

# GAS NOZZLE FOR BGA AND CSP COMPONENTS

ACCESSORIES

2.202

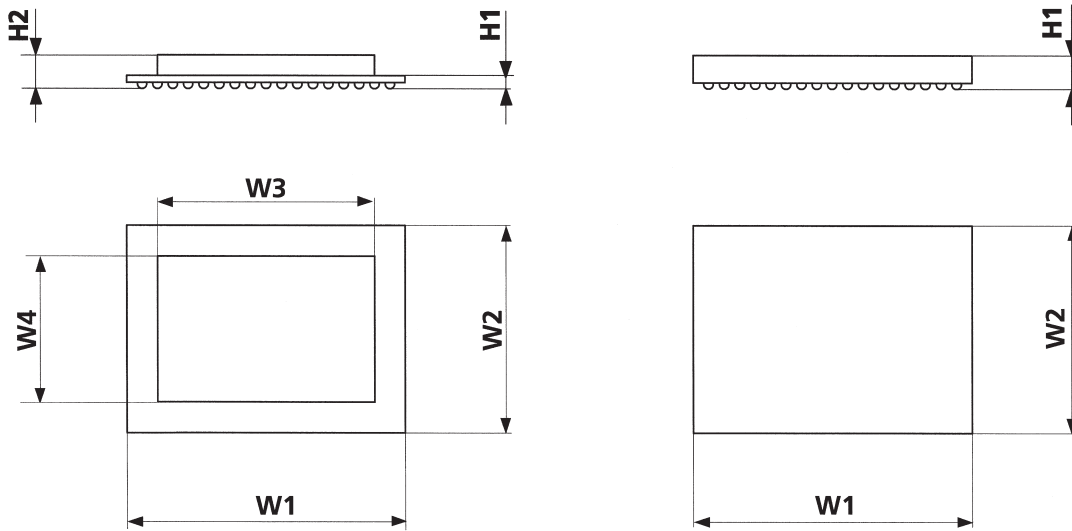
**APPLICATION: SMT/BGA****ZEVAC-LINE: DRS+ONYX**

The complete DRS/ONYX product line documentation is composed of the following data sheets:

**MACHINES** 2.103-4.102**ACCESSORIES** 2.201-2.202**OPTIONS** 2.301-2.312

**GAS NOZZLE DEFINITION**

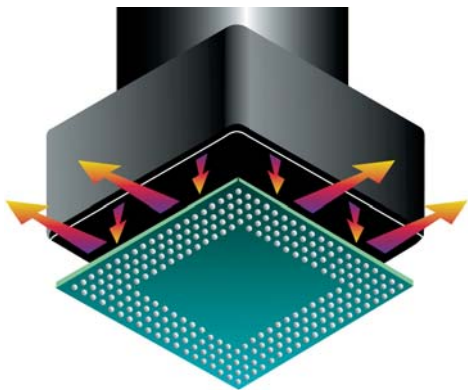
FOR QUOTATION AND ORDERS PLEASE SPECIFY IF NOZZLES ARE FOR DRS OR ONYX MACHINES



These dimensions are necessary for a correct gas nozzle production.

**GASNOZZLES EZ**

For PBGA, TBGA, CBGA, CCGA, SBGA



Order No

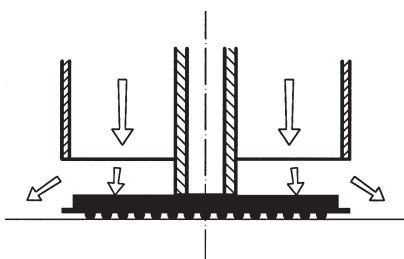
Dimensions in mm

Order No	W1	W2	W3	W4
CH N 394 EZ 394	10	10	10	10
CH N 700 EZ 700	18	18	14	14
CH N 826 EZ 826	21	21	17	17
CH N 984 EZ 984	25	25	21	21
CH N 1062 EZ 1062	27	27	23	23
CH N 1220 EZ 1220	31	31	27	27
CH N 1377 EZ 1377	35	35	31	31
CH N 1574 EZ 1574	40	40	36	36
CH N 1732 EZ 1732	44	44	40	40

