

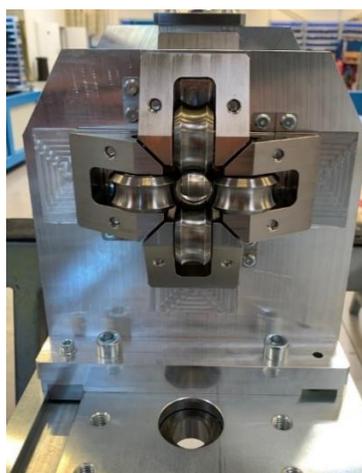
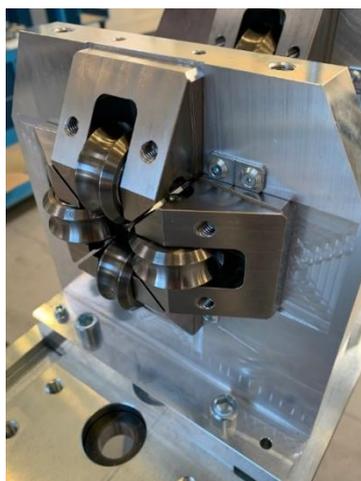
Communication – November 2020

New Welding Calibration Head

T.H.E. MACHINES – Switzerland presents its new design of their Welding Calibration Head which brings higher production and process safety, with time and cost savings during maintenance.

Features at a glance

- With conventional welding heads and calibrating stations used in laser welding, it is possible that the geometrical position of rollers may change due to the effect of heat, knots (bulges in the tube product) or operator errors. With this new design this problem can be voided and eliminated.
- The new system uses the principle of the inclined plane, meaning the contact between fork and roller support plate, once tightened, can no longer be moved.
- In case a big pipe knot (extreme situation) or tube deformation has to pass through the welding head, the fixing screws will act as a fuse. Effectively they are designed to shear under extreme duress absorbing the shock and avoiding critical damage to other parts.
- The new high-precision components reduce the assembly time during maintenance work, such as changing ball bearings or replacing a broken roller.
- The positioning of the rollers in the X-axis does not require adjustment. The precise accurate re-positioning and re-assembly is fully repeatable. This is ensured by the combination of high-precision tolerances and concept of rollers, forks and roller support plate all in one.
- The position of the Z-axis, and re-positioning is guaranteed by a position indicator.



For further more detailed information, please don't hesitate to contact us.