1 Introduction

This plug-in allows a customer to order more items than those currently in stock – the shop being able to obtain more in order to satisfy the demand (although there maybe an extended delivery time).

A *pre-order* feature allows customers to order products before release / publication.

The Hikashop quantity in stock display can be changed to show *More than X in stock*.
For instance…

Instead of	1234 items in stock.
Display	More than 100 items in stock.

Hikashop Plugin Allowing Customer to Order More Items than Current Stock by Brainforge.UK

1.1 Example Product Listing (Items in Stock)
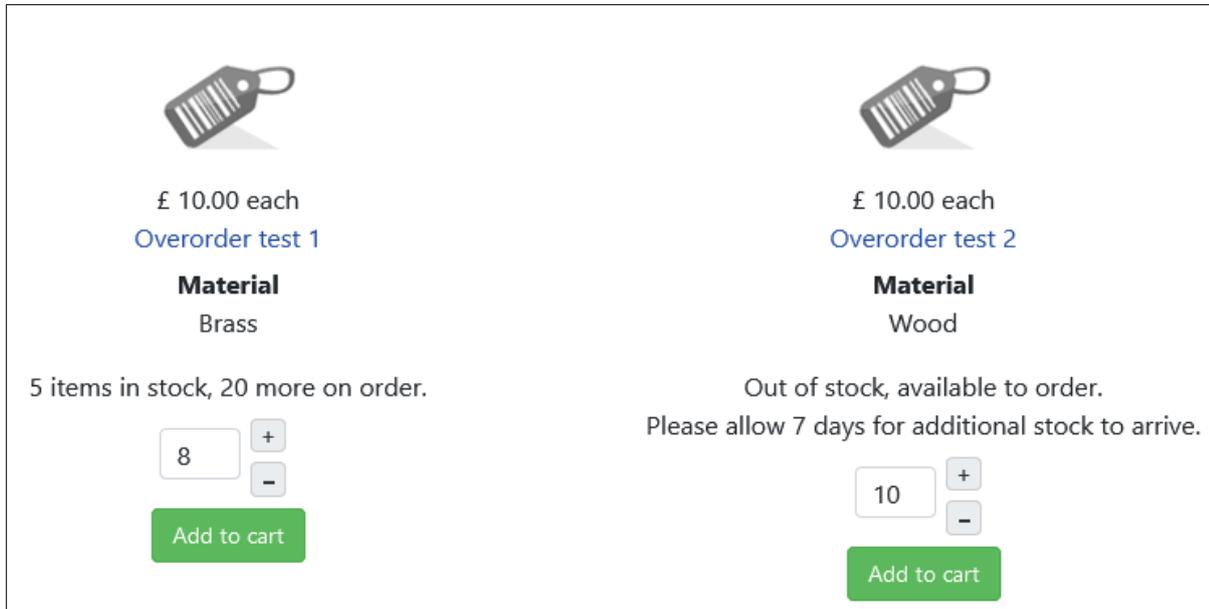
In this example the customer can order up to 25 brass items.
There is no upper limit on the number of wooden items they can order.

This uses custom field: product_bfcanfulfillorder_qty

1.2 Example Product Listing (No Items in Stock)
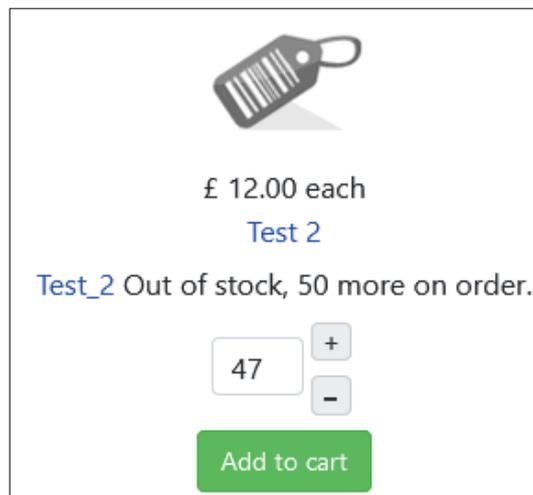
In this example the customer cannot order more than 47 items.
Of the 50 items on order 3 of them have already been ordered by other customers.
You can change the message to remove the quantity and simply say '*more on order*'.

