



# EXPERT 10.6 IV

## Adjustable 410 W under-heating system

410 W Rework station with IR under-heating system (80 x 60 mm<sup>2</sup>) and automated SMD placement process by Auto Vision Placer (AVP) incl. software EASYSOLDER 07 and DBL 06 control unit with six high-resolution sensors inputs for thermocouples (Type K).

This unit is particularly suitable for small PCBs found in smartphones and PDAs with fine-pitch components in varying package dimensions.

### Top Features

Camera-supported Rework



#### Flexibility

Various PCBs and component sizes



#### Under-heating system

Flexible use of the heating system, used for mobile phones



#### Multifunctionality

One device for all processes, including desoldering, pad cleaning, automatic positioning and soldering



#### Process control

Automatic profiler for under- and top-heating system



#### Software

Simple, intuitive, tablet-compatible

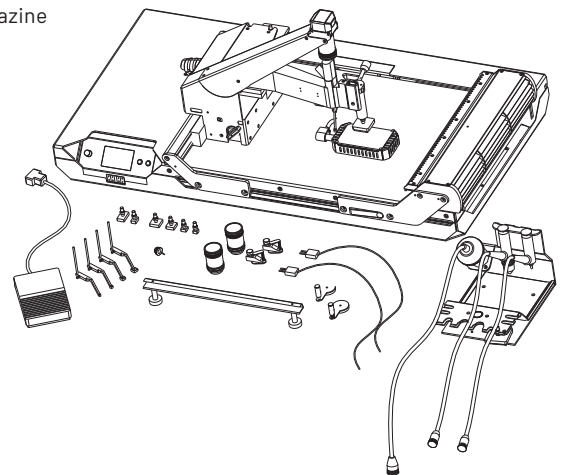


#### Precision

Placement precision within 15 µm

### Standard equipment

- Tool set for dispensing, placing, residual solder removal and soldering with magazine
- Set of placement nozzles (BGA/CSP) 3 mm, 5 mm, 8 mm, 10 mm
- Set of soldering nozzles (CSP/QFN), 9 mm, 11 mm 13 mm, 16 mm
- Set of soldering nozzles (SO) 10x15 mm<sup>2</sup>, 15x25 mm<sup>2</sup>
- Placement nozzle for manual placement of small components (0,5 mm)
- Two camera lenses (BGA und CSP)
- Two thermocouple sensors (type K)
- Two PCB magnet holder 40.5 mm (standard)
- PCB support rail 40.5 mm
- Two PCB clips to install at hand rest
- Foot switch
- Rework ABC and manual
- Intuitive software EASYSOLDER 07 with touch integration



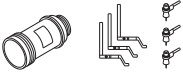



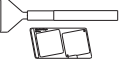
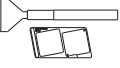
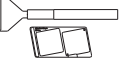
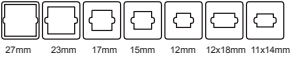
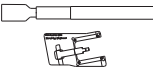
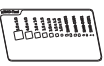

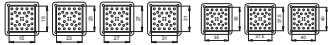
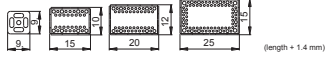
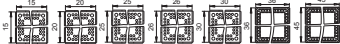
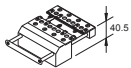



### Technical details

<b>Power consumption:</b>	1000 VA
<b>Power solder pen:</b>	300 W, 35 l/min
<b>Power under-heating system:</b>	110 W                      2 x IR-lamps
<b>Size under-heating system:</b>	80 x 60 mm <sup>2</sup>
<b>Max. PCB size:</b>	100 x 80 mm <sup>2</sup>
<b>Resolution motion system:</b>	0,001 mm
<b>Placement accuracy:</b>	± 0,015 mm                      (Flip Chip)*
	± 0,030 mm                      (CSP)
	± 0,040 mm                      (BGA)

<b>High resolution CMOS-camera:</b>	5 Mio. Pixel USB2
<b>Camera field of view (FOV):</b>	14 x 18 mm <sup>2</sup> (Flip Chip)*
	28 x 37 mm <sup>2</sup> (CSP)
	37 x 50 mm <sup>2</sup> (BGA)
<b>Mains:</b>	1 Phase, 230VAC, Fuse 16A
<b>Pressurized air:</b>	5-8 bar, 100 l/min,                      clean, dry air
<b>Dimensions:</b>	865 x 460 mm <sup>2</sup>

\* Optional extras

## EXPERT 10.6 IV: Optional extras

	Article nr.	Name
	SF66.0004	Micro SMD nozzles and lens for AVP 4 licence MS, 3 n, 3 solder n, lens FC
 Report	DVSX.0007	Report mit LP-Identifikation für ES-05, Lizenz RP
	SF71.0003	IR temperatur sensor for AVP04.1
	SF64.0501	Tool slider for AVP 4.1
	SF64.0525	Dipp tool 32x0,08mm with squeegee for tool slider
	SF64.0526	Dipp tool 32x0,15mm with squeegee for tool slider
	SF64.0527	Dipp tool 32x0,22mm with squeegee for tool slider
	AT10.0100	Chip Frame Set Dipp Tool 7 pcs (11x14,12x18,12,15,17,23,27)
	SF64.0520	Print tool with squeegee for tool slider
	SF64.0540	µSMD tool for tool slider
 Maxi-BGA AVP4	SF66.0110	Lens Maxi BGA for AVP4/4XL, f=16mm, 65*85mm
	LW40.1099	Solder Nozzle Set BGA 7 for all (98%) types of BGA, 7 pieces
	LW01.0400	Soldering Tool Set SO (lead free) for all SO...SOL...TSOP, 4 pieces
	LW01.0100	Soldering Tool Set QFP for all PLCC ...QFP, 7 pieces
	SF03.0019	PCB Clamping Holder 40.5 with 3 fingers for mobile phone pbcs on HB-05/ IR/IRD/IRH/IRF/HIF
	SF71.0004	Side Camera (lens 35mm) for ES 05, camera, stand, cable, DVD
	SF71.0007	Lens Side Camera f=16mm
	DB00.0025	Nitrogen input for DBL 04/05/06 (2.p.r) reduces consumption of N2 for vacuum

More accessories and consumables at [www.martin-smt.de](http://www.martin-smt.de)