

## 

THE NEXT GENERATION.





## ✓ COST-EFFICIENT ACCESS TO SIMPLE BRAZING AND WELDING APPLICATIONS

✓ MOTOR CURRENT CONTROLLED SWIVEL AXIS

✓ EASY START-UP, SET-UP AND HANDLING CONCEPT

ALO4 CUSTOMIZED FOR ALL **INDIVIDUAL TACTILE BRAZING** AND WELDING APPLICATIONS



- ✓ PRECISE CLOSED-LOOP CONTROL OF THE **PROCESS FORCES AND 3D TILT COMPENSATION** TO ELIMINATE DISTURBING INFLUENCES
- ✓ CUSTOMIZABLE AND EXTENDABLE THROUGHOUT ENTIRE PRODUCT LIFE CYCLE
- ✓ FLEXIBLE CHOICE OF MAGNIFICATIONS AND BEAM SHAPES TO REACH OPTIMAL BRAZING AND WELDING RESULTS





TA MOTION/TA FIX

- High application flexibility by new compact design
- Increased stability through intelligent component integration



• Optimized seam quality control

• Higher precision by increased power Redundant safety functions for flexible laser cell design





FOM-MOTION Motor driven lateral beam to wire adjustment

SWIVEL AXIS

• Included in ALO4 recipes





- Continuous monitoring of protective glass contamination
- Based on innovative temperature algorithms



SCeye<sup>®</sup> Enhanced data logging and video

recording during the process Extended process monitoring e.g. range control and slip-off detection

## ALO4 BENEFITS

- ✓ FULLY INTEGRATED WIRE-FEEDER-SYSTEM FOR EASY HANDLING VIA OPTICS' USER INTERFACE
- ✓ NEW OPTICS CONTROL WITH INTEGRATED **PROTECTIVE GLASS MONITORING, MEDIA FLOW** CONTROL AND TRIGGERING OF LASER SOURCE
- ✓ INTUITIVE GRAPHICAL USER INTERFACE AND **RECIPE SELECTION ENABLE FAST PROCESS** PARAMETER ADJUSTMENT AND EASY DATA TRANSFER TO OTHER OPTICS

BACKUP AND RESTORE OF PROCESS PARAMETERS

- ✓ SHORTER START-UP TIMES, FASTER OPTICS EXCHANGE AND MORE EFFICIENT SERVICE THROUGH PLUG-AND-PLAY HARDWARE AND **INTERFACE ARCHITECTURE**
- ✓ RESPONDING TO INDUSTRIES' INCREASING CONNECTIVITY AND DOCUMENTATION REQUIRE-MENTS BY EXTENDED RECORDING OF PROCESS AND OPTICS SYSTEM DATA
- ✓ VIDEO CAPTURING FOR DETAILED PROCESS **OBSERVATION, FASTER OPTICS SET-UP, PRECISE** AND FAST FAULT DIAGNOSTICS
- ✓ MOTOR DRIVEN LATERAL ADJUSTMENT ENSURES CONSTANT SEAM QUALITY TO ADDRESS DIVERSE **BEAM-TO-WIRE POSITIONS AND/OR ALTERNATING** BODY DESIGNS ON A SINGLE PRODUCTION LINE





