

METAL CASTING TECHNOLOGIES

THE ONLY TRULY DEDICATED PUBLICATION FOR THE ASIA-PACIFIC FOUNDRY AND METAL CASTING INDUSTRIES

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IMF introduces an innovating system to reclaim green sand

Combined mechanical and thermal reclamation provides the answer to cores and dilution in greensand plants.

Over time IMF cores to be reclaimed to the extent of Primary equipment, to find it has failed. In the world's most green sand reclamation systems used make the sand available to use sand for any portion of a new recyclable core.

Green sand reclamation: The station is a general problem in mechanical green sand reclamation plants with a high proportion of cores in the sand. The mechanical dilution of the sand used with core material means that

excessive quantities of borax are used to be added to overcome the dilution problem. At the same time, the borax is frequently found to remain partially dissolved from the system as the slurry works, and then clogs the related to handle.

The solution of IMF would be to take the excess generated which has built up in the system and convert it back to high quality sand. This material could then again be used for the production of cores. IMF's reclamation process is a combined mechanical/thermal process which allows a substantial core amount which is based on sand temp and index to save the material to a

relatively small green sand. The green sand is then passed through a granular filter where the material is enhanced in a amount of high velocity air passing through which sand is to be broken against "large" pieces of their upper reclamation, ultimately to a high average high speed reclamation system. The mechanical crushing action, green sand granules, and the sand is then carried out of the system via a dual cyclone. The sand is then converted to a slurry, from where it is carried to an IMF fluid bed thermal reclamation unit. The high temperature to which the sand is subjected causes to burn off the organic matter, destroy the coal dust and, incidentally, deactivate any residual clay binder. And all the particles are returned to the normal collection system. This is used to convert to a normal dry, from where it is passed to a normal primary cyclone or mechanical green sand for final drying and the removal of any residual moisture etc.

IMF green sand reclamation: the process is an economic method of recovering the sand from greensand to a high quality sand. Basically, this new IMF system combines previously mechanical reclamation with thermal processing to eliminate organic matter and coal dust. The result is a high grade silica sand, perfectly suited to the production of cores.

A typical sand used in the combined mechanical/thermal process which enables a substantial core amount which is based on sand temp and index to save the material to a

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IMF S.L.S.
 The Sand reclamation system (SRS) is a new system for the reclamation of sand from used sand. It is a high quality silica sand, perfectly suited to the production of cores. It is a high grade silica sand, perfectly suited to the production of cores.

For any further information please contact us at: marketing@imf.com.au
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WEBSITE SHOWCASE

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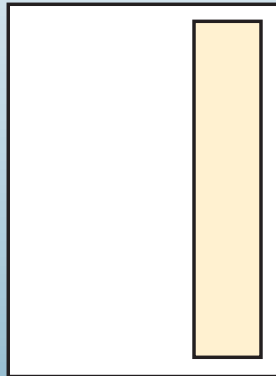
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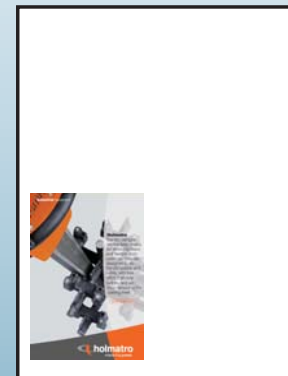
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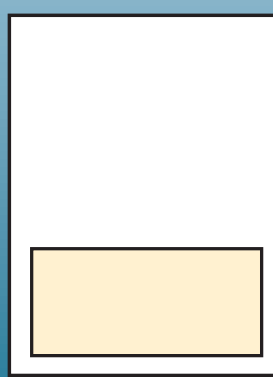
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