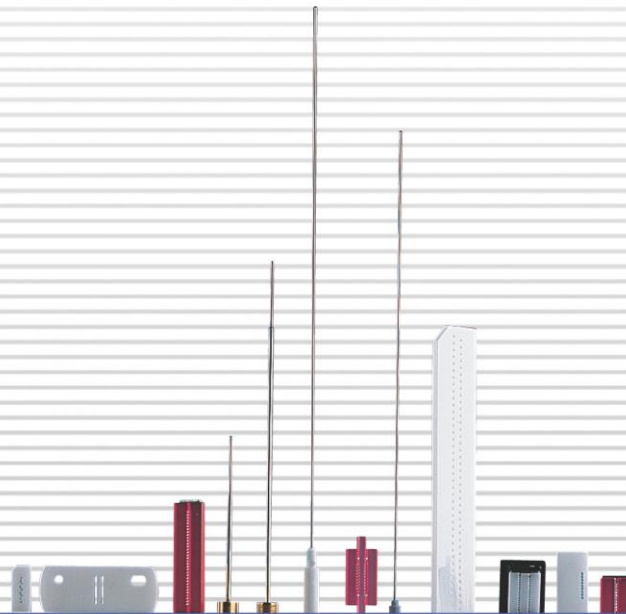


## Guides for Impact Printheads

Ceramaret is the leader producer of output guides for dot matrix printheads. Sold worldwide to printers and printhead manufacturers, they are also widely used by printhead repair companies. To meet the market demand, Ceramaret manufactures for over 20 years large quantities of monobloc zirconia guides. From 7 holes in-line to 2 x 40 holes staggered, with hole  $\varnothing > 0,22$  mm ( $> .0087$ " ), almost any hole configuration is available.

Ceramaret produces a very large selection of standard guides but also a range of replacement guides for the printhead repair market, offering improved quality over the original guides usually made out of plastic. Quality is not only reflected in the lifetime of the printhead but also in the print quality which is a very important parameter, mostly for NLQ and barcode applications.



## Technical characteristics

### General tolerances

Hole diameter	0,22 to 0,384 mm	(.0087" to .0151")
Hole tolerance	+/- 10	µm (+/- .0004")
Vertical pitch (non-cumulative)	+/- 10	µm (+/- .0004")
Horizontal pitch (2 rows)	+/- 15	µm (+/- .0006")
Length	+/- 100	µm (+/- .004")
Width (1 row)	0/-150	µm (0/- .006")
Thickness	+/-25	µm (+/- .001")

### Quality assurance

Procedure described hereunder is for the final inspection. Intermediate measurements and visual inspection are also carried out during manufacturing.

#### Dimensional measurements:

Hole diameter  
Length  
Width  
Thickness and parallelism  
Depth of the grooves  
Profile geometry  
Hole location

#### Test equipment:

Go / No go pin gauges  
Horizontal micrometer  
Horizontal micrometer  
Vertical micrometer  
Shadowgraph 100 X  
Shadowgraph 100 X  
Shadowgraph 50 X

#### Ruby guides:

AQL = 1,5%  
AQL = 2,5%  
AQL = 2,5%  
AQL = 1,5%  
AQL = 1,5%  
AQL = 1,5%  
AQL = 1,5%

#### Zirconia guides

AQL = 1,5%  
AQL = 2,5%  
AQL = 2,5%  
AQL = 2,5%  
NA  
NA  
AQL = 1,5%

#### Visual

Cracks, chips, surface finish of the holes and transition radius.

Bonding quality and cleanliness.

Cracks, chips on the faces and outer edges.

Positioning of the steel tie bars.

