# 50 kN Bend Jig (Aluminium), QC fitting

testing to perfection

# Mec22 - aluminium

A 50 kN Bend Jig in steel having a bending span up to 330 mm and beam width of 100 mm.

A comprehensive selection of Mec22 anvil types and sizes are available to allow you to configure for 3-point or 4-point flexure bend testing.

'Upper' anvils and the 'lower' bending beam are supplied fitted with a bore hole to allow connection to either QC-20 or QC-32 fixing posts ... please specify which size when ordering. When used with the QC-20 fixing post, the maximum rated capacity is 25 kN.

Below you will see an example configuration showing:



- 'Lower' anvils Type AX = 'dual' roller bearings in a v-notch having diameters of 10mm and 30mm
- 'Upper' anvil Type OX = roller bearing in a v-notch having diameter of 30mm
- 'Lower' bending beam (B) of 360mm length with QC-32 bore hole

This generates a combined part number of : Mec22-AX30\_10-OX30-B330-QC32



The illustrations overleaf are selected examples of the component parts and assemblies to build precisely the bending jig you require. You choose:

- Bending beam length (lower)
- Bending beam length (upper) ... only applicable if you wish to perform 4-point flexure bend testing
- 'Lower' and 'Upper' anvil type (roller or milled-edge) and their dimensions
- Special requirements (eg. Wide anvils for large specimens, tall anvils for folding tests, movement in anvils for increased accuracy)

Please refer to the outline at the back of this datasheet for how to identify and specify the components you require.





Rubber-faced sprung roller insert for articulated carrier, roller radius 30 mm, width 100 mm	V-notch upper anvil for interchangeable rollers available in aluminium or steel	
	4-point bend fixtures	
Spring-retained roller on flat bed with end-stops. Type CWN	Upper beam to convert Mec22 3-point bend jig to 4-point bend	
Anvil Support with integral roller, diameter 50 mm, width 50 mm	Upper v-notch carrier for interchangeable rollers for 4-point bending	
Upper anvil, nickel-plated hardened steel, milled radius 5 mm	Upper beam hardened steel roller, radius 30 mm, width 100 mm, spring-retained on flat bed, recommended for glass testing	
Upper anvil, milled radius 25 mm	Upper beam articulated anvil support.	
	Special accessories	
	For holder with large adapter size	
V-notch upper anvil for interchangeable rollers, diameters: 32, 36, 40, 50 and 60 mm	V-notch adapters for smallest or largest-radius rollers	
	V-notch diameter reducer	
	T-nut for mounting anvils on beams, 10 mm × 40 mm	

#### Bend jigs to your own specification

Bend jigs can be assembled to user specification tomeet test requirements:

load rating

bending span widthanvil movement type

- anvil mount type
- anvil width

- anvil edge typeanvil height
- individual positioning of anvils, or by centric gearing using a leadscrew/handle.

Certain anvil types allow a rocking movement, adjustable angle (articulated), or flat sideways movement. For sharp angle bending (e.g. to 160°) long-fin anvils are available, along with other specialised anvils. Standard anvil types are shown below. (Roller size is denoted by diameter, milled edges are denoted by radius.)

• 3 or 4-point bend capability

![](_page_4_Figure_9.jpeg)

Let us know your requirement by:

- beam model: Mec238, Mec103, Mec22 and length (long versions available)
- aluminium or steel, and finish (where available)
- anvil mount type as above (A, C, CW, O, with extra designation of W, X, L, M or N where appropriate)
- the upper and lower anvil radii type (milled or rollers) with diamensions
- any special requirements such as anvil height or width, or movement
- if you require centric gearing (Mec103 only)
- if you require an upper support for two anvils for 4-point testing
- the QC coupling size (20 mm or 32 mm)

For full details and examples, refer to the datasheets for the three base models: Mec238, Mec103 and Mec22.

For more information on QC fittings, refer to datasheet 431-354 Adapters for QC range of grips.

![](_page_5_Picture_1.jpeg)

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