

# SURFACE MOUNT / SMT PRODUCTS

For large packages, large boards, and multi-layered PCBs. Handles BGAs, CSPs, QFPs, and all SMDs.

## SMT REWORK REPAIR SYSTEM GSR-302

RoHS



**SYSTEM CONFIGURATION** Nozzles sold separately.

ITEM	GSR-302
Preheater	XPR-1000
Hot-Air Rework Station	XFC-301
Handpiece Holder	XK-2
Board Holder	Included with XPR-1000

For large packages, large boards, and multi-layered PCBs. Handles BGAs, CSPs, QFPs, and all SMDs.

## SMT REWORK REPAIR SYSTEM GSR-212

RoHS



**SYSTEM CONFIGURATION** Nozzles sold separately.

ITEM	GSR-212
Preheater	XPR-1000
Hot-Air Rework Station	XFC-210
Handpiece Holder	XK-2
Board Holder	Included with XPR-1000

Handles QFPs, SOLs, and discrete components.

## SMT REWORK REPAIR SYSTEM GSR-110

RoHS



**SYSTEM CONFIGURATION** Nozzles sold separately.

ITEM	GSR-110
Preheater	XPR-600
Hot-Air Rework Station	XFC-110
Handpiece Holder	XK-1
Board Holder	XU-1

Handles BGAs, CSPs, QFPs, and all SMDs.

## SMT REWORK REPAIR SYSTEM GSR-301/300

RoHS



**SYSTEM CONFIGURATION** Nozzles sold separately.

ITEM	GSR-301	GSR-300
Preheater	XPR-600	XPR-600
Hot-Air Rework Station	XFC-301	XFC-300
Handpiece Holder	XK-2	XK-2
Board Holder	XU-1	XU-1

Handles BGAs, CSPs, QFPs, and all SMDs.

## SMT REWORK REPAIR SYSTEM GSR-210

RoHS



**SYSTEM CONFIGURATION** Nozzles sold separately.

ITEM	GSR-210
Preheater	XPR-600
Hot-Air Rework Station	XFC-210
Handpiece Holder	XK-2
Board Holder	XU-1

# SURFACE MOUNT / SMT PRODUCTS

## XFC Series Optional Nozzles (PAT.)

### XNSG series (for SO, SOL)

P / N	A		D		Applicable Package
	inch	mm	inch	mm	
XNSG 4.4 × 10	0.394	10	0.189	4.8	SO16
XNSG 5.6 × 13	0.591	15	0.224	5.7	SSOP8T
XNSG 7.6 × 15	0.630	16	0.283	8.2	SOL20/26, TSOP20/24
XNSG 7.6 × 18	0.748	19	0.283	8.2	TSOP24
XNSG 7.6 × 12.7	0.472	12	0.283	8.2	SOL20, TSOP28
XNSG 19 × 8	0.315	8	0.748	19.0	TSOP32
XNSG 8.6 × 18	0.748	19	0.343	8.7	TSOP28/32
XNSG 18.5 × 12	0.591	15	0.728	19.5	TSOP40/48
XNSG 13 × 28	1.142	29	0.531	13.5	PSOP44
XNSG 4.4 × 5	0.197	5	0.189	4.8	SO8

### XNSG series (for SOJ)

P / N	A		D		Applicable Package
	inch	mm	inch	mm	
XNSG 15 × 8.2	0.591	15	0.323	8.2	SOJ20

### XNPG series (for PLCC)

P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNPG 7.3×12.5	0.272	6.9	0.354	9	0.272	6.9	0.551	14	PLCC 7.3 X 12.5
XNPG 11.5×11.5	0.394	10	0.512	13	0.394	10	0.512	13	PLCC 28
XNPG 11.5×14	0.591	15	0.591	15	0.394	10	0.512	13	PLCC 11.5 X 14
XNPG 17.5×17.5	0.591	15	0.728	18.5	0.591	15	0.728	18.5	PLCC 44
XNPG 20 × 20	0.748	19	0.827	21	0.748	19	0.827	21	PLCC 52
XNPG 25 × 25	0.945	24	1.024	26	0.945	24	1.024	26	PLCC 68
XNPG 30 × 30	1.142	29	1.220	31	1.142	29	1.220	31	PLCC 84

Custom nozzles are available. Please contact a **goot** distributor.

