.0510	MASKE ECO 0,80 42*42	Reballing mask BGA 45*45mm n=1764 / pitch=0.80 / grid=42*42 / ball=0.50	1
LW50.0591	MASKE ECO 0,80 42*42	Reballing mask BGA 45*45mm n=1764/pitch=0,80/grid=42*42/ball=0.4	1
LW50.0511	MASKE ECO 0,80 43*43	Reballing mask BGA 45*45mm special n=1849 / pitch=0.80 / grid=43*43 / ball=0.50	1
LW50.0582	MASKE ECO 0,80 43*43	Reballing mask BGA 45*45mm n=1849/pitch=0.80/grid=43*43/ ball=0.45	1
LW50.0590	MASKE ECO 0,80 43*43	Reballing mask BGA 45*45mm n=1849/pitch=0,80/grid=43*43/ball=0.4	1
LW50.0532	MASKE ECO 1,00 11*19	Reballing mask BGA 45*45mm n=209 / pitch=1.00 / grid=11*19 / ball=0.60	1
LW50.0606	MASKE ECO 1,00 15*15	Reballing mask BGA 45*45mm n=225/ pitch=1,00/grid=15*15 /ball=0,45	1

LW50.0539	MASKE ECO 1,00 18*18	Reballing mask BGA 45*45mm n=324 / pitch=1.00 / grid=18*18 / ball=0.60	1
LW50.0536	MASKE ECO 1,00 26*26	Reballing mask BGA 45*45mm n=676 / pitch=1.00 / grid=26*26 / ball=0.60	1
LW50.0589	MASKE ECO 1,00 42*42	Reballing mask BGA 45*45mm n=1764/pitch=1,00/grid=42*42/ ball=0.40	1
LW50.0577	MASKE ECO 1,00 42*42	Reballing mask BGA 45*45mm n=1764 / pitch=1.00 / grid=42*42 / ball=0.50	1
LW50.0581	MASKE ECO 1,00 42*43	Reballing mask BGA 45*45mm n=1806/pitch=1,00/grid=42*43/ball=0.45	1
LW40.0687	MASKE ECO 1,00 43*43	Reballing mask BGA 45*45mm n=1849 / pitch=1.00 / grid=43*43 / ball=0.60	1
LW50.0580	MASKE ECO 1,00 43*43	Reballing mask BGA 45*45mm n=1849/pitch=1,00 / grid=43*43/ ball=0.45	1
LW50.0588	MASKE ECO 1,00 43*43	Reballing mask BGA 45*45mm n=1849/pitch=1,00 /grid=43*43/ ball=0.40	1
LW50.0576	MASKE ECO 1,00 43*43	Reballing mask BGA 45*45mm n=1849/pitch=1,00 / grid=43*43/ball=0.50	1
LW50.0509	MASKE ECO 1,00 44*44	Reballing mask BGA 45*45mm n=1936 / pitch=1.00 / grid=44*44 / ball=0.45	1
LW40.0688	MASKE ECO 1,00 44*44	Reballing mask BGA 45*45mm n=1936 / pitch=1.00 / grid=44*44 / ball=0.60	1
LW40.0695	MASKE ECO 1,03 41*41	Reballing mask BGA 45*45mm n=1681 / pitch=1.03 / grid=41*41 / ball=0.60	1
LW50.0527	MASKE ECO 1,06 40*40	Reballing mask BGA 45*45mm n=1600 / pitch=1.067 / grid=40*40 / ball=0.60	1
LW50.0516	MASKE ECO 1,12 39*39	Reballing mask BGA 45*45mm n=1521 / pitch=1.12 / grid=39*39 / ball=0.6	1
LW40.0696	MASKE ECO 1,20 06*09	Reballing mask BGA 45*45mm n=54 / pitch=1.20 / grid=06*09 / ball=0.60	1
LW50.0587	MASKE ECO 1,27 33*33	Reballing mask BGA 45*45mm n=1089/pitch=1,27/ grid=33*33/ ball=0.40	1
LW40.0686	MASKE ECO 1,27 34*34	Reballing mask BGA 45*45mm n=1156 / pitch=1.27 / grid=34*34 / ball=0.762	1
LW50.0586	MASKE ECO 1,27 34*34	Reballing mask BGA 45*45mm n=1156/pitch=1,27/ grid=34*34/ball=0.40	1
LW40.0543	MASKE ECO 1,27 35*35	Reballing mask BGA 45*45mm n=1225 / pitch=1.27 / grid=35*35 / ball=0.762	1
