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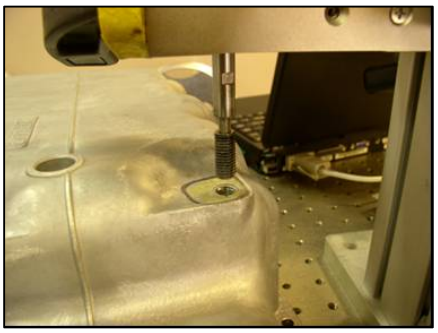
News Release



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SMAC Inc. Releases the latest & updated version of its automated 100% in-line thread checking system.

SMAC Moving Coil Actuators (MCA) has recently released an updated version of its fully automated 100% in-line thread checking system. It is designed for applications where conventional solutions such as cameras, vision systems, lasers or Eddy current probes are problematic or unsuccessful. It is also been successfully adopted where gauging & testing of screw threads is done manually.

The SMAC system is fully automated and performs eight independent checks on each screw thread. They are: Height or location of part to be checked, counter bore depth, no threads, shallow or under sized threads, double tapped thread, cross threading, length of thread & number of turns, broken tap & pitch or over size thread.

The SMAC Moving Coil Actuator (MCA) system delivers a number of significant advantages over conventional solutions. Unlike lasers or cameras & vision systems the SMAC system can perform in dark, smoky or (Maybe use Dirty or Unclean or some other word…..in place of Hazardous, as hazardous typically refers to Explosion Proof applications) hazardous environments. The torque used to rotate the thread gauge can be fully monitored enabling 100% data capture & feed back and to be used with existing SPC / quality systems. Critically, the SMAC system checks both the presence and quality along the entire length of the thread – which is not possible using a camera or vision system. The linear measurement system within the SMAC solution also allows the user to check the pitch of the thread. Until now this was not possible using any other conventional system and usually requires the component being checked to be checked by hand, or in some cases even be cut – causing waste, down time and inefficiency.

The SMAC system also incorporates its unique ‘softland’ function which allows the thread gauge to soft land with a controlled and measured force onto the part to be checked to find the datum / surface without breaking the gauge or damaging the component. Delivering a further reduction in time and waste.

The SMAC fully automated 100% thread checking system can be used for both small & large threads – M1 to M16 threads can be checked with the same unit. The system is a fully integrated, modular system which is totally & freely programmable and delivers highly repeatable micron & sub micron accuracy.

SMAC Moving Coil Actuators (MCA) are used widely in automotive QC / measuring / switch test / screw thread checking applications along with assembly, robotics, packaging solutions where 100% verification is required.

SMAC Inc is the world leader in Moving Coil Actuators and associated control systems. Headquartered in Carlsbad, California USA with subsidiaries throughout Europe, Asia & Japan.
SMAC delivers high tech solutions to industry with linear, rotary actuators, positioning stages and electronic control solutions.

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