

## Horizontal Gel Units

### How to calculate sample-loading volume in a 5mm well depth

Sample-loading volume is always determined by the height of the comb actually within the gel mixture. Therefore, if a well has a 5mm depth, then 5mm of each Tooth Height is submerged within the gel mixture (where most gels are 5 to 10mm in depth).

Accordingly, the maximum volume of sample that can be loaded into each gel is calculated as follows: -

Volume (mm<sup>3</sup>/μl) = Tooth Width x Tooth Thickness x Well Depth (i.e. the actual Tooth Height within the gel)

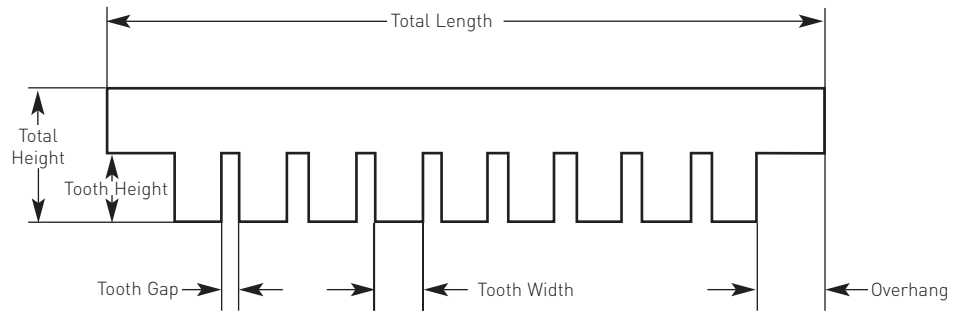
Where Tooth Thickness is 1, 1.5 or 2mm for Scie-Plas combs.

Please remember that Tooth Width will always be determined by the number of teeth for a given comb/electrophoresis unit. The more teeth required, the smaller the Tooth Width and Volume as a result.

## Custom Combs

With an expertise in machining and fabricating plastics acquired over our 20-year existence, Scie-Plas is able to build custom parts to order, regardless of whether it is a gel tank, gel tray or comb.

For quotes on customised combs and gel trays, just enter your details and specifications in the template below and send it via fax, e-mail or mail.



### Customer Information

Name of customer	
Organisation	
Email	
Phone	Fax
Address	

VAT exemption certificate number, if applicable

Quotation number For Office Use Only

### For a custom comb for a Scie-Plas horizontal gel electrophoresis unit

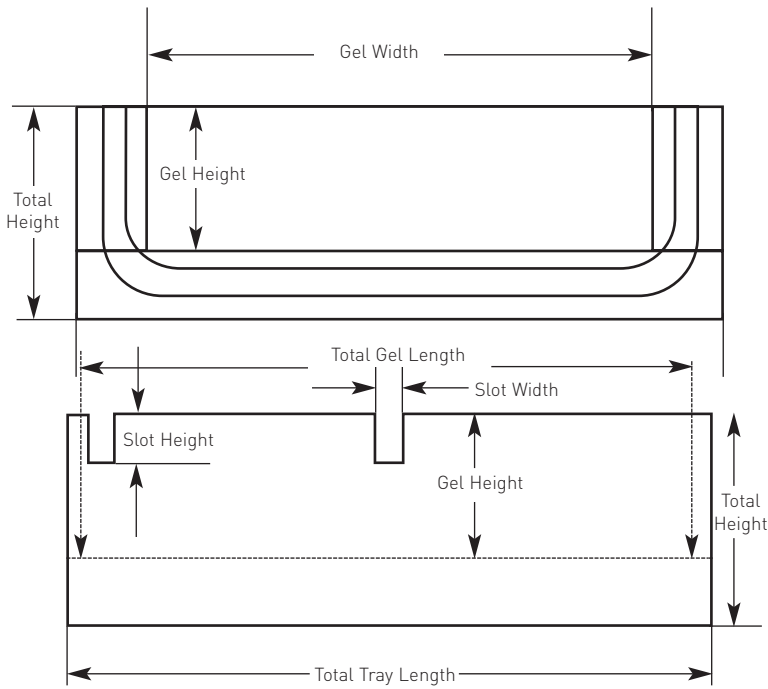
*Unit/model number	
*Multichannel pipette compatible?	yes/no
*Thickness (mm)	
*Sample throughput/number of teeth	
*Quantity	

### For a custom comb for an alternative horizontal gel electrophoresis unit

*Unit/model number	
*Manufacturer	
*Multichannel pipette compatible?	yes/no
*Thickness (mm)	
*Sample throughput/number of teeth	
Tooth Height (mm)	
Tooth Width (mm)	
Tooth Gap (mm)	
*Overhang (mm)	
*Total Height (mm)	
*Spine? (If yes, please send detailed drawing)	yes/no
*Quantity	

PLEASE FILL OUT THOSE DETAILS MARKED WITH AN ASTERISK (\*)

# Custom Gel Trays



For a custom gel tray for a Scie-Plas horizontal gel electrophoresis unit

\*Unit/model number

\*Number of slots

\*Location of start position for each slot (mm)


## Customer Information

Name of customer \_\_\_\_\_  
 Organisation \_\_\_\_\_  
 Email \_\_\_\_\_  
 Phone \_\_\_\_\_ Fax \_\_\_\_\_  
 Address \_\_\_\_\_

VAT exemption certificate number, if applicable \_\_\_\_\_

Quotation number \_\_\_\_\_ For Office Use Only

## For a custom gel tray for an alternative horizontal gel electrophoresis unit

*Unit/model number						
*Manufacturer						
*Number of slots	yes/no					
*Location of the start position for each slot (mm)						
*Casting (please tick preferred option)	Silicone gaskets	Casting gates with integral silicone seals	Silicone casting gates	Plastic casting gates	Aluminium casting gates	Scie-Plas Super-Seals™
*Gel Length (mm) - i.e. distance between casting gates						
*Gel Width (mm)						
*Gel Height (mm)						
*Slot Width (mm)						
*Slot Height (mm)						
Total Tray Length (mm) - use as the dimension for *Gel Length if silicone gaskets are the preferred casting option						
Total Tray Width (mm)						
Total Tray Height (mm)						

N.B. All casting trays are manufactured from 5mm UV transparent acrylic as standard.

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