LW50.0508	MASKE ECO 1,50 30*30	Reballing mask BGA 45*45mm n=900 / pitch=1.50 / grid=30*30 / ball=0.762	1
LW50.0617	MASKE ECO 0,67 22*22	Reballing mask BGA 45*45mm special n=956 / pitch=0,67/grid=22*22 / ball=0.35	1
LW50.0553	MASKE ECO 0,80 08*17	Reballing mask BGA 45*45mm special n=136 / pitch=0.80 / grid=08*17 / ball=0.45	1
LW50.0613	MASKE ECO 0,80 12*08	Reballing mask BGA 45*45mm special n=63 / pitch=0.80 / grid=08*12 / ball=0.35	1
LW50.0624	MASKE ECO 0,80 28*28	Reballing mask BGA 45*45mm special n=712pitch=0,80./grid=28*28 / ball=0.60	1
LW50.0622	MASKE ECO 0,80 35*35	Reballing mask BGA 45*45mm special n=969/ pitch=0,80./grid=35*35 / ball=0.50	1
LW50.0564	MASKE ECO 0,80 37*37	Reballing mask BGA 45*45mm special n=676 / pitch=0.80/grid=19*19 / ball=0.50	1
LW50.0612	MASKE ECO 0,92 24*24	Reballing mask BGA 45*45mm special n=532/pitch=0,92/grid=24*24 /ball=0,5	1
LW50.0605	MASKE ECO 1,00 20*20	Reballing mask BGA 45*45mm special n=292/ pitch=1,00/grid=20*20 /ball=0.762	1
LW50.0616	MASKE ECO 1,00 22*22	Reballing mask BGA 45*45mm special n=448/pitch=1,00 /grid=22*22 / ball=0,60	1
LW40.0697	MASKE ECO 1,00 22*22	Reballing mask BGA 45*45mm special n=382 / pitch=1.00 / grid=22*22 / ball=0.4	1

LW50.0537	MASKE ECO 1,00 22*22	Reballing mask BGA 45*45mm special n=456 / pitch=1.00 / grid=22*22 / ball=0.60	1
LW50.0567	MASKE ECO 1,00 22*22	Reballing mask BGA 45*45mm special n=382 / pitch=1.00 / grid=22*22 / ball=0.60	1
LW50.0542	MASKE ECO 1,00 24*24	Reballing mask BGA 45*45mm special n=552 / pitch=1.00 / grid=24*24 / ball=0.762	1
LW50.0609	MASKE ECO 1,00 24*24	Reballing mask BGA 45*45mm special n=468 / pitch=1,00 /grid=24*24 /ball=0,50	1
LW50.0597	MASKE ECO 1,00 26*26	Reballing mask BGA 45*45mm special n=572/pitch=1,00/grid=26*26 /ball=0.60	1
LW50.0544	MASKE ECO 1,00 30*30	Reballing mask BGA 45*45mm special n=458 / pitch=1.00 / grid=30*30 / ball=0.50	1
LW50.0623	MASKE ECO 1,00 30*30	Reballing mask BGA 45*45mm special n=701/ pitch=1,00./grid=30*30 / ball=0.60	1
LW50.0614	MASKE ECO 1,00 32*32	Reballing mask BGA 45*45mm special n=847 / pitch=1,00 /grid=32*32 / ball=0.60	1
LW50.0598	MASKE ECO 1,00 34*34	Reballing mask BGA 45*45mm special n=864/ pitch=1,00 /grid=34*34 /ball=0.60	1
LW40.0698	MASKE ECO 1,00 34*34	Reballing mask BGA 45*45mm special n=1017 / pitch=1.00 / grid=34*34 / ball=0.60	1
LW50.0531	MASKE ECO 1,00 34*34	Reballing mask BGA 45*45mm special n=1137 / pitch=1.00 / grid=34*34 / ball=0.60	1
LW50.0607	MASKE ECO 1,00 36*36	Reballing mask BGA 45*45mm special n=1148/ pitch=1,00 /grid=36*36 /ball=0,50	1
LW50.0533	MASKE ECO 1,00 37*37	Reballing mask BGA 45*45mm special n=761 / pitch=1.00 / grid=37*37 / ball=0.50	1