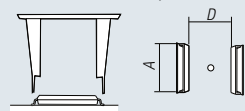
### XNQG series (for QFP, BQFP)

P / N	A		B		C		D		Applicable Package
	inch	mm	inch	mm	inch	mm	inch	mm	
XNQG 12 × 12	0.472	12	0.551	14	0.472	12	0.551	14	QFP64, QFP48, QFP80, BQFP28
XNQG 14 × 14	0.591	15	0.677	17.2	0.591	15	0.677	17.2	SQFP100, TQF100
XNQG 14 × 20	0.591	15	0.665	16.9	0.827	21	0.906	23	SQFP12, QFP80, QFP100
XNQG 16 × 16	0.630	16	0.826	21	0.629	16	0.826	21	BQFP100T25, QFP163
XNQG 17.5×17.5	0.591	15	0.728	18.5	0.591	15	0.728	18.5	BQFP84
XNQG 24 × 24	0.827	21	0.953	24.2	0.827	21	0.953	24.2	BQFP132, FQFP176
XNQG 28 × 28	1.142	29	1.220	31	1.142	29	1.220	31	QFP128, SQFP208
XNQG 32 × 32	1.220	31	1.315	33.4	1.220	31	1.315	33.4	BFP184T, FQFP408
XNQG 37 × 37	1.220	31	1.457	37	1.220	31	1.457	37	BQFP196
XNQG 40 × 40	1.535	39	1.654	42	1.535	39	1.654	42	BQFP244

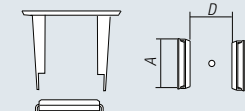
### XNBG series (for BGA)

P / N	A		Applicable Package
	inch	mm	
XNBG 8 × 8	0.393	10	BGA16, BGA25
XNBG 12 × 12	0.551	14	BGA49, BGA64
XNBG 13 × 13	0.590	15	BGA49, BGA64
XNBG 15 × 15	0.669	17	BGA81, BGA100
XNBG 17 × 17	0.748	19	BGA121
XNBG 19 × 19	0.787	20	BGA144, BGA121
XNBG 23 × 23	0.984	25	BGA169
XNBG 27 × 27	1.142	29	BGA324, BGA225, BGA289
XNBG 35 × 35	1.457	37	BGA529, BGA484
XNBG 38 × 38	1.575	40	BGA576, BGA625
XNBG 40 × 40	1.654	42	BGA625, BGA676

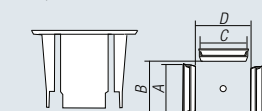
#### XNSG series SO, SOL



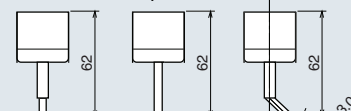
#### XNSG series SOJ



#### XNQG series QFP / BQFP

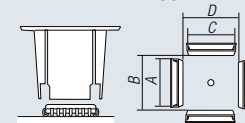


#### For Discrete Components

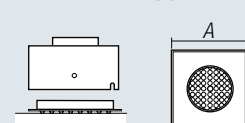


Vacuum pick-up cup for XFC-301/300/210/110

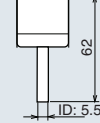
#### XNPG series PLCC



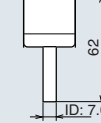
#### XNBG series BGA



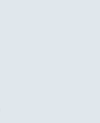
#### XNDG-1



#### XNDG-2



#### XNDG-3



#### XNDG-4



#### XNDG-5



Fixes the XFC series handpiece securely.

### HANDPIECE HOLDER XK-1

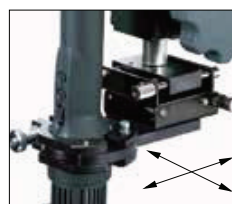


- Holder for **XFC** handpiece to attach to **XPR-600/1000** preheater.

MODEL	XK-1
Dimensions	Holder : 330(L) x 110(W) x 160(H)mm Column : ø28 x 390mm
Weight	Holder : 1.5kg / Column: 480g

Secure fixing and micro-adjustment of the XFC series handpiece.

### HANDPIECE HOLDER XK-2



- Allows micro-adjustment of the **XFC** series handpiece while holding an SMD. Makes mounting work easy.

MODEL	XK-2
X direction adjustable range	20mm
Y direction adjustable range	20mm
Control knob pitch	0.8mm per one complete turn
Dimensions	Holder : 330(L) x 110(W) x 160(H)mm Column : ø28 x 390mm
Weight	Holder : 1.8kg / Column : 480g