



Teralba

HEAT EXCHANGERS FOR ANY INDUSTRY

ISSUE #14



THE EXCHANGE

WASTE WATER TREATMENT


The Teralba **Dimpleflo**  range of tubular heat exchangers are proving to be the ideal choice in handling waste water and liquid streams which contain particulates that tend to foul other style of heat transfer equipment. Units are sized to fit into existing plant and flexible configuration choice mean that match up to existing pipework is attainable thereby reducing plant disruption to a minimum. At a sewerage treatment in Sydney, our **Dimpleflo**  equipment was specially configured to allow direct replacement and minimize plant shut down time.



HVAC


MUELLER  Plate Heat Exchangers are available in a full range of sizes and components are held in stock for short lead delivery. Recently, a **MUELLER**  Plate Heat Exchanger was selected for a duty, quoted, ordered, assembled, tested and dispatched within 24 hours as a replacement for failed unit in a production plant.

PHARMACEUTICAL


Recent supply to leading critical quality Pharmaceutical Organisations continue our long spanning history of familiarity and proficiency in supply of special surface finished **Dimpleflo**  heat exchangers. We are now regularly supplying equipment to cool/heat critical quality products such as Blood plasma, high purity water, vaccines and other liquids for injection.



CHEMICAL

Dimpleflo  The capacity that Teralba has to fabricate in special alloys enabled us to provide a solution to a challenge where chemicals containing toxins were fouling heat exchangers that were incorrectly selected and supplied by another company. Selection of correct materials, supply of equipment and elimination of repetitive heat exchanger clean out prove Teralba's ability to assess, analyze and provide answers.

FOOD

Apple pulp pasteurizing with **Dimpleflo**  is now reality for a large processing facility in Western NSW. Experienced in the care and handling of fruit/vegetable products, Teralba provided the capacity to heat apple products to critical temperature without deterioration and then cool ready for aseptic packing.



WE UNDERSTAND HEAT TRANSFER

Teralba

Giving our customers the edge with innovation and technology.

With more than 30 years of experience Teralba continues to provide quality products, service and advice on the right product for your industry needs.

We produce a wide range of quality heat exchanger products including Mueller heat exchangers for a wide or almost any application in any industry.

Quality through honesty, integrity and loyalty.



statflo
motionless mixing

- Mixquip supplies motionless mixers
- Ideal for additions and blending of liquid streams
- Manufactured in Stainless Steel, exotic alloys, polymers, steel.

STATFLO units are available in sizes ranging from Diameters that are less than 25mm diameter (depending on the flowrate) up to very large sizes and duties. Common Material choices are Stainless Steel, polymers and Galvanized Mild Steel.

APPLICATION SPOTLIGHT: A quantity of 304 series Stainless Steel units were supplied into South Australia to be installed to line-pipe work after the entry point for PH correction chemical additions. The specially shaped internal baffles are used to induce thorough agitation and ensure that the main flow and the small quantity Ph correction additions are blended proficiently and effectively.



MIXQUIP STE series agitator mixing corrosive liquids... Titanium shaft and impellers.

Fabrication in Special Alloys

Teralba builds equipment constructed in special alloys such as:

- Titanium
- Duplex series Stainless Steel
- Hastalloy
- High Nickel alloys such as Inconel

Teralba has long been involved in the design and supply of equipment manufactured in special/exotic alloys. When our valued customer approached us during the year 2009 about mixing corrosive chemicals, we were able to assess and suggest Grade 2 Titanium materials for all the wetted parts. Our fully equipped fabrication Team was able to cut and TIG weld the highly sensitive Titanium metal componentry with proficiency and achieved an excellent result.

Dimpleflo™



Handling large volume flows



APPLICATION SPOTLIGHT: As part of a major upgrade proceeding at a Winery in NSW, Teralba supplied 2 off large 200mm diameter Dimpleflo heat exchangers which will handle up 100 tonnes per hour of grape must. These 2 **modulobloc™** have 10 off 12meter long tube modules in each unit and are insulated and clad to reduce energy losses to the environment. A part of the building was dismantled to allow access and a large crane hired to lift the units into the desired location.

The Dimpled tubes are particularly effective in applications such as this as they not only aid and increase the overall heat transfer coefficients by disturbing Laminar flow characteristics, but also provide a gentle but efficient mixing effect in the liquid stream which assists with product quality control in terms of juice/pulp concentrations and energy used.

