

MARTELLO DELIVER LOW VOLUME PRODUCTION BREAKTHROUGH

Martello Limited – previously known as Martello Design Ltd – have achieved a breakthrough in rapid low cost tooling for short production runs of plastic mouldings.

After a year of intensive R&D complemented by over 10 years experience in polyurethane processing, the team have reached a successful conclusion to their development activities.

ENHANCED MATERIALS

Technical breakthroughs during the past year in both materials and processing technology have placed Martello in a unique position that enables them to offer clients high quality plastic pieceparts from rapid, low cost tooling. Advanced polyurethane resin formulations, exclusive to Martello, produce durable, fully pigmented pieceparts with excellent surface definition and impressive mechanical properties.

Martello are now able to offer a low, one-off tooling fee for products that can be produced in batches of 50 up to 500 off, saving customers both time and money compared with conventional tooling for injection moulding. For prototypes, up to 50 parts can be produced from one low cost mould using SLA or other Rapid Prototyping masters.

Martello's R & D has also achieved a robust V0 Flame Retardant resin, well above the norm for polyurethanes and enabling Martello to claim a first in this area.

QUALITY AND SPEED

The ThinRim™ process produces thin walled, delicate parts with excellent surface finish and fine detail. To ensure best quality, accurate machined patterns are generated using Martello's High-Speed CNC machining centre. Timescales for machining master patterns, producing the low cost tools and starting production are typically only 2 weeks.

NAME CHANGE

These significant advances have stimulated a change in direction for Martello Limited, (formerly Martello Design Ltd.) The company is now focused on prototyping and low volume production and to avoid possible confusion with design houses has dropped "Design" from its name and activities.

Martin Peters, Managing Director of Martello, recognised that in order to satisfy customer requirements fully Martello needed to challenge existing processes by pioneering new a new system able to deliver high quality pieceparts more efficiently. He comments: "Martello are continuously striving to push forward the boundaries of low volume production and processing using ThinRim™. Now, at Martello, innovation and the determination to succeed have brought a concept into reality – for the benefit of any project needing low volumes of high quality plastic mouldings fast."

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