**EZ Gas nozzle / EZL Gas nozzle for ONYX 29**

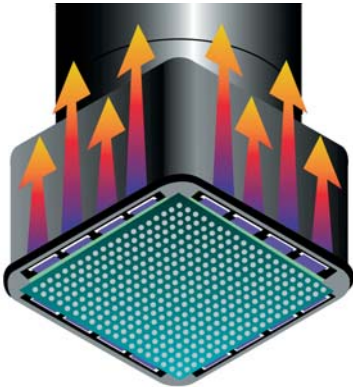
Distance to next component: 0 mm possible

Vacuum tube is adjustable



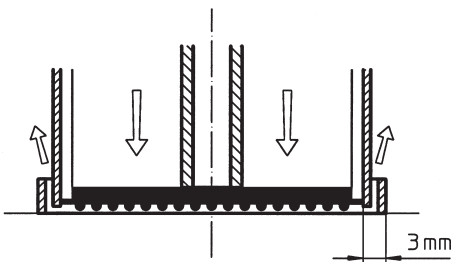
**GAS NOZZLES X**

For PBGA, TBGA, CBGA, CCGA, SBGA



**X Gas nozzle**

Distance to next component:  
minimum 3.0 mm



Order No

Dimensions in mm

	W1	W2	W3	W4	H1
CH N 400 X 400-11	10	10	10	10	07
CH N 562 X 881-17	14	22	10	18	13
CH N 687 X 687-15	17	17	13	13	11
CH N 773 X 773-16	19.3	19.3	15	15	12
CH N 842 X 842-20	21	21	16	16	16
CH N 845 X 845-24	21	21	16	16	20
CH N 921 X 921-22	23	23	19	19	18
CH N 996 X 996-13	25	25	21	21	09
CH N 1081 X 1081-15	27	27	23	23	11
CH N 1081 X 1081-29	27	27	23	23	25
CH N 1232 X 1232-17	31	31	27	27	13
CH N 1396 X 1396-28	35	35	31	31	24
CH N 1433 X 1433-17	36	36	32	32	13
CH N 1484 X 1484-20	37.3	37.3	33	33	16
CH N 1494 X 1494-27	37.5	37.5	33	33	23
CH N 1594 X 1594-18	40	40			14
CH N 1606 X 1606-22	40.4	40.4	36	36	18
CH N 1708 X 1708-36	43	43			32
CH N 1786 X 1786-21	45	45			17

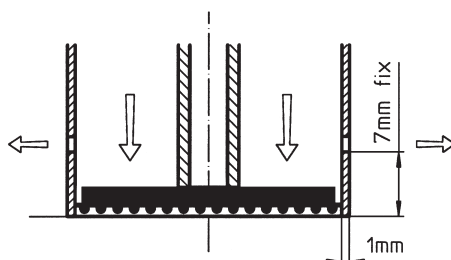
**GAS NOZZLES Y**

For PBGA, TBGA, CBGA, CCGA, SBGA



**Y Gas nozzle**

Distance to next component:  
1.0 mm possible  
Vacuum tube is adjustable ( max. 8 mm )



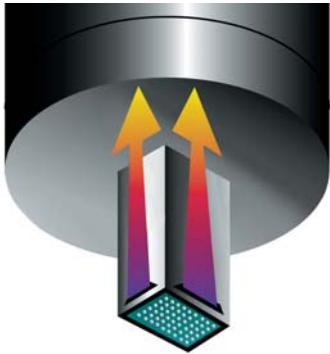
Order No

Dimensions in mm

	W1	W2	W3	W4	
CH N 488 Y 488	12	12	12	12	
CH N 842 Y 1000	21	25	17	21	
CH N 1235 Y 1235	31	31	27	27	
CH N 1244 Y 1244	31.2	31.2	27	27	
CH N 1345 Y 1345	33.8	33.8	29	29	
CH N 1393 Y 1393	35	35	31	31	
CH N 1483 Y 1483	37.2	37.2	34	34	
CH N 1582 Y 1582	39.8	39.8	35	35	
CH N 1590 Y 1590	40	40	36	36	
CH N 1688 Y 1688					