This uses custom field: product_bfcanfulfillorder_reqd_qty

2 Examples for Different Configurations

2.1 Maintaining Standard Hikashop Behaviour

Back-end Product Configuration	Front-End Product Page
CUSTOM FIELDS Can over order quantity 0 More on order message Pre-order Mode Yes No	3 items in stock 1 Add to cart
This provides standard Hikashop behaviour. For product variants the settings can be overridden by the product parent – often no need to configure each variant separately. The *Can over order quantity* field can be left blank – equivalent to a value of 0 (zero).	

2.2 Unlimited Customer Order Quantity (when only a few / none in stock)

Back-end Product Configuration	Front-End Product Page
CUSTOM FIELDS Can over order quantity: -1 More on order message: Additional 3-4 weeks delivery Pre-order Mode: Yes **No** Here the customer can order an unlimited number of items, although only a few (or none) maybe in stock. If not necessary the *More on order message* can be left blank.	**3 items in stock, more available to order.** *If not in stock delivery usually 1 to 2 weeks if in stock at manufacturer.* 1 ⌄ Add to cart The *additional ...* text is language translatable and can be styled with CSS.

2.2.1 Customer Can Order More Than Quantity in Stock

Back-end Product Configuration	Front-End Product Page
CUSTOM FIELDS Can over order quantity: 10 Overordered quantity: 3 More on order message: Allow 3 extra days if out of stock Here the customer can order up to 10 items, although fewer (or none) maybe in stock.	Out of stock, 10 more on order Allow extra 3 days when insufficient stock 1 ⌄ Add to cart Customer can order up to 7 items. I.E. 10 minus 3 items because 3 items of the new stock have already been allocated to other customers.

When new stock arrives shop admin has to change the following product quantity values.

Can over order quantity   Reduce by the quantity of new stock received (min value 0).

Quantity   Increase by quantity of new stock minus the quantity of new stock which is required to fulfil outstanding orders (i.e. the current value of over order quantity).

Over ordered quantity   Reduce by the quantity of new stock received (min value 0).

If you are using a third-party inventory management tool then it maybe possible for such a tool to automatically update the Hikashop product quantity data when new stock arrives. Similarly that tool might also be able to automatically increase the *Can over order quantity* value when new stock is ordered.

2.3 Pre-Order Mode

This mode is intended for products which a customer can pre-order before they are released (such as books before publication date).

It is assumed that once the product has been released *Pre-order Mode* will be turned off (i.e. normal operation as in sections 2.1 and 2.2).

Back-end Product Configuration	Front-End Product Page
CUSTOM FIELDS Can over order quantity: `1000` More on order message: `Release date to be announced` Pre-order Mode: **Yes** / No When no items in stock the customer can order up to 1000.	**No items in stock display.** No stock, pre-order available Release date to be announced `1` [Add to cart] The *No stock, pre-order available* message is language translatable. Different products can have different messages (use the *More on order message* to customise). **10 items in stock display.** 10 items in stock `1` [Add to cart] It is assumed that once the product has been released *Pre-order Mode* will be turned off (see sections 2.1 and 2.2).

3 Plugin Parameters

3.1 Over X In Stock Message Feature

This additional feature will replace the stock level message with an '*Over X items in stock'* message as illustrated in the following table.

50 Items in Stock Message	150 Items in Stock Message
50 items in stock	Over 100 items in stock
50 items in stock more on order	Over 100 items in stock
50 items in stock 100 on order	Over 100 items in stock
50 items in stock 100 on order Allow 2 or 3 extra days delivery for out of stock	Over 100 items in stock

This feature is triggered by the *Over X in stock message trigger level* parameter in the plugin options (leave blank to disable this feature).