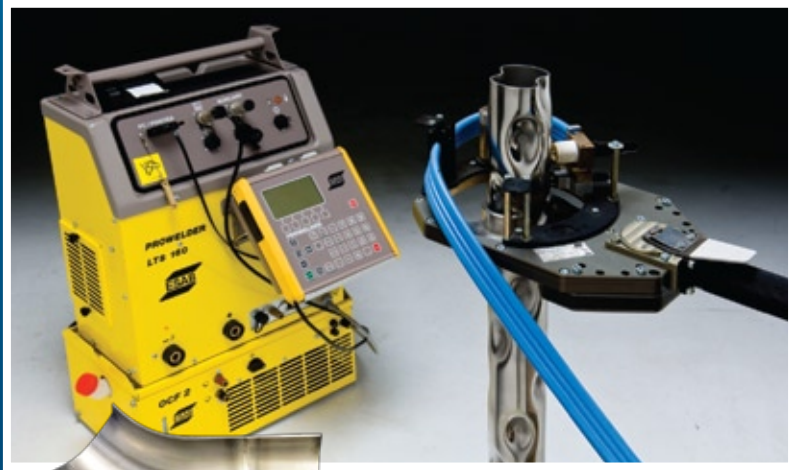
Mixquip®

Fluid Mixing Equipment

Side Entry Agitator Range now has a unique impellor manufactured without welded componentry. This 5 bladed design sets a new benchmark in terms of stability and balance and can be utilized to improve the pumping capacity of existing equipment and reduce energy usage. Retro fitting as an upgrade item is a reality as there is no change to the standard MIXQUIP MSE impellor mount details.



Teralba has invested in technology which further complements our capacity to butt weld tube and pipe. We have recently commissioned equipment which is fully programmable in terms of all the welding parameters, and has a main power source for current control and weld data recording. There are 2 different welding heads available, one being an enclosed head, in which the welding takes place inside a fully controlled, argon filled chamber and achieves ultimate in welding oxide reduction. The external head is powered to rotate around tube spools and allow access to weld joints that are quite close to fittings such as BSM, BSP, Flanges and ferrule fittings.



50mm Diameter Automated butt weld full penetration purged joint.

Teralba

Accu-Therm™
PLATE HEAT EXCHANGERS

MUELLER®
HEAT TRANSFER PRODUCTS

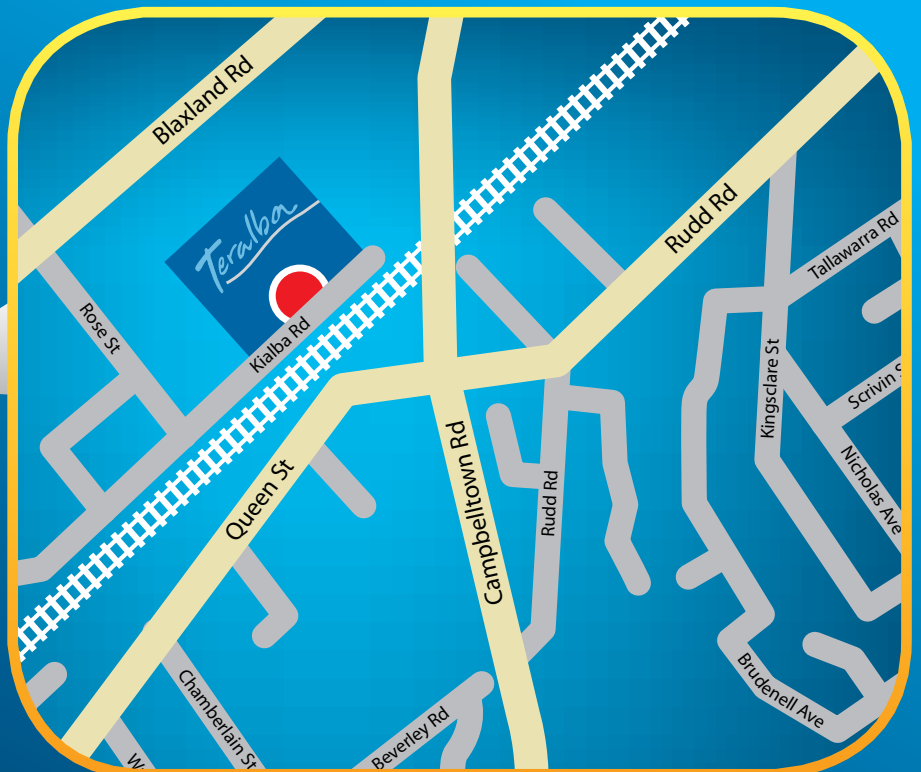
Dimpleflo™

modubloc®
DIMPLED PIPE HEAT EXCHANGER

Mixquip®
Fluid Mixing Equipment

PT Rummager™

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