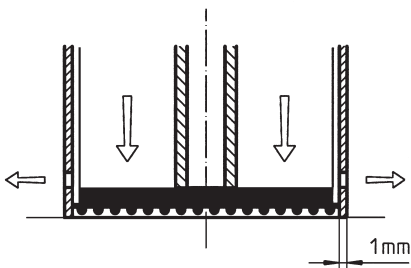
**NS...Y...-... GAS NOZZLE**

For **µBGA, CSP, Flip Chip, Special appl.**



**NS...Y...-... Gas nozzle**

Distance to next component:  
minimum 1.0 mm



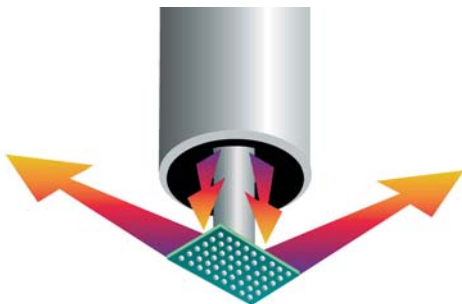
Order No

Dimensions in mm

	W1	W2	W3	W4	H1
CH NS 122 Y 488-10	3	12.1			07
CH NS 236 Y 320-12	5.8	8			09
CH NS 242 Y 320-16	5.9	8			13
CH NS 246 Y 364-17	6.0	9			14
CH NS 250 Y 368-17	6.1	9.1			14
CH NS 307 Y 650-13	7.6	16.3			10
CH NS 311 Y 397-13	7.7	9.9			10
CH NS 318 Y 318-13	7.9	7.9			10
CH NS 320 Y 320-17	8	8			14
CH NS 325 Y 503-11	8	12.6			08
CH NS 326 Y 366-14	8.1	9.1			11
CH NS 334 Y 551-20	8.3	13.8			17
CH NS 338 Y 358-08	8.4	8.9			05
CH NS 362 Y 462-20	9	11.5			17
CH NS 399 Y 557-17	10	13.9			14
CH NS 403 Y 442-17	10	11			14
CH NS 559 Y 874-15	14	22			12
CH NS 562 Y 881-17	14	22.1			14
CH NS 595 Y 595-17	14.9	14.9			14
CH NS 600 Y 600-16	15	15			13
CH NS 842 Y 842-20	21.1	21.1			17
CH NS 925 Y 985-80	23.3	24.8			76
CH NS 995 Y 995-18	25	25			15
CH NS1389 Y 1389-16	35	35			12
CH NS1389 Y 1389-20	35	35			16
CH NS1586 Y 1586-20	40	40			16

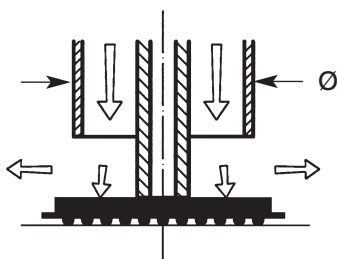
**DVG / DVS GAS NOZZLE**

For **µBGA, CSP, Flip Chip, 0201, 0402**



**DVG / DVS Gas nozzle**

Distance to next component:  
0 mm possible



Order No

Dimensions in mm

Vacuum tube inside in mm

	Ø	Ø
CH N 28 DVG-2	7	2
CH N 36 DVG-2	9	2

**Vacuum tube spring loaded**

CH N 28 DVS-2	7	2
CH N 36 DVS-3	9	3

**For 0201 / 0402 components**

CH N 28 DVG-02	7	0.2
CH N 36 DVG-04	9	0.4

**GAS NOZZLE NS...Y...GSH**

For **Shieldings**



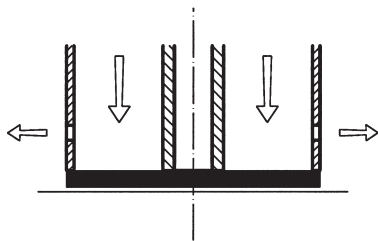
Order No

Dimensions in mm

Order No	Dimensions in mm	
	W1	W2
CH NS 758 Y 1544 GSH	19	39
CH NS 972 Y 1241 GSH	24.5	31.3
CH NS 990 Y 1242 GSH	24.9	31.3
CH NS 1278 Y 1295 GSH	32.2	32.6
CH NS 1285 Y 1301 GSH	32.4	32.8
CH NS 1219 Y 1464 GSH	35.8	37
CH NS 1453 Y 1494 GSH	36.7	37.7