3.1.1 Overriding Trigger Level for Products

Optionally you can override the plugin trigger level parameter for products and variants. If the same value is required for all variants then you only need to enter the value for the parent product.

To enable this feature you need to configure a Hikashop Product Table Custom Field called:

product_bfcanfulfillorder_overqtymsgtriggerlevel

3.2 Hide variant parent quantity in product listing

In product category listings you can use this option to hide the quantity for variant product parents. For example where product KPC38 has several variants.

Quantity Shown	Quantity Hidden
Depending on your view template there may be no *Choose options* button. However, the product page can still via accessed via links.	Depending on your view template the *Choose options* button is usually displayed Alternatively, the product page can still via accessed via links

4 Hikashop Product Table Custom Fields

The following Hikashop product table custom fields are required.

- product_bfcanfulfillorder_qty
New stock which is on its way.
See comment below.

- product_bfcanfulfillorder_reqd_qty
Number of items which have been ordered by customers and require arrival of new stock.

- product_bfcanfulfillorder_msg
If feature not required can omit or set unpublished.

- product_bfcanfulfillorder_preorder
If feature not required can omit or set unpublished.
Note that this is a *Boolean* field type.

- product_bfcanfulfillorder_overqtymsgtriggerlevel
If feature not required can omit or set unpublished.
If only this feature required can omit or set unpublished the product_bfcanfulfillorder_qty field.
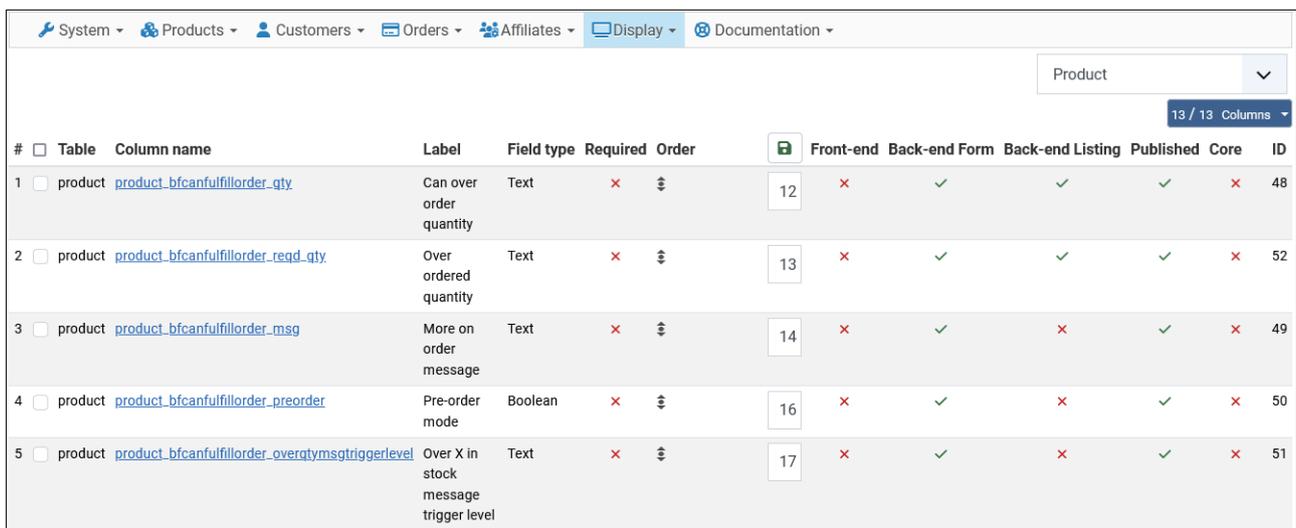
#		Table	Column name	Label	Field type	Required	Order	💾	Front-end	Back-end Form	Back-end Listing	Published	Core	ID
1		product	product_bfcanfulfillorder_qty	Can over order quantity	Text	✗	↕	12	✗	✓	✓	✓	✗	48
2		product	product_bfcanfulfillorder_reqd_qty	Over ordered quantity	Text	✗	↕	13	✗	✓	✓	✓	✗	52
3		product	product_bfcanfulfillorder_msg	More on order message	Text	✗	↕	14	✗	✓	✗	✓	✗	49
4		product	product_bfcanfulfillorder_preorder	Pre-order mode	Boolean	✗	↕	16	✗	✓	✗	✓	✗	50
5		product	product_bfcanfulfillorder_overqtymsgtriggerlevel	Over X in stock message trigger level	Text	✗	↕	17	✗	✓	✗	✓	✗	51

