Italian Dimac MCV5 in America

Dimac cooperates with some of the major American leaders in manufactured fasteners technology, and these partnerships have allowed them to achieve important results.

MCV5 – 24/7 unmanned shift inspection working machine, based on glass rotary table, represents one of the most appreciated solutions; also for parts considered difficult by industry standards.

Canadian RB&W, one of the largest cold-formed parts producers, has employed it in their quality process to guarantee conformed SPAC® Nuts. Their applications are manifold, mostly in automotive (e.g. suspension, frame and seating) and the criteria are strict.

MCV5 has been equipped with six high-resolution digital cameras to perform the analysis accuracy, and the MCVx software has been improved by dedicated tools, such as the Circle/Polygon contour, capable to check the 100% conformity of circular, rectangular, hexagonal and octagonal contours and the special Dynamic Scanning, which detects the exact thickness of selected areas.

Currently, RB&W has purchased nine MCV5 machines.

Super Gewinde 360° thread inspection, Head Recess Depth & Shape inspection, NDT T-Check Multi Frequency Eddy Current for heat treatment and cracks detection, are some of MCV5 options welcomed in U.S.

Latest developments have been made for the optical inspection of critical parts such as retaining ring and split-lock washer.

The former has been handled by coupling 1.5 megapixel top and side view cameras with collimated telecentric lens and lighting, the latter developing a high-rate special feeding system, with a dedicated software tool detecting any defect and deformation in the split region.

Also, SEMS & SPECIALS in Illinois has chosen MCV5 as new inspection equipment, saying that MCV5 “enables us to more accurately and efficiently quality control” their customers’ “cold formed and turned standard and special fasteners.”

This success concerns also other Dimac models, e.g. MCV1.

A special release dedicated to the inspection of aerospace rivets has been successfully installed at AIC Air Industries – California, developed to acquire the geometry contour of a threaded region in order to detect the smallest chocks and geometry defects, which can appear everywhere.

“American customers continue to respond enthusiastically to our engagement and determination on reaching the excellence,” said GM Massimo Agrati. “We are proud of the trust they put in us. This is evident during the international fairs, where our dedication is rewarded by literally crowded-round booths, such as in Stuttgart this year.”

“We’ll wait for our customers on June 20 and 21 in Mexico City,” said Andrew Dreger of Ingor-Intools, official distributor of Dimac products in Canada and North America. “And for sure at Las Vegas, for NIFMSE 2017.”