**NS...Y...GSH Gas nozzle**

Distance to next component: minimum 1.0 mm



**R GAS NOZZLE**

For **DRS 20**



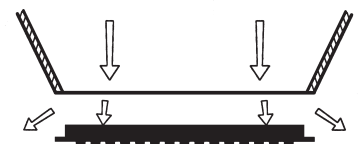
Order No

Dimensions in mm

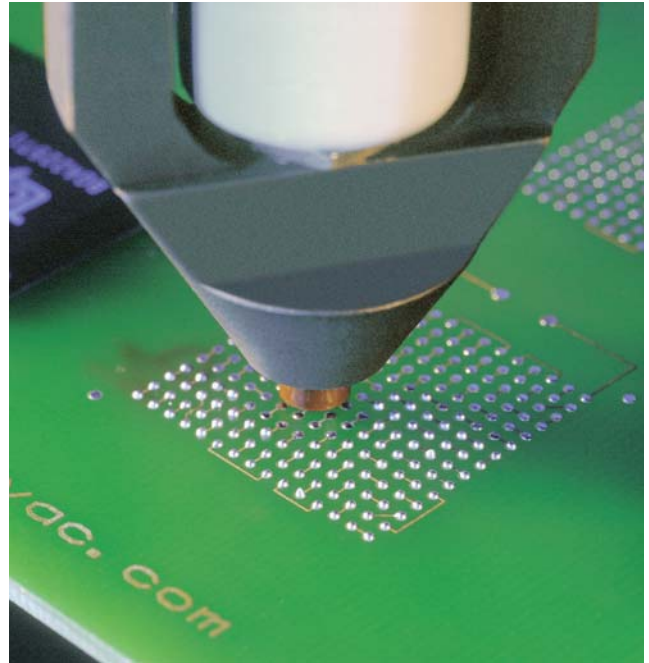
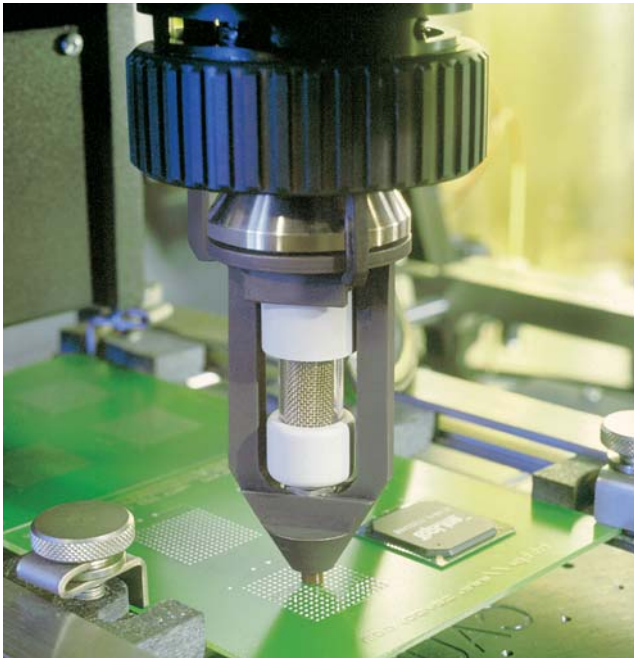
Order No	Dimensions in mm	
	W1	W2
CH N 11 R 11	11	11
CH N 14 R 14	14	14
CH N 16 R 16	16	16
CH N 19 R 19	19	19
CH N 23 R 23	23	23
CH N 28 R 28	28	28
CH N 35 R 35	35	35
CH N 42 R 42	42	42

**R Gas nozzle**

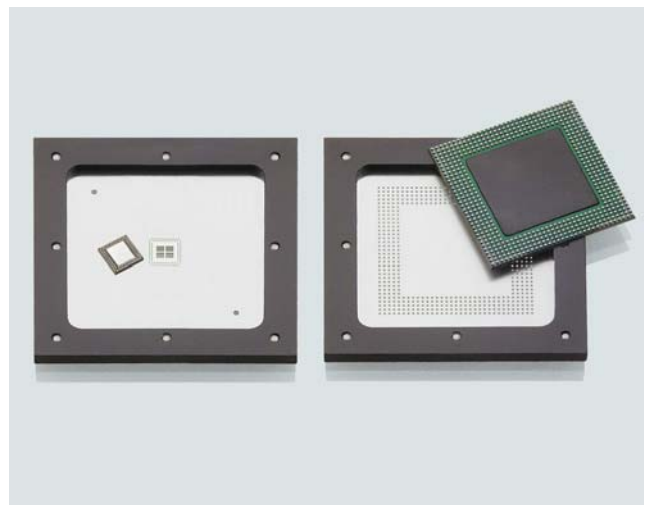
Distance to next component:  
0 mm possible



**SITE SOLDER REMOVAL SYSTEM**



**MICROSTENCIL FOR PASTE APPLICATION**



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