



TransAlign I.S.M.

Mill Shell Hole Boring System.

The fixture arrangement TransAlign ISM has developed uses precision bored fixture plates and bearing guided boring spindles running in a location cartridge allowing now for a range of hole spacing's from 200 – 600 mm centres along the Mill Shell.

The system requires no welding to the shell and uses a specially developed low profile boring head to bore the Liner bolt holes adjacent to the Girth gear where there is minimal head height.

Magnetically attached tooling allows for time efficient setting up each boring operation.

All the operation is done from the outside the shell with locking dowels without any requirement for welding or confined space entry.

We set up the longitudinal hole spacing fixtures with location accuracy at < than 0.25mm deviation from datum centre which is set by a spacing fixture in addition to the cumulative measurements being confirmed.

Radial positioning around the Mill is plotted on AutoCAD and set by precision doweled bridging plates to maintain accurate & consistent parallel spacing between rows. Holes are bored to an accuracy of < than +/- 0.15 of nominated bore size. Higher accuracy is available but requires 2 boring cuts per hole, requiring approximately twice the time duration.