You may wish to display the quantity values on the *back-end listing*.
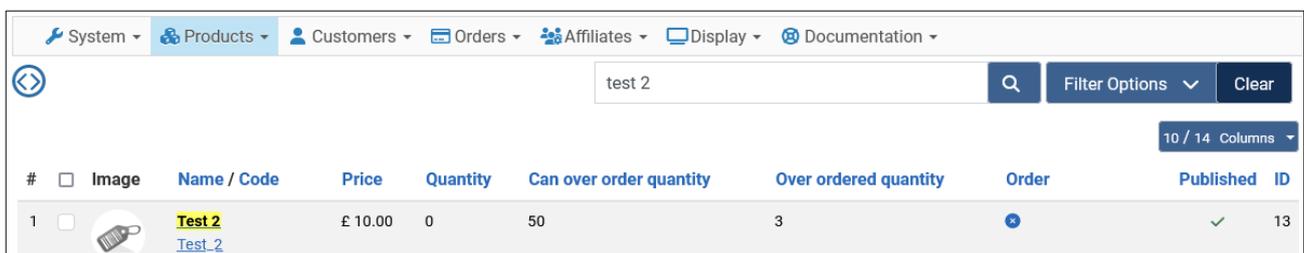
#		Image	Name / Code	Price	Quantity	Can over order quantity	Over ordered quantity	Order	Published	ID
1			Test 2 / Test_2	£ 10.00	0	50	3	⊗	✓	13

4.1 product_bfcanfulfillorder_qty

The *regular expression check* (**^-{0,1}[0-9]+$**) prevents entry of non-numeric values.

4.2 product_bfcanfulfillorder_reqd_qty

As above.

4.3 product_bfcanfulfillorder_msg

As above but there is usually no need for a *regular expression check* (depending on your business requirements / procedures).

4.4 product_bfcanfulfillorder_preorder

This is usually configured with a **Boolean** field type, although sometimes you may prefer to use radio, checkbox or lists instead.

4.5 product_bfcanfulfillorder_overqtymsgtriggerlevel

Use the *regular expression check* (**^[0-9]*$**) to prevent entry of non-numeric values.

Appendix A – Known Limitations

- There is no indication to shop staff that an order requires out of stock items.
  Currently staff only discover there maybe insufficient stock when they visit the warehouse.

  If a solution to this required please contact us.
  Possible enhancements include:

  - Implement a waiting stock order status.

  - Add an over order flag on the order table.

  - Add an over order quantity value field on the order table.

- When an order is cancelled there is no automatic adjustment to the value of *product_bfcanfulfillorder_reqd_qty*.
  Such a feature would require an over order quantity value field on the order table.

- Integration with a third-party inventory management tool.
  This could be implemented as a Joomla component which would automatically update the Hikashop data when stock is ordered and when it is delivered.

Appendix B – Language Labels

You can customise the text your customers see by using these labels in your Joomla language overrides.

```
PLG_HIKASHOP_BFCANFULFILLORDER_1_INSTOCK_MESSAGE="%1$s item in stock."
PLG_HIKASHOP_BFCANFULFILLORDER_X_INSTOCK_MESSAGE="%1$s items in stock."

PLG_HIKASHOP_BFCANFULFILLORDER_0_STOCK_MESSAGE="Out of stock, more on order"
PLG_HIKASHOP_BFCANFULFILLORDER_1_STOCK_MESSAGE="%1$s item in stock, more on order"
PLG_HIKASHOP_BFCANFULFILLORDER_X_STOCK_MESSAGE="%1$s items in stock, more on order"

PLG_HIKASHOP_BFCANFULFILLORDER_0_STOCK_X_MESSAGE="Out of stock, %2$s more on order"
PLG_HIKASHOP_BFCANFULFILLORDER_1_STOCK_X_MESSAGE="%1$s item in stock, %2$s more on order"
PLG_HIKASHOP_BFCANFULFILLORDER_X_STOCK_X_MESSAGE="%1$s items in stock, %2$s more on order"

PLG_HIKASHOP_BFCANFULFILLORDER_0_PREORDER_MESSAGE="No stock, pre-order available"
```

