

MASS FLOW SURGE BINS BIGGER AND BETTER



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Surge Bins are available in the following standard sizes in diameter, though are not limited to these:

- 6.0m
- 7.0m
- 9.0m
- 10.5m
- 12.0m
- 14.0m



With the assistance of the University of Wollongong in NSW, IHC Robbins modelled a variety of different design shapes, until the optimum shape was discovered.

Steeply sided, all surge bins are supported on the bin base (not hung). Further support is provided by pairs of braced columns. These columns are equispaced around the top perimeter of the bin, allowing support to equipment loads located above the bin and also resist any dynamic loading the bin may be subjected to.

All surge bins are round to rectangular. A round to polygon shaped option is available for the 10.5m, 12.0 and 14.0m sizes.

The unique bin profiles prevent stable arches from forming within the bin consequently hang ups and surging within are absent and hence they mass flow.

The overflow launder is located in board and is partially supported by bridging beams located at the bin top. These can also be used to support a boil box, which can be supplied as an optional extra.

Bin suction and injection water manifolds are horizontal spears designs and are rubber or urethane lined both inside and out. Dump hatches are provided or alternatively; pump-out systems can be custom designed. Off take nozzles are strategically positioned around each bin for DP instrumentation.



IHC ROBBINS

T +617 3376 9777
 info@ihcrobbins.com
 www.ihcrobbins.com