

Considerations when changing from Flat-Flex[®] to Compact-Grid[®]

Belt Width

Compact-Grid[®] Conveyor Belting comes in set standard widths, increasing in increments of 20 mm, whereas Flat-Flex[®] Conveyor Belting is available in any custom width. When selecting the correct Compact-Grid[®] belt for your application, make sure that you have the correct amount of clearance between the belt edges and conveyor/equipment side frames.

Belt Width Tolerance

Due to the construction of Compact-Grid[®] it is necessary to also consider the width tolerance when ensuring there is adequate clearance between the belt and side frames. Make sure to consult the below width tolerance table when specifying the desired belt width.

Note: Widths are subject to the following manufacturing tolerances:-

| | |
|------------------|-------------|
| 282mm – 802mm: | -0 + 4.75mm |
| 822mm – 1302mm: | -0 + 6.35mm |
| 1302mm – 2122mm: | -0 + 8.00mm |
| 2122mm – 3662mm: | -0 + 9.53mm |

Sprocket Placement & Fixing

Due to the construction and therefore belt width tolerance of Compact-Grid[®], you should consider how the drive, idler or guide sprockets are fixed to their respective shafts. It is necessary to allow lateral movement when changing over belts, and therefore sprockets should not be welded, or permanently fixed to shafts.

Belt Running Speed/Sprocket Selection

When changing from Flat-Flex[®] to Compact-Grid[®], you will likely want to maintain your running speed. If this is the case, please consult with our Technical Sales Team, supplying them with your current belt pitch and sprockets details, and they will advise the correct Compact-Grid[®] Drive Sprocket specifications to allow for a smooth transition.

Drive Shaft Arrangement

Your existing equipment fit with Flat-Flex[®] may be using a Reverse Bend drive shaft layout – if this is the case, please consult with our Technical Sales Team who will advise the best options of changeover.

Transfer Diameters

Compact-Grid[®] requires guide sprocket placed on or closely after transfer shafts, at a minimum diameter of approx. 35 mm. Please consider this when specifying the required components or planning for your belt changeover.