Cracks and structural defects of the material

Binocular 25 X

Binocular 25 X

Zygloo test

AQL = 1,5%

AQL = 1,5%

NA

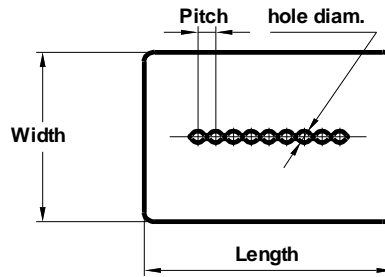
AQL = 1,5%

NA

AQL = 1%

Specifications subject to change without prior notice

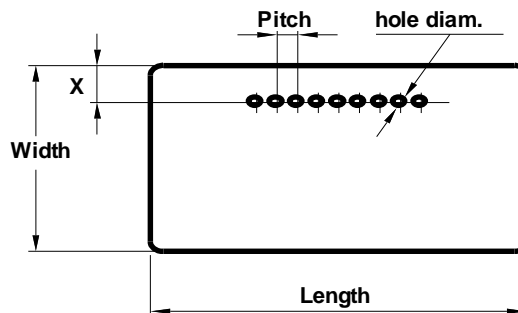
**Monobloc zirconia guide 1 row in - line**



Dimensions are in [mm]

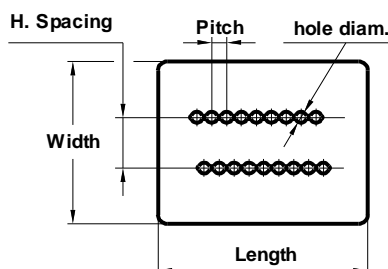
Nb holes	Hole diam.	Pitch	Length	Width	Thickness	Reference	Remark
7	0,37	0,37	5,50	4,00	1,00	2125305A	
8	0,30	0,38	4,00	1,50	1,00	2101105A	
8	0,30	0,38	5,50	2,00	0,60	2102805A	face beveled
9	0,32	0,355	5,50	4,00	1,00	2100305A	
9	0,32	0,355	5,50	3,08	1,00	2100905A	
9	0,32	0,355	5,50	4,00	1,00	2106105A	face beveled
9	0,32	0,355	4,50	3,80	1,00	2106105B	face beveled
9	0,32	0,355	5,00	4,00	1,00	2107105A	
9	0,32	0,355	5,00	2,70	1,00	2132005A	
9	0,32	0,355	5,50	2,70	1,00	2125805A	
9	0,32	0,365	5,50	4,00	1,00	2100405A	
9	0,32	0,365	5,50	2,65	1,00	2100505A	
9	0,32	0,365	5,50	2,00	1,00	2108905A	
9	0,32	0,37	5,50	4,00	1,00	2107205A	
9	0,37	0,37	5,50	2,30	1,00	2101205A	
9	0,37	0,37	5,50	4,00	1,00	2127305A	
9	0,37	0,37	5,50	4,00	0,815	2130505A	
9 + 2	0,32	0,365	5,00	2,65	1,00	2131305A	
9 + 2	0,35	0,365	5,00	2,65	1,00	2128305A	
24	0,32	0,353	10,50	4,00	1,00	2130905A	
33	0,348	0,3556	14,12	4,00	1,00	2102105A	

**Monobloc zirconia guide 1 row in - line off - center**



Nb holes	Hole diam.	Pitch	X	Length	Width	Thickness	Reference	Remark
9	0,32	0,365	0,53	7,00	2,00	1,50	2101005A	
9	0,32	0,365	0,53	7,00	2,00	0,75	2101005D	
9	0,32	0,365	0,53	5,50	2,00	1,50	2129805A	
9	0,35	0,365	0,74	8,50	4,00	1,00	2129005A	
12	0,27	0,291	0,635	6,00	2,50	1,00	2103505A	

