THE NEXT GENERATION.
ALO4 BASIC
FOCUSED ON THE ESSENTIAL

ALO4
CUSTOMIZED FOR ALL
INDIVIDUAL TACTILE BRAZING
AND WELDING APPLICATIONS

COST-EFFICIENT ACCESS TO SIMPLE BRAZING
AND WELDING APPLICATIONS

MOTOR CURRENT CONTROLLED SWIVEL AXIS

EASY START-UP, SET-UP AND HANDLING CONCEPT

TELESCOPIC ARM
TA MOTION/TA FIX
- High application flexibility by new compact design
- Increased stability through intelligent component integration

AUTOFOCUS
- Automatic adjustment of the laser beam focus
- Optimized seam quality control

SWIVEL AXIS
- Higher precision by increased power
- Redundant safety functions for flexible laser cell design

FOM-MOTION
- Motor driven lateral beam to wire adjustment
- Included in ALO4 recipes

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

SCeye®
- Enhanced data logging and video recording during the process
- Extended process monitoring e.g. range control and slip-off detection

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 REQUIREMENTS 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

ALO4 BENEFITS

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