



## 06/06/2007 - 'GUD'



Leading Australian filter supplier GUD of Melbourne, is one of the latest customers to benefit from the OMS Groups leading position in the automotive filter plant market.

The plant is designed to produce two filters every 15 seconds (480 per hour) and a key requirement in the overall plant configuration was the automation of the filters demoulded, release agent spray, foam power and metal mesh insertion phases. Centred around a 24 station rotating turntable deck, each of a 500mm x 50mm

circumference and featuring a combined book opening / parallel stroke upper platen, a fixed electrically heated lower platen and pneumatic injectors mounted on both upper and lower platen surfaces to facilitate fitter demould.

The book opening of the upper platen enables automatic release agent spraying to be undertaken by means of a twin headed spray unit mounted on a 6 axis ABB industrial robot and further provides a good ergonomic positioning of the upper mould frame for easy operator loading of the paper pleat packs.

Placement of the metal mesh inserts for certain models is carried out automatically by a purpose built manipulator with special electro magnetic devices designed to pick up the mesh and position it accurately in the lower mould section.

The all- important foam dispensing function is carried out by the well proven OMS Series 2002 - C2 Microdosing low pressure metering unit which, in this particular case, included 2 No colour dosing units, an I.O.V. output control system, chiller unit and automatic loading system.

Accurate dispensing of the foam is achieved by an OMS 2-axis manipulator with fast and precise control of the X and Y axis drives by means of a programmable CNC unit.

After curing, the mould carriers open and the filters produced are automatically ejected from the lower mould and are held in position until a further 6 axis ABB Industrial robot, fitted with a demould gripper, collects the filters and transfers them to the out feed conveyor.

The plant is completed by a full extraction system fitted in the service stations, perimeter guarding and integral plant safeties.

As a further indication of the complete service which OMS Group can offer, the plant supply also included 50 No machined aluminium moulds to suit the production of a variety of different models.

Area Sales Manager Luca Ceresa comments 'We have no doubt that the plant will, to date, be the most automated and state of the art line sold in Far East Asia and, probably through out the rest of the world'.