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RAYLASE presents a Quantum Leap in Raw Processing Speed with 3-Axis Systems

How is it possible to significantly improve such a powerful and well tried and tested Technology?
RAYLASE delivers an answer based upon a new exclusive design of its highly regarded 3 Axis System AXIALSCAN. It is only one year ago that RAYLASE rocked the industrial boat by delivering 3 Axis systems which produce tiny focussed spots whilst processing large fields. Customers are achieving results in less time without increasing laser power for more cost effective and efficient production of parts and less demand on the extraction of fumes. Now RAYLASE has made a quantum leap in Speed. And this on two levels.

Every AXIALSCAN is now available with the Linear Translator RLT-19. This innovative Design enables speed increases of more than 60%. This leads to Processing Speeds of over 16 m/sec in a field of 500 x 500 mm. Up to now, the speed barrier was around 10 m/sec. Overcoming this barrier with the 3-Axis System was not possible with the existing designs of Linear translators. RAYLASE has greatly improved this part of the Subsystem so that the same Focussing accuracy is achievable with the RLT-19 at much greater speeds.

Not to be overtaken by this improvement of speed, a second innovation was necessary – this time in Head design. Enter the SUPERSCAN-SC-30! RAYLASE has increased the Deflection Speed by 40 % compared to existing systems. The critical element for this new Development is the deployment of Ceramic Mirrors. Stiffness paired with feather-lightness enables very short acceleration times and thus high speeds.

The superior Performance of the SUPERSCAN-SC-30 is apparent over the whole operating range of the AXIALSCAN although by the processing of large objects, it is the Linear Translator which may limit the performance. It is in the processing of smaller objects that the SUPERSCAN-SC-30 really comes into its own as demonstrated by the execution of rapid jumps and the accurate processing of tight corners.

Thus the SUPERSCAN-SC-30 is an extremely interesting Product for High Speed Applications including the processing of moving articles. RAYLASE recommends the fully integrated solution of the AXIALSCAN Sub-System. That way, the combination of the SUPERSCAN-SC-30 and the RLT-19 are matched to achieve the highest possible accuracy and speed whilst offering a cost effective high end solution.

RAYLASE AG is a world-wide, trend-setting enterprise that develops modular components and assemblies to deflect and modulate laser beams and sells these internationally. Since its foundation in April 1999, RAYLASE has been facing the challenges in this field and supplying the market with innovative solutions. A global network of experienced specialists, external advisers, research and development facilities guarantee customers a range of products and services to the highest international standards.

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