LW50.0570	MASKE ECO 1,00 41*41	Reballing mask BGA 45*45mm special n=1342 / pitch=1.00 / 41*41 / ball=0.60	1
LW50.0569	MASKE ECO 1,00 41*41	Reballing mask BGA 45*45mm special n=1252 / pitch=1,00 / 41*41 / ball=0.65	1
LW50.0601	MASKE ECO 1,00 41*41 PS3 RB	Reballing mask BGA 45*45mm special n=1342 / pitch=1.00 / grid=41*41 / ball=0.762	1
LW50.0596	MASKE ECO 1,00 41*41 PS3 RB	Reballing mask BGA 45*45mm special n=1236 / pitch=1.00 / grid=41*41 / ball=0.65	1
LW50.0599	MASKE ECO 1,00 41*41 PS3 RB	Reballing mask BGA 45*45mm special n=1252 / pitch=1.00 / grid=41*41 / ball=0.762	1
LW50.0608	MASKE ECO 1,01 30*30	Reballing mask BGA 45*45mm special n=676/ pitch=1,01 /grid=30*30 /ball=0,50	1
LW50.0547	MASKE ECO 1,06 28*28	Reballing mask BGA 45*45mm special n=652 / pitch=1.067 / grid=28*28 / ball=0.50	1
LW50.0621	MASKE ECO 1,07 28*28	Reballing mask BGA 45*45mm special n=652 / pitch=1,07 / grid=28*28 / ball=0.60	1
LW50.0604	MASKE ECO 1,27 07*09	Reballing mask BGA 45*45mm special n=53 /pitch=1.27 /grid=07*09/ ball=0.30	1
LW50.0551	MASKE ECO 1,27 19*19	Reballing mask BGA 45*45mm special n=360 / pitch=1.27 / grid=19*19 / ball=0.762	1
LW50.0618	MASKE ECO 1,27 26*26	Reballing mask BGA 45*45mm special n=480 pitch=1,27 /grid=26*26 / ball=0.60	1
LW50.0535	MASKE ECO 1,27 29*29	Reballing mask BGA 45*45mm special n=480 / pitch=1.27 / grid=29*29 / ball=0.762	1
LW50.0540	MASKE ECO 1,27 31*31	Reballing mask BGA 45*45mm special n=520 / pitch=1.27 / grid=31*31 / ball=0.762	1
LW50.0620	MASKE ECO 1,27 32*32	Reballing mask BGA 45*45mm special n=540 / pitch=1.27 / grid=32*32 / ball=0.762	1
LW50.0550	MASKE ECO 1,27 33*33	Reballing mask BGA 45*45mm special n=560 / pitch=1.27 / grid=33*33 / ball=0.762	1
LW50.0552	MASKE ECO 1,27 33*33	Reballing mask BGA 45*45mm special n=560 / pitch=1.27 / grid=33*33 / ball=0.762	1
LW40.0648	MASKE ECO 1,27 34*34	Reballing mask BGA 45*45mm special n=672 / pitch=1.27 / grid=34*34 / ball=0.762	1

LW40.0516	MASKE ECO 1,27 35*35	Reballing mask BGA 45*45mm special n=600 / pitch=1.27 / grid=35*35 / ball=0.762	1
LW50.0627	MASKE ECO 1,50 13*13	Reballing mask BGA 45*45mm eco n=196 pitch=1,50./grid=13*13 / ball=0.762	1
LW50.0566	MASKE ECO 2,53 17*17	Reballing mask BGA 45*45mm special n=544 / pitch=1,79 / grid=17*17 / ball=0.90	1
LW50.0530	MASKE ECO DIV 36*36	Reballing mask BGA 45*45mm special n=1469 / pitch=div./ grid=36*36 / ball=0.50	1
LW50.0548	MASKE ECO DIV DIV	Reballing mask BGA 45*45mm special n=1218 / pitch=div / grid=div / ball=0.40	1
LW50.0603	MASKE ECO DIV. 12*12	Reballing mask BGA 45*45mm special n=108/ pitch=div./grid=12*12/ball=0,30	1
LW50.0615	MASKE ECO DIV. 32*32	Reballing mask BGA 45*45mm special n=998 / pitch=div./ grid=32*32 / ball=0.47	1