

# Products

## Products

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## How to choose the right system – Product portfolio and selection of oven

All reflow soldering systems of SMT have a ratio of **3 : 1 in pre-heating zones to peak zone**

Reflow system Type	Nos. of chambers Pre-heating / Peak / Cooling	Length of heating chamber	L. of heat. chamber / 4 min. solder.process = production speed	Possible nos. Of PCBs per minute	Possible cycle-time of PCBs	Sample of profile
SMT <b>XXS</b>	2 / 1 / 1	1.2 m	0.30 m / min. Depend. on process ( 0.20 – 0.40m / min.)	1.5	40 sec.	
SMT <b>XS</b>	3 / 1 / 1	1.6 m	0.40 m / min. Depend. on process ( 0.30 – 0.60m / min.)	2.0	30 sec.	
SMT Quattro Peak <b>S</b>	3 / 2 / 1 (1-5)	2.0 m	0.50 m / min. Depend. on process ( 0.40 – 0.70m / min.)	2.5	25 sec.	
SMT Quattro Peak <b>M</b>	3 / 2 / 1 (1-5)	2.6 m	0.65 m / min. Depend. on process ( 0.50 – 0.85m / min.)	3.0	20 sec.	
SMT Quattro Peak <b>L</b>	4 / 2 / 2 (1-5)	3.2 m	0.80 m / min. Depend. on process ( 0.65 – 1.05m / min.)	4.0	15 sec.	
SMT Quattro Peak <b>L plus</b>	5 / 3 / 2 (1-5)	3.8 m	0.95 m / min. Depend. on process ( 0.75 – 1.25m / min.)	4.5	13 sec.	
SMT Quattro Peak <b>XL</b>	5 / 3 / 3 (1-5)	4.2 m	1.05 m / min. Depend. on process ( 0.85 – 1.40m / min.)	5.0	12 sec.	
SMT Quattro Peak <b>XL plus</b>	6 / 4 / 3 (1-5)	4.8 m	1.20 m / min. Depend. on process ( 0.95 – 1.60m / min.)	6.0	10 sec.	

Length of PCB    mm + 50 mm distance    x parts per minute    = required production speed    = type of system  
 \*Example:    150 mm + 50 mm = 200mm    x    4    =    800 mm = 0.80 m/min    = SMT Quattro Peak **L**

**Conclusion: The required size does not depend on product but rather on the required capacity.**

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**SMT**  
 Maschinen- und Vertriebs GmbH & Co. KG



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## How to choose the right system

### Quattro Peak L & XL in the expansion stage Plus

All reflow systems in the version "PLUS" have been developed for extremely complex componentry in high-volume production facilities. The "PLUS"-version guarantees highest system availability, max. stability of processes by highest operational capacity.

Reflow system Type	Nos. Of chambers Pre-heating / Peak / Cooling	Length of heating chamber	Length of heating chamber / 4 min. Soldering process = production speed	Possible nos. of PCB's per minute	Possible cycle-time for PCB's
SMT Quattro Peak L	4 / 2 / 2 (1-5)	3,0 m	0,80 m / min. depending on process ( 0,60 – 1,00m / min.)	4	15 sec.
SMT Quattro Peak L Plus	5 / 3 / 2 (1-5)	3,3 m	0,85 m / min. depending on process ( 0,60 – 1,00m / min.)	4,5	14 sec.
SMT Quattro Peak XL	5 / 3 / 3 (1-5)	4,2 m	1,05 m / min. depending on process ( 0,85 – 1,40m / min.)	5,0	12 sec.
SMT Quattro Peak XL Plus	6 / 4 / 3 (1-5)	4,8 m	1,20 m / min. depending on process ( 0,95 – 1,60m / min.)	6,0	10 sec.

Length of PCB mm + 50mm distance x nos. per minute

= required production speed = type of system

\*example: 290mm + 50mm = 340mm x 2.5 (24 sec. frequency) = 850mm = 0.85 m/min = SMT Quattro Peak L Plus

