



## **11/07/2007 - GAN Tunisia Refrigerators Plants**

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OMS Group is proud to have helped in the growth of GAN (Les Grand Atelier du Nord) into a principal supplier to the Tunisian household appliances industry.

GAN is part of the Poulina Group, a firm of some 6,000 employees spread amongst many factories in Tunisia and involved in the manufacture of gas/electric cookers, washing machines and refrigerators. During the year 2000 an ambitious investment program has doubled the production of the firm with regard to refrigerators and freezers with the launch of a new model range onto the market.

GAN chose OMS Group as its partner to develop the project for the new company which will manufacture 120,000 refrigerators per year on a single shift basis.

The depth of the relationship is illustrated by the fact that, in addition to supplying the equipment to foam the refrigerators, OMS also provided the complete post assembly line for the plant, including a test run system and an automatic packing and stacking line which can accommodate a total of 14 different refrigerator and chest freezer models.

Foaming of the refrigerator cabinets is undertaken within a fully automated plant comprising 6 OMS 'Universal' type foaming fixtures fed by an automatic double carrier to load and unload the pieces and a triple stage oven to pre-heat the cabinets prior to foaming.

Cabinet foaming is by means of an Ecomaster II 100/50 High Pressure metering unit fitted with an I.O.V R1000 system which continuously monitors in real time all the working parameters of the machine including component outputs, mixing ratio, pouring pressures, working temperatures etc.

Injection is via a single mixing head which is mounted on a motorised carriage unit.

Door foaming is taken care of by an OMS 6 station rotary door plant coupled to a separate Ecomaster II 40/20 high pressure machine.

To ensure the highest product quality, a complete set of door and cabinet foaming moulds and plugs also formed part of our supply package which was completed by the provision of a centralised storage plant for polyol and isocyanate which also included the necessary transfer pumps and pipework.

As previously mentioned the post-foam equipment was also designed by OMS Group and included a slat type transfer conveyor, robotic devices to rotate the cabinets and remove them, a carousel for charging the cooling circuit and a carousel for the testing of each refrigerator produced on the line.

The entire plant is controlled by a monitoring device on a personal computer which dialogues via an Ethernet link with the various machines which make up the plant..

This protocol forms the basis of the quality control process applied to the plant for GAN, which is working under ISO9002 Certification .