## <u>Wafer Alignment marks Wx, Wy, W $\theta$ </u>. Also called Search marks or WGA marks.

These are used to establish wafer position on the stage and orients the X and Y alignment marks on wafer, making them parallel to the Y stage mirror. This is called Wafer Global

Alignment (WGA). Wy and W $\theta$  were once separate marks. Now the LSA system picks up the single horizontal global Wy mark on two different, spaced, die.

You must place these marks within the design somewhere (position is arbitrary.)

Certain design specifications must be followed:



The center mark in the array defines the position of the mark in the process program.

Wx & Wy (WGA) marks should be placed on every permanent level that you wish to align to.