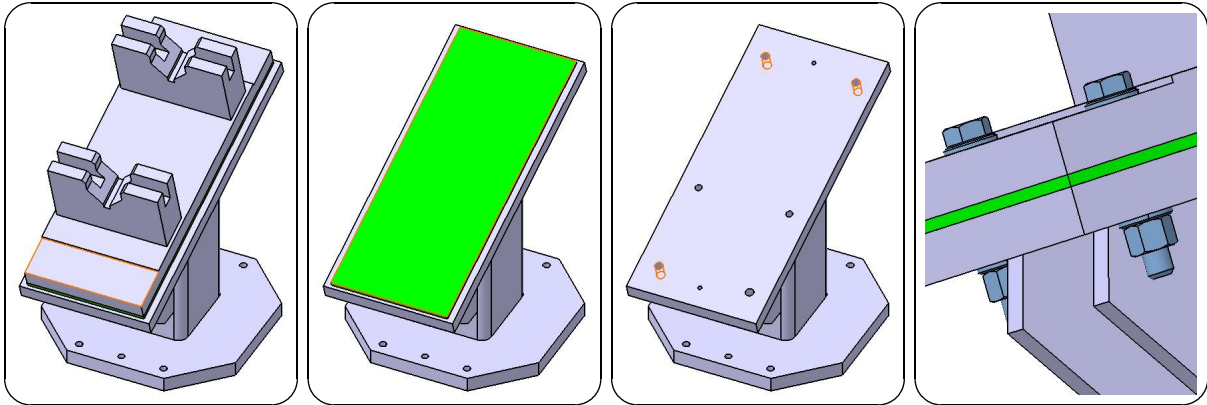


The CAD/CAM Partnership

The leading independent CATIA specialist in the UK

ccHEXBolts.catvbs



- ★ The **ccHEXBolts** macro provides very **significant productivity gains** by the automatic selection, placement, constraint and hole propagation of standard HEX bolt fixings. (Similar **ccSCHScrews** and **ccDowels** macros are also available).
- ★ HEX nut, bolt and washer **parameterised CATParts**, which **control the choice of fixings**, are found automatically (optionally within a user specified directory) and can also implement a customer specific part naming/numbering convention.
- ★ The current assembly can optionally include a **shim/spacer** part (shown green above), and/or **threaded holes** (in which case the nut and second washer will not be created).
- ★ The size of the selected holes patterned within the fixed part is used for **clearance holes**, unless these holes are threaded, in which case standard clearance hole sizes are used, for example...

Nominal size:	M8	Body Clearance:	9.0	Head Counterbore:	15.0
	M10		11.0	(an option for	18.0
	M12		14.0	ccSCHScrews)	20.0
- ★ **The correct size of fixing is automatically chosen.** For example, the length of a bolt into (what is determined as) a blind threaded hole will extend by at least its diameter into the threaded hole, but only to within 2mm of the threaded depth. Should no appropriate bolt be found, then a message will be displayed indicating the reason, for example: *"No M10 HEX Bolt can be found to fit. (Minimum available Bolt length exceeds depth of threaded Hole)"*
- ★ A summary window (also providing the option to reject the fixings just created) is displayed on completion, in which:
 - 'Additional' indicates that the added bolt part document is currently open (in memory). This would typically mean that this bolt is already used in the assembly.
 - A 'New' bolt part would indicate that the document does not exist in the current working directory and thus this bolt has not yet been used.
 - An 'Existing' bolt part would indicate that the document does exist in the current working directory (having already been used elsewhere), but that the bolt has yet to be used within the current assembly.
- ★ Appropriate PartNumber, Nomenclature and DescriptionRef **attribute values are assigned.**