# Appendix C – Displaying Stock at Checkout

You can display the current stock level for each product, and any associated messages, by using the plugin event *onBrainforgeukCheckoutStockMessage* in Hikashop checkout view overrides.

This plugin event can be used in conjunction with other plug-ins which also adjust the stock level / number of items available to order, such as:

> plg_hikashop_bfbillofmaterials
> plg_hikashop_bfsplitprodpacks4order
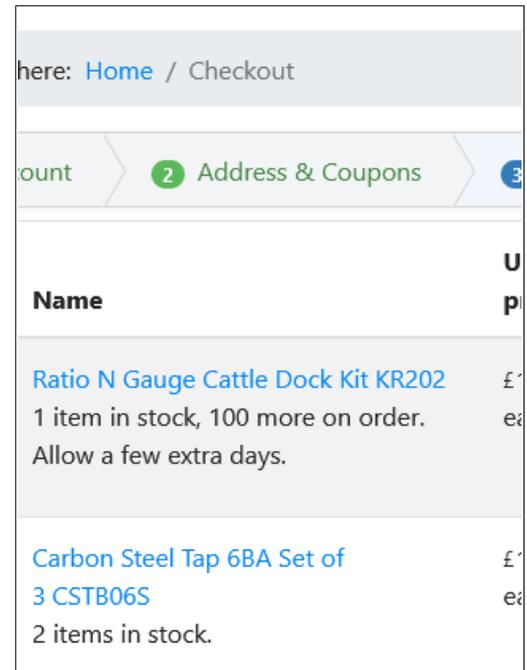
To achieve this add the event trigger code shown in the following example to file:

> *templates/yourtemplate/html/com_hikashop/checkout/show_block_cart.php*

```
// BFCanFulfullOrder - get any associated stock level messages.
$bfCanFulfillOrderClassName = '\Brainforgeuk\Plugin\Hikashop\BfCanFulfillOrder\Extension\BfCanFulfillOrder';
if (method_exists($bfCanFulfillOrderClassName, 'getCheckoutStockMessage'))
{
    echo $bfCanFulfillOrderClassName::getCheckoutStockMessage($product);
}
// BFCanFulfullOrder - End

if(!empty($html))
    echo '<div class="hikashop_cart_product_custom_item_fields">'.$html.'</div>';
```

Appendix C.1 A More Complex Example

When there is sufficient quantity in stock for the order it is possible to hide the '*1 item in stock, more on order message'* shown in the previous screenshot. One way of achieving that in the Hikashop checkout view override is as follows.

```php
// BFCanFulfullOrder - get any associated stock level messages.
$bfCanFulfillOrderClassName = '\Brainforgeuk\Plugin\Hikashop\BfCanFulfillOrder\Extension\BfCanFulfillOrder';
if (method_exists($bfCanFulfillOrderClassName, 'getCheckoutStockMessage'))
{
  $mode = 1;
  if (!empty($cart->messages))
  {
    foreach($cart->messages as $message)
      {
        if ($message['product_id'] == $product->product_id)
        {
          // Force display of product stock
          $mode = 0;
          break;
        }
      }
  }
  echo $bfCanFulfillOrderClassName::getCheckoutStockMessage($product, $mode);
}
// BFCanFulfullOrder - End

if(!empty($html))
    echo '<div class="hikashop_cart_product_custom_item_fields">'.$html.'</div>';
```