**Specifications subject to change without prior notice**

**Monobloc zirconia guide staggered**

**Dimensions are in [mm]**

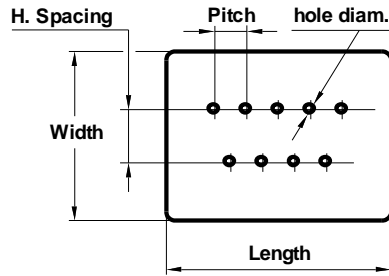
Nb holes	Hole diam.	Pitch	H.Spacing	Length	Width	Thickness	Reference	Remark
2 X 4	0,35	0,760	0,420	5,50	4,00	1,00	2104005A	
2 X 4	0,35	0,786	0,47	5,50	4,00	0,60	2105305A	drilled
2 X 6	0,37	0,530	0,44	5,50	2,70	1,00	2102505A	drilled
2 X 6	0,37	0,540	0,45	5,50	4,00	1,00	2114205A	drilled
2 X 6	0,37	0,540	1,143	5,50	4,00	1,00	2122405A	drilled
2 X 6	0,385	0,600	0,423	5,50	4,00	1,00	2108105A	drilled
2 X 7	0,37	0,61	0,56	5,50	4,00	1,00	2120205A	drilled
2 X 8	0,310	0,40	0,42	5,50	4,00	1,00	2107905A	drilled
3 X 8	0,32	0,432	0,846	5,50	4,00	1,00	2100605A	
2 X 9	0,32	0,355	0,846	5,50	4,00	1,00	2103905S	
2 X 9	0,32	0,424	0,846	5,50	4,00	1,00	2100805A	
2 X 10	0,32	0,355	0,878	6,40	5,00	1,20	2104305A	
2 X 12	0,22	0,282	0,846	5,50	4,00	0,95	2131800A	profiled
2 X 12	0,22	0,282	1,20	5,50	4,00	1,00	2132900A	profiled
2 X 12	0,22	0,282	2,19	6,20	5,70	1,00	2108605A	
2 X 12	0,22	0,288	1,340	7,00	5,00	1,00	2102305A	
2 X 12	0,27	0,282	0,846	5,50	4,00	1,20	2101905A	Special
2 X 12	0,27	0,282	0,846	5,50	4,00	1,00	2106505A	face bevelled
2 X 12	0,27	0,282	0,846	5,50	4,00	1,20	2106705A	
2 X 12	0,27	0,282	0,846	5,50	2,50	1,00	2126805A	
2 X 12	0,27	0,282	0,846	5,50	2,50	1,00	2126905A	
2 X 12	0,27	0,283	0,844	6,40	5,00	1,20	2131105A	
2 X 12	0,27	0,291	0,846	5,50	4,00	1,20	2106605A	
2 X 12	0,27	0,291	1,27	5,50	4,00	1,00	2130705A	
2 X 40	0,37	0,86	1,26	36,50	7,00	1,00	2109105A	

**Monobloc zirconia guide 2 rows non - staggered**
**Dimensions are in [mm]**

Nb holes	Hole diam.	Pitch	H.Spacing	Length	Width	Thickness	Reference	Remark
2 X 8	0,37	0,40	0,762	5,50	4,00	1,00	2105505A	drilled
2 X 9	0,32	0,353	1,058	5,50	4,00	1,09	2113005A	
2 X 9	0,32	0,37	0,775	5,50	4,00	1,00	2107705A	
2 X 9	0,32	0,432	0,838	5,50	4,00	1,00	2127505A	drilled

**Specifications subject to change without prior notice**

**Monobloc zirconia guide OCR version**

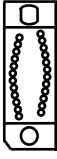


Dimensions are in [mm]

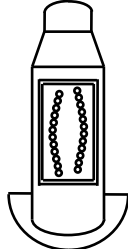
Nb holes	Hole diam.	Pitch	H.Spacing	Length	Width	Thickness	Reference	Remark
5 + 4	0,295	0,706	0,424	5,50	4,00	1,00	2103605A	
5 + 4	0,32	0,60	0,36	5,50	4,00	1,00	2105405A	
5 + 4	0,35	0,60	0,35	5,50	4,00	1,00	2100205A	
5 + 4	0,37	0,60	0,35	5,50	4,00	1,00	2100705A	
5 + 4	0,37	0,60	0,35	5,00	2,30	1,00	2102905A	
5 + 4	0,37	0,60	0,35	5,50	2,61	1,00	2105205A	
5 + 4	0,37	0,60	0,37	5,50	4,00	1,00	2115905A	drilled
5 + 4	0,37	0,706	1,48	5,50	4,00	1,00	2123405A	drilled
5 + 4	0,37	0,762	0,43	5,50	4,00	0,60	2104805A	drilled
5 + 4	0,38	0,60	0,35	5,50	2,61	1,00	2105105A	
5 + 4	0,385	0,60	0,363	4,80	4,00	1,00	2106905A	
7 + 6	0,31	0,40	0,44	5,50	4,00	1,00	2109705A	drilled
7 + 6	0,32	0,514	0,44	5,50	4,00	1,00	2122605A	
7 + 6	0,32	0,53	0,44	5,50	4,00	1,00	2119105A	

