

PROCESS BINS EXCEEDING LIMITATIONS



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IHC Robbins recognized the design limitations and failings in Process Bin or Constant Density Tank designs over twenty years ago and embarked on a development program to create an innovative solution situation.

Today, IHC Robbins manufacture a range of Mass Flow process bins which are incorporated in its own packaged plants. Alternatively, these products can be custom designed and built to suit existing plants.



SLURRY PROCESS BINS FOR SAND TRANSFER DUTIES

Available Bin Sizes	Off-the-shelf Designs Available	Designed c/w pump frame for relocation via forklift	Operating Volume [m3]
0.9mx0.9m	✓	✓	0.4
1.2mx1.2m	✓	✓	1.6
1.5mx1.5m	✓	✓	2.5
2.0mx2.0m	✓	✓	3.2
∅ 3.0m	✓		7.3
∅ 4.0m	✓		17.3
∅ 5.0m	✓		34.3

NOTE

(1) All bins come with a multitude of options, such as; slurry pumps, suction pipework, boilboxes, distilling mats, make-up water valves, injection water nozzles, overflow troughs, overflow pipe assemblies

PROFILE

The smaller bins from 0.9 to 2.0 metres are profiled from square to rectangular. The 3.0 to 5.0 metre bins are round to rectangular. 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.

STRUCTURAL SUPPORT

All bins are steeply sided and are supported on the bin base (not hung). Bins 3.0 metre and larger are supported additionally by pairs of braced columns. These are equi-spaced around the top perimeter of the bin. These can support equipment loads located above the bin and also resist any dynamic loading the bin may be subjected to.

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; however, pump out systems are recommended.

Off-take nozzles are strategically positioned around each bin for DP instrumentation.



IHC ROBBINS

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