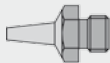






Hot Air Nozzles

Hot air nozzles for HAP 1 and HAP 200

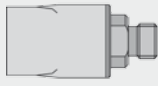

Order-no.	Model	Description	Width A	Thickness B	
T005 87 617 28		Adapter M6 for HAP 200			
T005 87 277 74	F02	Flat nozzle	8,0 mm	1,5 mm	
T005 87 277 73	F04	Flat nozzle	10,5 mm	1,5 mm	
T005 87 277 72	F06	Flat nozzle	12,0 mm	1,5 mm	

Hot air nozzles for HAP 1 and HAP 200







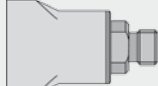



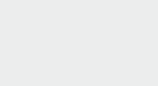





Order-no.	Model	Description	Diameter D	Distance C	Length C	
T005 87 278 23	R02	Round nozzle	Ø 0,8 mm			 
T005 87 278 21	R04	Round nozzle	Ø 1,2 mm			 
T005 87 278 22	R06	Round nozzle	Ø 3,0 mm			 
T005 87 277 87	R10	Round nozzle long	Ø 2,0 mm		50 mm	 
T005 87 277 86	R08	Round nozzle long bent	Ø 2,0 mm		50 mm	 
T005 87 277 76	FD2	Dual nozzle	Ø 1,5 mm	8 mm		 
T005 87 277 75	FD4	Dual nozzle	Ø 1,5 mm	10 mm		 



Hot air nozzles for HAP 1 and HAP 200 2 sides heated (Type D, Length X =heated side)

Order-no.	Model	Description	Length X	Width Y		
T005 87 277 79	D04	Hot air nozzle, 2 sides heated with pre-heating plate	10,5 mm	10,5 mm		
T005 87 277 82	D06	Hot air nozzle, 2 sides heated with pre-heating plate	13,0 mm	10,0 mm		
T005 87 277 81	D08	Hot air nozzle, 2 sides heated with pre-heating plate	15,0 mm	10,0 mm		
T005 87 277 84	D10	Hot air nozzle, 2 sides heated with pre-heating plate	18,0 mm	10,0 mm		

Hot air nozzles for HAP 1 and HAP 200 4 sides heated (Type Q)


Order-no.	Model	Description	Length X	Width Y		
T005 87 277 77	Q02	Hot air nozzle, 4 sides heated	6,0 mm	6,5 mm		
T005 87 277 78	Q04	Hot air nozzle, 4 sides heated	6,0 mm	9,0 mm		
T005 87 277 80	Q06	Hot air nozzle, 4 sides heated with pre-heating plate	15,0 mm	10,0 mm		
T005 87 277 83	Q08	Hot air nozzle, 4 sides heated with pre-heating plate	12,5 mm	15,0 mm		
T005 87 278 12	SK709	Hot air nozzle, 4 sides heated with pre-heating plate	12,0 mm	12,0 mm		
T005 87 277 85	Q10	Hot air nozzle, 4 sides heated with pre-heating plate	18,0 mm	18,0 mm		
T005 87 278 08	R01	Measuring nozzle for calibration				

Hot Air Nozzles



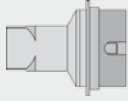




- The ND and NQ nozzles have an integrated pre-heating plate for pre-heating components by means of contact heat. Air outlet slots are located around the plate with a width of approx. 1 mm for the hot air.

Hot air nozzles for HAP 3000 (WHA 3000P / V), HAP 2 (WHA 2000) and HAP 3 (WHA 700, WHA 300)

Order-no.	Model	Description	Diameter Ø	
T005 87 368 81	NR04	Round nozzle, without vacuum	Ø 2,5 mm	
T005 87 368 67	NR05	Round nozzle, without vacuum	Ø 4,0 mm	
T005 87 368 70	NR10	Round nozzle, without vacuum	Ø 7,0 mm	
T005 87 507 70	NRV07	Hot air nozzle with vacuum for small components	Ø 7,0 mm	
T005 87 507 72	NRV10	Hot air nozzle with vacuum for small components	Ø 10,0 mm	
T005 87 507 74	NRV12	Hot air nozzle with vacuum for small components	Ø 12 mm	
T005 87 368 82	NR02	Round nozzle, bent without vacuum	Ø 1,7 mm x 45°	
T005 87 507 65	NR06	Round nozzle, bent without vacuum	Ø 6,0 mm x 45°	
T005 87 368 83	DR05	Dual nozzle round, without vacuum	2 x Ø 2,5 mm	



2 sides heated (Type ND, Width X = heated side)

Order-no.	Model	Description	Length X	Width Y		
T005 87 368 43	ND05	Hot air nozzle, 2 sides heated	10,7 mm	10,7 mm		
T005 87 368 42	ND 10	Hot air nozzle, 2 sides heated	14,0 mm	10,0 mm		
T005 87 368 41	ND 15	Hot air nozzle, 2 sides heated	19,0 mm	12,0 mm		
T005 87 368 40	ND 20	Hot air nozzle, 2 sides heated	21,5 mm	14,8 mm		
T005 87 369 32	ND SK535/A	Hot air nozzle, without edge for thin components	8,5 mm	20,0 mm		
T005 87 369 33	ND SK535/B	Hot air nozzle, without edge for thin components	10,5 mm	20,0 mm		
T005 87 507 34	ND SK699	Hot air nozzle, without edge for thin components	12,5 mm	20,0 mm		
T005 87 369 34	ND SK535/C	Hot air nozzle, without edge for thin components	14,0 mm	20,0 mm		