Specifications subject to change without prior notice

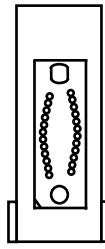
**Special guides**



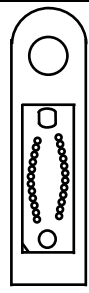
Maret P/N	Description
2107405A	Epson LQ 2550 2 x 12 holes ∅ 0,22



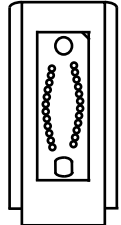
Maret P/N	Description
2107401A	Epson LQ 850 / 1050 2 x 12 holes ∅ 0,22



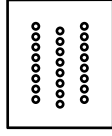
Maret P/N	Description
2111201A	Epson LQ 870 / 1170 2 x 12 holes ∅ 0,22



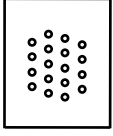
Maret P/N	Description
2111101A	Epson LQ 860+ / 1050+ 2 x 12 holes ∅ 0,22



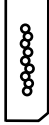
Maret P/N	Description
2112201A	Epson LQ 1070 2 x 12 holes ∅ 0,22



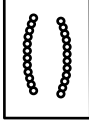
Maret P/N	Description
2100605A	3 x 8 holes ∅ 0,32 x 0,431 5,50 x 4,00 x 1,00



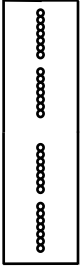
Maret P/N	Description
2103205A	18 holes ∅ 0,31 x 0,706 5,50 x 4,00 x 1,00



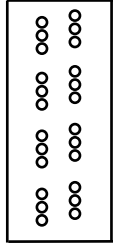
Maret P/N	Description
	IBM 4201,4202, 4210,4212,4722 9 holes, ∅ 0,32 / 0,34
2104605A	5,75 x 2,45 x 1,00
2104605B	5,75 x 2,45 x 0,72
2104605D	5,75 x 2,45 x 0,50
2110305S	MT84, 85, 86, 87 5,50 x 2,00 x 0,50



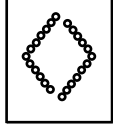
Maret P/N	Description
2107305A	2x12 holes ∅ 0,22 5,50 x 4,00 x 1,00
2108705S	2x12 holes ∅ 0,27 5,50 x 4,00 x 1,20
2132805N	2x12 holes ∅ 0,23 5,51 x 4,00 x 0,75



Maret P/N	Description
2004000A	4 x 7 holes ∅ 0,32 x 0,353 17,65x4,00x1,00
2006100A	4 x 7 holes ∅ 0,322 x 0,35 14,10x4,00x1,00
2007000A	4 x 5 holes ∅ 0,32 x 0,353 17,65x4,00x1,00
2101705A	5 x 5 + 7 holes ∅ 0,378x0,533 39,75x5,537x1,65
2109505S	4 x 7 holes ∅ 0,328x0,35 14,05x3,96x0,975



Maret P/N	Description
2108405A	4 x (2 x 3) holes ∅ 0,328 x 0,61 10,49x4,00x0,635



Maret P/N	Description
2130105A	24 holes ∅ 0,24 5,50 x 5,00 x 1,00
2130205A	24 holes ∅ 0,22 5,50 x 5,00 x 1,00

**Dimensions are in mm. No other dimensional information supplied for these guides  
Specifications subject to change without prior notice**