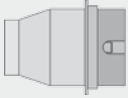


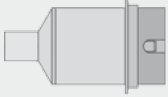
Hot Air Nozzles

Four sides heated (Type NQ)

Order-no.	Model	Description	Length X	Width Y	
T005 87 368 39	NQ05	Hot air nozzle, 4 sides heated	10,7 mm	10,7 mm	
T005 87 368 38	NQ15	Hot air nozzle, 4 sides heated	14,5 mm	10,0 mm	
T005 87 368 18	NQ10	Hot air nozzle, 4 sides heated	14,8 mm	14,8 mm	
T005 87 368 37	NQ20	Hot air nozzle, 4 sides heated	15,5 mm	13,0 mm	
T005 87 368 14	NQ25	Hot air nozzle, 4 sides heated	18,0 mm	18,0 mm	
T005 87 507 21	NQ30	Hot air nozzle, 4 sides heated	17,5 mm	23,5 mm	
T005 87 368 07	NQ35	Hot air nozzle, 4 sides heated	20,5 mm	20,5 mm	
T005 87 368 80	NQ	Hot air nozzle, 4 sides heated	24,0 mm	12,0 mm	
T005 87 368 04	NQ40	Hot air nozzle, 4 sides heated	26,0 mm	26,0 mm	
T005 87 368 33	NQ45	Hot air nozzle, 4 sides heated	31,3 mm	31,3 mm	
T005 87 368 91	NQ50	Hot air nozzle, 4 sides heated	36,0 mm	36,0 mm	
T005 87 368 90	NQ55	Hot air nozzle, 4 sides heated	43,0 mm	43,0 mm	




4 sides heated (Type NQ) continuation

Order-no.	Model	Description	Length X	Width Y	
T005 87 507 41	NQT 10	Hot air nozzle, 4 sides heated, without protruding edge for thin components	14,8 mm	14,8 mm	
T005 87 507 42	NQT25	Hot air nozzle, 4 sides heated, without protruding edge for thin components	18,0 mm	18,0 mm	
T005 87 507 39	NQT	Hot air nozzle, 4 sides heated, without protruding edge for thin components	22,0 mm	22,0 mm	
T005 87 368 75	NA 20	Measuring nozzle for calibration			

Special tips on request

Rubber insert for CSF heads (spare)

Order-no.	Description	
T005 87 137 99	Ø 4,5 mm, 10 pieces	
T005 87 137 98	Ø 10,0 mm, 10 pieces	

Hot Air Nozzles



- The patented hot air nozzles of the WQB rework systems, coupled with digital control of the hot air temperature and its flow rate provide an even convective heating of the component. This in turn ensures reatability of the reflow process.

Hot air nozzle for WQB 4000SOPS

Order-no.	Nozzle housing inside	Nozzle housing outside	
T005 87 479 47	7,6 x 7,99 mm	8,6 x 8,9 mm	
T005 87 479 43	6,5 x 6,5 mm	7,5 x 7,5 mm	
T005 87 479 45	8,5 x 8,5 mm	9,5 x 9,5 mm	
T005 87 479 61	8,5 x 10,6 mm	9,5 x 11,6 mm	
T005 87 549 67	10,0 x 10,0 mm	11,0 x 11,0 mm	
T005 87 478 48	12,0 x 12,0 mm	13,0 x 13,0 mm	
T005 87 479 04	13,5 x 13,5 mm	14,3 x 14,3 mm	
T005 87 479 35	15,5 x 15,5 mm	16,5 x 16,5 mm	
T005 87 478 93	15,0 x 11,0 mm	16,0 x 12,0 mm	
T005 87 548 36	18,5 x 10,0 mm	19,5 x 11,0 mm	
T005 87 479 77	15,5 x 23,5 mm	16,5 x 24,5 mm	
T005 87 478 33	18,0 x 18,0 mm	20,0 x 20,0 mm	
T005 87 547 70	21,0 x 21,0 mm	23,0 x 23,0 mm	
T005 87 548 20	22,0 x 22,0 mm	24,0 x 24,0 mm	
T005 87 477 64	25,0 x 25,0 mm	27,0 x 27,0 mm	
T005 87 479 93	27,0 x 23,0 mm	29,0 x 25,0 mm	
T005 87 478 50	27,0 x 27,0 mm	29,0 x 29,0 mm	
T005 87 479 27	29,0 x 29,0 mm	31,0 x 31,0 mm	
T005 87 479 99	28,0 x 32,0 mm	30,0 x 34,0 mm	
T005 87 479 06	33,0 x 33,0 mm	35,0 x 35,0 mm	
T005 87 548 87	35,0 x 35,0 mm	37,0 x 37,0 mm	
T005 87 477 53	37,0 x 37,0 mm	39,0 x 39,0 mm	
T005 87 478 71	39,5 x 39,5 mm	41,5 x 41,5 mm	
T005 87 478 74	42,0 x 42,0 mm	44,0 x 44,0 mm	
T005 87 549 03	45,0 x 11,0 mm	47,0 x 13,0 mm	
T005 87 477 63	46,0 x 46,0 mm	48,0 x 48,0 mm	
T005 87 479 16	47,0 x 47,0 mm	49,0 x 49,0 mm	
T005 87 479 41	49,0 x 49,0 mm	51,0 x 51,0 mm	
T005 87 479 85	57,0 x 18,5 mm	59,0 x 20,0 mm	

Special sizes on request